

WAN MOHD ASYRAF BIN WAN MAHMOOD

Lot 107, Jalan Desa Impian 2, Taman Desa Impian, 43000, Kajang, Selangor.

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[RG](#) : 11.22 [111 citation]

[H-index Google Scholar](#) : 4 [111 citation]

**Research interest**

My current research is centred around the green and analytical chemistry with the use of green solvents for the extraction of beneficial bioactive compounds from biomass, mainly microalgae. I am interested in exploring the use of biomasses in creating a more sustainable biorefineries process. My area of expertise is Analytical Chemistry and Organic Chemistry.

Work and research experience

Year	Work/ Research Experiences
2020 – current	• Senior Lecturer (DS51), Universiti Teknologi Malaysia (UTM)
2019 – 2020	• Analytical Chemist, Oro Clean Chemie Sdn. Bhd.
2016 – 2019	• Research assistant to the Bioprocess and Bioengineering Group Supervisor: Dr. Maria Gonzalez- Miquel and Prof Constantinos Theodoropoulos, The University of Manchester, UK
	• Lab Supervisor for MSc Advanced Chemical Engineering 2017
2015	• Research assistant to the Leigh Group (catenane.net) Supervisor: Professor David Leigh and Tugrul Nalbantoglu, The University of Manchester, UK
2014	• Research Assistant Supervisor: Puan Rumiza binti Abd. Rashid, UiTM Shah Alam, Malaysia

Education

Year	Level	Institution	Qualification
2016 – 2020	Doctoral	The University of Manchester, UK	PhD Industrial Chemistry
2014 – 2015	Master	The University of Manchester, UK	MSc Chemistry GPA: 70.17%
2011 – 2014	Bachelor's degree	Universiti Teknologi Mara (UiTM), Malaysia	BSc. (Hons) Chemistry (Forensic Analysis) CGPA: 3.84
2008 – 2011	Diploma	Universiti Teknologi Mara (UiTM), Malaysia	Diploma in Microbiology CGPA: 3.65

Publications

Year	Publications
2021	<ul style="list-style-type: none"> Amin, N.A.A.M.; Mokhter, M.A.; Salamun, N.; Wan Mahmood, W.M.A. Phosphate Adsorption from Aqueous Solution Using Electrospun Cellulose Acetate Nanofiber Membrane Modified with Graphene Oxide/Sodium Dodecyl Sulphate. <i>Membranes</i> 2021, <i>11</i>, 546 [Q1, IF=4.106]. Wan M. Asyraf Wan Mahmood, Constantinos Theodoropoulos, Maria Gonzalez-Miquel. (2019). Sustainable microalgal biofuel production from <i>Chlorella vulgaris</i> and <i>Nannochloropsis</i> sp. using renewable terpenic solvents. <i>Bioresource Technology</i>. Submitted January 2021.
2019	<ul style="list-style-type: none"> Gonzalo Figueroa-Torres, Wan M. Asyraf Wan Mahmood, Jon Pittman, Constantinos Theodoropoulos. Microalgal Biomass as a Biorefinery Platform for Biobutanol and Biodiesel Production. <i>Biochemical Engineering Journal</i>. Wan M. Asyraf Wan Mahmood, Constantinos Theodoropoulos, Maria Gonzalez-Miquel. (2019). Polyol-based deep eutectic solvents for extraction of natural polyphenolic antioxidants from <i>Chlorella vulgaris</i>. <i>ACS Sustainable Chemistry and Engineering</i>. <i>7</i>, 5, 5018-5026. [Q1, IF=6.14]
2017	<ul style="list-style-type: none"> Wan M. Asyraf Wan Mahmood, Constantinos Theodoropoulos, Maria Gonzalez-Miquel. (2017). Enhanced microalgal lipid extraction using bio-based solvents for sustainable biofuel production. <i>Green Chemistry</i>. 19. 5723-5733. [Q1, IF=9.125]
2015	<ul style="list-style-type: none"> Wan Mohd Asyraf, W.M., Almie Amira, M.K., Siti Aisyah, S., Nurul Syahnidz Adila, Z., Khairulmazidah, M., and Rumiza, A.R. (2015). Paraquat dichloride detection from forensic blowfly samples. <i>Malaysian Applied Biology</i>. 44(1). 133-138. [SCOPUS] Almie Amira, M.K., Wan Mohd Asyraf, W.M., Siti Aisyah, S., Nurul Syahnidz Adila, Z., Khairulmazidah, M., and Rumiza, A.R., (2015). Analysis of paracetamol in forensic blowfly samples from paracetamol-intoxicated carcasses. <i>Malaysian Applied Biology</i>. 44(1). 31-35. [SCOPUS]

Professional Membership

Year	Memberships
2021	<ul style="list-style-type: none"> American Chemical Society, Member ANALIS, Member
2019	<ul style="list-style-type: none"> Royal Society of Chemistry, Associate Member.

