

CURRICULUM VITAE



A. Personal Details			
<i>Full Name</i> Ferial Ghaemi	<i>Title:</i> Dr.	<i>Gender</i> Female	<i>Date of Birth</i> 29th March 1983
<i>Passport No.</i> 195757463	<i>Citizenship</i> Iranian	<i>Race</i> Persian	<i>Mastered Language</i> English
<i>Designation</i> Ph.D. of Nanotechnology			

Current Address	Department/Faculty	E-mail Address and URL
A-5-6, Springville residence, Dr. George Lim Ah Soo, Taman Equine, 43300 Seri kembangan, Selangor, Malaysia Tel: +60389572944	Laboratory of Biopolymer and Derivatives (BADs), Institute of Tropical Forestry and Forest Products (INTROP), Universiti Putra Malaysia 43400 UPM Serdang Selangor, Malaysia	E-mail: ferialghaemi@yahoo.com H/P: +6017-765 1425

B. Academic Qualification			
<i>Certificate / Qualification obtained</i>	<i>Name of School / Institution</i>	<i>Year obtained</i>	<i>Area of Specialization</i>
Ph.D.	Universiti Putra Malaysia	2015	Nanotechnology
M.Sc.	Ferdowsi University, Mashhad, Iran.	2011	Analytical Chemistry
B.Sc.	Ferdowsi University, Mashhad, Iran.	2007	Pure Chemistry

C. Main Courses					
Ph.D.	Research Methodology in Chemistry	Recent Advances in Chemical Research	Spectroscopy		
M.Sc.	Advanced Inorganic chemistry	Advanced Organic chemistry	Advanced Analytical chemistry	Analytical Electrochemistry	Physical, chemical separation methods
	New subject in Analytical	Analytical Spectroscopy	Analytical Spectroscopy		

	Chemistry	I	II		
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D. Research experiences	
Qualification obtained	Title of thesis
Ph.D.	Synthesis of different types of carbon nanostructures (CNF, CNT, Graphene, and also CNF-G and CNT-G) on carbon fiber and their application as reinforcement fillers in polypropylene composite
M.Sc.	Sol-gel method for the manufacture of various fibers in the solid phase microextraction for the separation and measurement Poly cyclic aromatic hydrocarbons (PAHs) in saffron sample with gas chromatography and flame ionization detector

G. List of publications	
Published Papers	<p>26. Ferial Ghaemi, Luqman Chuah Abdullah, Hanieh Kargarzadeh, Mahnaz M. Abdi, Nur Farhana Waheeda Mohd Azli, and Maryam Abbasian. "Comparative Study of the Electrochemical, Biomedical, and Thermal Properties of Natural and Synthetic Nanomaterials." <i>Nanoscale research letters</i> 13, no. 1 (2018): 112. IF:3.125, Q1,</p> <p>25. Mohd Nor Faiz Norraahim, Hidayah Ariffin, Tengku Arisyah Tengku Yasim-Anuar, Ferial Ghaemi, Mohd Ali Hassan, Nor Azowa Ibrahim, Janet Lim Hong Ngee, and Wan Md Zin Wan Yunus. "Superheated steam pretreatment of cellulose affects its electrospinnability for microfibrillated cellulose production." <i>Cellulose</i> 25, no. 7 (2018): 3853-3859. IF:3.809, Q1</p> <p>24. Ferial Ghaemi, and Luqman Chuah Abdullah. "Comparative study of cytotoxicity effect between cellulose nanocrystal and cellulose nanofiber." <i>Advances in Nanobiotechnology</i> 1, no. 1 (2018): 1-3. (EBSCO)</p> <p>23. Sajjad Abbasi, Ali Sarafraz-Yazdi, Amirhassan Amiri, and Ferial Ghaemi. "Development of novel magnetic solid-phase extraction sorbent based on Fe₃O₄/carbon nanosphere/polypyrrole composite and their application to the enrichment of polycyclic aromatic hydrocarbons from water samples prior to GC-FID analysis." <i>Journal of the Iranian Chemical Society</i> 15, no. 1 (2018): 153-161. IF:1.593, Q3</p> <p>22. Ferial Ghaemi, Luqman Chuah Abdullah, Nik Mohd Afizan Nik Abd. Rahman, Syed Umar Faruq Syed Najmuddin, Mahnaz M. Abdi, Hidayah Ariffin, Graphene flake and graphene sheet: A Synthesis and a comparative study on their thermal, electrochemical and cytotoxicity properties, <i>Research on Chemical Intermediates</i>, 2017, IF:1.833, Q2.</p> <p>21. Ferial Ghaemi, Luqman Chuah Abdullah, Hanieh Kargarzadeh, Mahnaz M. Abdi, Nur Farhana Waheeda, Comparison of the electrochemical, biomedical and thermal properties between natural and synthetics nanomaterials, <i>Nanomaterials</i>, 2017, IF: 3.553, Q1</p> <p>20. Amiri, Amirhassan, and Ferial Ghaemi. Microextraction in packed syringe by using a three-dimensional carbon nanotube/carbon nanofiber-graphene nanostructure coupled to dispersive liquid-liquid microextraction for the determination of phthalate esters in water samples. <i>Microchimica Acta</i> (2017): 1-</p>

