

# Curriculum Vitae



## **Dr. MOHAMMAD JAWAID**

**PhD (Polymer Composites), USM (Malaysia)  
Senior Fellow (Associate Professor),  
Laboratory of Biocomposite Technology,  
INTROP, Universiti Putra Malaysia,  
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**Visiting Professor, Department of Chemical Engineering, College of Engineering, King Saud University, Saudi Arabia since 16<sup>th</sup> June 2013**

**Adjunct Research Advisor, Nan Yang Academy of Sciences (NAS), Singapore**

**Visiting Scientist, TEMAG Laboratories, Faculty of Textile Technologies and Design, Istanbul Technical University (ITU), Istanbul, Turkey**

**Research Associate, Aerospace Manufacturing Research Centre (AMRC), Faculty of Engineering, Universiti Putra Malaysia, Malaysia**

Guest Editor, Current Organic Synthesis

Guest Editor, Current Analytical Chemistry

Guest Editor, International Journal of polymer Science

Guest Editor-IJNBM Special Issue entitled "Innovations on Applied Nanotechnology and Nano-materials",

Guest Editor, IOP Materials Science and Engineering Proceedings

<http://www.researcherid.com/rid/E-2116-2011>

<http://www.scopus.com/authid/detail.url?authorId=34972974500>

<https://scholar.google.com/citations?hl=en&user=bhFGCHwAAAAJ>

[https://www.researchgate.net/profile/Dr\\_Mohammad\\_Jawaid/?ev=hdr\\_xprf](https://www.researchgate.net/profile/Dr_Mohammad_Jawaid/?ev=hdr_xprf)

<https://publons.com/author/444787/m-jawaid#stats>

<http://www.livedna.net/?dna=91.12610>

<https://my.linkedin.com/in/dr-mohammad-jawaid-49b61b8>

<https://loop.frontiersin.org/people/539936/overview>

## I. Personal Particulars

Name: **Dr. MOHAMMAD JAWAID** (Researcher ID: E-2116-2011) <http://orcid.org/0000-0001-5348-5740>  
(H-index=36-Scopus-34972974500); (H-Index=42-Google Scholar)

Current position: **Senior Fellow (Associate professor)**

## II. A. Academic and Professional Qualifications

Year	Degree	Discipline	University
2011	PhD	Material Science (Polymer Composites)	USM (Malaysia)
2001	M.Sc (WST)	Wood Science and Technology	FRI(India)
1998	PGDCA	Computer	XISS(India)
1998	B.Sc (Forestry)	Forestry Science (Wood Industry)	BAU(India)

## B. Titles of PhD thesis

**“Development and characterization of Oil Palm Empty Fruit Bunch/Jute Fibres Reinforced Epoxy Hybrid Composites”**

## C. Academic Awards/ Achievement

1. Anugerah Academic Award in Category of International Grant-Universiti Putra Malaysia-2018
2. **Publons Peer Review Awards** 2017, and 2018 (**Materials Science**)
3. **Certified Sentinel of science Award Receipt-2016 (Materials Science)**
4. **Anugerah INTROP Gemilang** (Category-Publication) 2013/2014.
5. **Best Thesis Award (2011)**-Universiti Sains Malaysia
6. **Sanggar Sanjung Award for Excellent Achievement in Category of Journal Publications for the Year 2011**- Universiti Sains Malaysia
7. **Visiting lecture** on “Natural fibres as alternative Composite materials” at Chemical Engineering Department, Syiah Kuala University, Banda Aceh, Indonesia, December 1, 2011.
8. USM Student Ambassador Alumni (India)
9. Scholarship during B Sc (Forestry), M Sc (WST) and PhD (USM fellowship)
10. Winner of quiz and essay competition at university level.

## III. Industrial Work Experience

Year	Position	Field of Work	Place of Work
2001-2002	Quality Controller	Wood product processing and manufacturing, Product Quality.	Surya Trade link Pvt Ltd, Jodhpur(India)
2002-2003	Production-in-Charge	Wood Drying and Wood Preservation	J. S. Gupta & Sons, Moradabad (India)
2003-04	Asst. Manager Production	Saw Milling, Wood Working processing and Finishing	Mac International, Noida (India)
2003-04	Production Manager	Wood Processing, Product Design and fabrication, Packaging and shipment	KAARU, New Delhi (India)

**IV. Academic Work Experience**

Year	Position	Field of Work	Place of Work
12th Oct 2015- 11th Oct 2018	Research Fellow(UDQ8)	Polymer composites, Hybrid Composites, nanocomposites, Biocomposites, Biopolymers, etc	Universiti Putra Malaysia, Malaysia
11th Oct 2012- 10th Oct 2015	Research Fellow(UDQ9)	Polymer composites, Hybrid Composites, nanocomposites, Biocomposites, Biopolymers, etc	Universiti Putra Malaysia, Malaysia
April to 9th Oct 2012	Visiting Lecturer	Polymer composites, Polymer blends, Nanocomposites,	Universiti Teknologi Malaysia, Johor
2011-2012	Research Fellow	Work on Nanocellulose extraction from oil palm biomass and its application	Universiti Sains Malaysia, Penang
2006-08	Lecturer	Wood Composite Laminated and Polymer Composite	Adama University (APEX University), Ethiopia
2004-06	College Instructor	Wood Composites, Processing, Wood Finishing, Machining	Assosa TVET Under Ministry of Education of Ethiopia

**V. Current Research Areas**

1. Hybrid Composites/Lignocellulosic Reinforced/Filled Polymer Composites.
2. Modification and Treatment of Lignocellulosic Fibres and Solid Wood.
3. Biopolymer based film and composites.
4. Nano filler and Nanocomposites
5. Advance Materials: Graphene/Nanoclay/Fire Retardant
6. Nanocellulose fibres
7. Polymer blends

**VI. Technical Knowledge**

Natural fibre and synthetic fibre polymer composite, biocomposites, and nanocomposite processing and manufacturing technique and Their Mechanical, physical, thermal, morphological analysis. Universal Testing Machine, SEM, TGA, DSC and DMA techniques.

**VII. Research Grants**

Project No.	Project Title	Role	Year/ Amount	Source of Fund	Status
UPM/800-3/3/1/GPB/2018/9668300	Development of Oil Palm Empty Fruit Bunch/Sugar cane Bagasse Fibre Based Hybrid Composites Insulation Board for Construction Applications	Project Leader	Dec 2018- Nv 2020/RM 133,289	Putra Grant- UPM	On Going
Newton-Ungku Omar Coordination Fund (6300873)	Safe Biodegradable Packaging	Malaysian Head	Dec 2016- Nov 2019/ RM 5.3 Million	Innovate UK- MIGHT	On Going
UPM/INTROP/100-13/9/3/HICOE (6369108)	Development of Fire Retardant oil palm/Kenaf reinforced epoxy Hybrid Biocomposites for Automotive components	Project Leader	2017- 2019/ RM 320,000	MOHE-KPT	On Going
UPM-Sime Darby Research-6233200-13065	A New Customized Safety Helmet in Improving Occupational Safety and Health among Palm oil Plantation workers in Malaysia	Co-Researcher	April 2017-Sept 2018/RM 40,000	Sime Darby- Malaysia	On Going

UPM-KTGS-JINM-9437526	Development of Novel Pineapple leaf fibre extraction machine for villagers from waste to wealth	Co-Researcher	2017-2019/ RM25,000	UPM	On Going
GP-IPS/2017/9626200	Development and Characterization of Roselle Nanocellulose Reinforced Polylactic Acid Nanocomposites	Project Leader	15 Feb 2018-14 <sup>th</sup> Feb 2020/ RM 20,000	Putra Grant-UPM	On Going
GP-IPS/2017/9626300	Development of biodegradable food packaging film by using bamboo Ncc and PHB/PLA bionanocomposites	Project Leader	15 Feb 2018-14 <sup>th</sup> Feb 2020/ RM 20,000	Putra Grant-UPM	On Going
FRGS	Extraction of Nanocellulose and development of Green Nanocomposites from Sugar palm fibers	Co-Researcher	July 2017-June 2019/RM 99,700	Ministry of Education of Malaysia (MOHE)-KPT	On Going
UTM-RU Grant	Mechanical, thermal and flammability properties hybrid graphene/Kenaf fiber/Epoxy biocomposites	Collaborator	2016-2018/ RM50,000	RU Grant-UTM	On Going
GP-IPB/2016/9490601	Development and Characterization of Bamboo/Roselle Fibres Reinforced Epoxy Hybrid Biocomposite	Project Leader	2016-2018/ RM 132,400	Putra Grant-UPM	Completed
GP-IPS/2017/9520200	Pineapple leaf Fibre Enhanced Coir fibre Reinforced poly lactic acid Hybrid BioComposites for biodegradable packaging material	Project Leader	2017-2018/ RM 20,000	Putra Grant-UPM	Completed
GP-IPS/2017/9519000	Fabrication and Characterization of Bleached Softwood Kraft Pulp Cellulose Nanofiber Reinforced Epoxy Nanocomposites	Project Leader	2017-2019/ RM 20,000	Putra Grant-UPM	Completed
GP-IPB/2014/9441501	Formulation and Development of glass/sugar palm fibre reinforced polyurethane hybrid composites for automotive anti-roll bar	Project Leader	2014-2016/RM 146,000	Putra Grant-UPM	Completed
GP-IBT/2014/9420700	Development and characterization of fire retardant kenaf-oil palm nano fillers reinforced hybrid biocomposites	Project Leader	2014-2016/ RM 149,000	Putra Grant-UPM	Completed
5527184	Development of Inexpensive Prosthetic leg Socket from woven Kenaf-glass fibre hybrid Composites	Co-Researcher	2013-2016/ RM 125,000	ERGS-MOHE	Completed
03-01-04-SF 1855	Developing Hybrid Biocomposites Reinforced Thermoset Moulding Compounds	Co-Researcher	2014-2016/ RM 165,000	E-Science-MOSTI	Completed

Joint Research Project	Study on possibility of using chicken-feather for manufacturing wood-composites panels improved with nano-wollastonite	Co-Researcher	2012-2014/USD 31,750	UPM-IRAN-Germany	Completed
1001/PTEKIND/8410	Plant Fibers Hybrid Reinforced Polymer Composites	Project Leader	2008-2011/RM 12,500	USM-RU-PRGS	Completed

### VIII. Teaching

No.	Course Name	Course No.	Student/Semester	Credit Course
1.	Resin Technology	WST-296	30-40 Students/Semester	3 Credit hours
2.	Introduction to Wood and Forestry	WST-193	30-40 Students/Semester	3 Credit hours
3.	Science of wood	WST-192	30-40 Students/Semester	3 Credit hours
4.	Polymer Composites	WST-292	30-40 Students/Semester	3 Credit hours
5.	Wood Preservation	WST-397	30-40 Students/Semester	3 Credit hours
6.	Senior Project	WST-398	10 Students/Semester	4 Credit hours
7.	Design for Composite Materials and Structures (MSIED)	EAS 5955	10 Students/Semester	3 Credit hours

### IX. Supervision (PhD and Master)

#### (a) Graduated

Name	Degree	Supervision	Title
Mohd Asim Khan(GS39945)	PhD	Main Supervisor	Development and characterization of kenaf/pineapple leaf fibre-reinforced phenolic hybrid composites
Atiqah Mohd Afzaluddin (GS44807)	PhD	Main Supervisor	Properties of sugar palm/glass fibre-reinforced thermoplastic polyurethane composites
Ramengmawii (GS43134)	PhD	Main Supervisor	Characterization of coir/pineapple leaf fibre reinforced polylactic acid hybrid composites for potential food tray applications
Mohamed Mohamed M. Alkateb(GS41834)	PhD	Co-Supervision	Quasi-static crushing behaviour of kenaf fibre reinforced epoxy composite elliptical tubes
Ridwan bin Yahya (GS35511)	PhD	Co-Supervision	Mechanical and ballistic properties of natural fibre-aramid hybrid laminated composites
Seyed Fariborz (GS33035)	PhD	Co-Supervision	Volumetric composition and hybridization effects on mechanical properties of the pultruded hybrid kenaf/glass fiber composites
Muhammed Lamin Sanyang (GS39589)	PhD	Co-Supervision	Biodegradable composite films from modified sugar palm (arenga pinnata (wurmb) merr.) Starch for food packaging applications
Nadlene binti Razali (GS38427)	PhD	Co-Supervision	Development and characterization of roselle fibre reinforced vinyl ester composites
Seyed Eshagh Ebadi (GS35286)	PhD	Co-Supervision	Multivariate optimization of hydrothermal treatment of oil palm wood in buffered media
Ridwan bin Jumaidin (GS41277)	PhD	Co-Supervision	Development and characterization of thermoplastic sugar palm starch/agar polymer blend, reinforced seaweed waste and sugar palm fiber hybrid composite
Bushra Rashid Mohd (GS38642)	PhD	Co-Supervision	Characterization and development of sugar palm-filled phenolic composites as friction materials
Ahmed Faraj Ibrahim Hissen Edhirej (GS40330)	PhD	Co-Supervision	Characterization and development of cassava (manihot esculenta crantz)/sugar palm (arenga pinnata (wurmb) merr.) Fiber-reinforced cassava starch hybrid composites

Zahra Dashtizadeh (GS37600)	PhD	Co-Supervision	Development and characterization of recycled carbon-kenaf filled cardanol hybrid composites
Ain Umaira Binti Md Shah (GS42642)	PhD	Co-Supervision	Low velocity impact sandwich structure bamboo for aerospace applications
Syafiqah Nur Azrie (GS42459)	PhD	Co-Supervision	Impact and penetration properties of sugar palm/glass hybrid composites for Anti roll bar.
Ahmad Safwan Bin Ismail (GS46799)	Master	Main Supervisor	Fabrication and characterization of woven kenaf/bamboo mat fiber- reinforced epoxy hybrid composites
Nurhanisah Mohd Hawari (GS39002)	Master	Main Supervisor	Design and fabrication of eco-friendly prosthetic leg socket made from woven kenaf-glass fiber hybrid composite
Nur Sofean Zulaika (GS44554)	Master	Co-Supervision	Properties of resin-impregnated sugar palm fibre-reinforced epoxy composites
Farah Hanan (GS31264)	Master	Co-Supervision	Effects of fibre ratio and additives on properties of pultruded kenaf/glass fibres phenolic hybrid composites
Ubair Abdus Samad (KSU)	Master	External Co-Supervision	Studying the Effect of Epoxy/Polyamide Nano Coatings Filled with Conducting Polymers on Corrosion Performance
Layth Mohammed (UNITEN)(SM21853)	Master	External Co-Supervision	Influence of Chemical treatment on the natural fibre/epoxy composites for automotive applications
M. Faris (UiTM)	Master	External Co-Supervision	Tribological properties of Kanaf based hybrid composites
Ahmad Mustafa (GS47432)	Master	Co-Supervision	Development of composite hybridization of kenaf fibre and x-ray film for aerospace ballistic impact applications
Ariff Farhan (GS 47435)	Master	Co-Supervision	Enhancement of low velocity impact properties of bamboo/glass fibre hybrid composites using carbon nanotubes for aerospace structural applications
Nurul Shuhadah (MKK 153002) (UTM)	Master	External Co-Supervision	Kenaf/epoxy/GNP based hybrid composites
Khairul Izwan bin Ismail (GS47447)	Master	Co-Supervision	Characterization of hybrid biocomposite synthesised with multi-walled carbon nanotube for finite strain application of aerospace structures

**(b) On-Going**

Name	Degree	Supervision	Title
Masrat Rasheed (GS45952)	PhD	Main Supervisor	Safe Biodegradable Packaging Film from Natural Materials
Farah Hanan Abd Malek (GS48278)	PhD	Main Supervisor	Development of Fire Retardant oil palm/Kenaf reinforced Epoxy Hybrid Biocomposites for Automotive component
Nor Azlina (GS49644)	PhD	Main Supervisor	Insulating Board from Oil palm/Bagasee for Construction Applications
Lau Kia Kian (GS46564)	PhD	Main Supervisor	Isolation and Characterization of Naocellulose from Roselle Fibres and Roselle/PLA Nanocomposites
Chee Siew Sand (GS47197)	PhD	Main Supervisor	Thermal and biodegradable properties of Bamboo/Roselle fibres reinforced epoxy hybrid composites
Nur Aqeela Mohd Yussof (GS48060)	Master	Main Supervisor	Aromatic Paper making using Malaysian Herb
Faris Syahiran Ismail (GS48071)	Master	Main Supervisor	Pulping of oil palm EFB fibres and its utilization in Packaging materials by Pulp Moulding
Naveen Jesu Arockiam (GS49491)	PhD	Co-Supervision	Development and characterization of hybrid kevlar/sisal/carbon/glass fiber reinforced graphene filled epoxy composites
Tabrej Khan (GS49088)	PhD	Co-Supervision	A Novel Method for characterization of Aircraft Food Tray Tables using Bio-composite Materials+
Muhamad Hasfanizam (GS47710)	PhD	Co-Supervision	Computational design of Wing Structure
Norrahim Bin Abu Bakar (GS 47740)	PhD	Co-Supervision	Elephant grass/Glass fibre-based Hybrid composites for Aircraft Door

Siti Madiha Binti Muhammad Amir (GS41424)	PhD	Co-Supervision	Non-destructive evaluation (NDE) for characterization and detection on low velocity impact damage mechanism for non-metallic material
Noorshazlin Razali (GS42466)	PhD	Co-Supervision	Impact and Penetration behaviours of Kenaf/Flax/Glass hybrid composites
Mohd Radzi Bin Ali (GS43514)	PhD	Co-Supervision	Mechanical and Thermal properties of Sugar palm/Roselle Fibres reinforced PU hybrid composites
Nik Syamsul Bahari (GS45349)	PhD	Co-Supervision	Design and Fabrication of Crash box from Sugar palm/Glass Hybrid composites
M. Chandrasekar (GS46278)	PhD	Co-Supervision	Metal composite Laminates for Aerospace applications
Nuzaima Mustafa (GS46984)	PhD	Co-Supervision	Development and characterization of polyester composite with waste rubber glove particles as fillers
Nur Sharmila Binti Sharip (GS51218)	PhD	Co-Supervision	Development of ultra-high molecular weight polyethylene/cellulose nanofiber composite for tibial inserts potential application
Nur Marini Zainal Abidin(GS53504)	PhD	Co-Supervision	Application of Natural Fibre Composite in UAE Wings using Finite Element Analysis
Farah Syazwani Binti Shahar (GS52900)	PhD	Co-Supervision	Designing an ankle-foot orthosis (afo) by using natural fibres composite which is suitable for an area with high humidity and temperature
Tamil Moli A/P Loganathan (GS52316)	PhD	Co-Supervision	Characterization of cyrtostachys renda / kenaf fiber reinforced bio-phenolic hybrid bio-composites as aircraft interior
Nor Izaida binti Ibrahim (GS53161)	PhD	Co-Supervision	OSB from Oil palm Trunk for Structural applications
Muhammad Imran Najeeb (GS52215)	Master	Co-Supervision	Comprehensive studies on properties and biodegradability of chemically treated and untreated yankeeâ pineapple leaf fibre palf and palf-based polymer composites
Ali Ahmed Bin Mazlan (GS52223)	Master	Co-Supervision	Mechanical and thermal properties of pineapple leaf and kenaf fibre reinforced vinyl ester resin hybrid composites on aerospace application

#### X. Examiner

##### External Examiner

No	Name of student	Program (Master/ PhD)	Internal/ External	Year	Title of Project
1	S. Nanda Kumar (Anna Univ, india)	PhD	External	2018	Development of AN AE Technique for Analyzing and Characterization the GFRP Composite Hardware Through Regression Analysis and Artificial Neural Network Analysis
2	Shyam Dev Maurya (Anna Univ, india)	PhD	External	2018	A Study on Transparent Poly (Ester-Urethane Acrylate)/Methyl Methacrylate copolymer: Synthesis and Characterization
3	J. Joshua Gnana Sekaran (Anna Univ, india)	PhD	External	2018	Investigation of effects on the properties of High Strength Low alloy steel for various percent Nickel content and powder metallurgy Parameters
4	G S Sudha	PhD	External	2018	Synthesis of biobased epoxy resins: effect of modification of castor oil and incorporation of carbon properties and morphological behaviour of the composites
4	Ali Taha Saleh (UTM)	PhD	External	2017	Injectable Dicalcium Phosphate Cements for Orthopedic Applications
5	Muhammad Akram Chaudhary (UTM)	PhD	External	2016	Fabrication and characterization of Ceramic Nanoparticles Using continuous Microwave Flow Synthesis Technique

