

Hadi Nur | Curriculum Vitae

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January 14, 2022

Hadi Nur | Professor and Institute Director of Ibnu Sina Institute for Scientific and Industrial Research, Universiti Teknologi Malaysia (UTM), Johor, Malaysia (until 31 May 2022) | Professor at Universitas Negeri Malang (UM), Indonesia (will be active on 1 June 2022) | e-mail: hadinur@hadinur.net | personal website: <https://hadinur.net> | website of institute: <https://ibnusina.utm.my>



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Personal Details

- Place and date of birth: Bukittinggi, 6 May 1969
- Gender: Male
- Nationality: Indonesian
- Marital status: Married – 3 children
- Expertise: Materials chemistry and heterogeneous catalysis

Education

- **1995–1998** | Ph.D. in Chemistry, Universiti Teknologi Malaysia. Thesis: Tailoring of novel metal-substituted $\text{AlPO}_4\text{-5}$ molecular sieves as potential catalysts for conversion of alcohols.
- **1993–1995** | Magister Teknik (M.T.), equivalent to M.Eng., in Materials Science and Engineering (Cum Laude), Institut Teknologi Bandung, Indonesia. Thesis: Synthesis of hydroxylapatite bioceramics by means of precipitation and its characterization.
- **1987–1992** | Sarjana Sains (S.Si.), equivalent to B.Sc., in Chemistry, Institut Teknologi Bandung, Indonesia. Thesis: Comparative study on the determination of selenium in human blood by neutron activation analysis and atomic absorption spectrometry.

Research Interest

Advanced materials and heterogeneous catalysts. Research activities involve the integration of materials science, heterogeneous catalysis, fuel cell science and engineering in order to develop and characterize new materials for use in emerging technologies.

Postdoctoral Fellowship

- **2001–2002** | COE (Center of Excellent) Visiting Researcher, Laboratory of Catalytic Reaction Chemistry, Catalysis Research Center, Hokkaido University, Japan
- **1999–2001** | JSPS (Japan Society for the Promotion of Science) Postdoctoral Fellow, Laboratory of Catalytic Reaction Chemistry, Catalysis Research Center, Hokkaido University, Japan
- **1998–1999** | Postdoctoral Fellow, Department of Chemistry, Universiti Teknologi Malaysia

Academic, Administrative and Research Positions

- **2022–** | Professor, Department of Chemistry, Universitas Negeri Malang, Indonesia
- **2018–2022** | Institute Director, Ibnu Sina Institute for Scientific and Industrial Research, Universiti Teknologi Malaysia
- **2017–2021** | Adjunct Professor, Universitas Negeri Malang, Indonesia
- **2015–2019** | Director, Centre for Sustainable Nanomaterials, Universiti Teknologi Malaysia
- **2010–2022** | Professor, Centre for Sustainable Nanomaterials, Ibnu Sina Institute for Scientific and Industrial Research, Universiti Teknologi Malaysia
- **2015** | Visiting Scientist, the Institute for Heterogeneous Materials Systems, Helmholtz-Zentrum Berlin for Materials and Energy, Germany
- **2009–2014** | Head of Catalytic Science and Technology (CST) Research Group, Universiti Teknologi Malaysia
- **2008–2014** | Global Alliance Manager (Region 1 – South East Asia), Universiti Teknologi Malaysia
- **2008–2010** | Associate Professor, Ibnu Sina Institute for Fundamental Science Studies, Universiti Teknologi Malaysia
- **2007–2008** | Senior Lecturer, Ibnu Sina Institute for Fundamental Science Studies, Universiti Teknologi Malaysia
- **2003–2007** | Lecturer, Ibnu Sina Institute for Fundamental Science Studies, Universiti Teknologi Malaysia
- **2002–2003** | Research Officer, Ibnu Sina Institute for Fundamental Science Studies, Universiti Teknologi Malaysia

Membership

- Associate Member of Pertubuhan Akademi Profesor Malaysia (Membership no. AMAPM042) (2020 – present)
- Life Member of Malaysian Analytical Sciences Society (Membership no. L119) (1996 – present)

Honors, Awards and Accomplishments

1. Invited speaker at FB live: The research path organized by American Chemical Society (ACS) UTM International Student Chapter on 17 December 2021.
2. Keynote speaker at International Conference on Madrasah Reform (ICMR) organized by Direktorat Jenderal Pendidikan Islam Kementerian Agama Republik Indonesia on 5-7 December 2021.
3. Keynote speaker at the 5th International Conference on Eco Engineering Development (ICEED) organized by Bina Nusantara University (BINUS) on 17-18 November 2021.
4. Listed as Top 2% World Ranking Scientists published by Baas, Jeroen; Boyack, Kevin; Ioannidis, John P.A. (2021), "August 2021 data-update for "Updated science-wide author databases of standardized citation indicators", Mendeley Data, V3.
5. Keynote speaker at the 2nd International Conference on Renewable Energy (I-CoRE 2021), a joint conference between Ibnu Sina Institute for Scientific and Industrial Research, Universiti Teknologi Malaysia and Centre of Advanced Materials for Renewable Energy, Universitas Negeri Malang, on 7-8 October 2021.
6. Invited speaker at International Collaborative Research Grant, Department of Physics, Universitas Negeri Semarang (UNNES), on 1 October 2021.
7. Universiti Teknologi Malaysia (UTM) Publication Award (Centre of Excellence category), 2021.
8. Keynote speaker at Seminar Nasional, Sains, Terapan dan Pendidikan Kimia organized by Universitas Lambung Mangkurat (ULM) dan Universitas Palangka Raya (UPR), on 4 September 2021.
9. Guest lecture at Ph.D. program, Faculty of Mathematics and Natural Sciences, Universitas Negeri Semarang (UNNES), on 20 August 2021.