8, **IF: 4.831, Q1.**

19. Ahmadian, F. Ismail, S. Salahshour, D. Baleanu, **F. Ghaemi**, Uncertain viscoelastic models with fractional order: A new spectral tau method to study the numerical simulations of the solution, *Communications in Nonlinear Science and Numerical Simulation*, 2017, **IF: 2.834, Q1**

18. **Ferial Ghaemi**, Luqman Chuah Abdullah, Paridah Md Tahir, Natural and synthetics nanomaterials: comparative study on their mechanical and thermal properties as nanofiller in polymer composite, *Journal of physics: conference series*, 2017, **Scopus Index**.

17. Amirhassan Amiri, **Ferial Ghaemi**, Carbon nanospheres covalently modified with polydimethylsiloxane on a porous sol-gel support for use in headspace solid-phase fiber microextraction of BTEX, *Microchimica Acta*, 2017, **IF: 4.831, Q1**

16. **Ferial Ghaemi**, Luqman Chuah Abdullah, Paridah Md Tahir, Synthesis of different layers of Graphene and Graphite on stainless steel using the CVD method, *Nanoscale Research Letters*, 2016, **IF: 2.584, Q1**

15. 1. **Ferial Ghaemi**, Paridah Md Tahir, Luqman Chuah b. Abdullah, Core/shell structure of Ni/NiO encapsulated in carbon nanosphere coated with few- and multi-layered graphene: Synthesis, Mechanism and Application, *Polymers*, 2016, **IF: 2.944, Q1**

14. Mostafa Rezvani-Eivari, Amirhassan Amiri, Mehdi Baghayeri, **Ferial Ghaemi**, Magnetized graphene layers synthesized on the carbon nanofibers as novel adsorbent for the extraction of polycyclic aromatic hydrocarbons from environmental water samples, *Journal of Chromatography A*, 2016, **IF: 3.92, Q1**

13. Amirhassan Amiri, **Ferial Ghaemi**, Thermally stable carbon nanofibers functionalized with poly(dimethylsiloxane) for solid-phase microextraction of polycyclic aromatic hydrocarbons prior to GC analysis, *Microchimica Acta*, 2016, **IF: 3.74, Q1**

12. **Ferial Ghaemi**, Ali Ahmadian, Robiah Yunus, Fudziah Ismail, Saeed Rahmanian, Effects of Thickness and Amount of Carbon Nanofiber Coated Carbon Fiber on Improving the Mechanical Properties of Nanocomposites, *Nanomaterials* **2016**, 6(1), 6, **IF: 3.553, Q1**

11. **Ferial Ghaemi**, Robiah Yunus, Lina Jassim, Ali Ahmadian, Fudziah Ismail, Synthesis of Carbon Nanotube-Carbon Nanosphere on the CF Surface by CVD, *Advanced Materials Research (Trans Tech Publications, Switzerland)*, 1134 (2015), 209-212. **EBSCO indexed**.

10. Ali Ahmadian¹, Fudziah Ismail, Nurazak Senu, Soheil Salahshour, **Ferial Ghaemi**, An Efficient Numerical Simulation for a Fuzzy Kinetic Model Arising in Palm Oil, *Advanced Materials Research (Trans Tech Publications, Switzerland)*, 1134 (2015), 191-197. **EBSCO indexed**.