6	Arshad Hssain (UTM)	PhD	External	2017	Fabrication and characterization of Cu-Sb-S and Cu-Bi-S Thin films libraries for Photovoltaic Cells
7	Yaleeni A/P Kanna Dasan (UTP)	Master	External	2016	Isolation and Characterization of Nanocrystalline Cellulose Based nanocomposites from oil
8	Surendra Pratap Singh (IIT, India)	PhD	External	2014	Studies for Recovery of Energy and Chemicals from Agri-Residue Black Liquors
9	Hasan Dhari Hasan (UNITEN)	Master	External	2014	A Study on Machinability and Surface Morphology of nano copper oxide/epoxy composite using CNC
10	Syeed Saifulazry Osman Al Edrus	PhD	Internal	2017	Composite Film of Jatropha Oil-Based Polyurethane Reinforced with Micro and Nanocrystalline Cellulose Fibres
11	M.Prasad (Anna Univ, india)	PhD	External	2015	Nanocomposite membranes of sulfonated polysulfone (spsu) and sulfonated polyether ether ketone (speek) for direct methanol fuel cell applications: effect of blending of hydrophobic polyvinylidene fluoride-co-hexafluoro propylene (PVDF-HFP)
12	Suresh.D (Anna Univ, india)	PhD	External	2015	A study on synthesis and characterization of bio-based composites and Nanocomposites from poly(trimethylene Terephthalate) (ptt) and poly (butylene Adipate co-terephthalate) (pbat) blends Reinforced with oil palm fruit bunch fiber and titanium dioxide (TiO <sub>2</sub> ) nanofiber
14	Sakthivel M (Anna Univ, india)	PhD	External	2016	Mechanical characterization and Machining of fibre metal mesh Laminate composites
15	Mr. K. Mayandi (KLSU, India)	PhD	External	2017	Development and performance analysis of polymer composites with some newly identified and characterized natural fibres
16	P. Sarath (Anna Univ, india)	PhD	External	2016	Enhancement of mechanical and Flame retardancy of Engineering Plastic and its blends from Waste Electrical and Electronic Equipments used in communication Devi

#### **International Scholarship Referee/Academic Promotion Evaluator**

1. Dr. Akil Ahmad- NRF Free-standing-Scarce Skills-Innovation Postdoctoral Fellowship Call for 2016, University of KwaZulu-Natal, South Africa
2. Keredin Temam Siraj- National Science Scholarship (MD-PhD), A\*STAR Graduate Academy, Singapore
3. Tabrez Khan- Commonwealth Scholarship Scheme-UK
4. Moyete-Malaysian International Scholarship
5. Dr. Magdi Gibril- Post Doc position, *Stellenbosch University, South Africa*
6. Dr. Ismaeel Moslam Alwaan-Georg Forster Research Fellowship Programme for Postdoctoral Researchers
7. Dr. Hani Abdullah Anber Alhadrami for associate professor Promotion, King Abdul Aziz University, Jeddah
8. Dr. Shakeel Ahmed Ansari for promotion to the rank of Associate Professor, King Abdul Aziz University, Jeddah

#### **International Grant Evaluator**

1. Austrian Science Fund (FWF)
2. King Fahd Petroleum and Minerals University Research Fund
3. King Abdul Aziz Research Grant



### **Dissertation/Research Proposal**

1. Nur Sharmila binti Sharip (PhD) Development of Ultra-High Molecular Weight Polyethylene/Cellulose Nanofiber Biocomposite For Tibial Inserts Application, Department of Bioprocess, UPM, Selangor, Malaysia
2. Siti Shazra Shazleen binti Shamsudin (Master) Synthesis of Transparent Conductive Hydrophobic Nanopaper As Solar Cell Substrate, Department of Bioprocess, UPM, Selangor, Malaysia
3. Wan Sulwani Izzati (Master) Dynamic Mechanical Properties and Moisture Adsorption of Epoxy Composite Reinforced with Nano-Crystalline Silica From Rice Husk, Faculty of Forestry, UPM, Selangor, Malaysia
4. Hamdon Ali Abdelrhman Mohammed (PhD) technical, Environmental and Financial Feasibility of Kenaf and Kenaf fibre industrial Products in Malaysia, INTROP, UPM, Selangor, Malaysia.
5. Mohd Shukri Ibrahim (PhD) Characterization and development of biodegradable thermoplastic composites from high density polyethylene (HDPE) filled with algae, INTROP, UPM, Selangor, Malaysia.
6. Wan Mohamad Haniffah Wan Hussin (PhD) The effect of heat treatment on mechanical and hygroscopic properties of Kenaf/propylene composite, INTROP, UPM, Selangor, Malaysia.
7. Suzana Amran (Master) Enhanced recycled pulp using Kenaf bast nanofiber reinforcement, INTROP, UPM, Selangor, Malaysia.
8. Irma Raihana Zahib (Master) Development of flexible teeth whitening, INTROP, UPM, Selangor, Malaysia.
9. Syazevan Effatin Azma Binti Mohd Asri (PhD) Development and Characterization of Polylactide Chitin Nanowhiskers composites, Chemistry Department, Faculty of Science, UTM, Johor, Malaysia.
10. Nur Wahidah binti Abd Hakim (Master) Effect of chitin and chitosan on polyamide 6/polypropylene blends, Chemistry Department, Faculty of Science, UTM, Johor, Malaysia.

### **XI. Research Publications**

#### **Books**

1. Nanostructured polymer composites for biomedical applications (2019), Woodhead Publication, Elsevier, UK (Accepted)
2. Sustainable Nanocellulose and Nanohydrogels from Natural Sources (2019), Elsevier, UK (Accepted)
3. Nanomaterials for Healthcare, Energy and Environment (2019), Springer Nature Singapore Pte Ltd (Accepted)
4. Graphene Functionalization Strategies - From Synthesis to Applications (2019), Springer Nature Singapore Pte Ltd.
5. Self- Healing Composite Materials: From Design to Applications (2019), Elsevier, UK (Accepted)
6. Advances of Nanomaterials for Forestry and Agricultures (2019), Elsevier, UK (Accepted)
7. Polymer nanocomposite-based smart materials: from synthesis to application (2019), Elsevier, UK (Accepted)
8. Pineapple leaf fibers- processing, properties and applications (2019) Springer Nature Singapore Pte Ltd.
9. Biobased polymers & Nanocomposites: Preparation, Processing, Properties & Performance (2019) Springer International Publishing AG, Switzerland (In Press)
10. Graphene-based Nanotechnologies for Energy and Environmental Applications, Woodhead Publication, Elsevier (2019), UK (Accepted)
11. Modelling of damage processes of Biocomposites, Fibre reinforced composites and Hybrid composites, Woodhead Publication, Elsevier (2019), UK (In Press), page 500, **ISBN: 978-0-08-102289-4**
12. Structural health monitoring of Biocomposites, Fibre reinforced composites and Hybrid composites, Woodhead Publication (2019), Elsevier, UK (In Press), page 500, **ISBN: 978-0-08-102291-7**
13. Functionalized Graphene-based Nanocomposites and its Derivatives (2019), Woodhead Publication, Elsevier, UK , page 376, **ISBN: 978-0-12-814548-7**

14. Nanocarbon and its Composites, Woodhead Publication (2019), Elsevier, UK (In Press), page 600, **ISBN: 978-0-08-102509-3**
15. Durability and life prediction in Biocomposites, Fibre reinforced composites and Hybrid composites (2019), Woodhead Publication, Elsevier, UK, page 443, **ISBN: 978-0-08-102290-0**
16. Failure analysis in Biocomposites, Fibre reinforced composites and Hybrid composites (2019), Woodhead Publication, Elsevier, UK, page 276, **ISBN: 978-0-08-102293-1**
17. Mechanical and physical testing of Biocomposites, Fibre reinforced composites and Hybrid composites (2019), Woodhead Publication, Elsevier, UK, page 480, **ISBN: 978-0-08-102292-4**
18. Synthesis and Tribological applications of Hybrid Materials (2018) Wiley-VCH Verlag, Germany (In Press), page 234, **ISBN: 978-3-527-80859-5**
19. Sustainable Materials for Aerospace Applications (2018), Woodhead Publication, Elsevier, UK , **ISBN: 978-0-08-102131-6**, 351 Pages
20. Bionanocomposites for Packaging applications (2018) Springer International Publication AG, Chem-Switzerland, **ISBN: 978-3-319-67318-9**, 290 pages
21. Polymer-based Nanocomposites for Energy and Environmental Applications (2018) Woodhead Publication, Elsevier, UK, **ISBN: 978-0-08-102262-7**, 679 pages
22. Electrically Conductive Polymer and Polymer Composites 'From Synthesis to Biological applications (2018) Wiley-VCH Verlag, Germany, **ISBN: 978-3-527-34289-1**, 264 pages
23. Cellulose-reinforced Nanofibre Composites: Production, Properties and Applications (2017), Woodhead Publication, Elsevier, UK , **ISBN:978-0-081-00957-4**, 548 pages
24. Lignocellulosic Fibre and Biomass-based Composite Materials: Processing, Properties And Applications (2017), Woodhead Publication, Elsevier, UK, **ISBN:978-0-081-00959-8**, 630 pages
25. Green Biocomposites: Design and Applications (2017), Springer International Publication AG, Chem-Switzerland (Online Available) **ISBN: 978-3-319-49382-4**
26. Green Biocomposites: Manufacturing and Properties (2017), Springer International Publication AG, Chem-Switzerland (Online Available). **ISBN: 978-3-319-46609-5**
27. Nanocellulose and Nanohydrogel Matrices for Advanced Biotechnology and Biomedical Applications (2017), Wiley-VCH Verlag, Germany. **ISBN: 978-3-527-34172-6**, 350 pages
28. Nanoclay Reinforced Polymer Composites: Nanocomposites and Bionanocomposites (2016), Springer, Springer Science+Business Media Singapore. **ISBN 978-981-10-1953-1, pp 1-393**
29. Nanoclay Reinforced Polymer Composites: Natural fibre/Nanoclay Hybrid composites (2016), Springer, Springer Science+Business Media Singapore. **ISBN: 978-981-10-0949-5, pp 1-296.**
30. Manufacturing Process of Natural fibre reinforced polymer composites (2015), Springer-Verlag, Switzerland. **ISBN: 978-3-319-07943-1, pp 1-383.**
31. Agricultural biomass based potential materials (2015), Springer-Verlag, Switzerland **ISBN: 978-3-319-13846-6**, pp 1-505.
32. Biomass and Bioenergy-Processing and Properties (2014), Springer-Verlag, New York, USA. **ISBN: 978-3-319-07640-9, pp 1-364**
33. Biomass and Bioenergy-Applications (2014), Springer-Verlag, New York, USA. **ISBN: 978-3-319-07577-8, pp**
34. Agro-based materials Properties and prospects, Lambert Academic Publishing (LAP), Germany, 2012. **ISBN: 978-3-8465-0669-1**

#### **Book Chapters**

1. Syafiqah Nur Azrie Bt Safri, MTH Sultan, **Mohammad Jawaid** (2019) Chapter 7 - Damage analysis of glass fiber reinforced composites IN: Durability and Life Prediction in Biocomposites, Fibre-Reinforced Composites and Hybrid Composites, Pages 133-147, ISBN: 978-0-08-102290-0
2. Noorshazlin Razali, MTH Sultan, **Mohammad Jawaid** (2019) Chapter 6 - Impact damage analysis of hybrid composite materials IN: Durability and Life Prediction in Biocomposites, Fibre-Reinforced Composites and Hybrid Composites, Pages 121-132, ISBN: 978-0-08-102290-0

3. J Naveen, **M Jawaid**, P Amuthakkannan, M Chandrasekar (2019) Chapter 21 - Mechanical and physical properties of sisal and hybrid sisal fiber-reinforced polymer composites IN: Mechanical and Physical Testing of Biocomposites, Fibre-Reinforced Composites and Hybrid Composites, Pages 427-440, ISBN: 978-0-08-102292-4
4. N Saba, **M Jawaid**, MTH Sultan (2019) Chapter 1 - An overview of mechanical and physical testing of composite materials IN: Mechanical and Physical Testing of Biocomposites, Fibre-Reinforced Composites and Hybrid Composites, Pages 1-12, ISBN: 978-0-08-102292-4
5. AMR Azmi, MTH Sultan, **M Jawaid**, AFM Nor (2019) chapter 9 - A newly developed bulletproof vest using kenaf-X-ray film hybrid composites IN: Mechanical and Physical Testing of Biocomposites, Fibre-Reinforced Composites and Hybrid Composites, Pages 157-169, ISBN: 978-0-08-102292-4
6. Siti Madiha Muhammad Amir, MTH Sultan, **Mohammad Jawaid**, Ahmad Hamdan Ariffin, Shukri Mohd, Khairul Anuar Mohd Salleh, Mohamad Ridzwan Ishak, Ain Umaira Md Shah (2019) Chapter 16- Nondestructive testing method for Kevlar and natural fiber and their hybrid composites IN: Durability and Life Prediction in Biocomposites, Fibre-Reinforced Composites and Hybrid Composites, Pages 367-388, ISBN: 978-0-08-102290-0
7. Naheed Saba, **Mohammad Jawaid**, Hasan Fouad, Othman Y. Allothman, Chapter 8-Nanocarbon: Preparation, properties, and applications IN: Nanocarbon and its Composites, Woodhead Publication (2019), Elsevier, UK, page, 327-354. **ISBN: 978-0-08-102509-3**
8. Naheed Saba, **Mohammad Jawaid**, Chapter 10-Functionalized Graphene Reinforced Hybrid Nanocomposites and Their Applications IN: Functionalized Graphene-based Nanocomposites and its Derivatives (2019), Woodhead Publication, Elsevier, UK, page 205-214, **ISBN: 978-0-12-814548-7**
9. Naveen Jesu, **Mohammad Jawaid**, A. Vasanthanathan and M. Chandrasekar, Chapter 9-Finite element analysis of natural fiber-reinforced polymer composites IN: Modelling of damage processes of Biocomposites, Fibre reinforced composites and Hybrid composites, Woodhead Publication, Elsevier (2019), UK, page 153-170, **ISBN: 978-0-08-102289-4**
10. M.R. Sanjay, **Mohammad Jawaid**, N.V.R. Naidu and B. Yogesha, Chapter 11- TOPSIS method for selection of best composite laminate, pages 199-210 IN: Modelling of damage processes of Biocomposites, Fibre reinforced composites and Hybrid composites, Woodhead Publication, Elsevier (2019), UK, page 153-170, **ISBN: 978-0-08-102289**
11. Jumaidin, R., Sapuan, S. M., **Jawaid, M.**, Ishak, M. R., & Sahari, J. (2019) Starch: Renewable Source for Thermoplastic. In Encyclopedia of Polymeric Applications, ed Munmaya Mishra, CRC Press. ISBN 9781498729932
12. F. Mohammad, Tanveer Arffin, Naheed Saba, **Mohammad Jawaid**, Hamd A Al Lohedan, Electrical Conductivity and Biological Efficacy of Ethyl Cellulose and Polyaniline-Based Composites IN: Electrically Conductive Polymer and Polymer Composites 'From Synthesis to Biological applications (2018) Wiley-VCH Verlag, Germany
13. W. Ghorji, R. Siakeng, Masrat Rasheed, Naheed Saba, **Mohammad Jawaid**, The Role of Advanced Polymer Materials in Aerospace IN: Sustainable Materials for Aerospace Applications (2018), Woodhead Publication, Elsevier, UK, **ISBN: 978-0-08-102131-6**, page 19-34
14. AS Harmaen, MT Paridah, **M Jawaid**, AM Fariz, B Asmawi (2018) Chapter 5 Effect of Silica Aerogel on Polypropylene Reinforced with Kenaf Core Fiber for Interior Automotive Components IN: Kenaf Fibers and Composites, Pages 29 – 43, ISBN: 978-1-4987-5342-5

15. R Yahaya, SM Sapuan, MR Ishak, Z Leman, **M Jawaid** (2018) Chapter 9 Ballistic Properties of Hybrid Kenaf Composites IN: Kenaf Fibers and Composites, ISBN: 978-1-4987-5342-5
16. Naveen J, **M Jawaid**, N. Saba, Sustainable Bio composites for Aircraft Components IN: Sustainable Materials for Aerospace Applications (2018), Woodhead Publication, Elsevier, UK, **ISBN: 978-0-08-102131-6**, page 109-124
17. M. Asim, N. Saba, **M. Jawaid**, M. Nasir, Potential of natural fibre/biomass filler reinforced polymer composites in aerospace applications IN: Sustainable Materials for Aerospace Applications (2018), Woodhead Publication, Elsevier, UK, **ISBN: 978-0-08-102131-6**, page 253-268
18. P. Madhu, M. R. Sanjay, **Mohammad Jawaid**, S. Pradeep, B. Yogesha, N. Saba, Potential of Natural/Synthetic Hybrid Composites for Aerospace Applications IN: Sustainable Materials for Aerospace Applications (2018), Woodhead Publication, Elsevier, UK, **ISBN: 978-0-08-102131-6**, **page 315-352**
19. M. Chandrasekar, M.R. Ishak, **Mohammad Jawaid**, S. M. Sapuan, and Z. Leman (2018) Low Velocity impact properties of natural fiber-reinforced composite materials for aeronautical applications IN: Sustainable Materials for Aerospace Applications (2018), Woodhead Publication, Elsevier, UK, **ISBN: 978-0-08-102131-6**, **page 293-314**
20. N. Saba, and **M. Jawaid** (2018) Energy and environmental application of graphene and its derivatives IN: Polymer-based Nanocomposites for Energy and Environmental Applications (2018) Woodhead Publication, Elsevier, UK, **ISBN: 978-0-08-102262-7**, **page 105-123**
21. M Alkateb, SM Sapuan, Z Leman, MR Ishak, **M Jawaid** (2018) Energy Absorption of Natural Fibre Reinforced Thermoset Polymer Composites Materials for Automotive Crashworthiness: A Review IN: Thermoset Composites: Preparation, Properties and Applications, Materials Research Forum LLC, volume 38, page 1-32.
22. MR Sanjay, KN Bharath, R Vijay, D Lenin Singaravelu, A Vinod, **M Jawaid**, Anish Khan (2018) Experimental and Analysis of Jute Fabric with Silk Fabric Reinforced Polymer Composites, IN: Thermoset Composites: Preparation, Properties and Applications, Materials Research Forum LLC, volume 38, page 66-80
23. AS Harmaen, MT Paridah, **M Jawaid**, AM Fariz (2018) Effect of Silica Aerogel on Polypropylene Reinforced with Kenaf Core Fiber for Interior Automotive Components-Chapter 5 IN: Kenaf Fibers and Composites, CRC Press, page 29.
24. R Yahaya, SM Sapuan, MR Ishak, Z Leman, **M Jawaid** (2018) Ballistic Properties of Hybrid Kenaf Composites-Chapter 9 IN: Kenaf Fibers and Composites, CRC Press, page 99.
25. Busra Rashid, Zulkifli Leman, Mohammad Jawaid, Mohamed Ridwan Ishak, Faris Oqla (2017) Eco-friendly Composites for Brake Pads from Agro waste- A Review, IN: Reference Module in Materials Science and Materials Engineering, Elsevier, USA, pp 1-21. Do i:10.1016/B978-0-12-803581-8.10159-6
26. N. Saba and **M. Jawaid** (2017) Recent Advances on nanocellulose based polymer nanocomposites-Chapter 6 IN: Cellulose-Reinforced Nanofibre Composites: Production, Properties and Applications, Woodhead Publishing-UK, **ISBN: 978-0-08-100957-4**
27. **Mohammad Jawaid**, Paridah Md Tahir, Naheed Saba (2017) Introduction to Biomass-Chapter 1 IN: Lignocellulosic Fibre and Biomass-based Composite Materials: Processing, Properties and Applications, Woodhead Publishing-UK, **ISBN: 978-0-08-100959-8**
28. N. Saba, **M. Jawaid**, M.T.H. Sultan (2017) Thermal properties of oil palm biomass based Composites-Chapter 6 IN: Lignocellulosic Fibre and Biomass-based Composite Materials: Processing, Properties and Applications, Woodhead Publishing-UK, **ISBN: 978-0-08-100959-8**