10. Invited speaker at General Lecture, Chemical Sciences Programme, School of Distance Education (SDE), Universiti Sains Malaysia, on 20 August 2021.
11. Keynote Speaker at the International Conference of the Indonesian Chemical Society 2021 (ICICS 2021), 11-13 August 2021, Lombok, Indonesia organized by Mataram University and the Indonesian Chemical Society.
12. Invited speaker at General Lecture, Department of Chemistry, Institut Pertanian Bogor (IPB) on 28 July 2021.
13. Frontiers in Chemistry Award 2020: Frontiers in Chemistry Outstanding Associate Editor, Lausanne, Switzerland.
14. Invited speaker at Diaspora Lecture and Workshop Series on 7 and 14 December 2020 organized by Department of Chemistry, Universitas Indonesia.
15. Invited speaker at the 2nd International Conference on Condensed Matters and Advanced Materials on 27 October 2020 organized by Department Physics, Universitas Negeri Malang, Indonesia.
16. Invited speaker at Research Month of Science Faculty, Universiti Teknologi Malaysia on 25 August 2020 organized by Faculty of Science, Universiti Teknologi Malaysia.
17. Keynote speaker at the International Conference on Chemical Science and Technology on 8 September 2020 organized by Universitas Sumatera Utara, Indonesia.
18. Invited speaker at HUMIC online workshop on scientific publication on 5 August 2020 organized by Telkom University, Indonesia.
19. Invited speaker at Webinar Ikatan Zeolit Indonesia, Zeolite Chemistry and Its Industrial Applications on 24 June 2020 organized by Indonesian Zeolite Association.
20. Plenary speaker at the 15th Joint Conference on Chemistry 2020 on 9 September 2020 organized by the consortium of Chemistry Department of five universities in Central Java: Universitas Diponegoro (UNDIP), Universitas Negeri Semarang (UNNES), Universitas Sebelas Maret (UNS), Universitas Jenderal Soedirman (UNSOED) and Universitas Kristen Satya Wacana (UKSW).
21. Universiti Teknologi Malaysia (UTM) Publication Award (Centre of Excellence category), 2020.
22. Universiti Teknologi Malaysia (UTM) Excellent Service Award, 2017 (Anugerah Perkhidmatan Cemerlang UTM Tahun 2017).
23. World Class Professor (WCP), Ministry of Research, Technology and Higher Education, Republic of Indonesia, 15 November 2019.
24. Visiting professor at Universitas Lampung from 22 September to 2 October 2019.
25. Keynote speaker at International Conference on Science Technology and Interdisciplinary Research IC-STAR) on 24 September 2019.
26. Keynote speaker at International Conference on Condensed Matters and Advanced Materials (IC2MAM), Universitas Negeri Malang on 5 September 2018.
27. Keynote speaker at the International Seminar on Chemistry 2018 (ISoC 2018) in Surabaya on 18 – 19 July 2018.
28. Keynote speaker at UNNES Physics International Symposium 2018 on 3 May 2018 in Semarang, Indonesia.
29. Appointed as an Adjunct Professor at Universitas Negeri Malang on 1 February 2017.
30. Keynote speaker at the ASIA International Multidisciplinary Conference (AIMC 2017) at UTM, Johor Bahru on 1 May 2017.
31. Keynote speaker at the 3rd International Seminar on Science and Technology (ISST) 2017 held in Grha Sepuluh Nopember, ITS Campus Sukolilo, Surabaya, Indonesia on 3 August 2017.
32. Invited speaker at the International Conference in Organic Synthesis 2016 (ICOS 2016) held in Kuching, Sarawak on 22 August 2016.
33. Keynote speaker at the 4th International Conference on Advanced Materials Science and Engineering (ICAMST) 2016 held in Malang on 27 September 2016.
34. Keynote speaker at International Seminar on New Paradigm and Innovation of Natural Sciences and its Application (ISNPINSA) held in Semarang 05 October 2016.
35. Keynote speaker at the Conference organized by Faculty of Mathematics and Natural Sciences of Universitas Mulawarman held in Balikpapan on 19 October 2016.
36. Invited speaker at International Seminar on Improve Human Resources in Industry Skill for ASEAN Economic Community, Universitas Riau, 9 April 2016.
37. Invited speaker at Universitas Negeri Malang (UM) on 18 December 2015. My talk is on how the strategy and best practice to improve the quantity and quality of the research at the UM. The rector, vice-rectors, deans, and also professors attended my lecture. organized by Persatuan Pelajar Indonesia, Malaysia, 30 October 2015], at UTM.

38. Keynote speakers at The International Conference on Mathematics, Science, Education, and Technology which is held in Padang, Indonesia on 22 October 2015.
39. Keynote speaker at the 2015 International Conference on Advanced Materials Science and Technology which is held in Semarang, Indonesia from 6 to 7 October 2015.
40. Keynote speakers at the International Conference on Conservation for Better Life which is held in Semarang, Indonesia from 11 to 13 September 2015.
41. Keynote speaker at the 1st International Conference on Science, Technology, and Interdisciplinary Research (IC-STAR) 2015 which is held in Bandar Lampung, Indonesia from 21 to 23 September 2015.
42. Invited speaker to deliver a lecture on Management and governance of university at Universitas Muhammadiyah Sumatera Barat (UMSB), 29 May 2015.
43. Invited speaker to deliver a lecture on scientific research and publication at Department of Chemistry, Universitas Negeri Padang (UNP), 29 May 2015.
44. Keynote speaker at Seminar Nasional Kimia dan Pendidikan Kimia at Universitas Negeri Sebelas Maret (UNS) which was held in Surakarta, 18 April 2015.
45. Keynote speaker at the 2nd International Renewable and Sustainable Energy Conference (IRSEC' 14), 17-19 October 2014, Ouarzazate, Morocco.
46. Keynote speaker at 2nd ICONES (International Conference on Natural and Environmental Science), Darussalam, Indonesia 9-11 September 2014. This seminar was organized by the Faculty of Mathematics and Natural Sciences, Syiah Kuala University.
47. Invited speaker in science talk and laboratory demonstration, Ibnu Sina Institute for Fundamental Science Studies, Universiti Teknologi Malaysia, 18 August 2014.
48. Keynote speaker at the 1st Academic Symposium on Integrating Knowledge (ASIK) held at Universitas Islam Negeri Alauddin, Makassar from 19 to 20 June 2014.
49. Guest lecture at the Department of Chemical Engineering, Universitas Riau on 21-22 February 2014.
50. Invited speaker at Global Research Training Directorate Research and the Community Engagement University of Indonesia on 14 – 15 December 2013 at Mercure Hotel, Kuta, Bali, Indonesia.
51. Keynote Speaker at Technology, Education and Science International Conference 2013 at Universiti Teknologi Malaysia on 20 – 21 November 2013. This seminar was organized by Persatuan Pelajar Indonesia, Universiti Teknologi Malaysia (PPI UTM).
52. Keynote Speaker at Seminar Nasional Hasil Riset dan Standarisasi Industri III in Banda Aceh, Indonesia on 23 – 25 October 2013. This seminar was organized by Balai Riset dan Standarisasi Industri Banda Aceh, Indonesia.
53. Keynote Speaker at 7th South East Asian Technical Universities Consortium (SEATUC) Symposium on 5 – 6 March 2013 which is held at Institut Teknologi Bandung, Indonesia.
54. Invited speaker at 11th Symposium of Research Center for Solar Energy Chemistry, Osaka University on 20 February 2013, which is held at Graduate School of Engineering, Osaka University, Japan.
55. Invited speaker at UTM-IWA (Universiti Teknologi Malaysia – The International Water Association) International Publication Workshop, 14 – 18 January 2013.
56. Keynote speaker at Seminar Nasional SDM Teknologi Nuklir VIII 2012 at Sekolah Tinggi Teknologi Nuklir, the National Nuclear Energy Agency (BATAN), Yogyakarta on 31 October 2012 which is held at Pusat Teknologi Akselerator dan Proses Bahan (PTAPB), BATAN.
57. Keynote speaker at the National Seminar on Chemistry organized by Universitas Jenderal Soedirman (UNSOED) held on 6 October 2012, at Roediro Building UNSOED, Purwokerto, Indonesia.
58. Keynote speaker at International Conference on Chemical and Material Engineering (ICCME) organized by Department of Chemical Engineering, Diponegoro University (UNDIP), 12 – 13 September 2012, Grand Candi Hotel, Semarang, Indonesia.
59. Invited speaker at Congress of Indonesian Diaspora at Los Angeles Convention Center, US on 6 – 8 July 2012.
60. Keynote speaker at National Seminar on Chemistry at Swiss-Belhotel Borneo Hotel, Samarinda, East Kalimantan on 3 December 2011. This seminar is organized by the Office of Education and Culture, East Kalimantan Province, and the Indonesian Chemical Society.
61. Keynote speaker at International Seminar on Environment Sciences (ISES 2011) organized by Department of Chemistry, Universitas Andalas, Padang, Indonesia. The symposium is held in Padang on 8 October 2011.
62. Keynote speaker at the ITB Catalysis Symposium, organized by the Inorganic and Physical Chemistry Research Division at Institut Teknologi Bandung (ITB). The symposium is held in Bandung on 12 July 2011.
63. Invited speaker at The 12th International Conference on Quality in Research (QiR 2011) which is held in Bali, Indonesia on 4 – 7 July 2011.