9. **Ferial Ghaemi**, Robiah Yunus, Mohamad Amran Mohd Sallehh, Suraya Abdul Rashid, Ali Ahmadian, Fudziah Ismail, Few- and Multi-Layer Graphenes on Carbon fiber: Synthesis and Application, *RSC Advances*, **2015**, 5, 81266-81274, **IF: 3.84, Q1**

8. Ali Sarafraz Yazdi, Talat Rokhian, Amirhassan Amiri, **Ferial Ghaemi**, Carbon nanofibers decorated with magnetic nanoparticles as a new sorbent for the

	<p>magnetic solid phase extraction of selected polycyclic aromatic hydrocarbons from water samples, <i>New Journal of chemistry</i>, 39 (2015), 5621-5627, IF: 3.08, Q2</p> <p>7. Ferial Ghaemi, Robiah Yunus, Amran Mohamad Mohd Salleh, Suraya Abdul Rashid, Ali Ahmadian and Hong Ngee Lim, Effects of the surface modification of carbon fiber by growing different types of carbon nanomaterials on the mechanical and thermal properties of polypropylene, <i>RSC Advances</i> 5(2015), 28822-28831, IF: 3.84, Q1</p> <p>6. Ferial Ghaemi, Ali Ahmadian, Robiah Yunus, Mohamad Amran Mohd Salleh, Norazak Senu, Synthesis of Graphene flakes on branched carbon nanofibers grown on carbon fiber by CVD to improve polypropylene properties, <i>RSC Advances</i>, 5(2015), 9925-9932. IF: 3.84, Q1</p> <p>5. Lina Jassim, Robiah Yunus, Umer Rashid, Suraya Abdul Rashid, M. Amran Salleh, Sonny Irawan, Ferial Ghaemi, Synthesis and Optimization of 2-ethylhexyl Ester as Base Oil for Drilling Fluid Formulation, <i>Chemical Engineering Communications</i>, 203 (4), 2015, 463-470, IF:1.104, Q3</p> <p>4. Ferial Ghaemi, Robiah Yunus, Mohamad Amran Mohd Salleh, Lim Hong Ngee, Suraya Abdul Rashid, Bulk Production of High-Purity Carbon Nanospheres by a Novel Continuous Process, <i>Fullerenes, Nanotubes and Carbon Nanostructures</i>, 23(2015), 669-675, IF:0.83, Q4</p> <p>3. Ferial Ghaemi, Robiah Yunus, Amirhassan Amiri, Different methods for coating the carbon nanotubes on the solid-phase microextraction fibers, <i>Trends in Analytical Chemistry</i> 59 (2014) 133–143, (Elsevier publisher), IF: 6.472, Q1</p> <p>2. Ferial Ghaemi, Robiah Yunus, Ali Ahmadian, Soheil Salahshour, Mohamed Suleiman, and Shanti Faridah Saleh, Application of Fuzzy Fractional Kinetic Equations to Modelling of the Acid Hydrolysis Reaction, <i>Abstract and Applied Analysis</i>, vol. 2013, pp. 1–19, IF: 1.27, Q1</p> <p>1. Ali Sarafraz-Yazdi, Ferial Ghaemi, Amirhassan Amiri, Comparative study of the sol–gel based solid phase microextraction fibers in extraction of naphthalene, fluorene, anthracene and phenanthrene from saffron samples extractants, <i>Microchim Acta</i> (2012) 176:317–325, IF: 3.72, Q1</p>
Chapter in book	<ol style="list-style-type: none"> 1. Ali Ahmadian, Mohamed Suleiman, Fudziah Ismail, Soheil Salahshour, and Ferial Ghaemi. A Runge-Kutta Method with Lower Function Evaluations for Solving Hybrid Fuzzy Differential Equations. <i>ACIIDS</i> 1, volume 7802 of Lecture Notes in Computer Science, page 265-274. Springer, (2013). 2. Ferial Ghaemi, Raja Nor Izawati Raja Othman, Robiah Yunus, Synthesis of carbon nanomaterials using chemical vapor deposition technique. Elsevier publisher, 2018. 3. Ferial Ghaemi*, Luqman Chuah Abdullah, Hidayah Ariffin, LIGNOCELLULOSE STRUCTURE AND THE EFFECT ON NANOCELLULOSE PRODUCTION, Elsevier.