29. M. Asim, **M. Jawaid**, N. Saba, Ramengmawii, M. Nasir, M.T.H. Sultan (2017) Processing of Hybrid Polymer Composites: A Review- Chapter 1 IN: Hybrid Polymer Composite Materials: Processing, Woodhead Publishing-UK, **ISBN: 978-0-08-100789-1**
30. N. Saba and **M. Jawaid** (2017) Epoxy resin-based hybrid polymer composites- Chapter 10 IN: Hybrid Polymer Composite Materials: Properties and Characterization, Woodhead Publishing-UK, **ISBN: 978-0-08-100787-7**
31. A.M. Radzi, S.M. Sapuan, **M. Jawaid**, M.R. Mansor and A.M. Fairuz (2017) Polyurethane-Based Biocomposites: Review-Chapter 18 IN: Polyurethane Polymers: Composites and Nanocomposites, Woodhead Publishing-UK, **ISBN: 978-0-12-804065-2**.
32. N. Saba, **M. Jawaid**, M.T.H. Sultan, Othman Y. Alothman (2017) Hybrid multifunctional composites – Recent Applications-Chapter 5 IN: Hybrid Polymer Composite Materials Volume 4: Applications, Woodhead Publishing-UK, **ISBN: 978-0-08-100785-3**.
33. B.A. Ahmed Ali, S.M. Sapuan, **M. Jawaid**, M.L. Sanyang (2017) Expert material selection for manufacturing of green bio composites- Chapter 1 IN: Green Biocomposites: Manufacturing and Properties, Springer International Publication AG, Chem-Switzerland, 1-12, **ISBN: 978-3-319-46609-5**
34. Muhammed Lamin Sanyang, Naheed Saba, **Mohammad Jawaid**, Faruq Mohammad, Mohd Sapuan Salit (2017) Bacterial Nanocellulose Applications for Tissue Engineering-Chapter 3 IN: *Nanocellulose and Nanohydrogel Matrices: Biotechnological and Biomedical Applications*, First Edition. Edited by Mohammad Jawaid and Mohammad Faruq, Wiley-VCH Verlag GmbH & Co. KGaA. **ISBN: 978-3-527-34172-6**
35. Hamid Essabir, **Mohammad Jawaid**, Abou el kacem Qaiss, Rachid Bouhfid (2017) Chapter 11- Mechanical and thermal properties of polypropylene reinforced with Doum fiber: Impact of fibrillation IN: Green Biocomposites: Manufacturing and Properties, Springer International Publication AG, Chem-Switzerland, 255-270, **ISBN: 978-3-319-46609-5**
36. N. Saba, **M. Jawaid**, M.T.H. Sultan, O.Y. Alothman (2017) Green Biocomposites for Structural Applications-Chapter 1 IN: Green Biocomposites: Design and Applications, Springer International Publication AG, Chem-Switzerland, 1-28 **ISBN: 978-3-319-49382-4**
37. A.H. Bhat, Y.K. Dasan, Imran Khan, **M. Jawaid** (2017) Cellulosic biocomposites: Potential materials for future-Chapter 4 IN: Green Biocomposites: Design and Applications, Springer International Publication AG, Chem-Switzerland, 69-100 **ISBN: 978-3-319-49382-4**
38. Nurhanisah, N. Saba, **M. Jawaid**, M.T. Paridah (2017) Design of Prosthetic Leg Socket from Kenaf Fibre Based Composites-Chapter 6 IN: Green Biocomposites: Design and Applications, Springer International Publication AG, Chem-Switzerland, 127-142, **ISBN: 978-3-319-49382-4**
39. N. Saba, **M. Jawaid**, M. Asim (2016) Chapter 1- Recent Advances in Nanoclay/Natural Fibers Hybrid Composites IN: Nanoclay Reinforced Polymer Composites: Natural fibre/Nanoclay Hybrid composites (2016), Springer, Springer Science+Business Media Singapore. **ISBN: 978-981-10-0949-5, pp 1-28**.
40. N. Saba, M.T. Paridah, **M. Jawaid**, K. Abdan, N. A. Ibrahim (2015) Chapter 5-Manufacturing and Processing of Kenaf fiber reinforced epoxy composites via different methods IN: Manufacturing Process of Natural fibre reinforced polymer composites, Springer-Verlag, Switzerland. pp 101-124
41. N. Saba, M.T. Paridah, **M. Jawaid**, K. Abdan, N. A. Ibrahim (2015) Chapter 1- Potential utilization of kenaf biomass in different applications IN: Agricultural biomass based potential materials, Springer-Verlag, Switzerland. pp 1-34

42. Lukmanul Hakim Zaini, M.T. Paridah, **M. Jawaid**, Alothman Y. Othman, A.H. Juliana (2015) Chapter 13- Effect of kenaf cellulose whiskers on cellulose acetate butyrate nanocomposites, IN: Nanocellulose polymer nanocomposites: Fundamental to Applications, Scrivener Publishing LLC, pp 341-353.
43. H.P.S. Abdul Khalil, M. Siti Alwani, M. N. Islam, S. Siti Suhaily, R. Dungani, Y.M. H'ng, **M. Jawaid** (2015) Chapter 16- The use of bamboo fibres as reinforcements in composites, IN: Biofiber Reinforcements in Composite materials, Woodhead Publishing Ltd, USA, pp 488-524.
44. HPS Abdul Khalil, A. H. Bhat, A. Abu Bakar, M. T. Paridah, I.S.M. Zaidul, **M. Jawaid** (2015) Chapter 25- Cellulosic Nanocomposites from natural fibers for medical applications, IN Handbook of Polymer nanocomposites. Processing, Performance and Application Volume C: Polymer nanocomposites of Cellulose Nanoparticles: M/S Springer-Verlag GmbH, pp 477-511.
45. N. Saba, **M. Jawaid**, M.T. Paridah (2014) Chapter 15-Lignocellulosic materials as the potential source of catalyst IN Biomass and Bioenergy-Processing and Properties. Springer-Verlag, NY, USA, pp 247-274.
46. N. Saba, **M. Jawaid**, M.T. Paridah (2014) Chapter 18-Application of biomass derived catalyst IN Biomass and Bioenergy-Applications. Springer-Verlag, New York, USA, pp 369-397.
47. Faris M. AL-Oqla, Othman Y Alothman, **M. Jawaid**, S.M. Sapuan, M.H. Es-Saheb (2014) Chapter 1- Processing and Properties of Date palm fibers and its Composites IN Biomass and Bioenergy-Processing and Properties, Springer-Verlag, New York, USA, pp 1-25
48. M. Siti Alwani, H.P.S. Abdul Khalil, M. Asniza, S. Siti Suhaily, A.S. Nur Amiranajwa, **M. Jawaid** (2014) Chapter 5- Agricultural Biomass Raw Materials: The Current State and Future Potentialities IN Biomass and Bioenergy-Processing and Properties. Springer-Verlag, New York, USA, pp 77-100.
49. HPS Abdul Khalil, S. S. Suhaily, N. Othman, **M. Jawaid** (2013) Bamboo Based Biocomposites: As Potential Material for Design and Applications, IN: Material Science/Book, (ISBN 980-953-307-918-4). InTech Publication, Croatia.
50. A. Elroda, A.N. Ainuddin, **M. Jawaid** (2013) Chapter 3-Kenaf (*Hibiscus cannabinus* L.) as Climate Change Mitigator IN: climate change in tropical forest : impact and mitigation, UPM Press, Selangor.
51. H.P.S. Abdul Khalil, **M. Jawaid**, A. Hassan, M.T. Paridah and A. Zaidon (2012). Oil Palm Biomass Fibres and Recent Advancement in Oil Palm Biomass Fibres Based Hybrid Biocomposites, Composites and Their Applications, Ning Hu (Ed.), ISBN: 978-953-51-0706-4, InTech Publication, Czech

#### **International Publications (ISI Journal/Scopus)**

##### **2019**

1. Negawo, T.A., Polat, Y., Buyuknalçaci, F.N., Kilic, A., Saba, N. and **Jawaid, M.**, 2018. Mechanical, Morphological, Structural and Dynamic Mechanical Properties of Alkali Treated Ensete Stem Fibers Reinforced Unsaturated Polyester Composites. Composite Structures, 207, 589-597 (IF= 4.101) (Q1) **(Corresponding author)**
2. Siew Sand Chee, **Mohammad Jawaid**, M.T. H. Sultan, Othman Y Alothman, Luqman Chuah Abdullah (2019) Thermomechanical and dynamic mechanical properties of bamboo/woven kenaf mat reinforced epoxy hybrid composites, Composites Part B, 163, 165-174 (IF=4.920) (Q1) **(Corresponding author)**
3. L.K. Kian, N.Saba, **M. Jawaid**, M.T.H.Sultan (2018) A review on processing techniques of bast fibers nanocellulose and its polylactic acid (PLA) nanocomposites, International Journal of Biological Macromolecules, 121, 1314-1328 (IF=3.909) (Q1) **(Corresponding author)**

4. K. Senthilkumar, N. Saba, M. Chandrasekar, **M. Jawaid**, N. Rajini, Othman Y Alotman, Suchart Siengchin (2018) Evaluation of mechanical and free vibration properties of the pineapple leaf fibre reinforced polyester composites, *Constructions and building materials*, 195, 423-431 (IF=3.485) (Q1) **(Corresponding author)**
5. R. Vijay, D. Lenin Singaravelu, A. Vinod, M.R. Sanjay, Suchart Siengchin, **Mohammad Jawaid**, Anish Khan, Jyotishkumar Parameswaranpillai (2019) Characterization of raw and alkali treated new natural cellulosic fibers from *Tridax procumbens*, *International Journal of Biological Macromolecules*, 125, 99-108 (IF=3.909) (Q1) **(Corresponding author)**
6. Sanjay M.R, Suchart Siengchin, Jyotishkumar Parameswaranpillai, **Mohammad Jawaid**, Catalin Iulian Pruncu, Anish Khan (2019) A comprehensive review of techniques for natural fibers as reinforcement in composites: Preparation, processing and characterization, *Carbohydrate polymers*, 207, 108-121 (IF=5.158) (Q1) **(Corresponding author)**
7. Nor Azlina Ramlee, **Mohammad Jawaid**, Edi Syams Zainudin, Shaikh Abdul Karim Yamani (2019) Modification of Oil Palm Empty Fruit Bunch and Sugarcane Bagasse Biomass as Potential Reinforcement for Composites Panel and Thermal Insulation Materials, *Journal of Bionic Engineering*, 16 (IF=2.325) (Q1) **(Corresponding author)**
8. N. Saba, Othman Y. Alotman, Zeyad Almutairi, **M. Jawaid** (2019) Magnesium hydroxide reinforced kenaf fibers/epoxy hybrid composites: Mechanical and thermomechanical properties, *Constructions and building materials*, 201, 138-148 (IF=3.485) (Q1) **(Corresponding author)**
9. Ahmad Safwan, Mohammad Jawaid, Mohamed T. H. Sultan, and Azman Hassan (2019) Physical and Mechanical Properties of Woven Kenaf/Bamboo Fiber Mat Reinforced Epoxy Hybrid Composites, *BioResources*, 14 (1), 1390-1404 (IF=1.202) (Q2) **(Corresponding author)**
10. P. Manimaran, S. P. Saravanan, Sanjay M. R, Suchart Siengchin, **Mohammad Jawaid**, Anish Khan (2019) Characterization of New cellulosic fiber: *Dracaena reflexa* as a reinforcement for polymer composite structures, *Journal of Materials Research and Technology* (Accepted) (IF=3.398) (Q1) **(Corresponding author)**
11. P. Senthamarakannana, S. S. Saravanakumara, M. R. Sanjay, **Mohammad Jawaid**, and Suchart Siengchin (2019) Physico-Chemical and Thermal Properties of Untreated and Treated *Acacia planifrons* Bark Fibers for Composite Reinforcement, *Material Letters* (Accepted) (IF=2.687) (Q1) **(Corresponding author)**
12. Ariff Farhan Mohd Nor, Mohamed Thariq Hameed Sultan, **Mohammad Jawaid**, Ahmad Mustafa Rayney Azmi, Ain Umaira Md Shah (2019) Analysing impact properties of CNT filled bamboo/glass hybrid nanocomposites through drop-weight impact testing, UWPI and compression-after-impact behaviour, *Composites Part B*, 168, 166-174 (IF=4.920) (Q1)
13. A. M. R. Azmi, M. T. H. Sultan, **M. Jawaid**, A. U. M. Shah, A. F. M. Nor, M. S. A. Majid, S. Muhamad, A. R. A. Talib (2019) Impact Properties of Kenaf Fiber/X-ray Films Hybrid Composites for Structural Applications, *Journal of Materials Research and Technology* (Accepted) (IF=3.398) (Q1)
14. K.I. Ismail, M.T.H. Sultan, A.U.M. Shaha, **M. Jawaid**, S.N.A Safria (2019) Low velocity impact and compression after impact properties of hybrid bio-composites modified with multi-walled carbon nanotubes (Accepted) *Composites Part B*, 168, 166-174 (IF=4.920) (Q1)
15. Tamer Hamouda, Ahmed H. Hassanin, Naheed Saba, Mustafa Demirelli, Ali Kilic, **Zeki Candan**, **Mohammad Jawaid** (2019) Evaluation of Mechanical and Physical properties of Hybrid Composites from Food Packaging and Textiles Wastes, *Journal of Polymers and The Environment* (Accepted) (IF=1.877) (Q2) **(Corresponding author)**

16. Ain Umaira Md Shah, Mohamed Thariq Hameed Sultan, **Mohammad Jawaid** (2018) Sandwich-structured Bamboo Powder/Glass Fibre Reinforced Epoxy Hybrid Composites–Mechanical Performance in Static and Dynamic Evaluations, *Journal of Sandwich Structures and Materials* (Online Available) (IF=2.776) (Q1) DOI: 10.1177/1099636218822740

## 2018

17. Ramengmawii Siakeng, **Mohammad Jawaid**, Hidayah Ariffin, S. M. Sapuan, Mohammad Asim, Naheed Saba (2018) Natural fiber reinforced polylactic acid composites: A review, *Polymer Composites* (Online Available) DOI: 10.1002/pc.24747(IF= 1.943) (Q2) (**Corresponding author**)
18. A. Atiqah, **M. Jawaid**, S. M. Sapuan, M. R. Ishak (2018) Physical and Mechanical Properties of Sugar Palm/Glass Fiber Reinforced Thermoplastic Polyurethane Hybrid Composites, *Journal of Materials Research and Technology* (Online Available) (IF=3.398) (Q1) (**Corresponding author**)
19. Afdzaluddin Atiqah, **Mohammad Jawaid**, Mohamad Ridzwan Ishak, and Mohd Sapuan Salit (2018) Dynamic Mechanical Properties of Treated Sugar Palm/Glass Fiber Reinforced Thermoplastic Polyurethane Hybrid Composites, *Polymer Composites* (Online Available) DOI: 10.1002/pc.24860 (IF= 1.943) (Q2) (**Corresponding author**)
20. P. Manimaran, M. R. Sanjay, P. SenthamaraiKannan, **Mohammad Jawaid**, S. S. Saravanakumar, and Raji George (2018) Synthesis and characterization of cellulosic fiber from red banana peduncle as reinforcement for potential applications, *Journal of Natural fibres* (Online Available) doi.org/10.1080/15440478.2018.1434851(IF=1.076)(Q2)
21. KN Bharath, MR Sanjay, **Mohammad Jawaid**, Harisha, S Basavarajappa, Suchart Siengchin (2018) Effect of Stacking Sequence on properties of Coconut Leaf Sheath/Jute/E-Glass Reinforced Phenol Formaldehyde Hybrid Composites, *Journal of Industrial Textiles* (Online Available) https://doi.org/10.1177/1528083718769926 (IF=1.283) (Q1)
22. SenthamaraiKannan P, Sanjay M R, M. R. Bhat, K.S. Padmaraj, **Mohammad Jawaid** (2018) Characterization of natural cellulosic fiber from bark of Albizia amara, *Journal of Natural fibres* (Online Available) (IF=1.076)(Q2) DOI: 10.1080/15440478.2018.1453432
23. F. Hanan, **M. Jawaid**, and M.T. Paridah (2018) Mechanical performance of oil palm/kenaf fiber-reinforced epoxy-based bilayer hybrid composites, *Journal of Natural fibres* (Online Available) (IF=1.076) (Q2) DOI: 10.1080/15440478.2018.1477083(**Corresponding author**)
24. Nurhanisah Mohd Hawari, **Mohammad Jawaid**, Raja Azmeer, Paridah Md Tahir (2018) The Aircirc: Design and Development of a Thermal Management Prototype Device for Below-Knee Prosthesis Leg Socket, *Disability and Rehabilitation: Assistive Technology* (Online Available) (Scopus Index) DOI: 10.1080/17483107.2018.1479782(**Corresponding author**)
25. Ramengmawii Siakeng, **Mohammad Jawaid**, Hidayah Ariffin, S. M. Sapuan (2018) Mechanical, dynamic and thermomechanical properties of coir/pineapple leaf fibre reinforced polylactic acid hybrid biocomposites, *Polymer Composites* (Online Available) (IF= 2.004) (Q2) (**Corresponding author**)
26. M.H. Gheith, M. Abdel Aziz, **M. Jawaid**, W. Ghori, N. Saba, M. Asim (2018) Effect of date palm fibre on Flexural, thermal and dynamic mechanical analysis of epoxy composites, *Journal of Materials Research & Technology* (Online Available) (IF=3.398) (Q1) (**Corresponding author**)
27. Naveen J, **M. Jawaid**, E.S. Zainudin, Mohamed T. H. Sultan, R. Yahaya (2018) Mechanical and moisture diffusion behaviour of hybrid kevlar/ cocos nucifera sheath reinforced epoxy composites, *Journal of Materials Research & Technology* (Online Available) (IF=3.398) (Q1) (**Corresponding author**)



28. P Madhu, Sanjay M R, P Sentharamaikannan, S. Pradeep, S Siengchin, M Jawaid, M Kathiresan (2018) Effect of Various Chemical Treatments of *Prosopis Juliflora* (PJ) Fibers as Composite Reinforcement: Physico-Chemical, Thermal, Mechanical and Morphological Properties, Journal of Natural fibres (Online Available) (IF=0.582) (Q2)
29. Naheed Saba, **Mohammad Jawaid**, Othman Y. Alothman, Z. Almutiari (2018) Evaluation of dynamic properties of nano oil palm empty fruit bunch filler/epoxy composites, Journal of Materials Research & Technology (Online Available) (IF=3.398) (Q1) **(Corresponding author)**
30. Naveen J, **M. Jawaid**, E.S. Zainudin, Mohamed T. H. Sultan, R. Yahaya (2018) Evaluation of ballistic performance of hybrid Kevlar<sup>®</sup>/Cocos nucifera sheath reinforced epoxy composites, Journal of The Textile institute (Online Available) (IF1.174) (Q1) **(Corresponding author)** DOI: 10.1080/00405000.2018.1548801
31. Syafiqah Nur Azrie Safri, Mohamed Thariq Hameed Sultan, **Mohammad Jawaid**, Kandasamy Jayakrishna (2018) Impact behaviour of hybrid composites for structural applications: A review, Composites Part B, 133, 112-121 (IF=4.920) (Q1)
32. P. Manimaran, P. Sentharamaikannan, M.R. Sanjay, M.K. Marichelvam, **Mohammad Jawaid** (2018) Study on characterization of *Furcraea foetida* new natural fiber as composite reinforcement for lightweight applications, Carbohydrate polymers, 181, 650-658 (IF=5.158) (Q1) **(Corresponding author)**
33. M. R. Sanjay, P. Madhu, **Mohammad Jawaid**, P. Sentharamaikannan, S.Senthil, S.Pradeep (2018) Characterization and Properties of Natural Fiber Polymer Composites: A Comprehensive Review, Journal of cleaner Production, 72, 566-581 (IF=5.651) (Q1) **(Corresponding author)**
34. A. Atiqah, **M. Jawaid**, M. R. Ishak, S. M. Sapuan (2018) Effect of alkali and silane treatments on mechanical and interfacial bonding strength of sugar palm fibres with thermoplastic polyurethane, Journal of natural Fibers, 15(2), 251-261(IF=1.076) (Q2) **(Corresponding author)**
35. P. Sivaranjana, E. Nagarajan, N. Rajini, **M. Jawaid**, A.Varada Rajulu (2017) Formulation and characterization of in situ generated copper nanoparticles reinforced cellulose composite films for potential antimicrobial applications, Journal of Macromolecules-Pure Science and Chemistry, 55(1), 58-65 (IF=1.057) (Q3)
36. A.M. Radzi, S.M. Sapuan, **M Jawaid**, M.R. Mansor (2018) Mechanical and thermal performances of roselle fibre reinforced thermoplastic polyurethane composites, Polymer-Plastics Technology and Engineering, 57(7), 601-608 (IF=1.232) (Q3)
37. N. Nadlene, S. M. Sapaun, **M. Jawaid**, M. Rizdwan, Y. Iazim (2018) The effects of treatment on the structural and thermal, physical and mechanical and morphological properties of roselle fiber-reinforced vinyl ester composites, Polymer Composites, 39(1), 274-287(IF= 2.004) (Q2)
38. Afdzaluddin Atiqah, **Mohammad Jawaid**, Mohamad Ridzwan Ishak, and Mohd Sapuan Salit (2018) Effect of Surface Treatment on the Mechanical Properties of Sugar Palm/Glass Fiber-reinforced Thermoplastic Polyurethane Hybrid Composites, Bioresources, 13 (1), 1174-1188(IF=1.202) (Q2) **(Corresponding author)**
39. T. Senthil Muthu Kumar, N. Rajini, **M. Jawaid**, A. Varada Rajulu, and J.T. Winowlin Jappesa (2018) Preparation and Properties of Cellulose/Tamarind Nut Powder Green Composites: (Green composite using agricultural waste reinforcement), Journal of Natural Fibers, 15(1),11-20 (IF=1.076)(Q2)
40. I Mohammed, A R Abu Talib, M T Hameed Sultan, **M. Jawaid**, A.A. Hamdan and S Saadon (2018) Mechanical properties of Fibre-Metal Laminates made of Natural/Synthetic Fibre Composites, BioResources, 13(1), 2022-2034(IF=1.334) (Q2)