64. Invited speaker at Nanotechnology Seminar on 29 June 2011 at Universiti Tun Hussein Onn Malaysia (UTHM). This seminar was organized by Dr. Mohd Arif Agam and his research group in the Faculty of Science, Technology, and Human Development (FTSTPi), UTHM.
65. Invited speaker at Learning orientation program on 23 June 2011 for doctoral program students who received scholarships from the Government of South Sulawesi Province.
66. Keynote Speakers at the 3rd Junior Chemists Colloquium (3JCC), organized by The Department of Chemistry, Faculty of Science, Universiti Teknologi Malaysia (UTM) Johor Bahru and Department of Chemistry, Faculty of Resource Science and Technology, Universiti Malaysia Sarawak (UNIMAS) held on 18 January 2011 in Ibnu Sina Institute for Fundamental Science Studies, UTM.
67. Keynote Speakers at the National Seminar on Engineering and Technology (ReSaTek), organized by the Universitas Bung Hatta held on 2 August 2010 in Pangeran Beach Hotel, Padang, Indonesia.
68. Visiting Associate Professor at Department of Chemistry, Institut Teknologi Bandung from 15 to 20 November 2009.
69. Keynote speaker at the National Seminar on Chemistry and Chemistry Education organized by Universitas Negeri Semarang (UNNES) held on 10 October 2009, in Puri Garden Hotel, Semarang, Indonesia.
70. Invited speaker at Workshop on Catalysis, Department of Chemistry, Institut Teknologi Sepuluh Nopember (ITS), Surabaya, 25 August 2008.
71. Keynote lecture at Seminar Nasional Kimia IX (National Seminar on Chemistry IX) at Institut Teknologi Sepuluh Nopember (ITS), Surabaya, Indonesia, 24 July 2007.
72. Invited to give a lecture at the Graduate School of Engineering Science, Osaka University, 11 June 2007.
73. Universiti Teknologi Malaysia (UTM) Excellent Service Award, 2005 (Anugerah Perkhidmatan Cemerlang UTM Tahun 2005).
74. Invited to give a lecture on “Scientific Writing” on 2 June 2005 to the staff of Department of Science and Mathematics, Kolej Universiti Teknikal Kebangsaan Malaysia at Le Paris Hotel, Port Dickson, Malaysia.
75. Invited to give a lecture on “Synthesis and Characterization of Zeolites” to researchers of Mineral Research Center, Department of Minerals and Geoscience Malaysia, Ipoh, 3 – 6 May 2005.
76. Guest Lecturer at COMBICAT research group, Universiti Kebangsaan Malaysia, 26 – 27 March 2004.

Collaboration/MOU as a Coordinator

1. Graduate School of Engineering Science, Osaka University (2008 – present)
2. Institut Teknologi Bandung (2010 – present)
3. Universitas Indonesia (2010 – present)
4. Universitas Negeri Malang (2020 – present)
5. Universitas Pertamina (2017 – 2020)

Entrepreneursip

1. Director, IMGo Tech Sdn Bhd (formerly known as CSNano Technologies Sdn Bhd). MyCoID Number: 1177551-X. (2016 – present)

Contribution to Bilateral Cooperation Between Indonesia and Malaysia in Higher Education

I am one of the founders of the Indonesia-Malaysia Research Consortium (I'MRC) which is a platform of cooperation between universities in Indonesia and Malaysia in higher education. This initiative was initiated on 8 May 2016 where Indonesia-Malaysia Research Consortium (I'MRC) forum was held successfully by Universiti Teknologi Malaysia (UTM) at UTM Kuala Lumpur Campus. On 2 October 2017, HE Minister Dato' Seri Idris Jusoh, the Malaysian Minister of Higher Education (MHE), and HE Minister Mohamad Nasir, the Indonesian Minister of Research, Technology and Higher Education Indonesia chaired a bilateral meeting of the high-level groups consists of policymakers from both Ministries, rectors and vice-rectors from the Indonesian and Malaysian famous universities to discuss I'MRC. On November 22, 2018, the I'MRC Forum held at Institut Teknologi Sepuluh Nopember (ITS) in Surabaya has agreed to establish 5 research clusters, namely Renewable Energy (Coordinators: Prof. Arshad Ahmad and Prof. Adi Soeprijanto), Humanities and Culture (Coordinators: Prof. Syed Ahmad Iskandar Syed Ariffin and Prof. Suyono), Biomedicine and Health (Coordinators: Assoc. Prof. Teguh Haryo Sasongko and Prof. Agus Rubiyanto), STEM kits (Coordinators: Prof. Datuk Dr. Halimaton Hamdan and Dr. Markus Diantoro), and Disaster risk reduction and disaster risk management (Coordinators: Prof. Zulkifli Yusop and Dr. Amien Widodo).

Assessor of Academic Programs

1. Assessor for Bachelor of Science in Chemistry with Honors, Bachelor of Science in Petroleum Chemistry with Honors, and Bachelor of Science in Industrial Chemistry with Honors at Department of Chemistry, Universiti Putra Malaysia (UPM) (2021 – 2023).
2. Assessor for Bachelor of Science (Chemistry) with Honors at School of Distance Education, Universiti Sains Malaysia (USM) (2021).

Mentoring

I have supervised 4 postdoctoral researchers, 38 Ph.D. students (33 graduated), 22 M.Sc. students (18 graduated), and 51 B.Sc. students (47 graduated).

Current postdoc

1. Dr. Abdul Hakim Md Yusop

Current Ph.D. students

1. Nor Arbani Sean
2. Haryani Mohd Yatim
3. Nur Syuhada Ibrahim
4. Ghozlan Elbashir M. Amer
5. Daing Hanum Farhana Ab Munap

Current M.Sc. students

1. Siti Sarah Osman
2. Nur Syahirah Sahidan
3. Nurfatim Musa
4. Rooshan Watanpal

Current B.Sc. students

1. Putra Fayyadh Khalaf Mohd Ariffin
2. Lee Sheng Hui
3. Nur Syazwani Abdul Hamid
4. Melben Tonny

Former Postdocs

1. Dr. Sheela Chandren (2013 – 2015)
2. Dr. Lai Sin Yuan (2014 – 2015)
3. Dr. Shokoh Parham (2016 – 2017)
4. Dr. Leaw Wai Loon (2017 – 2019)

Ph.D. students' alumni (33) – graduated from Universiti Teknologi Malaysia (UTM), Universiti Tun Hussein Onn Malaysia (UTHM), Institut Teknologi Bandung (ITB) and Institut Teknologi Sepuluh Nopember (ITS)