H. CONFERENCES, SEMINARS and WORKSHOPS proceeding

Presenting	<ol style="list-style-type: none"> 1. International symposium on advanced materials and nanotechnology (i-SAMN2018), 15, 16 August 2018, Malaysia, Synthesis of metal organic framework (MOF-199) coated with cellulose nanocrystal. 2. Wood and Biofiber International Conference 2017 (WOBIC 2017), 21-23 November, Malaysia 3. The 8th International Conference on mechanical and Manufacturing Engineering (ICME), 22-23 July 2017, Langkawi, Malaysia Natural and synthetics nanomaterials: comparative study on their mechanical and thermal properties as nanofiller in polymer composite. 4. Advanced Materials Conference (AMC 2016), 28-29 November 2016, Langkawi, Malaysia. 5. International Conference on Applied Sciences & Industrial Technology 2015, 25-26 February 2015, Port Dickson, Malaysia. 6. International Conference on Applied Sciences & Industrial Technology 2015, 25-26 February 2015, Port Dickson, Malaysia. 7. Workshop on Advanced Materials and Nanotechnology 2014 (WAMN 2014), 25-26 August 2014, Universiti Putra Malaysia (UPM). 8. The 5th ASIAN CONFERENCE ON INTELIGENT INFORMATION AND DATABASE SYSTEMS, 18-20 March 2013, Kuala Lumpur, Malaysia. 9. 18th Iranian Seminars of Analytical Chemistry, University of Sistan and baluchestan, Zahedan, Iran, 18-20 May 2011, Comparative study of the sol-gel based solid phase microextraction fibers in extraction of PAHs from saffron samples using gas chromatography–flame ionization detection 10. 15th Iranian Chemistry Congress (ICC 2011), Bu-Ali Sina University, Hamedan, Iran, 4-6 sep.2011, Determination of PAHs from saffron samples with solid phase microextraction fiber based on sol–gel technique using gas chromatography-flame ionization detection
Organizing Conference/ workshop	<ul style="list-style-type: none"> • Workshop of Nanocellulous: Fundamental to Applications, 21-22 March 2016, INTROP, UPM, Malaysia. • Appointment as a member of organizing committee WOBIC 2017

I. CONFERENCES/ SEMINARS and WORKSHOPS attendance

Conference	<ol style="list-style-type: none"> 1. The 3rd International Conference on Mathematical Application in Engineering 2014, 23-25 September 2014, Sunway Putra Hotel, Kuala Lumpur. 2. International Conference on Mathematics, Statistics, and Financial Mathematics 2014 (ICMSFM 2014), 18-19 November 2014, Center of Mathematical Sciences, Universiti Tunku Abdul Rahman, Malaysia.
Seminars	<ol style="list-style-type: none"> 1. The Regional Fundamental Science Congress 2014, 19-20 August 2014, Universiti Putra Malaysia (UPM). 2. Seminar and Workshop on Numerical Analysis (SAWONA 2013), 23-24 April 2013, Universiti Putra Malaysia. 3. UKM-FLINDERS Nanotechnology Summer School 2013 (NSS 2013), 24-27

	<p>June 2013, Universiti Kebangsaan Malaysia (UKM).</p> <p>4. Iranian Elite Talks, 17 February 2015, Universiti Putra Malaysia.</p> <p>5. Malaysian Polymer International Conference 2015, 10-11 Jun 2015, Palm Garden Hotel, IOI resort, Putrajaya, Malaysia</p> <p>6. 2nd International Conference on Mathematical, Sciences and Statistics (ICMSS2016), January 2016, Kuala Lumpur, Malaysia. AIP Proceeding.</p>
Workshop	<p>1. Workshop on Advanced Materials and Nanotechnology 2013 (WAMN 2013), 10-11 September 2013, Universiti Putra Malaysia (UPM).</p> <p>2. Fuzzy Setting Theory, 11-12 February 2015, Department of Mathematics, Universiti Putra Malaysia.</p> <p>3. Publishing in Q1 Journals Workshop, 7-8 April 2015, IEEE section Malaysia.</p> <p>4. 2nd Asia computational materials design (CMD) workshop Malaysia 2017, 9-11 May 2017, UKM, Malaysia</p>

E. Referee in peer-reviewed journals and conferences and international funds

- IEEE Transaction on Nanotechnology, (IEEE), (ISI).
- Microchemical Journal (Elsevier, ISI)
- Recent Patents on Drug Delivery & Formulation
- Journal of King Saud University-Science (Elsevier, SCOPUS)
- Sensors (MDPI, ISI)
- Journal of Chemical Engineering And Bioanalytical Chemistry (SIFT DESK, Scopus)
- Current Biotechnology (benthamscience, EBSCO)
- WOBIC PROCEEDING IOP conference serious
- Poster Judgment at Wood and Biofiber International Conference 2017 (WOBIC 2017), 21- 23 November
- Evaluate for grant Proposal for the national science center, Poland