41. Naheed Saba, **Mohammad Jawaid**, Md. Tahir Paridah, and Othman Y. Alotman (2018) Thermal and Flame Retardancy Behavior of Oil Palm Based Epoxy Nanocomposites, *Journal of Polymers and The Environment*, 26(5), 1844-1853 (IF=1.971) (Q2) **(Corresponding author)**
42. M.Asim, **M. Jawaid**, K. Abdan, M.R. Ishak, O.Y. Alotman (2018) Effect of Hybridization on the Mechanical Properties of Pineapple Leaf Fibre/Kenaf Phenolic Hybrid Composites, *Journal of Renewable Materials*, 6(1), 38-46 (IF=0.986) (Q3) **(Corresponding author)**
43. Lau Kia Kian, **Mohammad Jawaid**, Hidayah Ariffin, Zoheb Karim (2018) Isolation and Characterization of Nanocrystalline Cellulose from Roselle-derived Microcrystalline Cellulose, *International Journal of Biological Macromolecules*, 114, 54-63 (IF=3.138) (Q1) **(Corresponding author)**
44. Mohammad Asad, Naheed Saba, Abdullah M. Asiri, **M. Jawaid**, Eti Indarti, W.D. Wanrosli (2018) Preparation and characterization of nanocomposite films from oil palm pulp nanocellulose/poly (Vinyl alcohol) by casting method, *Carbohydrate polymers*, 191, 103-111 (IF=5.158) (Q1) **(Corresponding author)**
45. M. Asim, **M. Jawaid**, K. Abdan, M.R. Ishak (2017) The effect of silane treated fibre loading on mechanical properties of pineapple leaf/kenaf fibre filler phenolic composites, *Journal of Polymers and The Environment*, 26(4), 1520-1527 (IF=1.877) (Q2) **(Corresponding author)**
46. Ridhwan Jumaidin, Salit Mohd Sapuan, **Mohammad Jawaid**, Mohamad Ridzwan Ishak, and Japar Sahari (2018), Seaweeds As Renewable Sources For Biopolymers And Its Composites: A Review, *Current Analytical Chemistry*, 14(3), 249-267 (IF=1.000) (Q4)
47. Mohd Asim, Naheed Saba, **Mohammad Jawaid**, Mohammad Nasir, M. Pervaiz, Othman Y. Alotman (2018) A review on Phenolic resin and its Composites, *Current Analytical Chemistry*, 14(3), 185-197 (IF=1.000) (Q4) **(Corresponding author)**
48. R. Yahaya, S.M. Sapuan, **M. Jawaid**, Z. Leman and E.S. Zainudin (2018), Review of Kenaf Reinforced Hybrid Biocomposites: Potential for Defence Applications, *Current Analytical Chemistry*, 14(3), 226-240 (IF=1.000) (Q4)
49. A.F. Edhirej, S.M. Sapuan, **M. Jawaid**, Z. N. Ismarrubie (2018) Preparation and characterization of Cassava starch/peel composite film, *Polymer Composites*, 39(5), 1704-1715 (IF= 2.004) (Q2) DOI: 10.1002/pc.24121
50. Ariff F. M. Nor, Mohamed T. H. Sultan, **Mohammad Jawaid**, Abd R. Abu Talib, Ahmad M. R. Azmi, Ahmad S. Harmaen, and Ainun Z. M. Asa'ari (2018) The Effects of Multi-walled CNT in Bamboo/Glass Fibre Hybrid Composites: Tensile and Flexural Properties, *BioResources*, 13(2), 4404-4415. (IF=1.334) (Q2)
51. F. Agrebi, N. Ghorbel, B. Rashid, A. Kallel, **M. Jawaid** (2018) Influence of treatments on the dielectric properties of sugar palm fiber reinforced phenolic composites, *Journal of Molecular Liquids*, 263, 342-348 (IF=4.513) (Q1) **(Corresponding author)**
52. K. Senthilkumar, N. Saba, N. Rajini, M. Chandrasekar, **M. Jawaid**, Suchart Siengchin, Othman Y Alotman (2018) Mechanical Properties Evaluation of Sisal Fibre Reinforced Polymer Composites: A Review, *Construction and building materials*, 174, 713-729 (IF=3.485) (Q1) **(Corresponding author)**
53. Afdzaluddin Atiqah, **Mohammad Jawaid**, S.M. Sapuan, M.R. Ishak, and Othman Y Alotman (2018) Thermal properties of sugar palm/glass fiber reinforced thermoplastic polyurethane hybrid composites, *Composite Structures*, 202, 954-958 (IF= 4.101) (Q1) **(Corresponding author)**
54. Mohd Asim, M.T. Paridah, Naheed Saba, **Mohammad Jawaid**, Othman Y. Alotman, M. Nasir, Z. Almutiari (2018) Thermal, physical properties and flammability of silane treated kenaf/pineapple leaf fibres phenolic hybrid composites, *Composite Structures*, 202, 1330-1338 (IF=3.858) (Q1) **(Corresponding author)**

55. Safri, Syafiqah NA, Mohamed TH Sultan, Naheed Saba, and **Mohammad Jawaid** (2018). Effect of benzoyl treatment on flexural and compressive properties of sugar palm/glass fibres/epoxy hybrid composites. *Polymer Testing*, 71, 362-369 (IF=2.247) (Q2)
56. M Chandrasekar, MR Ishak, Z Leman, S.M. Sapuan, **M Jawaid**, Jesu Naveen (2018) Mechanical properties of a Novel Fibre Metal Laminate Reinforced with the Carbon, Flax and Sugar palm Fibres, *BioResources*, 13(3), 5725-5739 (IF=1.334) (Q2)
57. Mohamed Alkateb, S.M. Sapuan, Z. Leman, **Mohammad Jawaid**, M.R.Ishak (2018)Crushing behavior of kenaf fiber/wooden stick reinforced epoxy hybrid "green" composite elliptical tubes, *Polimery/Polymers*, 63(6),436-443. IF=0.778 (Q4)
58. N. Saba and **M. Jawaid** (2018) A Review on Thermomechanical Properties of Polymers and Fibers Reinforced Polymer Composites, *Journal of Industrial and Engineering Chemistry* 67, 1-11 (IF=4.841) (Q1) (**Corresponding author**)
59. Reza Arjmandi, Harintharavimal Balakrishnan, Azman Hassan, **Mohammad Jawaid**, and Alothman Y. Othman (2018) Enhanced Flame Retardancy, Thermal and Mechanical Properties of Hybrid Magnesium Hydroxide/Montmorillonite Reinforced Polyamide 6/Polypropylene Nanocomposites, *Fibers and Polymers*,19(4), 914-926 (IF=1351) (Q1)
60. Mohamed Alkateb, S.M. Sapuan, Z. Leman, M. R. Ishak, **Mohammad Jawaid** (2018) Vertex angles effects in the energy absorption of axially crushed kenaf fibre-epoxy reinforced elliptical composite cones, *Defence Technology*, 14(4), 327-335 (Scopus Index)
61. M. Asim, **M. Jawaid**, M. Nasir, N. Saba (2018) Effect of fibre loadings and treatment on Dynamic Mechanical analysis, thermal and flammability of pineapple leaf fibre and kenaf Phenolic composites, *Journal of Renewable Materials*, 6(4), 383-393 (IF=0.986) (Q3) (**Corresponding author**)
62. Sharoul Jambari, Mohd Yazid Yahya, Mohamad Roslan Abdullah, **M. Jawaid** (2018) Fabrication and Characterization of Hybrid Yarn/Fabrics from Kenaf-Kevlar fibers, *Journal of Mechanical Engineering*, SI 5(4), 256-267 (Scopus Index)
63. Azmi, A.M.R., Sultan, M.T.H., **Jawaid, M.**, Talib, A.R.A. and Nor, A.F.M., 2018. Tensile and Flexural Properties of a Newly Developed Bulletproof Vest Using a Kenaf/X-ray Film Hybrid Composite. *BioResources*, 13(2), pp.4416-4427. (IF=1.334) (Q2)
64. Amir, S.M.M., Sultan, M.T.H., **Jawaid, M.**, Ariffin, A.H., Ishak, M.R., Yusof, M.R., Mohd, S. and Salleh, K.A.M., 2018. Effect of Gamma Radiation on Compressive Properties of Kevlar/Oil Palm Empty Fruit Bunch Hybrid Composites. *BioResources*, 13(4), pp.7628-7639. (IF=1.334) (Q2)
65. Naveen J, **M. Jawaid**, E.S. Zainudin, Mohamed T. H. Sultan, R. Yahaya (2018) Selection of Natural fiber for hybrid Kevlar/Natural fiber reinforced polymer composites for personal body armour application by using analytical hierarchy process, *Frontiers in Materials*, 5, 52 (IF=2.008) (Q3) (**Corresponding author**)
66. R. S. Ayu, A. Khalina, A. S. Harmaen, K. Zaman, **M. Jawaid**, C. H. Lee (2018) Effect of modified tapioca starch on mechanical, thermal and morphological properties of PBS blends for food packaging, *Polymers*, 10, 1187 (IF=2.935) (Q1)
67. R Siakeng, **M Jawaid**, H Ariffin and S M Sapuan (2018) Effects of Surface Treatments on Tensile, Thermal and Fibre-matrix Bond strength of Coir and Pineapple Leaf Fibres with Poly Lactic Acid, *Journal of Bionic Engineering*, 15(6), 1035-1046 (IF=2.325) (Q1) (**Corresponding author**)
68. R Siakeng, **M Jawaid**, H Ariffin and S M Sapuan (2018) Physical properties of coir and pineapple leaf fibre reinforced polylactic acid hybrid composites, *IOP Conf. Series: Materials Science and Engineering* 290 (Scopus Index)

69. M Asim, **M. Jawaid**, K Abdan and M Nasir (2018) Effect of Alkali treatments on physical and Mechanical strength of Pineapple leaf fibres, IOP Conf. Series: Materials Science and Engineering 290 (2018) 012030 doi:10.1088/1757-899X/290/1/012030(Scopus Index)
70. M. Asim, M.T. Paridah, **M. Jawaid**, M. Nasir, and N. Saba (2018) Physical and flammability properties of kenaf and pineapple leaf fibre hybrid composites, IOP Conf. Series: Materials Science and Engineering **368** (2018) 012018 doi:10.1088/1757-899X/368/1/012018(Scopus Index)
71. S I Faris, Z M A Ainun, and **M Jawaid** (2018) Effect of microcrystalline cellulose on the strength of oil palm empty fruit bunch paper, IOP Conf. Series: Materials Science and Engineering 368 (2018) 012042 doi:10.1088/1757-899X/368/1/012042(Scopus Index) **(Corresponding author)**
72. A. Atiqah, **M. Jawaid**, S. M. Sapuan, M. R. Ishak (2018) Physical properties of silane-treated sugar palm fiber reinforced thermoplastic polyurethane composites, IOP Conf. Series: Materials Science and Engineering **368** (2018) 012047 doi:10.1088/1757-899X/368/1/012047(Scopus Index) **(Corresponding author)**
73. S I Faris, Z M A Ainun, and **M Jawaid** (2018) Effect of microcrystalline cellulose on the strength of oil palm empty fruit bunch paper, IOP Conf. Series: Materials Science and Engineering 368 (2018) 012042 doi:10.1088/1757-899X/368/1/012042(Scopus Index) **(Corresponding author)**
74. W Ghori, N Saba, **M Jawaid** and M Asim (2018) A review on date palm (phoenix dactylifera) fibers and its polymer composites, IOP Conf. Series: Materials Science and Engineering 368 (2018) 012009 doi:10.1088/1757-899X/368/1/012009(Scopus Index)
75. F. Hanan, **M. Jawaid**, M.T. Paridah (2018) Oil Palm EFB/Kenaf Fibre Reinforced Epoxy Hybrid Composites: Dimension Stability Behaviours, IOP Conf. Series: Materials Science and Engineering 368 (2018) 012024 doi:10.1088/1757-899X/368/1/012024(Scopus Index) **(Corresponding author)**
76. R Siakeng, **M Jawaid**, H Ariffin and S M Sapuan (2018) Thermal properties of coir and pineapple leaf fibre reinforced polylactic acid hybrid composites, IOP Conf. Series: Materials Science and Engineering 368 (2018) 012019 doi:10.1088/1757-899X/368/1/012019(Scopus Index)
77. M Y Nur Aqeela, Z M A Ainun, and **M Jawaid** (2018) Effect of pretreatment concentration on pulp blending between oil palm empty fruit bunch and citronella leaf fibers in terms of pulp and paper properties, IOP Conf. Series: Materials Science and Engineering 368 (2018) 012010 doi:10.1088/1757-899X/368/1/012010(Scopus Index) **(Corresponding author)**
78. M H Nurhanisah, F Hashemi, M T Paridah, **M Jawaid**, J Naveen (2018) Mechanical properties of laminated kenaf woven fabric composites for below-knee prosthesis socket application, IOP Conf. Series: Materials Science and Engineering 368 (2018) 012050 doi:10.1088/1757-899X/368/1/012050(Scopus Index) **(Corresponding author)**
79. M Nuzaimah, S M Sapuan, R Nadlene and **M Jawaid** (2018) Recycling of waste rubber as fillers: A review, IOP Conf. Series: Materials Science and Engineering 368 (2018) 012016 doi:10.1088/1757-899X/368/1/012016(Scopus Index)
80. Ahmad Safwan, Mohammad Jawaid, Mohamed T. H. Sultan, and Azman Hassan (2018) Preliminary Study on Tensile and Impact Properties of Kenaf/Bamboo Fiber Reinforced Epoxy Composites, Journal of Renewable Materials, 6(5), 529-535 (IF=0.812) (Q3) **(Corresponding author)**
81. Afdzaluddin Atiqah, **Mohammad Jawaid**, Mohamad Ridzwan Ishak, and Mohd Sapuan Salit (2017) Mechanical and Thermal Properties of Sugar Palm Fiber Reinforced Thermoplastic Polyurethane Composites: Effect of Silane Treatment and Fiber Loading, Journal of Renewable Materials, 6(5), 477-494 (IF=0.812) (Q3) **(Corresponding author)**

**2017**

82. N. Saba, F. Mohammad, M. Pervaiz, **M. Jawaid**, O.Y. Alothman, M. Sain(2017) Mechanical, morphological and structural properties of cellulose nanofibers reinforced epoxy composites, *International Journal of Biological Macromolecules*, 97, 190-200. (IF=3.671) (Q1) **(Corresponding author)**
83. Ridhwan Jumaidan, **Mohammad Jawaid**, Mohammad Ridzwan Ishak, Sahari Japar (2017) Characteristics of *Eucheuma cottonii* waste from East Malaysia: Physical, Thermal, and Chemical composition, *European Journal of Phycology*, 52(2), 200–207 (IF=2.205) (Q1)
84. B. Rashid, Z. Leman, **M. Jawaid**, M.J. Ghazali, M.R. Ishak (2017) Effect of Treatments on the Physical and Morphological Properties of SPF/ Phenolic Composites, *Journal of Natural Fibers*, 14 (5), 645-657 (IF=0.582) (Q2)
85. N. Saba, **M. Jawaid**, O. Y. Alothman (2017) An overview on polylactic acid, its cellulosic composite and applications, *Current organic synthesis*, 14(2) 156-170(IF=2.050) (Q3) **(Corresponding author)**
86. Ridhwan Jumaidan, S.M. Sapuan, **Mohammad Jawaid**, Mohammad Ridzwan Ishak, Sahari Japar (2017) Effect of Agar on Flexural, Impact and Thermogravimetric Properties of Thermoplastic Sugar Palm Starch, *Current Organic Synthesis*, 14(2), 200-205 (IF=2.050) (Q3)
87. Atiqah, M.T. Mastura, B.A. Ahmed Ali, **M. Jawaid**, S.M. Sapuan (2017) A Review on Polyurethane and its polymer composites, *Current Organic Synthesis*, 14(2), 233-248 (IF=2.050) (Q3) **(Corresponding author)**
88. Muhammad Pervaiz, Mohammad Faruq, **Mohammad Jawaid**, Mohini Sain (2017) Polyamides: Developments and Applications towards Next-generation Engineered Plastics, *Current Organic Synthesis*, 14(2), 146-155 (IF=2.050) (Q3)
89. A.F. Edhirej, S.M. Sapuan, **M. Jawaid**, Z. N. Ismarrubie (2017) Preparing and characterization of Cassava bagasse reinforced thermoplastic cassava starch, *Fibers and Polymers*, 18(1), 162-171 (IF=1.0220) (Q1)
90. M. Inuwa, Azman Hassan, S. A. Samsudin, M.K. Mohamad Haafiz, **Mohammad Jawaid** (2017) Interface modification of compatibilized polyethylene terephthalate/polypropylene blends: Effect of compatibilization on thermomechanical properties and thermal stability, *Journal of Vinyl and Additive Technology*, 23(1),45-54 (IF=1.219) (Q1)
91. Nurhanisah Mohd Hawari, **Mohammad Jawaid**, Paridah Md Tahir (2017) Cases Study: Satisfaction and Quality on Prostheses Design among Below-Knee Prosthetic Leg Socket Users, *Disability and Rehabilitation: Assistive Technology*, 12 (8), 868-874(Scopus Index) **(Corresponding author)**
92. Bushra Rashid, Zulkiflle Leman, **Mohammad Jawaid**, Mariyam Jameelah Ghazali, Mohamad Ridzwan Ishak (2017) Dry Sliding Wear Behavior of Untreated and Treated Sugar Palm Fiber Filled Phenolic Composites using Factorial Technique, *Wear* 380-381 (2017) 26–35 (IF=2.323) (Q1)
93. A.F. Edhirej, S.M. Sapuan, **M. Jawaid**, Z. N. Ismarrubie (2017) Effect of various plasticizers and concentration on physical, thermal, mechanical and structural properties of cassava starch based films, *Starch/Staerke*, 69(1-2), Article No: 1500366- (IF=1.677) (Q2).
94. Md Shah, A. U., Sultan, M. T. H., Cardona, F., **Jawaid, M.**, Abu Talib, A. R., and Yidris, N. (2017). "Thermal analysis of bamboo fibre and its composites, *BioResources*. 12(2), 2394-2406(IF=1.334) (Q2)
95. Ridhwan Jumaidan, S.M. Sapuan, **Mohammad Jawaid**, Mohammad Ridzwan Ishak, Sahari Japar (2017) Thermal, mechanical, and physical properties of seaweed/sugar palm fibre reinforced thermoplastic sugar palm starch/agar hybrid composites, *International Journal of Biological Macromolecules*, 97, 606-615 (IF=3.138) (Q1)

96. L. Muthulakshmi, Rajini Nagarajan, H. Nellaiah, T. Kathiresan, **Mohammad Jawaid**, A. Varada Rajalu (2017) Preparation and properties of cellulose nanocomposite films with in situ generated copper nanoparticles using Terminalia catappa leaf extract, International Journal of Biological Macromolecules, 95, 1064-1071 (IF=3.138) (Q1) **(Corresponding author)**
97. M Chandrasekar, MR Ishak, **M Jawaid**, Z Leman, S.M. Sapuan (2017) An experimental review on the mechanical properties and hygrothermal behaviour of fibre metal laminates, Journal of Reinforced Plastics and Composites, 36(1), 72-82 (IF=0.901) (Q3)
98. Ridhwan Jumaidan, S.M. Sapuan, **Mohammad Jawaid**, Mohammad Ridzwan Ishak, Sahari Japar (2017) Effect of Seaweed on Mechanical, Thermal, and Biodegradation Properties of Thermoplastic Sugar Palm Starch/Agar Composites, International Journal of Biological Macromolecules, 99, 265-273(IF=3.138) (Q1)
99. P Sivaranjana, ER Nagarajan, N Rajini, **M Jawaid**, A Varada Rajulu (2017) Cellulose nanocomposite films with *in situ* generated silver nanoparticles using *Cassia alata* leaf extract as a reducing agent, International Journal of Biological Macromolecules, 99, 223-232(IF=3.138) (Q1)
100. Bushra Rashid, Zulkiflle Leman, Mohammad Jawaid, Mariyam Jameelah Ghazali, Mohamad Ridzwan Ishak (2017) Influence of Treatments on the Mechanical and Thermal Properties of Sugar Palm Fibre Reinforced Phenolic Composites, *BioResources*. 12(1), 1447-1462 (IF=1.334) (Q1)
101. N. Saba, **M. Jawaid**, O. Y. Alothman, M. Inuwa, Azman Hassan (2017) A review on potential development of flame retardant kenaf fibers reinforced polymer composites, Polymers for advanced technologies, 28(4), 424-434 (IF=1.823) (Q2) **(Corresponding author)**
102. Bushra Rashid, Zulkiflle Leman, **Mohammad Jawaid**, Mariyam Jameelah Ghazali, Mohamad Ridzwan Ishak (2017) Dynamic Mechanical Analysis of Treated and Untreated Sugar Palm Fibre-based Phenolic Composites, *BioResources*, 12(2), 3448-3462 (IF=1.334) (Q1)
103. Ahmed Edhirej, S.M. Sapuan, **Mohammad Jawaid**, Nur Ismarrubie Zahari (2017) Cassava/sugar palm fiber reinforced cassava starch hybrid composites: physical, thermal and structural properties, International Journal of Biological Macromolecules, 101, 75-83 (IF=3.138) (Q1)
104. Mohammed Nasir, Arun Gupta, Othman Sulaiman, Rokiah Hashim, **Mohammad Jawaid**, Tanveer A Khan, Mohd Asim (2017) Natural fiber improvement by laccase; optimization, characterization and application in medium density fiberboard, Journal of natural fibre, 14(3), 379-389 (IF=0.582) (Q2)
105. N. Saba, Safwan Ahmed, M.L. Sanyang, F. Mohammad, M. Pervaiz, **M. Jawaid**, O.Y. Alothman, M. Sain (2017) Thermal and Dynamic mechanical properties of Cellulose Nanofibers Reinforced Epoxy Composites, International Journal of Biological Macromolecules, 107, 822-828 (IF=3.138) (Q1) **(Corresponding author)**
106. N Hassan, NH Hamid, M Jawaid, PM Tahir, S Ujang (2017) Decay Resistance of Acetic, Propionic, and Butyric Anhydrides Modified Rubberwood Against Brown Rot (*Coniophora puteana*), *BioResources*, 12(3), 4527-4546. (IF=1.334) (Q2)
107. A. Atiqah, **M. Jawaid**, M. R. Ishak, S. M. Sapuan (2017) Moisture Absorption and Thickness Swelling Behaviour of Sugar Palm Fibre Reinforced Thermoplastic Polyurethane, *Procedia Engineering* 184, 581 – 586 (Scopus Index) **(Corresponding author)**
108. Sharoul Jambari, Muhamad Yazid Yahya, Mohamed Ruslan Abdullah, and **Mohammad Jawaid** (2017) Woven Kenaf/Kevlar Hybrid Yarn as Potential Fiber Reinforced for Anti-Ballistic Composite Material, *Fibers and Polymers*, 18(3), 563-568 (IF=1.022) (Q1)
109. Munir Ozturk, N. Saba, Volkan Altay, Rizwan Iqbal, Khalid Rehman Hakeem, **M. Jawaid**, Faridah Hanum Ibrahim (2017) Biomass and Bioenergy: An Overview from Turkey and Malaysia, *Renewable and Sustainable Energy Reviews*, 79, 1285-1302 (IF=6.798) (Q1) **(Corresponding author)**