1. Didik Prasetyoko (2006) – Universiti Teknologi Malaysia | Bifunctional oxidative and acidic titanium silicalite (TS-1) catalysts for one-pot synthesis of 1,2-octanediol from 1-octene
2. Fitri Hayati (2009) – Universiti Teknologi Malaysia | Modified manganese oxide octahedral molecular sieves for oxidation and consecutive oxidation – acid reactions
3. Eriawan Rismana (2010) – Universiti Teknologi Malaysia | Synthesis, characterization and dielectric properties of cadmium sulfide polymer nanocomposites
4. Amin Eisazadeh Otaghsaraei (2010) – Universiti Teknologi Malaysia | Physicochemical behaviour of lime and phosphoric acid stabilized clayey soils
5. Surya Lubis (2013) – Universiti Teknologi Malaysia | Porous carbon-coated titania prepared by in-situ polymerization of styrene and its catalytic and photocatalytic activities in oxidation of alkenes

6. Nursyafreena Attan (2013) – Universiti Teknologi Malaysia | Magnetic Field Effects on the Adsorption of Dyes, Heterogeneous Oxidation Catalysis and Synthesis of Well-aligned Titania
7. Umar Kalmar Nizar (2014) – Universiti Teknologi Malaysia | Synthesis and characterization of alkyl and porous silica-titania catalysts and their applications in the conversion of alkenes
8. Lai Sin Yuan (2014) – Universiti Teknologi Malaysia | Preparation of titanium(IV), zinc(II) and nickel(II) complexes silica-based catalysts for limonene and 1-octene oxidation reactions
9. Norfatimah Yahaya (2014) – Universiti Teknologi Malaysia | New micro-solid phase extraction techniques based on mesoporous materials for selected antibiotic and antifungal agents
10. Mukhamad Nurhadi (2014) – Universiti Teknologi Malaysia | Pengubahsuaian batu arang bergred rendah sebagai mangkin berpotensi dalam tindak balas pengoksidaan stirena
11. Syamsi Aini (2014) – Universiti Teknologi Malaysia | Nanozarah titanium-karbon terkurung dalam silika mesoliang sebagai mangkin untuk pengoksidaan stirena
12. Nur Hidayah Mohd Ran (2014) – Universiti Teknologi Malaysia | Liquid-gas boundary catalysis by gold/polystyrene-coated hollow titania and the effective location of active sites in liquid-liquid phase-boundary catalyst.
13. Khitam Abdulhussein Saeed (2014) – Universiti Teknologi Malaysia | Physicochemical characterization of lime and cement stabilized clayey soils contaminated by heavy metals.
14. Mohammed Salisu Musa (2015) – Universiti Teknologi Malaysia | Synthesis and application of microporous carbon spheres for solid phase membrane tip extraction of nitrosamines from water samples
15. Mita Rilyanti (2015) – Institut Teknologi Bandung (ITB) | Reduksi penggunaan senyawa pengarah struktur menuju sintesis zeolite Socony Mobil-5 (ZSM-5) berpori hirarki bebas senyawa organik
16. Yelmida Aziz (2015) – Universitas Andalas (UNAND) | Sintesis, karakterisasi, dan aplikasi hidroksiapatit dari kulit kerang darah (*Anadara granosa*) sebagai sumber kalsium dengan proses hidrotermal
17. Pratama Jujur Wibawa (2015) – Universiti Tun Hussein Onn Malaysia (UTHM) | Synthesis of self-assembled polystyrene nanospheres/cadmium metal nanoparticles (PSNs/CdMNPs) composite this fil for its application as adsorbent and catalyst
18. Shokoh Parham (2016) – Universiti Teknologi Malaysia | The aluminium-titanium bimetal oxide nanoparticles loaded on cotton textile as a potential antibacterial wound dressing
19. Parisa Pourdayhimi (2016) – Universiti Teknologi Malaysia | Synthesis and characterization of zinc oxide supported on mesoporous hollow silica sphere for photocatalysis of sodium dodecylbenzenesulfonate
20. Afrouz Baharvand (2016) – Universiti Teknologi Malaysia | Synthesis, characterization and application of hollow titania microspheres containing silver and gold nanoparticles in the photodegradation of pesticides
21. Mohd Dzul Hakim Wirzal (2016) – Universiti Teknologi Malaysia | Determination of nifedipine, ampicillin and penicillin G and their electro-oxidation products by voltammetric techniques
22. Fatemeh Yaghoubi Doust (2016) – Universiti Teknologi Malaysia | Synthesis and characterization of reduced graphene oxide-loaded cotton as phase-boundary catalyst in the oxidation of styrene by aqueous hydrogen peroxide
23. Shafiyah Pondi (2017) – Universiti Teknologi Malaysia | Controlled-release of curcumin from poly(lactide-co-glycolide) acid/albumin/curcumin and silica/albumin/curcumin drug-delivery systems
24. Nurul Najidah Mohamed (2018) – Universiti Teknologi Malaysia | The preparation of avertroa bilimbi-derived carbon-titania composite and its structure-function relationship in photocatalytic and catalytic reactions
25. Farah Syuhada Abdul Halim (2018) – Universiti Teknologi Malaysia | Carbon-containing titania on stainless steel by high voltage powder spray coating and its adhesion phenomena
26. Nur Izzati Abu Bakar (2018) – Universiti Teknologi Malaysia | Well-aligned one-dimensional-like titania-liquid crystals composite photocatalyst synthesized under magnetic field
27. Abdul Hakim Md Yusop (2018) – Universiti Teknologi Malaysia | Curcumin-loaded poly(lactic-co-glycolic acid) – porous iron scaffold as a biodegradable therapeutic-device for bone cancer treatment
28. Mohamad Haqzim Ayob (2018) – Universiti Teknologi Malaysia | Synthesis and characterization of cobalt-based catalysts for selective oxidation of styrene and photodegradation of methylene blue
29. Jamillah Amer Nordin (2019) – Universiti Teknologi Malaysia | Effect of mechanical milling time on synthesis characterizatics, magnetic behaviour and biomedical application of hematite-hydroxyapatite nanocomposite
30. Rasidah Razali (2019) – Universiti Teknologi Malaysia | Titania-polystyrene textile as phase boundary catalysis
31. Nor Syahiran Zahidin (2019) – Universiti Teknologi Malaysia | Optimization of flavonoids extraction of *Acalypha indica* linn for wound healing application
32. Siti Hajar Alias (2020) – Universiti Teknologi Malaysia | Structure-photocatalytic activity relationship of carbon doped titanium dioxide analyzed by density functional theory and fuzzy logic graph

33. Ani Iryani (2020) – Institut Teknologi Sepuluh Nopember (ITS) | Struktur, sifat dan kinerja komposit ZSM-5 (hirarki)TiO₂/C/Alkil ilil sebagai fotokatalis untuk menghilangkan zat warna tekstil

M.Sc. students' alumni

1. Norizah Abdul Rahman (2005)
2. Helda Hamid (2005)
3. Ng Yun Hau (2005)
4. Gui Lee Kee (2008)
5. Izan Izwan Misnon (2008)
6. Yong Khun Fong (2008)
7. Sheela Chandren (2008)
8. Sasha Md Nasir (2010)
9. Amelia Boon Hoo (2011)
10. Farizan Mohamad (2012)
11. Nor Rashidah Md Juremi (2012)
12. Syaiful Akhmal Saadon (2013)
13. Nur Izzati Abu Bakar (2014)
14. Nur Nadira Sulaiman (2014)
15. Shamsuddin Chik Zi (2015)
16. Nor Arbani Sean (2017)
17. Nur Adilah Hussien (2019)
18. Syahira Omar (2020)
19. Khairiah Mohd Yatim (2020)

