



A versatile and avid **lecturer and researcher** with synergistic fundamental science and engineering background. Well-experienced in polymer formulation, experimental design & testing, and the front-end quality of industrial polymer-based products. Passionate about organising and making scrutinised plans for projects and yielding high quality output.

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Research Interests, Skill Highlights & Analytical Instrument

- Polymer Lattices
- Polymer Formulation
- Surfaces and Interfaces
- Soft Matter and Colloid Science
- MS ISO 17025 Accredited Mechanical Testing
- Project Management
- LaTeX and Autocad
- Confocal and Optical Microscopies
- Scanning Electron Microscopy
- Electrical Conductivity
- Electrophoresis (Zetasizer)
- Viscometry
- Surface Tension & Drop Shape Analysers
- Thermogravimetric Analysis
- Mechanical Testing

Affiliation

- Board of Engineers Malaysia
- Royal Society of Chemistry, UK
- Society of Chemical Industries, UK
- Chartered Institute of Waste Management, UK

Education

- **Doctor of Philosophy (Ph.D) in Physical Chemistry (Soft Matter Science)**, University of Bristol, United Kingdom 2019
- **Master of Science (M.Sc) in Polymer Engineering (Polymer Composites)**, Universiti Sains Malaysia 2014
- **Bachelor of Engineering with Honours (Polymer)**, Universiti Sains Malaysia, 2012

Recognition

- **Keynote Speaker**, European Colloid and Interface Society (ECIS) 2018, Slovenia, Ljubljana
- **Invited Speaker**, SCI Casting Dispersion 2018, SCI London, United Kingdom
- **Winner**, Materials Lecture Competition 2012, Kuala Lumpur, Malaysia
- **Silver Medalist**, National Research Innovation Competition (NRIC) USM, 2012, Penang, Malaysia
- **Top Three**, Berita Harian's Varsity Icon 2012 for Technology and Agro, Kuala Lumpur, Malaysia

Experience

- **Lecturer and Researcher**, Universiti Sains Malaysia, 2019-Present
- **Project/ Process Engineer**, Polyplas Sdn. Bhd., 2014
- **R&D Intern**, PolyGlass Fiber Sdn. Bhd., 2010

Publication

- **Shafiq, M. D.**, Waggett, F., Norris, E., & Bartlett, P. (2020). Corrigendum to "Droplet evaporation: Colloidal interactions vs. evaporation kinetics" [578 (2019) Article number 123555]. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, 590, 124370.
- Waggett, Franceska, **Mohamad Shafiq**, and Paul Bartlett. "Failure of Debye-Hückel Screening in Low-Charge Colloidal Suspensions." *Colloids and Interfaces* 2.4 (2018): 51.
- **Suhaimi, M.D.S.M.** and Ismail, H., 2014. Properties of rubber seed shell flour-filled polypropylene composites: The effect of poly (ethylene co-acrylic acid). *BioResources*, 9(4), pp.7311-7325.
- Ismail, H. and **Shafiq, M.D.**, 2016. The comparison of properties of (rubber tree seed shell flour)-filled polypropylene and high-density polyethylene composites. *Journal of Vinyl and Additive Technology*, 22(2), pp.91-99.