110. Mohamed Alkateb, S.M. Sapuan, Z. Leman, **Mohammad Jawaid** and M.R. Ishak (2017) Energy absorption capacities of kenaf fibre-reinforced epoxy composite elliptical cones with circumferential holes, *Fibers and Polymers*, 18(6), 1187-1192 (IF=1.022) (Q1)
111. M. Asim, **M. Jawaid**, K. Abdan, and M. R. Ishak (2017) Effect of Pineapple Leaf Fibre and Kenaf Fibre Treatment on Mechanical Performance of Phenolic Hybrid Composites, *Fibers and Polymers*, 18 (5), 940-947 (IF=1.022) (Q1) (**Corresponding author**)
112. A.M. Radzi, S.M. Sapuan, M. Jawaid, M.R. Mansor (2017) Influence of Fibre Contents on Mechanical and Thermal Properties of Roselle Fibre Reinforced Thermoplastic Polyurethane Composites, *Fibers and Polymers*, 18(7), 1353-1358 (IF=1.022) (Q1)
113. Lau Kia Kian, **Mohammad Jawaid**, Hidayah Ariffin, Othman Alothman (2017) Isolation and Characterization of Microcrystalline Cellulose from Roselle Fibers, *International Journal of Biological Macromolecules*, 103:931-940 (IF=3.138) (Q1) (**Corresponding author**)
114. Naheed Saba, **Mohammad Jawaid**, Md. Tahir Paridah, and Othman Y. Alothman (2017) Physical, structural and thermomechanical properties of nano oil palm empty fruit bunch filler based epoxy nanocomposites, *Industrial Crops and Products*, 108, 840-843 (IF=3.181) (Q1) (**Corresponding author**)
115. Siew Sand Chee, **Mohammad Jawaid**, and Mohamed T. H. Sultan (2017) Thermal Stability and Dynamic Mechanical Properties of Kenaf/Bamboo Fibre Reinforced Epoxy Composites, *BioResources*, 14 (4), 7118-7138 (IF=1.334) (Q2) (**Corresponding author**)
116. S. Karthikeyan, N. Rajini, **M. Jawaid**, J.T. Winowlin Jappes, MTH. Thariq, Suchart Siengchin, J. Sukumaran (2017) A review on tribological properties of natural fiber based sustainable hybrid composite, Part J: *Journal of Engineering Tribology*, 231(12), 1616-1634 (IF=0.907) (Q3)
117. Zahra Dashtizadeh, K. Abdan, **M. Jawaid**, Mohd Asim Khan, Mohammad Behmanesh, Masoud Dashtizadeh, Francisco Cardona, and Ishak M.R. (2017) Mechanical and Thermal Properties of Natural Fibre Based Hybrid Composites: A Review, *Pertanika J. Sci. & Technol.* 25 (4): 1103-1122 (Scopus Index)
118. N.S.B. Yusof, S.M. Sapuan, M.T.H. Sultan, **M. Jawaid** and M.A. Maleque (2017) Design and materials development of automotive crash box: A review, *Ciência & Tecnologia dos Materiais* 29 (2017) 129–144 (Q3)
119. Krishnasamy Senthilkumar, Irulappasamy Siva, Mohammad Thariq Hameed Sultan, Nagarajan Rajini, Suchart Siengchin, **Mohammad Jawaid**, and Ahmad Hamdan (2017) Static and Dynamic Properties of Sisal Fiber Polyester Composites—Effect of Fiber Orientation, *BioResources*, 12(4), 7819-7833 (IF=1.334) (Q2)
120. Ridhwan Jumaidan, S.M. Sapuan, **Mohammad Jawaid**, Mohammad Ridzwan Ishak, Sahari Japar (2017) Effect of Agar on Physical Properties of Thermoplastic Starch Derived from Sugar Palm Tree, *Pertanika J. Sci. & Technol.* 25 (4): 1235 - 1248 (Scopus Index)
121. Ahmed Edhirej, S.M. Sapuan, **Mohammad Jawaid**, Nur Ismarrubie Zahari (2017) Tensile, Barrier, Dynamic Mechanical and Biodegradation properties of Cassava/Sugar Palm Fiber Reinforced Cassava Starch Hybrid Composites, *BioResources*, 12(4), 7145-7160 (IF=1.334) (Q2)
122. N. Razali, M.T.H. Sultan, **M. Jawaid** (2017) A Review on Detecting and Characterizing Damage Mechanisms of Synthetic and Natural Fiber Based Composites, *BioResources*, 12 (4) (IF=1.334) (Q2)
123. T. Senthil Muthu Kumara, N. Rajinia, **M. Jawaid**, A. Varada Rajulu, Suchart Siengchen (2017) Utilization of chemically treated municipal solid waste (spent coffee bean powder) as reinforcement in cellulose matrix for packaging applications, *Waste Management*, 69, 445-454 (IF=4.030) (Q1)



124. Muhamad Faris Syafiq Khalid, Aidah Jumahat, Zuraidah Salleh and **Mohammad Jawaid** (2017), Flexural Properties of Unidirectional Arenga Pinnata Fibre Reinforced Epoxy Composite, *Pertanika J. Sci. & Technol.* 25 (S): 93 – 102 (Scopus Index)
125. **M. Jawaid**, N.Saba, Othman Y Alothman, HPS Abdul Khalil, M.Mariatti (2017) Thermal conductivity behavior of oil palm/jute fibre-reinforced hybrid composites, *AIP Conference Proceedings* 1901, 030007 (Scopus Index) (**Corresponding author**)
126. Ahmed Edhirej, S. M. Sapuan, **Mohammad Jawaid**, Nur Ismarrubie Zahari, and M. L. Sanyang (2017), Effect of cassava peel and cassava bagasse natural fillers on mechanical properties of thermoplastic cassava starch: Comparative study, *AIP Conference Proceedings* 1901, 100010 (Scopus Index)
127. M. Asim, **M. Jawaid**, K. Abdan, and M. R. Ishak (2017) Dimensional stability of pineapple leaf fibre reinforced phenolic composites, *AIP Conference Proceedings* 1901, 030016 (Scopus Index) (**Corresponding author**)
128. S. M. M. Amir, M. T. H. Sultan, **M. Jawaid**, F. Cardona, M. R. Ishak, and M. R. Yusof (2017) Effect of Kevlar and carbon fibres on tensile properties of oil palm/epoxy composites, *AIP Conference Proceedings* 1901, 030021 (Scopus Index)
129. N. Razali, M. T. H. Sultan, F. Cardona, and **M. Jawaid** (2017) Damage characterization of E-glass and C-glass fibre polymer composites after high velocity impact, *AIP Conference Proceedings* 1901, 030008 (Scopus Index)
130. L. Muthulaksmi, Nagarajan rajini, H Nellaiah, T Kathiresan, **Mohammad Jawaid**, A Varadharajulu (2017) Experimental investigation of cellulose/silver nanocomposites using in situ generation method, *Journal of Polymers and The Environment*, 25 (4), 1021-1032 (IF:1.969) (Q2)

## 2016

131. M.L. Sanyang, S.M. Sapuan, **M. Jawaid**, M.R. Ishak, J. Sahari (2016) Recent developments in sugar palm (*Arenga Pinnata*) based biocomposites and their potential industrial applications: A review, *Renewable & Sustainable Energy Reviews*, 54, 533-549 (IF=6.798) (Q1)
132. R. Yahaya, S.M. Sapuan, **M. Jawaid**, Z. Leman, and E.S. Zainudin (2016) Measurement of Ballistic impact properties of woven kenaf-aramid hybrid composites, *Measurement*, 77, 335-343 (IF=1.484) (Q2)
133. N. Nadlene, S. M. Sapaun, **M. Jawaid**, M. Rizdwan (2016) A review on Roselle fibre and its composites, *Journal of Natural Fibers*, 13(1), 10-41 (IF=0.582) (Q2)
134. A.F. Edhirej, S.M. Sapuan, **M. Jawaid**, Z. N. Ismarrubie (2016) Extraction and Characterization of Malaysian cassava starch, peel and bagasse, *Journal of Food Science and Technology* (Accepted) (IF=1.241) (Q3)
135. Harmaen Ahmad Saffian, Khalina Abdan, Mohd Ali Hassan, Nor Azowa, and Mohammad Jawaid (2016) Characterisation and biodegradation of poly(lactic acid) (PLA) blended with oil palm biomass and fertilizer for bioplastic fertilizer (bpf) composites, *BioResources*, 11(1), 2055-2070 (IF=1.334) (Q2) **Corresponding author**
136. O. Nurhazwani, **M. Jawaid**, M.T. Paridah, A.H. Juliana., S. Abdul Hamid (2016) Physical and mechanical properties of hybrid particleboard made from bamboo veneer waste (*Dendrocalamus asper*) and rubberwood, *BioResources*, 11(1), 306-323 (IF=1.334) (Q2) **Corresponding author**
137. N. Saba, **M. Jawaid**, Othman Y. Alothman, M. T. Paridah, (2016) A review on dynamic mechanical properties of natural fibre reinforced polymer composites, *Construction and building materials*, 106, 149–159 (IF=2.421) (Q1) **Corresponding author**



- 138.R. Yahaya, S.M. Sapuan, **M. Jawaid**, Z. Leman, and E.S. Zainudin (2016) The response of kenaf-aramid hybrid composites to ballistic impact of fragment simulating projectiles, *Fibers and Polymers*, 17(2), 275-281 (IF=1.022)(Q2)
- 139.M.L. Sanyang, S.M. Sapuan, **M. Jawaid**, M.R. Ishak, J. Sahari (2016) Effect of plasticizer type and concentration on physical properties of sugar palm starch (*arenga pinnata*) films for food packaging, *Journal of Food science and Technology*, 53 (1),326-336 (IF= 1.241)(Q3)
- 140.N. Saba, **M. Jawaid**, O. Y. Alothman, M. T. Paridah, A. Hassan (2016) Recent advances in epoxy resin, composites and its structural applications, *Journal of Reinforced Plastics and Composites*, 35(6) 447–470 (IF=0.901) (Q3) **(Corresponding author)**
- 141.R. Yahaya, S.M. Sapuan, **M. Jawaid**, Z. Leman, and E.S. Zainudin (2016) Effect of fibre orientations on the mechanical properties of kenaf- aramid hybrid composites, *Defence Technology*, 12(1), 52-58 (Scopus Index)
- 142.M.L. Sanyang, S.M. Sapuan, **M. Jawaid**, M.R. Ishak, J. Sahari (2016) Development and characterization of sugar palm starch and poly (lactic acid) bilayer films, *Carbohydrate Polymers*, 146, 36-45.(IF=4.219) (Q1)
- 143.N. Saba, **M. Jawaid**, M. T. Paridah, O. Y. Alothman (2016) A review on flammability of epoxy polymer, cellulosic and non-cellulosic fiber reinforced epoxy composites, *Polymers for advanced technologies*, 27 577–590 (IF=1.823) (Q2) **(Corresponding author)**
- 144.Fariborz Hashemi; Paridah Md Tahir; Bo Madsen; **M Jawaid**; D.L Majid; Loïc Brancheriau (2016) Void volume fraction and apparent interlaminar shear strength evaluation of kenaf/glass pultruded hybrid composites, *Journal of composites materials*, 50(17) 2291–2303(IF= 1.242) (Q2)
- 145.L. Yusriah, S.M. Sapuan, E. S Zainudin, Mariatti Jaafar, **M. Jawaid** (2016) Thermo-physical, thermal degradation and flexural properties of betel nut husk fibre reinforced vinyl ester composites, *Polymer Composites*, 37(7), 2008-2017 (IF= 2.004)(Q2)
- 146.Khaliq Majeed, Azman Hassan, Aznizam Abu Bakar, **M. Jawaid** (2015) Effect of MMT content on the mechanical, oxygen barrier and thermal properties of rice husk/MMT filled low density polyethylene blown films, *Journal of Thermoplastic Composite Materials*, 29 (7), 1003-1019 (IF=0.922)(Q3)
- 147.Ridhwan Jumaidan, Mohd Sapuan Salit, **Mohammad Jawaid**, Mohammad Ridzwan Ishak, Sahari Japar (2016) Characteristics of Thermoplastic Sugar Palm Starch/Agar Blend: Thermal, Tensile, and Physical Properties, *International Journal of Biological Macromolecules*, 89, 575-581 (IF=3.138) (Q1)
- 148.Mohd Asim Khan, **Mohammad Jawaid**, Khalina Abdan, Ridhwan Ishak (2016) Effect of alkali and silane treatments on mechanical and fibre-matrix bond strength of kenaf and pineapple leaf fibres, *Journal of Bionic Engineering*, 13, 426–435 (IF=1.466) (Q2) **(Corresponding author)**
- 149.Chaturbhuj K. Saurabh, Asniza Mustapha, M. Mohd. Masri, A. F. Owolabi, M.I. Syakir<sup>1</sup>, Rudi Dungani, MT Paridah, **M Jawaid**, H.P.S. Abdul Khalil (2016) Isolation and Characterization of Cellulose Nanofibers from *Gigantochloa scortechinii* as a Reinforcement Material, *Journal of Nanomaterials* (IF=1.758) (Q2) Volume 2016, Article ID 4024527, 8 pages <http://dx.doi.org/10.1155/2016/4024527>
- 150.B. Rashid, Z. Leman, **M. Jawaid**, M.J. Ghazali, M.R. Ishak (2016) The Mechanical Performance of Sugar Palm Fibres Reinforced Phenolic Composites, *International Journal of Precision Engineering and Manufacturing*, 17(8), 1001-1008 (IF= 1.075) (Q3)
- 151.Seyed Eshagh Ebadi, Zaidon Ashaari, Hamid Reza Naji, Mohammad Jawaid, Mojtaba Soltani, H'ng paik San (2016) Mechanical behavior of hydrothermally treated oil palm wood in different buffered PH media, *Wood and fiber science: journal of the Society of Wood Science and Technology* 48(3):e1-e9 (IF=0.790) (Q2)

152. Nadlene Razali, Mohd Sapuan Salit, **Mohammad Jawaid**, Mohamad Ridzwan Ishak, and Yusriah Lazim (2016) Mechanical and Thermal Properties of Roselle Fibre Reinforced Vinyl Ester Composites, *BioResources*, 11 (4), 9325-9339 (IF=1.334) (Q1)
153. B. Rashid, Z. Leman, **M. Jawaid**, M.J. Ghazali, M.R. Ishak (2016) Physicochemical and Thermal properties of Untreated and Treated Sugar Palm Fibers, *Cellulose*, 23(5), 2905-2916 (IF=3.195) (Q1)
154. F. Oqla, S.M. Sapaun, M. Jawaid (2016) Integrated Mechanical-Economic-Environmental Quality of Performance for Natural Fibers for Polymeric-Based Composite Materials, *Journal of Natural Fibers*: 13 (6), 651-659 (IF=0.582)(Q2)
155. Md Enamul Hoque, Arsalan Maroof Khan, Md. Saiful Islam, Mohd Asim Khan, N. Saba, **M. Jawaid** and Othman Y. Alothman (2016) The effect of natural degradation on the mechanical and morphological properties of tropical woods, *Cellulose Chemistry and Technology*, 50 (7-8), 723-730 (Q3)  
**(Corresponding author)**
156. R. Yahaya, S.M. Sapuan, **M. Jawaid**, Z. Leman, and E.S. Zainudin (2016) Water absorption behaviour and impact strength of kenaf-kevlar reinforced epoxy hybrid composites, *Advanced Composites Letters*, 25 (4), 98-102 (IF=0.158) (Q4)
157. R. Jumaidin, S.M. Sapuan, M. Jawaid, M.R. Ishak, and J. Sahari (2016) Effect of seaweed on physical properties of thermoplastic sugar palm starch/agar composites, *Journal of Mechanical Engineering and Sciences (JMES)*, 10(3), 2214-2225 (Scopus index)
158. Ain Umaira, M.T.H. Sultan, F. Cardona, **M. Jawaid** (2016) A review on the tensile properties of bamboo fibre reinforced polymer composites, *BioResources*, 11(4), 10654-10676 (IF=1.334) (Q2)
159. A.F. Edhirej, S.M. Sapuan, **M. Jawaid**, Z. N. Ismarrubie (2016) Extraction and Characterization of Malaysian cassava starch, peel and bagasse, *Journal of Food Science and Technology* (Accepted) (IF= 1.241) (Q3)
160. **M. Jawaid**, N. Saba, O. Alothman, and M. T. Paridah (2016) Effect of accelerated environmental aging on tensile properties of oil palm/jute hybrid Composites, *AIP Conference Proceedings* 1787, 040007 (2016); doi: 10.1063/1.4968086 (Scopus Index) **(Corresponding author)**

## 2015

161. Md. Saiful Islam, Nur Atiqah Binti Hasbullah, Mahbub Hasan, Zainal Abidin Talib, **M. Jawaid** and M. K. M. Haafiz (2015) Evaluation of Mechanical, Morphological and Biodegradable Properties of Hybrid Natural Fiber Polymer Nanocomposites, *Polymer composites* (Online Available) (IF= 2.004) (Q2). DOI: 10.1002/pc.23616
162. A.F. Edhirej, S.M. Sapuan, **M. Jawaid**, Z. N. Ismarrubie (2015) Cassava: Its polymer, fibre, composite and application, *Polymer Composites*, DOI: 10.1002/pc.23614(Online Available) (IF= 2.004) (Q2)
163. N. Saba, **M. Jawaid**, K.R. Hakeem, M. T. Paridah, A. Khalina, O.Y. Alothman (2015) Potential of bioenergy production from industrial kenaf (*Hibiscus cannabinus* L) based on Malaysian perspective, *Renewable and Sustainable Energy Review*, 42, 446-459 (IF=6.798) (Q1)
164. R. Yahaya, S.M. Sapuan, **M. Jawaid**, Z. Leman, and E.S. Zainudin (2015) Effect of Layering Sequence and Chemical Treatment on the Mechanical Properties of Woven Kenaf-Aramid Hybrid Laminated Composites, *Materials and Design*, 67, 173-179 (IF=3.501) (Q1)
165. N. Saba, **M. Jawaid**, M. T. Paridah (2015) Mechanical Properties of Kenaf Fiber Reinforced Polymer Composite: A Review, *Construction and Building Materials*, 76, 87-96 (IF=2.296) (Q1).
166. N. Nadlene, S. M. Sapaun, **M. Jawaid**, M. Rizdwan (2015) The effect of plant age on the Chemical Composition, Physical, Tensile, Morphological and Thermal Properties of Agricultural biomass (Roselle fibre), *BioResources*, 10(1), 1803-1824 (IF=1.425) (Q1)