B.Sc. students' alumni

1. Amir Faizal Naidu Abdul Manan (2004)
2. Izan Izwan Misnon (2005)
3. Shahmeen Ismail (2006)
4. Nurulashikin Mohd Ariffin (2006)
5. Chua Yew Hean (2006)
6. Farah Hannan Anuar (2007)
7. Sim Sau Teing (2007)
8. Nur Hajarul Aswani Moamail (2007)
9. Norazlizan Abul Rashid (2008)
10. Noor Ayu Ismail (2008)
11. Jessie Jessica Anak Robin (2008)
12. Raazatul Aidah Abd Latif (2008)
13. Norshahida Zamahsari (2008)
14. Intan Dayana Samsuri (2008)
15. Ng Kar Fai (2009)
16. Ang Wai Leong (2009)
17. Salmi Fathiyah Sheikh Salim (2010)
18. Siti Shahidaan Abdul Aziz (2010)
19. Noorulsyahidaini Golbaha (2010)
20. Lai Sin Yuan (2010)
21. Hidayati Mohamad Mukhair (2010)
22. Mohd Hayrie Mohd Hatta (2011)
23. Shazliana Mohamad @ Mat Yasin (2011)
24. Teoh Leong Shen (2011)
25. Noor Hidayah Mohd Jusoh (2011)
26. Siti Noramallina Nazri (2012)
27. Lim Chai Sin (2012)
28. Ahmad Fahmi Abdullah (2012)
29. Muhammad Nazrul Baharuddin (2013)
30. Mohamad Faiz Othman (2013)
31. Muhammad Nazrul Baharuddin (2014)
32. Adilah Zainal Abidin (2014)

33. Nur Adilah Hussien (2015)
34. Nurul Izzati Abd Wahid (2015)
35. Noor Azlinda Zulkabri (2015)
36. Muhammad Ali Hakim Mohd Ali Raini (2016)
37. Muhammad Amieroul Eirffan Mohamad (2016)
38. Ros Amirah Rusli (2017)
39. Rosmini Abdullah (2017)
40. Huberta Juna Anak Gregory (2018)
41. Nur Lina Muhd Yusof (2018)
42. Nur Syafiqah Azmi (2018)
43. Nurul Sakinah Ismail (2019)
44. Vel Murugan A/L Nagalinggam (2019)
45. Tey Chen Han (2020)
46. Fatin Atiqah Faudzi (2020)
47. Ng Wei Wei (2020)
48. Wan Noor Azita Aini Wan Salleh (2021)
49. Wong Keh Li (2021)
50. Norhaninah Abdul Manan (2021)

Teaching

[Link to teaching website](#)

Teaching Subjects at Universiti Teknologi Malaysia (since 2003)

1. Research Methodology (USCP 0010/MSCK 1303/MSCN 1303/MFSC 1303 – Sem 1 – 2021/2022)
2. Chemical Reactions Process (SSCC 4443 – Sem 1 – 2021/2022)
3. Research Methodology & Information Retrieval (SSCU 3623 – Sem 2 – 2020/2021)
4. Solid State Chemistry (SSCC 4473 – Sem 2 – 2020/2021)
5. Green Chemistry (SSCC 4363 – Sem 1 – 2020/2021)
6. Solid State Chemistry (SSCC 4473 – Sem 2 – 2019/2020)
7. Chemical Reactions Process (SSCC 3423 – Sem 1 – 2019/2020)
8. Molecular Spectroscopy (SSCC 2473 – Sem 2 – 2018/2019)
9. Green Chemistry (SSCC 4363 – Sem 1 – 2018/2019)
10. Research Methodology (MSCK 1303 – Sem 1 2017/2018)
11. Chemical Reactions Process (SSCC 3423 – Sem 2 – 2017/2018)
12. Quantum Chemistry (SSCC 3463 – Sem 2 – 2017/2018)
13. Green Chemistry (SSCC 4363 – Sem 1 – 2017/2018)
14. Chemical Reactions Process (SSCC 3423 – Sem 2 – 2016/2017)
15. Quantum Chemistry (SSCC 3463 – Sem 2 – 2016/2017)
16. Physical Chemistry Laboratory (SSCC 2841 – Sem 1 – 2016/2017)
17. Surface and Colloid Chemistry (SSCC 4493 – Sem 2 – 2015/2016)
18. Quantum Chemistry (SSCC 3463 – Sem 2 – 2015/2016)
19. Chemical Reactions Process (SSCC 4443 – Sem 2 – 2015/2016)
20. Solid State Chemistry (SSCC 4473 – Sem 2 – 2014/2015)
21. Chemical Reactions Process (SSCC 4443 – Sem 1 – 2014/2015)
22. Quantum Chemistry (SSCC 3463 – Sem 2 – 2013/2014)
23. Chemical Reactions Process (SSC 4443 – Sem 1 – 2013/2014)
24. Molecular symmetry and spectroscopy (SSC 2433 – Sem 2 – 2011/2012)
25. Molecular symmetry and spectroscopy (SSC 2433 – Sem 1 – 2010/2011)
26. Surface and Colloid Chemistry (MSK1433 – Sem 1 – 2012/2013)
27. Surface and Colloid Chemistry (MSK1433 – Sem 1 – 2011/2012)
28. Advanced Physical Chemistry (MSK1413 – Sem 3 – 2010/2011)
29. Advanced Spectroscopy (MSK1453 – Sem 2 – 2010/2011)
30. Molecular Symmetry and Spectroscopy (SSC 2433 – Sem 1 – 2010/2011)
31. Solid State Chemistry (SSC 3473 – Sem 2 – 2009/2010)
32. Quantum Chemistry and Spectroscopy (SSC 2463 – Sem 1 – 2009/2010)
33. Solid State Chemistry (SSC 3473 – Sem 2 – 2008/2009)
34. Quantum Chemistry and Spectroscopy (SSC 2463 – Sem 1 – 2008/2009)

35. Industrial Chemical Process (SSC 2423 – Sem 2 2007/2008)
36. Quantum Chemistry and Spectroscopy (SSK 2463 Sem 1 -2007/2008)
37. Physical Chemistry II (SSC 2413 – Sem 1 2006/2007)
38. Materials Chemistry (SSK 3752 – Sem 1 2005/2006)
39. Materials Chemistry (SSK 3752 – Sem 2 2004/2005)
40. Quantum Chemistry and Spectroscopy (SSK 3443 – Sem 1 – 2004/2005)
41. Advanced Spectroscopy (SSK 3423/MSK 1453 – Sem 2 – 2003/2004)

Capita Selecta Lecture for Doctoral Program in Chemistry Education, Universitas Negeri Malang, Indonesia

1. Capita Selecta on Materials Science Research (2021)

Special Lecture on Heterogeneous Catalysis at Department of Chemistry, Institut Teknologi Bandung, Indonesia