E. Employment

Employer	Designation	Department	Subject	Start date	Date ended
Universiti Putra Malaysia (UPM)	Postdoctoral research fellowship	Institute of Tropical Forestry and Forest Products (INTROP),	Nanotechnology, synthesis of bioresin, nanocellulose and their application in composite	Feb 2016	Present
University of Malaya (UM)	Research Assistant	Department of Biomedical Engineering	Modeling, control and experimental work for CO ₂ capture	Nov 2015	Feb 2016

			in living fluid purification process		
Universiti Putra Malaysia (UPM)	Consultant Project	Department of Chemical and Environmental Engineering, Faculty of Engineering	Development technology of coating urea by rotary pan	Sep 2015	Nov 2015
Universiti Putra Malaysia (UPM)	Teaching Assistant and Lab Demonstrator	Department of Chemical and Environmental Engineering, Faculty of Engineering	Final Year Project	Sep 2013	Jun 2015

F. Honors and Awards

Name of Award	Award authority	Award Type	Year
Graduate Research Assistant Scholarship (GRA)	<i>Institute of Advanced Technology (ITMA)</i>	Academic Award	Jun 2013 – Jun 2015
Invention and Research Exhibition (PRPI)	<i>UPM</i>	Gold Medal	2016
Invention and Research Exhibition (PRPI)	<i>UPM</i>	Silver medal	2016
International IID Johor bahru 2017 (IIID 2017)	<i>UiTM</i>	Silver Medal	2017
International IID Johor bahru 2017 (IIID 2017)	<i>UiTM</i>	Bronze Medal	2017
International Innovation, Invention and Articulation Competition 2018 (i-IDEA 2018)	<i>Universiti Teknologi MARA Perlis Branch</i>	Bronze Medal	2018

K. Research Project

Project No.	Project Title	Role	Year	Source of fund	Status
1	Investigation of synthesis method for growing nanographene- carbon nanofiber on carbon fiber as reinforcement material in polymer composites	Co-researcher	2013-2015	ERGS RM 125,000.00	Finished
2	Spherical nanocellulose-nanosilver hybrid: Synthesis, cytotoxicity effects and mathematical simulation of the	Co-researcher	2017-2019	University RM 280,000.0	On going

3	governing pharmacokinetics pharmacodynamic (PKPD) models for the optimization of drug delivery system Investigation of nanocellulose preparation by use of chemical hydrolysis and mechanical treatment techniques composed with nanosilver arising in removal of heavy metals, dyes and microbial agents from wastewater samples	Co-researcher	2018-2020	0 FRGS RM 117,800.0 0	Submitted
4	Different morphologies of nanomaterial in water treatment application, submitted	Co-researcher	2018-2020	International (TWAS) \$ 8,765	Submitted

J. Skilled In	
<i>Subjects</i>	<ol style="list-style-type: none"> 1. Microsoft Office 2. Project designer 3. Multidisciplinary Research (Nanotechnology, Chemistry, Mechanical Engineering, Mathematics) 4. Teamwork 5. Analyzing and evaluating of results by use of analyzers including: <ul style="list-style-type: none"> • Electron microscopes (SEM, FESEM, TEM, HRTEM) • Raman spectroscopy • X-ray diffraction analyzer (XRD) • Energy dispersion X-ray (EDX) • Thermogravimetric analysis (TGA) • Mechanical test (tensile test, impact test, ...) • BET surface area analyzer • Gas chromatography (GC) • High performance liquid chromatography (HPLC) • Atomic Adsorption Spectrometer (AAS) • IR, FTIR

	<ul style="list-style-type: none"> • NMR • UV-Vis spectrometer
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L. References					
<i>Name</i>	<i>Title</i>	<i>Role</i>	<i>H/P</i>	<i>Email</i>	<i>Status</i>
<i>Paridah Md Tahir</i>	Prof.	Director of INTROP	+6013-2093195	parida.introp@gmail.com	Professor
<i>Luqman Chuah Abdullah</i>	Prof.	Postdoc's Supervisor	+6012-5178150	luqmanchuah@gmail.com	Professor
<i>Robiah Yunus</i>	Prof.	PhD's Supervisor	+6012-2306009	robiah@upm.edu.my	Professor