167. Faris M AL-Oqla, S.M. Sapuan, T Anwer, M Jawaid, M E Hoque (2015) Natural fiber reinforced conductive polymer composites as functional materials: A review, *Synthetic metals*, 206, 42-54 (IF=2.252) (Q2)
168. Md. S. Islam, Mansor B. Ahmad, Mahbub Hasan, **Mohammad Jawaid**, Mohamad. K. M. Haafiz, and Siti. A. H. Zakaria (2015) Hybrid Natural Fiber-Reinforced Polymer Nanocomposites: Effect of Fiber Hybridization and Nanoclay on Physical, Mechanical, and Biodegradable Properties, *BioResources*, 10(1), 1394-1407 (IF=1.425) (Q1).
169. A.S. Harmaen, A. Khalina, I. Azowa, M.A. Hassan, A. Tarmian, **M. Jawaid** (2015). Thermal and degradation of Poly (lactic acid)/ NPK fertilizer/ empty fruit bunch fibres blends biocomposites, *Polymer Composites*, 36, 576-583 (IF=1.632) (Q2).
170. Md. Saiful Islam, Nur Atiqah Binti Hasbullah, Mahbub Hasan, Zainal Abidin Talib, M. Jawaid and M. K. M. Haafiz (2015) Physical, Mechanical and Biodegradable Properties of Kenaf/Coir Hybrid Fiber Reinforced Polymer Nanocomposites, *Materials Today Communication*, 4, 69-76 (Scopus Index)
171. H. Essabir, S. Nekhlaoui, M.O. Bensalah, R. Bouhfid, A. Qaiss, **M. Jawaid** (2015) Mechanical and thermal properties of polypropylene reinforced with Almond shells particles: Impact of chemical treatments, *Journal of Bionic Engineering*, 12 (3), 483-494 (IF=1.632) (Q1)
172. M.L. Sanyang, S.M. Sapuan, **M. Jawaid**, M.R. Ishak, J. Sahari (2015) Effect of plasticizer type and concentration on tensile, thermal and barrier properties of biodegradable films based on sugar palm (*Arenga pinnata*) starch, *Polymers*, 7 (6), 1106-1124 (IF=3.681) (Q1)
173. **M. Jawaid**, Alotman Othman, N. Saba, M. T. Paridah, H.P.S Abdul Khalil (2015) Effect of fibres treatment on dynamic mechanical and thermal properties of epoxy hybrid composites, *Polymer composites*, 36(9), 1669–1674 (IF=1.632) (Q2)
174. F.L. Nabil, A. Zaidon, **M. Jawaid**, U.M.K. Anwar, E.S. Bakar, M.T. Paridah and S.M.A Ridzuan (2015) The Behavior of Nanoclay In Low Molecular Weight Phenol Formaldehyde Resin, *International Journal of Adhesion and Adhesives*, 62, 124-129 (IF=1.773) (Q2).
175. Nurul Ain Jamaludin, Ibrahim Mohammad Inuwa, Azman Hassan, Norhayani Othman, **M. Jawaid** (2015) Effects of SEBS-g-MA on the Mechanical and Thermal Properties of Poly(ethylene terephthalate)/Polycarbonate/Halloysite Nanotubes Nanocomposites, *Journal of Applied Polymer Science*, 132 (39), (IF=1.768)(Q2) Article number 42608.
176. R. Yahaya, S.M. Sapuan, **M. Jawaid**, Z. Leman, and E.S. Zainudin (2015) Effects of kenaf contents and fibre orientation on physical, mechanical and morphological properties of hybrid laminated composites for vehicle spall liners, *Polymer Composites*, 36 (8), 1469-1476 (IF=1.632) (Q2)
177. Mohd Asim Khan, Khalina Abdan, **Mohammad Jawaid**, Zahra Dashtizadeh, M. Nasir, Ridhwan Ishak, Md Enamul Hoque (2015) Pine apple leaves fibre and its composites: A Review Special issue-International Journal of Polymer Science, Vol. 2015, Article number 950567 (IF=1.195) (Q3)
178. M.L. Sanyang, S.M. Sapuan, **M. Jawaid**, M.R. Ishak, J. Sahari (2015) Effect of plasticizer type and concentration on dynamic mechanical properties of sugar palm starch-Based Films, *International Journal of Polymer Analysis and Characterization*, 20(7), 627-636 (IF=1.264) (Q3)
179. N. Nadlene, S. M. Sapaun, **M. Jawaid**, M. Rizdwan, Y. Iazim (2015) Material characterization of Roselle fibre as potential reinforcement material for polymer composites, *Fibres & Textiles in Eastern Europe*, 23 (6), 23-29 (IF=0.667) (Q3)
180. Layth Mohammed, Mohamed.N.M. Ansari, Grace Pua, **Mohammad Jawaid**, M. Saiful Islam (2015) A Review On Natural Fiber Reinforced Polymer Composite and Its Applications, Special issue-International Journal of Polymer Science, Vol 2015, Article number 243947 (IF=1.3) (Q3)

181. N. Nadlene, S. M. Sapaun, **M. Jawaid**, M. Rizdwan (2015) Mercerization Effect on Morphology and Tensile Properties of roselle fibre, *Applied Mechanics and Materials*, 754-755, 955-959 (Scopus Index)
182. N.A. Jamaludin, A. Hassan, N. Othman, and **M. Jawaid** (2015) Effects of Halloysite Nanotubes on Mechanical and Thermal Stability of Poly(Ethylene Terephthalate)/Polycarbonate Nanocomposites, *Applied Mechanics and Materials*, 735, 8-12 (Scopus Index)

#### 2014

183. A. Atiqah, M. A. Maleque, **M. Jawaid** and M. Iqbal (2014) Development of kenaf-glass reinforced unsaturated polyester hybrid composite for structural applications, *Composite Part B*, 56, 68–73 (IF=2.602) (Q1)
184. R. Yahaya, S.M. Sapuan, **M. Jawaid**, Z. Leman, and E.S. Zainudin (2014) Mechanical performance of Kenaf-Kevlar Hybrid Composites, *Journal of Reinforced Plastics and composites*, 33(24), 2242-2254 (IF=1.188) (Q2)
185. H. P. S. Abdul Khalil, Y. Davoudpour, Asniza Mustapha, Md. Nazrul Islam, K. Sudesh and **M. Jawaid** (2014) Production and modification of nanofibrillated cellulose using various mechanical processes: A review, *Carbohydrate Polymers*, 99, 649–665. (IF=3.916) (Q1)
186. **M. Jawaid**, Alothman Y. Othman, M. T. Paridah, H.P.S Abdul Khalil (2014) Effect of fibre treatments on mechanical performance of epoxy hybrid composites, *International Journal of Polymer Analysis and Characterization*, 19 (1), 62-69 (IF=1.487) (Q3)
187. Y. A. El-Shekeil, S.M. Sapuan, **M. Jawaid**, O.M. Al-Shuja'a (2014) Influence of Fiber Content on Mechanical, Morphological and Thermal Properties of Kenaf Fibers Reinforced Poly(vinyl chloride)/Thermoplastic Polyurethane Poly-blend Composites, *Materials and Design*, 58, 130–135. (IF=3.171) (Q1)
188. Reza Hashemi Farzad, Azman Hassan, M. A. M. Piah, **M. Jawaid** (2014) Electrical and Flammability Properties of Alumina Trihydrate Filled Polypropylene/Ethylene Propylene Diene Monomer Composites as Insulators in Cable Applications, *Polymer Engineering and Science*, 54(3), 493-498 (IF=1.441)(Q2)
189. A.F. Ang, A. Zaidon, E.S. Bakar, S. Mohd Hamami, U.M.K. Anwar & **M. Jawaid** (2014) Possibility of Improving the Properties of Mahang Wood (*Macaranga* sp.) through Phenolic *Compreg* Technique, *Sains Malaysiana*, 43(2), 219–225 (IF=0.480) (Q3)
190. E. S. Zainudin, Lim H. Yan, W. H. Haniffah, **M. Jawaid**, Othman Y. Alothman (2014) Effect of coir fibre loading on mechanical and morphological properties of oil palm fibres reinforced polypropylene composites, *Polymer Composites*, 35(7), 1418-1425 (IF=1.455) (Q2)
191. Abozar Akbari, **M. Jawaid**, Azman Hassan and Harintha Ravimal Balakrishnan (2014). Epoxized Natural Rubber toughened Polylactic acid/talc composites: Mechanical, Thermal and Morphological Properties, *Journal of Composite Materials* 48(7), 769-781 (IF=1.257) (Q2)
192. Harmaen Ahmad Saffian, Jalaudin Harun, Paridah Tahir, **M. Jawaid**, Khalid Rehman Hakeem (2014) Influence of planting density on fibre morphology and chemical composition of new latex-timber clone tree of rubberwood (*hevea brasiliensis muell. arg.*), *BioResources*, 9(2), 2593-2608 (IF=1.549) (Q1)
193. **M. Jawaid**, Alothman Othman, N. Saba, Y. A. El-Shekeil, M. T. Paridah, H.P.S Abdul Khalil (2014) Effect of chemical modifications of fibres on tensile properties of Epoxy hybrid composites, *International Journal of Polymer Analysis and Characterization*, 19(5), 391-403 (IF=1.487) (Q3)
194. M. T. Paridah, A.H. Halip, Y. A. El-Shekeil, **M. Jawaid**, Alothman Othman (2014) Development and Characterization of Rubberwood and Kenaf fibre Blends Particleboard, *Measurement*, 56, 70-80 (IF=1.526) (Q2)

195. Majid Dehghan Nayeri, Paridah Md Tahir, **Mohammad Jawaid**, Farideh Namvar, Jalaluddin Harun, Luqman Chuah Abdullah, Edi Suhaimi Bakar (2014) Medium Density Fibreboard Made from Kenaf (*Hibiscus cannabinus L.*) Stem: Effect of Thermo-mechanical Refining and Resin Content, *BioResources* 9(2), 2372-2381 (IF=1.549) (Q1)
196. R. Yahaya, S.M. Sapuan, **M. Jawaid**, Z. Leman and E.S. Zainudin (2014) Quasi-Static Penetration and Ballistic Properties of Kenaf-Aramid Hybrid Composites, *Materials and Design*, 63, 775-782. (IF=3.171) (Q1)
197. Muhammad Abduh Tuasikal, Othman Y. Allothman, Mohammad Luqman, S. M. Al-Zahrani, **M. Jawaid** (2014) Influence of natural and accelerated weathering on the mechanical properties of low density polyethylene films, *International Journal of Polymer Analysis and Characterization*, 19 (3), 189-203 (IF=1.487) (Q3)
198. R. Yahaya, S.M. Sapuan, **M. Jawaid**, Z. Leman and E.S. Zainudin (2014) Effect of Post Curing, Fibre Content and Resin-Hardener Mixing Ratio on the Properties of Kenaf-Aramid Hybrid Composites, *Applied Mechanics and Materials Vols. 548-549*, 7-11 (Scopus Index)
199. L. Yusriah, S.M. Sapuan, E. S. Zainudin, Mariatti Jaafar, **M. Jawaid** (2014) Effect of alkali treatment on the physical, mechanical and morphological properties of waste betel nut (*Areca catechu.*) husk fibre, *BioResources*, 9(4), 7721-7736. (IF=1.549) (Q1)
200. Md. Saiful Islam, Sinin Hamdan, Mahbub Hasan, Azman Hassan, M. K. Mohamad Haafiz and **M. Jawaid** (2014) Effect of MMA/PVA Prepolymer on the Physico-Mechanical and Thermal Properties of Tropical Wood Material, *Advances in Material Science and Engineering*, Volume 2014 (2014), Article ID 626850 (IF=0.893) (Q3)
201. Majid Dehghan Nayeri, Paridah Md Tahir, **Mohammad Jawaid**, Farideh Namvar, Jalaluddin Harun, Luqman Chuah Abdullah, Edi Suhaimi Bakar (2014) Optimization of processing variables in kenaf-rubber composite panel manufacturing technology, *Fibres and Polymers*, 15(6), 1263-1269 (IF=1.113) (Q2)
202. Anokye Rogerson, Regina Maria Kalong, Edi Suhaimi Bakar, Jegathewaran Ratnasingam, **Mohammad Jawaid**, Khairul Awang (2014) Variations in moisture content and its effect on the shrinkage of *Gigantochloa scortechinii* and *Bambusa vulgaris* at different height of bamboo culm, *BioResources*, 9(4), 7484-7493. (IF=1.549) (Q1)
203. F.H.A. Malek, E.S. Zainudin, Paridah Md. Tahir, and **M. Jawaid** (2014) The Effect of Additives on Bending Strength of Pultruded Hybrid Reinforced Resol Type Phenolic Composite, *Applied Mechanics and Materials*, 564, 418-421 (Scopus Index)
204. I. Inuwa, A. Hassan, S. Samsuddin, M.H. Hafeez, **M. Jawaid** (2014) Mechanical and thermal properties of exfoliated graphite nanoplatelets reinforced polyethylene terephthalate/ polypropylene composites, *Polymer Composites*, 35(10), 2029-2035 (IF=1.455) (Q2)
205. I. M. Inuwa, Azman Hassan, S. A. Samsudin, M. K. Mohamad Haafiz, **M. Jawaid**, K. Majeed and N. C. Abdul Razak (2014) Characterization and Mechanical Properties of Exfoliated Graphite Nanoplatelets Reinforced Polyethylene terephthalate/ Polypropylene Composites, *Journal of Applied Polymer Science*, 131(15), 40582-40590 (IF=1.602) (Q2)
206. N. Saba, M.T. Paridah, **M. Jawaid** (2014) A Review on Potentiality of Nano filler/Natural fiber filled polymer hybrid composites, *Polymers*, 6(8), 2247-2273 (IF=3.681) (Q1)
207. M. E. Ali Mohsin, Agus Arsad, H. Fouad, **M. Jawaid**, and Othman Y. Allothman (2014) Enhanced mechanical and thermal properties of CNT/HDPE nanocomposite using MMT as secondary filler, *AIP Conference Proceedings* 1599, 206-209, (Scopus index)

208. Farideh Namvar, **Mohammad Jawaid**, Paridah Md Tahir, Rosfarizan Mohamad, Susan Azizi, Alireza Khodavandi, Heshu Sulaiman Rahman, and Majid Dehghan Nayeri (2014) Potential Use of Plant Fibres and their Composites for Biomedical Applications, *BioResources*, 6(3),5688-5706 (IF=1.549)(Q1)
209. M. Enamul Hoque, M. A. M. Aminudin, **M. Jawaid**, M.S. Islam, N. Saba, M.T. Paridah (2014) Physical, Mechanical, and Biodegradable Properties of Meranti Wood Polymer Composites, *Materials and Design*, 64, 743-749(IF=3.171) (Q1)
210. Mohammad Asim, Sangeeta Gupta, **Mohammad Jawaid**, Mohammed Nasir and Khalid Rehman Hakeem (2014) Intraspecific Variation of The Wood Anatomical Features in Lagerstroemia Speciosa (L.) Pers., *The Malaysian Forester* 77 (2): 137-144. (Scopus Index)
211. H.P.S. Abdul Khalil, **M. Jawaid**, P. Firoozian, Othman Y Alothman, M.T. Paridah, E.S. Zainudin (2014). Flexural Properties of Activated carbon filled epoxy nanocomposites from Agricultural biomass, *The Malaysian Journal of Analytical Sciences*, 18(2),391-397 (Scopus Index)

### 2013

212. **M. Jawaid**, H.P.S. Abdul Khalil, A. Hassan, Rudi Dungani, A. Hadiyane (2013). Effect of Jute Fibre Loading on Tensile and Dynamic Mechanical properties of Oil Palm-Epoxy Composites, *Composites Part B*, 45 (1), 619-624 (IF=2.602) (Q1)
213. K. Majeed, **M. Jawaid**, A. Hassan, A. Abu Bakar, H.P.S. Abdul Khalil, A. A. Salema, I. Inuwa (2013) Potential Materials for Food Packaging from Nanoclay/Natural fibres filled Hybrid Composites, *Materials and Design*, 46 (1), 391-410(IF=3.171) (Q1)
214. **M. Jawaid**, H.P.S. Abdul Khalil, A. Abu Bakar, A. Hassan (2013). Effect of Jute Fibre loading on Mechanical and Thermal Properties of Oil Palm-Epoxy Composites, *Journal of Composite Materials* 47 (13), 1633-1641-(IF=1.257) (Q2)
215. I. M. Inuwa, Azman Hassan, De-Yi Wan, S. A. Samsudin, M. K. Mohamad Haafiz, S.L. Wong, **M. Jawaid** (2014) Influence of Exfoliated Graphite Nanoplateletson the Flammability and Thermal Properties of Polyethylene Terephthalate/Polypropylene Nanocomposites, *Polymer Degradation and Stability*, 110, 137-148(Q1)
216. Azman Hassan, L.S. Ken, **M. Jawaid** (2013) Flame retardancy and kinetic behaviour of ammonium polyphosphate treated unsaturated polyester/phenolic interpenetrating polymer network, *International Journal of Polymer Analysis and Characterization*, 18(2), 137-145 (IF=1.487) (Q3)
217. H.P.S. Abdul Khalil, S. Aprilla, A. H. Bhat, **M. Jawaid**, M. T. Paridah, D. Rudi (2013) A Jatropha Biomass as renewable materials for Biocomposites and Its Applications, *Renewable & Sustainable Energy Reviews*, 22, 667-685 (IF=5.510) (Q1)
218. Mohamad Hafiz, S. J. Eichhorn, Azman Hassan, **M. Jawaid** (2013) Isolation and Characterization of Microcrystalline Cellulose from Oil Palm Biomass Residue, *Carbohydrate Polymers*, 93 (2), 628-634 (IF=3.916) (Q1)
219. H.P.S. Abdul Khalil, **M. Jawaid**, P. Firoozian, E.S. Zainudin, M. T. Paridah (2013) Dynamic Mechanical Properties of Activated carbon filled Epoxy Nanocomposites, *International Journal of Polymer Analysis and Characterization*, 18 (4), 247-256 (IF=1.487) (Q3)
220. Atika Ismail, A. Hassan, Aznizam A. Abubakar, **M. Jawaid** (2013). Flame retardancy and mechanical properties of kenaf filled Polypropylene (PP) containing ammonium polyphosphate, *Sains Malaysiana*, 42(4), 429-434 (IF=0.480) (Q3)

- 221.A.S. Harmaen, A. Khalina, A.R. Faizal, **M. Jawaid** (2013) Effect of Triacetin on Tensile Properties of Oil Palm Empty Fruit Bunch Fibre Reinforced PolyLactic Acid Composites, *Polymer-Plastics Technology and Engineering*, 52 (4), 400-406 (Scopus Index)
- 222.Rudi Dungani, **M. Jawaid**, H. P. S. Abdul Khalil, Jasni, Sri Aprilia, and K. R. Hakeem, Sri Hartati, and M. N. Islam (2013) A Review on Quality Enhancement of Oil Palm Trunk Waste by Resin Impregnation: Future Materials, *BioResources*,8(2), 3136-3156 (IF=1.549) (Q1)
- 223.Reza Hashemi Farzad, Azman Hassan, **M. Jawaid**, M. A. M. Piah (2013). Mechanical Properties of Alumina Trihydrate Filled Polypropylene/Ethylene Propylene Diene Monomer Composites for Cable Applications, *Sains Malaysiana*, 42(6), 801-810 (IF=0.480) (Q3)
- 224.**M. Jawaid**, A. Hassan, H.P.S. Abdul Khalil (2013). Effect of Coupling agent on Mechanical and Thermal behaviours oil palm/jute hybrid composites, *Advanced Materials Research*, 686, 125-129 (Scopus index)
- 225.Fahmi Asyadi, **M. Jawaid**, Azman Hassan, M.U. Wahit (2013) Mechanical properties of mica-filled Polycarbonate/Poly(Acrylonitrile-Butadiene-Styrene) Composites, *Polymer-Plastics Technology and Engineering*, 52(7), 727-736.(Scopus Index)
- 226.M.D Nayeri, M.T. Paridah, H. Jalaluddin, B.A. Luqman Chuah, S.B. Edi, **M. Jawaid** and F. Namvar (2013) Thermal Effects on the Morphology, pH, and Buffering Capacity of Bast and Core Kenaf Fibers, *BioResources*, 8 (2), 1801-1812 (IF=1.549) (Q1)
- 227.H.P.S. Abdul khalil, M. A. Tehrani, Y. Davoudpour, A. H. Bhat, **M. Jawaid**, A. Hassan (2013) Natural Fibre Reinforced Poly (Vinyl chloride) Composites: A review, *Journal of Reinforced Plastic and Composite*, 32 (5), 330-356 (IF=1.188) (Q2)
- 228.H.P.S. Abdul khalil, H.M. Fizree, A. H. Bhat, **M. Jawaid**, C. K. Abdullah (2013) Development and characterization of Epoxy Nanocomposites based on nano-structured Oil Palm Ash, *Composites Part B*, 53, 324-333(IF=2.602) (Q1)
- 229.A. Hassan, Haafiz Kassim, I. Inuwa, **M. Jawaid** (2013) Properties of polylactic acid composites reinforced with oil palm biomass microcrystalline cellulose, *Carbohydrate Polymers*, 98(1), 139-145. (IF=3.916).(Q1)
- 230.M. Nasir, A. Gupta, M.D.H. Beg, G.K. Chua, **M. Jawaid** (2013) Fabricating Eco-Friendly Binderless Fiberboard from Laccase-Treated Rubber wood Fiber, *BioResources*, 8(3), 3599-3608 (IF=1.549) (Q1)
- 231.H.P.S. Abdul Khalil, P. Firoozian, **M. Jawaid**, Hazizan Md. Akil, A. Hassan (2013). Preparation of Activate Carbon filled Epoxy Nanocomposites: Morphological and Thermal Properties, *Journal of Thermal Analysis and calorimetry*, 113(2), 623-631 (IF=2.206) (Q2)
- 232.H.P.S Abdul Khalil, **M. Jawaid**, P. Firoozian, M. Amjad, E.S. Zainudin, M. T. Paridah (2013) Tensile, Electrical Conductivity, and Morphological properties of carbon black filled epoxy composites, *International Journal of Polymer Analysis and Characterization*, 18 (5), 329-338 (IF=1.487)(Q3)
- 233.Ismael, Azman Hassan, **M. Jawaid** (2013) Effect of NR/ENR-50 (90/10) on Mechanical and Thermal properties of Metallocene Linear Low density Polyethylene, *Journal of Polymer Materials*, 30 (1), 117-130 (IF=0.253) (Q4)
- 234.Mazatusziha Ahmad, Mat Uzir Wahit, Mohammed Rafiq Abdul Kadir, Khairul Zaman Mohd Dahlan, **Mohammad Jawaid** (2013) Thermal and mechanical properties of ultrahigh molecular weight polyethylene/high-density polyethylene/polyethylene glycol blends, *Journal of Polymer Engineering*, 33(7), 1-16. (IF=0.500) (Q4)
- 235.Nurullizzati Mohd Zawawi, Ainun Zuriyati Mohamed Asa'ari, Luqman Chuah Abdullah, Hazwani Husna Abdullah, Jalaluddin Harun & **Mohammad Jawaid** (2013) Water absorbency and mechanical properties of kenaf paper impregnated via disintegration technique, *BioResources*, 8(4), 5570-5580 (IF=1.549).(Q1)