1. Chemical Design of Heterogeneous Catalysis (16 – 20 November 2009)

Referee/Assessor for Academic Promotions

1. Internal assessor for promotion to associate professor and full professor, Universiti Teknologi Malaysia (since 2017 to present)
2. External assessor for the appointment of associate professor, Punjab University, Pakistan (2019)
3. External assessor for promotion to tenured associate professor, Punjab University, Pakistan (2021)
4. External assessor for promotion to full professor (VK07), Universiti Malaysia Pahang (2021)
5. External assessor for promotion to associate professor (DS53), Universiti Malaysia Pahang (2021)

Examiner of M.Sc. thesis, Ph.D. thesis and Inaugural Professorial Lecture

1. A. Kalilur Rahman, Ph.D. thesis, Department of Inorganic Chemistry, University of Madras, India (2008).
2. Kasim Mohammed Hello, Ph.D. thesis, School of Chemical Sciences, Universiti Sains Malaysia (2010)
3. Hiba Eltahier Hassan, M.Sc. thesis, School of Chemical Sciences, Universiti Sains Malaysia (2012)
4. Siti Nooraisah Mohd Nordin, M.Sc. thesis, Department of Chemistry, Universiti Putra Malaysia (2012)
5. Leaw Wai Loon, M.Sc. thesis, Department of Chemistry, Universiti Teknologi Malaysia (2012)
6. Syafiqah Saidin. Ph.D. thesis, Universiti Teknologi Malaysia (2013)
7. Nadirah Zawani Mohd Nesfu, M.Sc. thesis, Universiti Teknologi Malaysia (2013)
8. Wan Rosemaria Nurul Huda Wan Baharom, M.Sc. thesis, Universiti Teknologi Malaysia (2013)
9. Fatiha Ismail, Ph.D. thesis, Universiti Teknologi Malaysia (2013)
10. Prof. Dr. T. M. I. Mahlia, Inaugural Professorial Lecture, Universiti Tenaga Nasional (2013)
11. Syafiqah Syaidin, Ph.D. thesis, Faculty of Biosciences & Medical Engineering, Universiti Teknologi Malaysia (2013)
12. Hammed Ademola Monsur, Ph.D. thesis, Kulliyah of Engineering, International Islamic University Malaysia (2014)
13. Nida Iqbal Khan, Ph.D. thesis, Universiti Teknologi Malaysia (2014)
14. Siti Farhana Abu Osman, M.Sc. thesis, Department of Chemistry, Universiti Putra Malaysia (2014)
15. Hammed Ademola Monsur, Ph.D. thesis, Kulliyah of Engineering, International Islamic University Malaysia (2014)
16. Siti Fadziana Sulaiman, Ph.D. thesis, Department of Chemistry, Universiti Teknologi Malaysia (2016)
17. Yuli Yetri, Ph.D. thesis, Department of Chemistry, Universitas Andalas, Indonesia (2015)
18. Hartati, Ph.D. thesis, Department of Chemistry, Institut Teknologi Sepuluh Nopember, Indonesia (2015)
19. Wan Nazwanie Wan Abdullah, Ph.D. thesis, Department of Chemistry, Universiti Teknologi Malaysia (2015)
20. Usman Bishir, Ph.D. thesis, Department of Chemistry, Universiti Teknologi Malaysia (2015)
21. Lee Nian Yian, Ph.D. thesis, Department of Chemistry, Universiti Teknologi Malaysia (2015)
22. Nur Istianah, M.Sc. thesis, Faculty of Biosciences & Medical Engineering, Universiti Teknologi Malaysia (2015)
23. Agnes Aruna John, M.Sc. thesis, Faculty of Biosciences & Medical Engineering, Universiti Teknologi Malaysia (2015)
24. Noor Azhana Ghazi, Ph.D. thesis, Department of Chemistry, Universiti Teknologi Malaysia (2016)

25. Vidhyaa A/P Paroo Indran, Ph.D. thesis, Department of Chemical engineering, Universitas Malaysia Pahang (2016)
26. Mokhammad Fakhruul Ulum, Ph.D. thesis, Universiti Teknologi Malaysia (2016)
27. Renugambaal Nadarajan, Ph.D. thesis, Department of Chemistry, Universiti Teknologi Malaysia (2016)
28. Noorsamsiah Muhammad @ Wahab, Ph.D. thesis, Universiti Teknologi Malaysia (2016)
29. Wan Hazman Danial, Ph.D. thesis, Department of Chemistry, Universiti Teknologi Malaysia (2016)
30. Leaw Wai Loon, Ph.D. thesis, Department of Chemistry, Universiti Teknologi Malaysia (2016)
31. Nor Suriani Sani, Ph.D. thesis, Department of Chemistry, Universiti Teknologi Malaysia (2017)
32. Sharanjit Singh, Ph.D. thesis, Department of Chemical Engineering, Universitas Malaysia Pahang (2018).
33. Ahmed Mahgoub Saied Mohmedahmed, Ph.D. thesis, Department of Chemistry, Universiti Teknologi Malaysia (2018)
34. Noor Humam Sulaiman Al Metwali, Ph.D. thesis, Universiti Kebangsaan Malaysia (2018)
35. Jamiluddin Jaafar, Ph.D. thesis, Department of Mechanical Engineering, Universitas Malaysia Pahang (2018)
36. Nor Shafiqah Mohd Nasir, M.Sc. thesis, Department of Chemistry, Universitas Malaysia Pahang (2019)
37. Iqrah Akbar, Ph.D. thesis, Kulliyah of Engineering, International Islamic University Malaysia (2019)
38. Nurlina Yusof, Ph.D. thesis, Kulliyah of Engineering, International Islamic University Malaysia (2019)
39. Nurul Huda Abu Bakar, Ph.D. thesis, Department of Chemistry, Universitas Malaysia Pahang (2020)
40. Nuor Sariyan Suhaimin, Ph.D. thesis, Department of Chemistry, Universiti Teknologi Malaysia (2020)
41. Iraj Alaei, Ph.D. thesis, Kulliyah of Engineering, International Islamic University Malaysia (2020)
42. Cheong Ying Wei, Ph.D. thesis, Universiti Sains Malaysia (2020)
43. Mohammad Hazim Mohammad Hamdan, Ph.D. thesis, Universiti Malaysia Pahang (2020)
44. Thanwa Filza Nashruddin, Ph.D. thesis, Universiti Teknologi Malaysia (2020)
45. Deni Subara, Ph.D. thesis, Kulliyah of Engineering, International Islamic University Malaysia (2021)
46. Tan Yong Chee, Ph.D. thesis, Department of Chemistry, Universiti Teknologi Malaysia (2021)
47. Abdussamad Mukhtar Mohammed, Ph.D. thesis, Department of Chemistry, Universiti Teknologi Malaysia (2021)
48. Nurul Asyikin Kamaruzaman, Ph.D. thesis, Department of Chemistry, Universiti Teknologi Malaysia (2021)
49. Harits Atika Ariyanta, Ph.D. thesis, Universitas Indonesia (2021)
50. Azhar Masaud, Ph.D. thesis, Department of Chemistry, Universiti Teknologi Malaysia (2021)
51. Sayed Mohammad Reza Rafieipour Alavi, Ph.D. thesis, Université Laval Québec, Canada (2021)
52. Retno Purbowati, Ph.D. proposal, Universitas Airlangga, Indonesia (2021)
53. Inam Mohammed Ayob Omar, Ph.D. thesis, Department of Chemistry, Universiti Teknologi Malaysia (2021)
54. Shakhawan Ahmad Mhamad, Ph.D. thesis, Department of Chemistry, Universiti Teknologi Malaysia (2021)

Research Grants

I was a principal investigator of 24 research projects. My research has been or is currently being funded by the Ministry of Science, Technology & Innovation, Malaysia (MOSTI), the Ministry of Higher Education, Malaysia (MOHE), the Academy of Sciences for the Developing World (TWAS), and Nippon Sheet Glass Foundation for Materials Science and Engineering.