Taught modules

Year	Modules
Semester 2 2020/2021	<ul style="list-style-type: none">• SSCK 1203 Analytical Chemistry for Engineering• SSCC 2861 Analytical Chemistry Practical I• SSCK 1831 Organic Chemistry for Engineering Practical• MSCN 1853 Forensic Practical
Semester 1 2020/2021	<ul style="list-style-type: none">• MSCN 1853 Forensic Practical• SSCC 3233 Instrumental Analysis

Conferences/ Symposiums/ Seminars

Year	Conferences/Symposium/Seminar
2021	<ul style="list-style-type: none">• International Conference of Science and Technology (ICreST 2021), June 2021 [O]
2018	<ul style="list-style-type: none">• Chemical Engineering and Analytical Sciences Showcase 2018, October 2018, The University of Manchester, UK [P]• 8th IUPAC International Conference on Green Chemistry, September 2018, Bangkok, Thailand [O]• Bright Spark Symposium, September 2018, The University of Manchester, UK [P]• Chemical Engineering and Analytical Science Postgraduate Conference, May 2018, Manchester Institute of Biotechnology, The University of Manchester, UK [O]• Center for Process Integration Seminar, January 2018, The University of Manchester, UK [O]
2017	<ul style="list-style-type: none">• 10th World Congress of Chemical Engineering, October 2017, Barcelona, Spain [P]• Chemical Engineering and Analytical Sciences Showcase 2017, October 2017, The University of Manchester, UK [P]• Bright Spark Symposium, September 2017, The University of Bath, UK [O, P]• 8th International Conference on Green and Sustainable Chemistry, July 2017, Melbourne, Australia [P]• Chemical Engineering and Analytical Science Postgraduate Conference, May 2017, Manchester Institute of Biotechnology, The University of Manchester, UK [P]• Chemical Engineering Day 2017, March 2017, The University of Birmingham, UK [O, P]• Center for Process Integration Seminar, March 2017, The University of Manchester, UK [O, P]
2016	<ul style="list-style-type: none">• Chemical Engineering and Analytical Science Postgraduate Conference, May 2016, James Chadwick Building, The University of Manchester, UK [P]

2014	<ul style="list-style-type: none"> The 13th Symposium Malaysian Society of Applied Biology, 8-10 June 2014, The Legend Resort Cherating, Pahang, Malaysia [P]
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* [O] Oral [P] Poster

Trainings

Year	Training
2021	<ul style="list-style-type: none"> Chemical Data Analysis, Universiti Teknologi Malaysia, UTM
2017	<ul style="list-style-type: none"> Solvent Selection and Substitution, University of York, UK, August
2016	<ul style="list-style-type: none"> COSMO-RS, University of Regensburg, Germany, September

Awards/ Honors/ Prizes

Year	Awards/Honors/Prizes
2021	<ul style="list-style-type: none"> Best Presenter Award, Track Physical Sciences, ICReST 2021
2018	<ul style="list-style-type: none"> Student Scholarship for the 8th IUPAC International Conference on Green Chemistry, Bangkok, Thailand
2014	<ul style="list-style-type: none"> Silver Medal IDEX 2014, UiTM Shah Alam “ASH: From Waste to Criminal Investigation Tool” Bronze Medal IDEX 2014, UiTM Shah Alam “Blowfly Maggots as the Physical Evidence for Forensic Cases” BSc (Hons) Chemistry (Forensic Analysis), Vice Chancellor and Best Student Award, 81st UiTM Convocation.
2011-2013	BSc (Hons) Chemistry (Forensic Analysis) : Dean’s List Awards
2008-2011	Diploma in Microbiology: Dean’s List Awards

References

- Name :** Dr. Maria Gonzalez-Miquel
Contact : +34659845860
Email : maria.gonzalezmiquel@manchester.ac.uk
- Name :** Puan Rumiza binti Abd. Rashid
Contact : +60196943080
Email : rumiza.rashid@gmail.com