- 236.H.P.S. Abdul khalil, P. Firoozian, **M. Jawaid** (2013) Activated carbon from various agricultural wastes by chemical activation with KOH: Preparation and Characterization, *Journal of Biobased Materials and Bioenergy*, 7 (6), 708-714 (IF=0.586) (Q4)
- 237.H.P.S. Abdul khalil, N.L. Suraya, N. Atiqah, **M. Jawaid**, A. Hassan (2013) Mechanical and Thermal Properties of Chemical treated Kenaf Fibres Reinforced Polyester Composites, *Journal of Composite Materials*, 47(26), 3343-3350 (IF=1.257) (Q2)
- 238.K.M. Zia, M. Zuber, M.J. Saif, **M. Jawaid**, K. Mahmood, M. Shahid, M.N. Anjum, M.N. Ahmad (2013) Chitin based polyurethanes using hydroxyl terminated polybutadiene, Part III: Surface characteristics, *International Journal of Biological Macromolecules*, 62, 670-676(IF=3.096) (Q2)
- 239.**M. Jawaid**, Alothman Othman, M. T. Paridah, H.P.S Abdul Khalil (2013) Effect of fibre treatment on dimensional stability and chemical resistance properties of hybrid composites, *International Journal of Polymer Analysis and Characterization*, 18 (8), 608-616(IF=1.487) (Q3)
- 240.Farideh Namvar, Rosfarizan Mohamad, Parvin Abedi, Tahereh Fathi Najafi, Mehdi Asadi, and **M. Jawaid** (2013) Potential Biomedical Properties of Edible Seaweed in Cancer Therapy and Chemoprevention Trials: A Review, *Natural Product Communications*, 8(12), 1811-1820 (IF=0.924).(Q3)
- 241.HPS Abdul Khalil, P Amouzgar, **M Jawaid**, CK Abdullah, AM Issam, ES Zainudin, MT Paridah and A Hassan (2013). Physical and thermal properties of microwave-dried wood lumber impregnated with Phenol Formaldehyde Resin, *Journal of Composite Materials*, 47(28), 3565-3571 (IF=1.257) (Q2)
- 242.Yousuf El-Shekeil, Mohd Sapuan Salit, M. D. Azaman and **Mohammad Jawaid** (2013). Optimization of Blending Parameters and Fiber Size of Kenaf Bast Fiber-Reinforced Thermoplastic Polyurethane Composites by Taguchi Method, *Advances in Materials science and Engineering*, 13, 1-5 (IF=0.897) (Q4)

## 2012

- 243.**M. Jawaid**, H.P.S. Abdul Khalil, O.S. Alattas (2012). Woven Biocomposites: Dynamic mechanical and thermal properties, *Composite Part A*, 43(2), 288-293 (IF=3.012) (Q1)
- 244.C. K. Abdullah, **M. Jawaid**, H.P.S. Abdul Khalil (2012) Oil palm trunk biocomposites: Mechanical and Morphological Properties, 8<sup>th</sup> Asian-Australian Conference on Composite Materials 2012, ACCM 2012-Composite: Enabling Tomorrows Industry Today (Scopus Index)
- 245.**M. Jawaid**, H.P.S. Abdul Khalil, A. Hassan (2012). Hybrid Bi-Layer Biocomposites: Chemical Resistant and Physical Properties, *BioResources*, 7 (2), 2344-2355 (IF=1.549) (Q1)
- 246.C. K. Abdullah, **M. Jawaid**, H.P.S. Abdul Khalil (2012). Oil Palm Trunk Polymer Composite: Morphology, Water Absorption and Thickness Swelling Behaviours, *BioResources*, 7(3), 2948-2959 (IF=1.549) (Q1)
- 247.S.S. Suhaily, **M. Jawaid**, H.P.S. Abdul Khalil (2012). A Review on agro-based biocomposites for furniture design and applications: Potential and Challenges, *BioResources*, 7(3). 4400-4423 (IF=1.549) (Q1)
- 248.W. O. Wan Nadirah, **M. Jawaid**, H.P.S. Abdul Khalil (2012) The effect of physical and mechanical properties of hybrid bamboo/empty fruit bunches fibers reinforced polyester composites, 8<sup>th</sup> Asian-Australian Conference on Composite Materials 2012, ACCM 2012-Composite: Enabling Tomorrows Industry Today (Scopus Index)
- 249.W.O. Wan Nadirah, **M. Jawaid**, H. P. S. Abdul Khalil (2012) Cell Wall Morphology, Chemical and Thermal Analysis of Cultivated Pineapple Leaves Fibres for Industrial Applications, *Journal of Polymers and the Environment*, 20 (2), 404-411 (IF=1.628) (Q2)
- 250.H.P.S. Abdul Khalil, P. Amouzger, **M. Jawaid**, A. Hassan (2012). New approach to oil palm trunk core lumber material properties enhancement via resin impregnation, *Journal of Biobased Materials and Bioenergy*, 6(3), 299-308 (IF=0.586) (Q4)



- 251.K. Majeed, A. Hassan, A. Abu Bakar, **M. Jawaid** (2012) Effect of Compatibilizing agents and moisture exposure on tensile properties of rice husk/nanoclay hybrid filler-filled low density Polyethylene nanocomposite films, 8<sup>th</sup> Asian-Australian Conference on Composite Materials 2012, ACCM 2012-Composite: Enabling Tomorrows Industry Today (Scopus Index)
- 252.H.P.S. Abdul Khalil, I.U. Bhat, **M. Jawaid**, A. Zaidon (2012) Bamboo fiber reinforced biocomposites: A review, *Material and Design*, 42, 353-368 (IF=3.171) (Q1)
- 253.Zainoha Zakaria, Z. Izzah, **M. Jawaid**, Azman Hassan (2012) Effect of degree of deacetylation of chitosan on thermal stability and compatibility of chitosan-polyamide blend, *BioResources*, 7(4), 5568-5580 (IF=1.549) (Q1)

## 2011

- 254.**M. Jawaid**, H.P.S. Abdul Khalil, A. Abu Bakar (2011). Chemical Resistance, Void Contents and Tensile Properties of Oil Palm/Jute fibre Reinforced Polymer Hybrid Composites, *Material and Design*. 32, 1014–1019 (IF=3.171) (Q1)
- 255.**M. Jawaid**, H.P.S. Abdul Khalil, and A. Abu Bakar (2011). Hybrid Composite made from oil palm empty fruit bunches/Jute fibres: Water absorption, Thickness swelling and Density Behaviour, *Journal of Polymers and the environment*. 19 (1), 106-109. (IF=1.628) (Q2)
- 256.**M. Jawaid**, H.P.S. Abdul Khalil (2011). Cellulosic/Synthetic Fibres Reinforced Polymer Hybrid Composites: A Review, *carbohydrate Polymers*, 86, 1-18. (IF=3.479) (Q1)
- 257.**M. Jawaid**, H.P.S. Abdul Khalil, A. Abu Bakar (2011). Hybrid Composites of Oil Palm Empty Fruit Bunches/ Woven Jute Fibre: Chemical Resistance, Physical and Impact Properties. *Journal of Composite Materials*. 45(24), 2515-2522. (IF=1.257) (Q2)
- 258.**M. Jawaid**, H.P.S. Abdul Khalil (2011). Effect of layering pattern on the dynamic mechanical properties and thermal degradation of oil palm-jute fibers reinforced epoxy hybrid composite, *BioResources*, 6(3), 2309-2322. (IF=1.549) (Q1)
- 259.**M. Jawaid**, H.P.S. Abdul Khalil, A. Abu Bakar (2011). Woven Hybrid Composites: Tensile and Flexural Properties of Oil Palm-Woven Jute Fibres based Epoxy Composites, *Material Science and Engineering A*, 528 (15), 5190-5195.(IF=2.409)(Q2)
- 260.H.P.S. Abdul Khalil, **M. Jawaid**, A. Abu Bakar (2011). Woven Hybrid Composites: Water absorption and Thickness swelling behaviors. *BioResources*, 6(2), 1043-1052 (IF=1.549) (Q1)
- 261.**M. Jawaid**, H.P.S. Abdul Khalil, Aamir H. Bhat, A. Abu Bakar (2011). Impact Properties of Natural Fiber Hybrid Reinforced Epoxy Composite, *Advanced Materials Research*, 264-265, 688-92(Scopus Index)
- 262.H.P.S. Abdul Khalil, H. M. Fizree, and **M. Jawaid** (2011). Preparation and Characterization of Nano Structured Materials from Oil Palm Ash, *BioResources*, 6(4), 4537-4546 (IF=1.549) (Q1)
- 263.H.P.S. Abdul Khalil, M.R. Nurul Fazita, **M. Jawaid**, A. H. Bhat, C.K. Abdullah (2011). Empty Fruit Bunches as a Reinforcement in Laminated Bio-composites. *Journal of Composite Materials*, 45(2), 219-236. (IF=1.257) (Q2)

## 2010

- 264.**M. Jawaid**, H.P.S. Abdul Khalil, A. Abu Bakar (2010). Mechanical Performance of Oil Palm Empty Fruit Bunches/Jute Fibres Reinforced Epoxy Hybrid Composites, *Material Science and Engineering A*. 527, 7944-7949 (IF=2.003) (Q2)
- 265.P. Noorunnisa Khanam, H.P.S. Abdul Khalil, **M. Jawaid** (2010). Sisal/Carbon Fibre Reinforced Hybrid Composites: Tensile, Flexural and Chemical Resistance Properties, *Journal of Polymers and the environment*, 18(4), 727-733. (IF=1.628) (Q2)

- 266.H.P.S. Abdul Khalil, M.Y. Nur Firdaus, **M. Jawaid**, M. Anis, R. Rizduan, A. R. Mohammad (2010). Development and material properties of new hybrid medium density fiberboard from empty fruit bunch and rubberwood, *Material and Design*, 31(9), 4229-4236. (IF=3.171) (Q1)
- 267.Z. Nahrul Hayawin, H. P. S. Abdul Khalil, **M. Jawaid**, M. Hakimi Ibrahim, A. A. Astimar (2010) Exploring chemical analysis of vermicompost of various oil palm fibre wastes, *The Environmentalist*, 30(3), 273-278 (Scopus Index)
- 268.H.P.S. Abdul Khalil, Aamir H. Bhat, **M. Jawaid**, Parisa Amouzgar, R. Ridzuan, M.R. Said (2010). Agro-Wastes: Mechanical and Physical Properties of Resin Impregnated Oil Palm Trunk Core Lumber, *Polymer Composites*, 31, 638-644. (IF=1.455) (Q2)
- 269.H.P.S. Abdul Khalil, B.T. Poh, **M. Jawaid**, R. Ridzuan, M.R. Said, F. Ahmad and N.A. Nik Fuad (2010). The Effect of Soil Burial Degradation of Oil Palm Trunk Fiber-Filled Recycled Polypropylene Composites, *Journal of Reinforced Plastics and Composites*, 29(11), 1653-1663. (IF=1.188) (Q2)
- 270.Abdul Khalil, H.P.S., Poh, B.T., Issam, A.M., **M. Jawaid**, Ridzuan, R. (2010). Recycled Polypropylene – Oil Palm Biomass: The Effect on Mechanical and Physical Properties. *Journal of Reinforced Plastic and Composite*, 29(8), 1117-1130. (IF=1.188) (Q2)
271. H.P.S. Abdul Khalil, A.F. Ireana Yusra, A.H. Bhat, **M. Jawaid** (2010). Cell Wall Ultrastructure, Anatomy, Lignin Distribution, and Chemical Composition of Malaysian Cultivated Kenaf Fiber, *Industrial Crops and Products*, 31,113–121. (IF=3.208) (Q1)
272. H.P.S. Abdul Khalil, M.R. Nurul Fazita, Aamir H. Bhat, **M. Jawaid**, N.A. Nik Fuad (2010). Development and Material Properties of New Hybrid Plywod from Oil Palm Biomass. *Materials and Design*, 31, 417–424. (IF=3.171) (Q1)

## 2009

- 273.H.P.S Abdul Khalil, N.H. Kong, M.N. Ahmad, A. H. Bhat, **M. Jawaid**, Jumaat S (2009). Selective solvent extraction of the bark of *Rhizophora apiculata* as an anti-termite agent against *Coptotermes gestroi*. *Journal of Wood Chemistry and Technology*, 29(4), 286-304. (IF=1.176) (Q2)

## Conference Proceeding/Abstract Book

1. Muhamad Faris Syafiq Khalid, Aidah Jumahat, Zuraidah Salleh and **Mohammad Jawaid**, Flexural Properties of Unidirectional Arenga Pinnata Fibre Reinforced Epoxy Composite, 3rd International Conference On Science And Social Research (CSSR 2016) 6th–7th December 2016 Putrajaya Malaysia
2. Ridhwan Jumaidin, Mohd Sapuan Salit, **Mohammad Jawaid**, Mohamad Ridzwan Ishak, Sahari Japar, Sugar palm fibre reinforced polymer composites: a review, 4<sup>th</sup> International Symposium on Applied Engineering and Sciences (SEAS2016), Kyushu Institute of Technology (Tobata Campus), Japan, 17-18<sup>th</sup> Dec, 2016
3. Ridhwan Jumaidin, Mohd Sapuan Salit, **Mohammad Jawaid**, Mohamad Ridzwan Ishak, Sahari Japar. Effect of Agar on Physical properties of thermoplastic starch derived from sugar palm tree, Introp Research Colloquium, 1-2 Dec, 2015, RHR Hotel, UNITEN, Putrajaya, Malaysia
4. **Mohammad Jawaid**. Kenaf (*Hibiscus cannabinus*) as a green material for viverse applications, Introp Research Colloquium, 1-2 Dec, 2015, RHR Hotel, UNITEN, Putrajaya, Malaysia.
5. Nurhanisah Mohd Hawari, **Mohammad Jawaid**, Paridah Md. Tahir. A Review on Comfortable Socket Design for Lower Limb, Introp Research Colloquium, 1-2 Dec, 2015, RHR Hotel, UNITEN, Putrajaya, Malaysia
6. Fariborz Hashemi, Paridah Md Tahir, **Mohammad Jawaid**. Compression properties of pultruded kenaf/glass fiber hybrid composites, Introp Research Colloquium, 1-2 Dec, 2015, RHR Hotel, UNITEN, Putrajaya, Malaysia.

7. Zahra Dashtizadeh, Khalina Abdan, **Mohammad Jawaid**. Mechanical properties of natural fiber based hybrid composites-A Review, Introp Research Colloquium, 1-2 Dec, 2015, RHR Hotel, UNITEN, Putrajaya, Malaysia.
8. Mohd Asim Khan, Khalina Abdan, **Mohammad Jawaid**. Effect of alkali treatments on physical and mechanical strength of pine apple leaf fibres, Introp Research Colloquium, 1-2 Dec, 2015, RHR Hotel, UNITEN, Putrajaya, Malaysia
9. S.M.J Halimatul, S.M Sapuan, **M. Jawaid** and M.R Ishak.Effect of fiber loading on sugar palm fiber reinforced sago starch film, Introp Research Colloquium, 1-2 Dec, 2015, RHR Hotel, UNITEN, Putrajaya, Malaysia.
10. **Mohammad Jawaid**. Dynamic mechanical properties of oil palm empty fruit bunch and coir fiber reinforced polypropylene hybrid composites, 2015 International Conference on Advanced Composite Materials (ACM 2015), 19-21 July, Shanghai, China
11. R. Yahaya, S. M. Sapuan, **M. Jawaid**, Z. Leman, E. S. Zainudin. Effect of Moisture Absorption on Mechanical Properties of Natural Fibre Hybrid Composite, 13<sup>Th</sup> International Conference on Environment, Ecosystems, and Development (EED '15), 23-25<sup>th</sup> April 2015, Kuala Lumpur, Malaysia.
12. S.M.J Halimatul, S.M Sapuan, **M. Jawaid** and M.R Ishak. A brief review on thermoplastic starch reinforced nanocellulose film, Postgraduate symposium on Biocomposite Technology 2015, UPM, Malaysia, 3<sup>rd</sup> March 2015
13. M. L. Sanyang, S. M. Sapuan, **M. Jawaid**, M. R. Ishak, J. Sahari. Effect of glycerol and sorbitol plasticizers on physical and thermal properties of sugar palm starch based films, 13<sup>Th</sup> International Conference on Environment, Ecosystems, and Development (EED '15), 23-25<sup>th</sup> April 2015, Kuala Lumpur, Malaysia.
14. Mohd. Asim, **Mohammad Jawaid**, Khalina Abdan, M. Nasir and Ramengmawii. Chemical treatments of pineapple leave fibre for natural fiber-reinforced polymer Composites: A Review, Postgraduate symposium on Biocomposite Technology 2015, UPM, Malaysia, 3<sup>rd</sup> March 2015.
15. R. Yahaya, S.M. Sapuan, **M. Jawaid**, Z. Leman and E.S. Zainudin. Mechanical properties of kenaf/epoxy composites, Postgraduate symposium on Biocomposite Technology 2015, UPM, Malaysia, 3<sup>rd</sup> March 2015.
16. Ridhwan Jumaidin, Mohd Sapuan Salit, **Mohammad Jawaid**, Mohamad Ridzwan Ishak, Sahari Japar. Seaweed as biofiller for polymer composite: A review, Postgraduate symposium on Biocomposite Technology 2015, UPM, Malaysia, 3<sup>rd</sup> March 2015.
17. Ahmed. F. Edhirej, S.M. Sapuan, **M. Jawaid**, Z. N. Ismarrubie. Effects of various plasticizers and concentration on physical properties of cassava films, Postgraduate symposium on Biocomposite Technology 2015, UPM, Malaysia, 3<sup>rd</sup> March 2015
18. M.H Nurhanisah, **M. Jawaid**, M.T Paridah. The suitable material for design of prosthetic leg, Postgraduate symposium on Biocomposite Technology 2015, UPM, Malaysia, 3<sup>rd</sup> March 2015.
19. Ahmed. F. Edhirej, S.M. Sapuan, **M. Jawaid**, Z. N. Ismarrubie. Application of cassava and cassava composites, Postgraduate symposium on Biocomposite Technology 2015, UPM, Malaysia, 3<sup>rd</sup> March 2015.
20. R. Nadlene, S.M. Sapuan, **M. Jawaid**, M.R. Ishak, L. Yusriah. The effect of alkalization and silane coupling agent treatment on the water absorption of roselle fibre reinforced vinyl ester composites, Postgraduate symposium on Biocomposite Technology 2015, UPM, Malaysia, 3<sup>rd</sup> March 2015.
21. M.L. Sanyang, S.M. Sapuan, **M. Jawaid**, M.R. Ishak, J. Sahari. Plasticizing and anti-plasticizing effect of different plasticizers on tensile properties of sugar palm starch films, Postgraduate symposium on Biocomposite Technology 2015, UPM, Malaysia, 3<sup>rd</sup> March 2015

22. F.H.A. Malek, E.S. Zainudin, Paridah Md. Tahir, and **M. Jawaid**. Pultruded glass fibre/Kenaf reinforced phenolic hybrid composite: Dynamic mechanical properties, ICKAF-2013, 3-5<sup>th</sup> Dec, Bangi-Putrajaya, Malaysia
23. R. Yahaya, S. M. Sapuan, **M. Jawaid**, Z. Leman, E. S. Zainudin. Effect of post curing, fibre content and resin-Hardener mixing ration the properties of Kenaf-Aramid Hybrid Composites, The 3<sup>rd</sup> International Conference on Manufacturing Engineering, and Process 2014 (ICMEP 2014), 10-11 April, 2014, Seoul. South Korea.
24. **M. Jawaid**, Othman Y Alothman, Paridah M Tahir. Natural fibres reinforced polymer composites and its applications in automobiles Industries, International Conference on Advancement in Polymeric Materials (AMP-2014), Bhubhaneswar, India, 14-16 Feb 2014.
25. Seyed Fariborz Hashemi Dizaji, M. T. Paridah, and M. Jawaid. Interlaminar Shear strength of pultruded hybrid glass/kenaf fiber reinforced unsaturated polyester composite, ICKAF-2013, 3-5<sup>th</sup> Dec, Bangi-Putrajaya, Malaysia
26. Amel B. Ahmad, Paridah Md. Tahir, **M. Jawaid**. Properties of cement bonded Kenaf board (CBKB) made from Kenaf bast fiber, INTROP Research Colloquim 2012, 5-6 December 2012, Bangi, Malaysia
27. C. K. Abdullah, **M. Jawaid**, H.P.S. Abdul Khalil (2012) Biodeterioration Properties of Impregnation of Oil Palm Wood Enhancement With Phenol Formaldehyde Resin, 3th International Conference on Environmental Research and Technology (ICERT-2012), 30 May- 1 June, 2012 Penang, Malaysia.
28. **M. Jawaid**, H.P.S. Abdul Khalil, A. Abu Bakar (2012) Effect of layering Lamination on Flexural properties of Oil palm Empty fruit bunches/Jute fibre reinforced epoxy composites, 4<sup>th</sup> USM-JIRCAS Joint International Symposium, 18-20 January, 2011, Penang, Malaysia, JIRCAS Report 2012 No.73, 213-218.
29. **M. Jawaid**, H.P.S. Abdul Khalil, A. Abu Bakar, Aamir H. Bhat (2011). Effect of coupling agent on Charpy impact properties of Oil palm EFB/Jute fibre reinforced Epoxy Composites, International Conference on Kenaf and Allied Fibres 2009 (ICKAF), 1-3 December, 2009, Kuala Lumpur, Malaysia IN: Viable Biofibres for Future published by INTROP, Universiti Putra Malaysia, 44-50.