1. "Development of smartphone apps and websites to support fuel cell learning in school with STEM integration", Matching Grant: Q.J130000.3009.03M48 (RM29,687). 2 June 2021 – 22 November 2021.
2. "Iron-Graphite Composites With Controllable and Accelerated Corrosion Rate as a Potential Biodegradable Implant", University Grant Program (GUP) – PDRU: Q.J130000.21A2.05E67 (RM69,230). 1 July 2021 – 30 June 2022 (Project leader)
3. "Interpenetrating phase composite of polyester and porous iron as a drug-implant system with controllable degradation rate and anti-bacterial effect", University Grant Program (GUP) – PDRU: R.J130000.7113.04E85 (RM138,460). 1 July 2019 – 30 June 2021 (Project leader)
4. "Solid-Oxide Fuel Cells based on semiconductor nanostructure for Power Industry", Long Term Research Grant Scheme (LRGS), R.K130000.7340.4L825 (RM 1,500,000) 1 February 2015 – 31 December 2020 (Project leader).

5. "Remediation of Palm Oil Mill Effluent Towards Environmental Sustainability", University Grant Program (GUP) – Flagship: Q.J130000.2409.03G09 (RM 300,000). 1 March 2015 – 28 February 2016 (Program leader)
6. "Bioinspired Approach in the Synthesis of Hierarchically Porous Catalyst Derived from Averrhoa Bilimbi for the Conversion of High Molecular Weight Cellulose", Fundamental Research Grant Scheme Vot. 4F626 (Sub Project: R.J130000.7809.4F626 (RM113,000). 1 December 2014 – 30 November 2016 (Project leader)
7. "Development of Chiral-Selective Photocatalytic Organic Synthesis System Using Hollow Core-Shell Particles of Titania Core and Silica Shell with Chiral-Modified Pores", University Grant Program (GUP) – Tier 2: Vot. 10J41 (Sub Project: Q.J130000.2601.10J41) (RM28,500). 1 May 2015 – 30 April 2015 (Project leader)
8. "The nanoparticles metal-carbon with core/shell structure as a selective and active catalyst in the oxidation of alkenes", University Grant Program (GUP) – Tier 1: Vot. 06H22 (Sub Project: Q.J130000.2501.06H22) (RM60,000). 1 April 2014 – 31 March 2016 (Project leader)
9. "Temperature-controlled selectivity in oxidation of alkenes by using aqueous hydrogen peroxide by layer textile catalyst and its mechanism", Fundamental Research Grant Scheme Vot. 4F169 (Sub Project: R.J130000.7826.4F169) (RM92,000). 1 April 2013 – 31 March 2015 (Project leader)
10. "Well-Aligned Titania Synthesized Under Magnetic Field by Using Liquid Crystal as Alignment Agent for Solar Cells Application", University Grant Program (GUP) – PDRU: Vot. 02E05 (Sub Project: Q.J130000.21A2.02E05) (RM77,000). 1 November 2014 – 31 October 2015 (Project leader)
11. "Preparation of Titanium (IV), Zinc (II) and Nickel (II) Complexes Silica-Based Catalysis for Limonene and 1-Octene Oxidation Reactions", University Grant Program (GUP) – PDRU: Vot. 01E47 (Sub Project: Q.J130000.21A2.01E47) (RM77,000). 1 April 2014 – 31 March 2015 (Project leader)
12. "Well-Aligned Titania Synthesized Under Magnetic Field by Using Liquid Crystal as Alignment Agent for Solar Cells Application", University Grant Program (GUP) – PDRU: Vot. 00E99 (Sub Project: Q.J130000.21A2.00E99) (RM77,000). 1 November 2013 – 31 October 2014 (Project leader)
13. "Well-aligned titania with high length to diameter ratio synthesized under magnetic field using liquid crystal", University Grant Program (GUP) – Tier 1: Vot. 03H88 (Sub Project: Q.J130000.2526.03H88) (RM120,000). 1 December 2012 – 30 November 2014 (Project leader)
14. "Transition metal complex functionalized silica covered nano magnetite catalyst", University Grant (GUP) Program – Tier 2: Q.J130000.2626.08J36 (RM36,634). 1 December 2012 – 31 December 2013 (Project leader)
15. "Synthesis of preferred oriented titanium dioxide materials under strong magnetic field and their photocatalytic activity", Nippon Sheet Glass Foundation for Materials Science and Engineering Vot. 4B054 (Sub Project: J13000073264B054) (USD 6,000). 2012-2013 (Project leader)
16. "Synthesis, characterization and application of amine surface bonded nanoporous carbon spheres in removal of new emerging pollutants", University Grant Program (GUP) – Flagship: Q.J130000.2426.00G05 (RM 300,600) 2011-2013 (31/07/2013) (Project leader)
17. "A new approach in control of the catalytic activity and selectivity in oxidation reactions by magnetic field", University Grant (GUP) Program – Tier1: Q.J130000.7126.01H06 (RM 169,000) 2011-2013 (31/03/2013) (Project leader)
18. "Electric field-induced catalysis over electrically conducting surface", Fundamental Research Grant Scheme Vot. 78472 (RM 32,000) 2009-2011 (14/11/2011) (Project leader)
19. "A novel design of heterogeneous catalyst for liquid-gas reaction system using hollow polymer nanospheres", Sciencefund research grant: Vot: 79384 (RM 218,000) 2009-2011 (30/09/2011) (Project leader)
20. "Structure-catalytic activity relationship of hydrolyzed alkylsilane functionalized with amino acid as heterogeneous micellar catalysis", Fundamental Research Grant Scheme: Vot: 78399 (RM 46,000) 2009-2011 (13/08/2011) (Project leader)
21. "Gold nanoparticles embedded on polymeric layer as novel label for biological diagnostics", Sciencefund research grant: Vot: 79126 (RM 184,000) 2007-2009 (Project leader)
22. "Mechanocatalysis with electrically induced contractile electro-active polymer", Fundamental Research Grant Scheme: Vot. 78070 (RM 61,000) 2007-2009 (Project Leader).
23. "Electrically Induced Contractile Electro-Active Polymer as Catalyst for Immiscible Liquid-Liquid Reaction", TWAS Grants in Basic Sciences – Trieste, Italy (USD 5,000) 2005-2007: Vot 73323 (Project Leader).
24. "Design of Chiral Solid Catalysts by Molecular Imprinting Method with Polyaminoacid as Chiral Promoter", IRPA EAR RM 8 research grant (RM 88,000), 2005-2007: Vot 74284 (Project Leader).

I was involved with many other projects (> 10 projects) as a researcher. In the following projects, my contribution was significant, I was involved in writing proposals, conducting experiments and writing scientific publications.