#### **Invited Speaker/Lecture/Talk**

1. Keynote Speaker-1st World conference on By-Products of Palm Trees and Their Applications (ByPalma), 15-17 Dec, Hotel Helinan, Aswan, Egypt
2. Invited Talk-4th International Conference on Agricultural and Food Engineering (Cafei2018), 7-9 Nov,2018, Everly Hotel, Putrajaya
3. Keynote Speaker-Second International Conference on Multidisciplinary Contemporary Research (2nd ICMCR-2018), 11-12<sup>th</sup> August, 2018, Holiday Inn Hotel, Singapore
4. Keynote Speaker-1st International Conference on Safe Biodegradable Packaging Technology (Safebiopack 2018), 24-25 July, 2018, MIGHT, Cyberaya, Malaysia
5. Session Keynote- 4th International Conference on Mechanics of Composites, 9-12 July 2018, Madrid, Spain
6. Keynote Speaker- International Conference on Multidisciplinary Contemporary Research (ICMCR-2018), 24-25th February 2018, Awana Hotel, Genting Highlands, Malaysia
7. Invited Talk-Conversion of Oil Palm biomass wastes in the form of empty fruit bunches (EFB) to premium packaging products (Safebiopack), 9<sup>th</sup> ASIA Sustainable Oil Palm Summit, 1-2<sup>nd</sup> August 2017 \* Pullman KLCC Hotel \* Kuala Lumpur Malaysia
8. Invited Speaker-International Workshop on Advanced Composites and Its Manufacturing, 10-13 April, 2017, Faculty of Engineering, Universiti Putra Malaysia, Malaysia

9. Guest of Honor and Inaugural Talk in International Conference on Advance Materials and Manufacturing (ICAMM-2017), 9-10 March, 2017, Cape Institute of Technology, Tamil Nadu, India
10. Invited Speaker In Biocomposites and Its application workshop, 8-9 March, 2017, Centre for Biocomposite, Kalasalingam University, Tamil Nadu, India
11. Invited Speaker- International Symposium on Advanced Polymeric Materials 2016, May 16-19, Kuala Lumpur, Malaysia
12. Plenary Speaker-International Conference on Advancements on Polymeric Materials (APM-2016), Feb 12-14, 2016, Ahmedabad, India.
13. Keynote Speaker-4<sup>Th</sup> International Thermal Analysis Conference 2015, 21-23th October 2015, Kuala Lumpur, Malaysia
14. Invited Speaker- International Conference on Advanced Composite Materials (ACM 2015), July 19 to 21, 2015, Shanghai China. (<http://www.engii.org/ws/ConferenceSpeakers.aspx?id=622>)
15. Invited Speaker- 13<sup>Th</sup> International Conference on Environment, Ecosystems, and Development (EED '15), 23-25<sup>th</sup> April 2015, Kuala Lumpur, Malaysia.  
<http://www.wseas.org/cms.action?id=8777>
16. Keynote speaker - Second International Conference on Advances in Applied Science and Environmental Engineering - ASEE 2014, 20-21 Dec 2014, Kuala Lumpur, Malaysia  
<http://asee.theired.org/index.html>
17. Keynote Speaker -The 3<sup>rd</sup> International Conference on Mechanical Engineering, Material Science and civil Engineering, Oct 25-26, 2014, Phuket Island, Thailand.  
<http://www.icmemsce.org/comm.html>
18. Invited Speaker at International Conference on Electron Microscopy and XXXV Annual Meeting of the Electron Microscope Society of India will be jointly organized by University of Delhi, Delhi, India and Electron microscope society of India during July 9 – 11, 2014.  
[http://emsi2014.in/invited\\_speakers.html](http://emsi2014.in/invited_speakers.html)
19. Plenary Speaker at International Conference on Advancement in Polymeric Materials (AMP-2014), Organized by Laboratory for Advanced Research in Polymeric Materials (LARPM) and Central Institute of Plastics Engineering & Technology (CIPET), Bhubaneswar, India, 14-16 Feb 2014. <http://apmcipet.org/>
20. Invited speaker at Indian Composites Show, 24-26<sup>Th</sup> Oct, 2013 at New Delhi, India
21. Invited speaker at National Seminar on “Recent Advancement in Material science”, 26-27<sup>Th</sup> Oct, 2013, Orissa, India
22. Invitation as a Speaker for INTROP Scientific Writing Workshop 2013 From 23 to 24 October 2013
23. Invitation as a Facilitator for INTROP Scientific Writing Workshop 2013 From 23 to 24 October 2013.
24. Invitation as a Speaker for MPOB International Oil Palm Biomass Conference 2012, 20-21 September 2012, Istana Hotel, Kuala Lumpur
25. Invitation as a Speaker for Journal Publication Workshop: “Writing Review Papers: An Experience Sharing” by Faculty of computer science, UTM, 19th June, 2012.
26. Invitation as a Facilitator for Journal Publication Workshop organized by Research Publication Centre (RPC), CTL Hall, UTM, 20<sup>Th</sup> June, 2012.

27. Invitation as a Speaker for Journal Publication Workshop: "Writing Review Papers: An Experience Sharing" by Research Publication Centre (RPC), CTL Hall, UTM, 15<sup>th</sup> May, 2012.
28. Invited speaker-Annual International Conference, Syiah Kuala University (AIC UNSYIAH), AAC Dayan Dawood Darussalam, Banda Aceh, Indonesia, November 29-30, 2011.

#### **International Conference (Oral Presentation)**

1. N.Saba, **M. Jawaid**, Paridah Md Tahir, Othman Y Alothman (2017) Dynamic Mechanical properties of Oil Palm Nano filler based epoxy Nanocomposites, Nanotech ME 2017, 4-6 Dec 2017, Dubai, UAE
2. A.Atiqah, **M. Jawaid**, S.M.Sapuan, M.R.Ishak, O.Y.Alothman (2017) Thermo-mechanical properties of hybrid/sugar palm fibre reinforced thermoplastic sugar palm composites for Anti-Roll Bar Applications, ICSS20, 4-7 September 2017, Paris, France
3. M.Asim, **M. Jawaid**, O.Y.Alothman, N.Saba, M.Nasir (2017) Physical and Flammability properties of silane treated and untreated pineapple leaf fibre and kenaf fibre hybrid composites, ICSS20, 4-7 September 2017, Paris, France
4. **M. Jawaid**, N.Saba, Othman Y Alothman, HPS Abdul Khalil, M.Mariatti (2016) Thermal conductivity behavior of oil palm/jute fibre-reinforced hybrid composites, AMC 2016, 27-29<sup>th</sup> Nov, Langkawi, Malaysia
5. **M. Jawaid**, N. Saba, Othman Y. Alothman, M. T. Paridah. Effect of accelerated environmental aging on tensile properties of oil palm/jute hybrid composites, ICFAS, 15-17 August 2016, Kuala Lumpur.
6. **Mohammad Jawaid**. Kenaf (*Hibiscus cannabinus*) as a green material for diverse applications, Introp Research Colloquium, 1-2 Dec, 2015, RHR Hotel, UNITEN, Putrajaya, Malaysia
7. **Mohammad Jawaid**. Dynamic mechanical properties of oil palm empty fruit bunch and coir fiber reinforced polypropylene hybrid composites, 2015 International Conference on Advanced Composite Materials (ACM 2015), 19-21 July, Shanghai, China
8. **M. Jawaid**, N. Saba, Othman Y. Alothman, M. T. Paridah. Effect of accelerated environmental aging on tensile properties of oil palm/jute hybrid composites, 13<sup>th</sup> International Conference on Environment, Ecosystems, and Development (EED '15), 23-25<sup>th</sup> April 2015, Kuala Lumpur, Malaysia.
9. **M. Jawaid**, H.P.S. Abdul Khalil, P. Firoozian, M.T. Paridah. Flexural Properties of Activated carbon filled epoxy nanocomposites from Agricultural biomass, Malaysian Polymer International Conference 2013, 25-26 September 2013, Equatorial Hotel, Bangi-Putrajaya, Malaysia
10. **M. Jawaid**, H.P.S. Abdul Khalil, Azman Hassan. Nanotechnology of Producing Products from Oil Palm Biomass: An Overview, MPOB International Oil Palm Biomass Conference 2012, 20-21 September 2012, Istana Hotel, Kuala Lumpur, Malaysia
11. **M. Jawaid**, Azman Hassan, H.P.S. Abdul Khalil. Effect of coupling agent on mechanical properties of Oil palm EFB/Jute fibre reinforced Epoxy Composites, 8<sup>th</sup> International Materials Technology Conference and Exhibition (IMTCE-2012), 9-12 July, 2012, Shah Alam, Malaysia
12. **M. Jawaid**, H.P.S. Abdul Khalil. Effect of layering pattern on mechanical properties of oil palm Empty fruit bunches/Jute fibre reinforced epoxy composites, Annual International Conference, Syiah Kuala University (AIC UNSYIAH), November 29-30, 2011, AAC Dayan Dawood Darussalam, Banda Aceh, Indonesia
13. **M. Jawaid**, H.P.S. Abdul Khalil, A. Abu Bakar. Effect of layering Lamination on Flexural properties of Oil palm Empty fruit bunches/Jute fibre reinforced epoxy composites, 4<sup>th</sup> USM-JIRCAS Joint International Symposium, 18-20 January, 2011, Penang, Malaysia.

14. **M. Jawaid**, H.P.S. Abdul Khalil, A. Abu Bakar, Aamir H. Bhat. Effect of coupling agent on Charpy impact properties of Oil palm EFB/Jute fibre reinforced Epoxy Composites, International Conference on Kenaf and Allied Fibres (ICKAF), 1-3 December, 2009, Kuala Lumpur, Malaysia.
15. **M. Jawaid**, H.P.S. Abdul Khalil, Aamir H. Bhat, A. Abu Bakar. Impact Properties of Natural Fiber Hybrid Reinforced Epoxy Composite, International Conference on Advances in Material and Processing Technologies (AMPT 09), 26-29 October, 2009, Kuala Lumpur, Malaysia.

#### **Magazine article**

1. **Mohammad Jawaid** (2015) Biocomposite Manufacturing using hand lay-up Technique, INTROPICA, 10, 6-7
2. F. Namvar, **Mohammad Jawaid**, Rosfarizan Mohamad, Paridah Md tahir, Susan Azizi (2014) Oil Palm (*Elaeis guineensis*) Tress: Waste to Wealth, INTROPICA, 8, 7-10.
3. **Mohammad Jawaid**, E. S. Zainudin, W. H. Haniffa, Othman Y. Alotman (2014) Mechanical properties of hybrid composites enhanced with coir fiber hybridization, Society of Plastics Engineers-Plastics Research Online, 10.2417/spepro.005338
4. K. Majeed, **M. Jawaid**, A. Hassan (2013) Improved recipe for food packaging, Asia Research News 2013, UK.
5. C.K. Abdullah, **M. Jawaid**, HPS Abdul Khalil, M.R. Nurul Fazita (2013) Scientific Article 2: Oil Palm Trunk Biocomposite: Mechanical and Morphological Properties, Institute of Materials, Malaysia.
6. **Mohammad Jawaid** (2012) Bamboo: Versatile materials for polymer composites, INTROPICA, 7, 3-4.

#### **XII. Academic Recognition**

##### **Reviewer**

- International Journal of Chemical and Analytical Science
- Polymer Composites
- Carbohydrate Polymers
- Materials Science in Semiconductor Processing
- Journal of Industrial and Engineering Chemistry
- Advance Material Research
- Journal of Engineering
- Pertanika Journal
- Journal of Applied Polymer Science
- Chemical Engineering Journal
- Polymer Engineering and Science
- Advances in Material Science and Engineering
- Materials Research Innovations
- Chemical product and process modeling
- Journal of Material science and Technology
- Journal of the American Oil Chemists' Society
- BioResources
- CLEAN - Soil, Air, Water
- Arabian Journal of Chemistry

- Journal of Biobased Materials and Bioenergy
- Cellulose
- Biomass and Bioenergy
- Materials and Design
- Material Science and Engineering Part B
- Construction and Building materials
- Fibers and Polymers
- Industrial Crops and products
- Renewable & Sustainable Energy Review
- International Journal of Polymer Science
- Synthesis and Reactivity in Inorganic
- Metal-Organic, and Nano-Metal Chemistry
- Polymer-Plastics Technology and Engineering
- Journal of Industrial Textiles
- Journal of Bionic Engineering
- Holzforschung
- Journal of the Taiwan Institute of Chemical Engineers
- Indian Journal of Natural Products and Resources
- Usak University Journal of Material Sciences
- Polymer Bulletins
- Engineering Science and Technology: an International Journal
- Science and Engineering of Composite Materials
- Journal of Saudi Chemical Society
- Materials Sciences and Applications
- Polymer Testing
- Journal of Precision Engineering and Manufacturing
- Polymers for Advanced Technologies
- Journal of Natural Fibres
- Composite Structures
- International Journal of Biological Macromolecules
- Journal of Oil Palm Research
- Journal of Applied Research and Technolog
- Polymer Reviews
- Food Packaging and Shelf Life
- Journal of Engineering Tribology
- Journal of Industrial and Engineering Chemistry,
- Multidiscipline Modeling in Materials and Structures
- Materials Research
- Tribology International
- Journal of Civil Engineering and Construction Technology
- Journal of Polymers and The Environment
- Journal of Cleaner Production



- Sustainable Materials and Technologies
- Journal of Low Frequency Noise Vibration and Active Control
- Materials Discovery
- Journal of the Mechanical Behavior of Biomedical Materials
- Composite Part A,
- European Journal of wood and wood products
- Textile Research Journal
- Composite Part B
- e-Polymers
- Materials Chemistry and Physics
- Advances in Polymer Technology
- Scientia Iranica
- Energy
- International Journal of Materials Engineering Innovation
- Journal of Nanomaterials
- Journal of Thermoplastic Composite Materials
- International Journal of Energy Research
- Journal of Physical Science
- Journal of Environmental Engineering and Landscape Management
- RSC Advances
- Journal of Materials and Environmental Science
- Journal of Alloys and compounds
- International Journal of Pharmacy and Pharmaceutical Sciences
- Scientific reports
- Applied Surface Science
- Material Science and Engineering Part C
- Engineering-Elsevier
- Polymer degradation and Stability
- Journal of Asian Ceramic Societies
- Journal of Electronic Materials (JEMS)
- Chinese Journal of Chemical Engineering
- Waste Management
- Defence Technology
- Applied Thermal Engineering
- Journal of Materials Research and Technology
- Strain
- Surfaces and Interfaces
- Energy Reports
- Biomaterials
- Advances in Civil Engineering Materials
- Journal of Hazardous Materials
- Journal of Civel Engineering and Mangement

- Environment, Development and Sustainability
- New Journal of Chemistry
- Nanoscale
- High Temperature Materials and Processes
- Polymers and Polymer Composites
- Polymers from Renewable Resources
- International Journal of industrial Chemistry
- Karbala International Journal of Modern Science
- Journal of Saudi Society of Agricultural Science
- Trends in Food Science and Technology
- Journal of Molecular Liquids
- Journal of Photochemistry and Photobiology, B: Biology
- Progress in Organic Coatings
- Composite Communications
- Solid State Science
- Composites Science and Technology
- Materials Science for Energy Technologies
- Food Hydrocolloids
- Journal of the Energy Institute
- Energy and Buildings
- Journal of building Engineering
- Ionics

### **Editor**

Guest Editor-IOP Conference Proceeding Series- Materials Science and Engineering "WOBIC-2017"

Guest Editor- Current Organic Synthesis Special Issue Entitle "Polymers and Polymer Composites"

Guest Editor- Current analytical chemistry Special Issue Entitle "Biopolymers and Biocomposites: Chemistry and Technology"

Guest Editor-IJNBM Special Issue entitles " Innovations on Applied Nanotechnology and Nano-materials"

Guest Editor- Special Issues PERTANIKA: "INTROP Research Colloquium 2015 (IRC 2015)"

Editor, Introp Research Colloquium Publication, 1-2 Dec, 2015, RHR Hotel, UNITEN, Putrajaya, Malaysia.

Editor, Proceedings of Postgraduate symposium on biocomposite technology 2015, Biocomposite Technology Laboratory, INTROP, UPM, March 3, 2015

Editor, Proceeding (Science and Engineering Chapter) of Annual International Conference, Syiah Kuala University (AIC UNSYIAH), AAC Dayan Dawood, Darussalam, Banda Aceh, Indonesia, November 29-30, 2011

### **Professional Membership**

Member-Universal Association of Mechanical and Aeronautical Engineers (UAMAE), The IRED, USA

Member-American Oil Chemist Society (AOCS), USA

Life Member-Malaysian Society for Engineering and Technology (MySET)

Professional Member-Society for polymers Engineers (SPE), USA

## Technical Committee

1. International Advisory Committee member of International Conference on Chemical Engineering and Advanced Polymeric Material, to be held at Birla Institute of Technology, Mesra, Ranchi, August 18th to 20th, 2016.
2. International Advisory Committee member of second International Conference on Advances in Mechanical, Materials and Manufacturing Engineering (ICAM2016), Sep 16 - Sep 17, 2016, Chennai, India
3. Member of technical program committee of 2016 Global Conference on Polymer and Composite Materials (PCM 2016) will be held on May 20<sup>th</sup>-23<sup>rd</sup>, 2016, Hangzhou, China.  
<http://www.cpcmconf.org/Committee.html>
4. Member of International committee of International conference on Advancements in polymeric Materials (AMP-2016), Feb 12-16, Ahmedabad, India
5. Co-Chairman-organizing committee- Introp Research Collquium, 1-2 Dec, 2015, RHR Hotel, UNITEN, Putrajaya, Malaysia.
6. Judge of poster evaluation- Introp Research Collquium, 1-2 Dec, 2015, RHR Hotel, UNITEN, Putrajaya, Malaysia.
7. International Program Committee Member of 1<sup>st</sup> International Workshop on Recent Advances on Electrical, Sensors and Transducers Equipments, 22-23 November 2015, Dubai, UAE.  
[http://www.sensorsportal.com/HTML/CONFERENCES/SEIA\\_2015/Committees.htm](http://www.sensorsportal.com/HTML/CONFERENCES/SEIA_2015/Committees.htm)
8. Judge, Research Innovation Symposium & Exposition 2015 (RISE 2015), Dewan Agung Tuanku Canselor, UiTM, 15<sup>th</sup> Nov, 2015, Shah Alam, Selangor, Malaysia
9. Member of technical program committee of 2015 International Workshop on Materials Science and Engineering (IWMSE 2015), August 7-9, 2015, Guangzhou, Guangdong, China.  
<http://www.iwmse2015.org/?op=committee>
10. Member of technical program committee of 2015 International Conference on Advanced Composite Materials (ACM 2015), July 19 to 21, 2015, Shanghai, China. (<http://www.engii.org/ws/CommitteeInfor.aspx?id=622&pid=195>)
11. Member of IERI International Committee of 2015 4th International Conference on Materials Engineering for Advanced Technologies, June 27-28, 2015, London, UK. <http://www.icmeat-conf.net/com.htm>
12. Chairman-Scientific committee-Postgraduate symposium on Biocomposite Technology 2015, UPM, Malaysia, 3<sup>rd</sup> March, 2015
13. Head of Jury of poster evaluation Postgraduate symposium on Biocomposite Technology 2015, UPM, Malaysia, 3<sup>rd</sup> March, 2015
14. Member of technical program committee of 2015 Global Conference on Polymer and Composite Materials (PCM 2015) will be held on 16-18 May, Beijing, China.  
<http://www.cpcmconf.org/#!committee/c15av>
15. Member of International program committee-Chairs of The 3<sup>rd</sup> International Conference on Mechanical Engineering, Material Science and civil Engineering, Oct 25-26, 2014, Phuket Island, Thailand. <http://www.icmemsce.org/comm.html>
16. Member of technical program committee of The 3<sup>rd</sup> Global Conference on Materials Science and Engineering (CMSE 2014) will be held in Shanghai International Exhibition Center during Oct. 20-22th, Shanghai, China. <http://www.cmseconf.org/2014/Committee.html>

17. Member of technical program committee of 2014 Global Conference on Polymer and Composite Materials (PCM 2014) will be held on May 21st ~May 23rd in Ningbo China.  
<http://www.cpcmconf.org/#!/committee/c15av>
18. Member of technical program committee of 2<sup>nd</sup> Global Conference on Material Science and Engineering, November 20-22, 2013, Xianning, Hubei province, Republic of China.
19. Member of technical program committee of 2<sup>nd</sup> International Conference on Kenaf and Allied Fibres (ICKAF), December 3-5, 2013, Hotel Equatorial, Bangi-Putrajaya, Malaysia
20. Head of Jury of poster evaluation in 2<sup>nd</sup> International Conference on Kenaf and Allied Fibres (ICKAF), December 3-5, 2013, Hotel Equatorial, Bangi-Putrajaya, Malaysia.

#### **Visiting Professor**

Visiting Professor, Department of Chemical Engineering, College of Engineering, King Saud University, Saudi Arabia since 16<sup>th</sup> June 2013

#### **References**

1. **Ir. Dr. Mohamed Thariq Hameed Sultan**  
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