1. "Microheterogeneous catalytic system for oxidation reaction with aqueous hydrogen peroxide", 2002-2007, IRPA Top-down RM 8 research grant (RM 650,000) (Researcher).
2. "Development of a novel catalytic system for synthesis of useful organic materials", Grant-in-Aid for Encouragement of Young Scientists (No. 99302) from Ministry of Education, Science, Sports and Culture, Japan (Researcher).
3. "Metal-substituted $\text{AlPO}_4\text{-5}$ molecular sieves as potential catalysts for conversion of alcohols", IRPA EAR RM 7 research grant, 1995-1998 (Researcher).
4. "Direct Synthesis of NaA Zeolite from Rice Husk and Carbonaceous Rice Husk Ash", IRPA EAR RM 7 research grant, 1995-2000 (Researcher).

Editorial Activities

1. Associate Editor of Frontiers in Chemistry, Catalysis and Photocatalysis Section (Impact Factor = 5.221) (2016 – present)
2. Associate Editor of Frontiers in Chemistry, Chemical engineering Section (2018 – present)
3. Editor-in-chief of Malaysian Journal of Fundamental and Applied Sciences (MJFAS) (2015 – present). MJFAS is the recipient of the Current Research in Malaysia (CREAM 2018) Awards by the Ministry of Education Malaysia.
4. Editor of Jurnal Teknologi (2010 – present)
5. Regional Editor (Main Handling Editor) for Asia-Pacific of Bulletin of Chemical Reaction Engineering and Catalysis (BCREC) (2006 – present)
6. Editor of Nusantara Halal Journal (2020 – present)
7. Editor of Molekul (2017 – present)

Patent Granted

1. H. Nur, "Heterogeneous chiral catalysts and method of preparing the same", Malaysia Patent MY-173762-A. Filing date: 28 May 2009, Date of grant: 19 February 2020.

Publications

(SCOPUS h-index = 27, WOS h-index = 26 and Google Scholar h-index = 36)

- [Google Scholar](#)
- [Scopus](#)
- [Publons](#)
- [SelectedWorks](#)
- [Microsoft Academic](#)
- [Personal repository](#). (Google Drive)

Autobiography

1. H. Nur, "Refleksi Perjalanan Kehidupan", in Life Stories 2: Resep Sukses dan Etos Hidup Diaspora Indonesia di Berbagai Negara, pp. 50-67. Editor: Dino Patti Djalal. Red & White Publishing. Jakarta, 2013.

Books and Book Chapters

1. S. Parham*, A.Z. Kharazi, H. Nur, "Breathable nonwoven hygienic products", in Antimicrobial Textiles from Natural Resources, M.I.H. Mondal (Editor), Elsevier, 2021, pp 397-420.
2. M. Diantoro*, T. Suprayogi, U. Sa'adah, N. Mufti, A. Fuad, A. Hidayat, "Modification of Electrical Properties of Silver Nanoparticle Silver Nanoparticles-Fabrication, Characterization and Applications", (2018) DOI: 10.5772/intechopen.75682
3. H. Nur, "Heterogenous Chemocatalysis: Catalysis by Chemical Design", 2006. ISBN: 983-43098-2-1.
4. H. Nur, L.K. Wei, "Amino Acids Functionalized Chiral Catalyst", Lambert Academic Publishing, Saarbrücken, Germany, 2011. ISBN: 978-3-8454-0758-6.

5. H. Nur, "Better (and happy) life through heterogeneous catalysis research", Penerbit UTM, 2011. ISBN: 978-983-52-0810-2.
6. M.I.A. Aziz, A.L.M. Ibrahim, B. Sumintono, C. Richards, D. Idrus, Durrishah, F.A. Phang, H. Nur, H.C. Siong, L.C. Tin, M. Puteh, M. Hamzah, D. Abdullah, Z. Razali, M. I. Izyan, "Internationalisation policy for higher education Malaysia 2011", Ministry of Higher Education Malaysia, Malaysia. ISBN: 978-967-0334.
7. M.I.A. Aziz, H.C. Siong, A.L.M. Ibrahim, L.C. Tin, H. Nur, M. Hamzah, N. Mislan, D. Abdullah (Core research team), "Operational framework for international student management. Final Report: Safeguarding international students in the Malaysian higher Education System", Ministry of Higher Education Malaysia, 2013.
8. S. Lubis, S. Chandren, H. Nur, "Modification of TiO₂ with carbon layer", in Photocatalysis by TiO₂: How to enhance photocatalytic activity?, L. Yuliati (Editor), Penerbit UTM Press, 2014, pp. 45-57. ISBN: 978-983-52-0969-7.
9. S. Chandren, N. Attan, H. Nur, "Aligned titanium dioxide catalyst synthesized under magnetic field", in Particuology of some metal oxides catalyst", H. Nur (Editor), Penerbit UTM Press, 2014, pp. 1-14. ISBN: 978-983-52-0967-3.
10. N.H.M. Ran, S. Chandren, H. Nur, "Phase-boundary catalysts for oxidation reactions", in Recent development of nanostructured heterogeneous catalyst for oxidation reaction", S.L. Lee (Editor), Penerbit UTM Press, 2014, pp. 1-15 ISBN: 978-983-52-0982-6.
11. S. Chandren, Z. Ramli, H. Nur, "Functional mesoporous alumina materials", in Functional mesoporous materials, H.O. Lintang (Editor). Penerbit UTM Press, 2014, pp. 19-33. ISBN: 978-983-52-0970-3.
12. H. Pratikto, A. Taufiq, A. Voak, N. Deuraseh, H. Nur, W. Dahlan (Editors), "Halal Development: Trends, Opportunities and Challenges", CRC Press, Leiden, 2021. ISBN: 978-1-003-18928-2.

Refereed Journals (all papers can be downloaded via [this link](#))

1. A.H.M. Yusop, M.F. Ulum, A.A. Sakkaf, H. Nur*, "Current Status and Outlook of Porous Zn-based Scaffolds for Bone Applications: A Review", *Journal of Bionic Engineering*, in press.
2. A.H.M. Yusop, M.F. Ulum, A.A. Sakkaf, D. Hartanto, H. Nur*, "Insight into the bioabsorption of Fe-based materials & their current developments in bone applications", *Biotechnology Journal*, 16 (2021) 2100255.
3. A.H.M. Yusop, A. Alsakkaf, H. Nur*, "Modifications on porous absorbable Fe-based scaffolds for bone applications: a review from corrosion and biocompatibility viewpoints", *Journal of Biomedical Materials Research: Part B – Applied Biomaterials*, 110 (2022) 18-44.
4. S. Lestari, M. Muflihah, R. Kusumawardani, M. Nurhadi*, Y. Mangesa, F.I. Ridho, R. Adawiyah, P. Ambarwati, S. Rahma, S.Y. Lai, H. Nur, "Activated Bledug Kuwu's Clay as Adsorbent Potential for Synthetic Dye Adsorption: Kinetic and Thermodynamic Studies", *Bulletin of Chemical Reaction Engineering & Catalysis*, 17 (2022) 22-31.
5. P.J. Wibawa*, M. Nur, M. Asy'ari, W. Wijanarka, H. Susanto, H. Sutanto, H. Nur, "Green Synthesized Silver Nanoparticles Immobilized on Activated Carbon Nanoparticles: Antibacterial Activity Enhancement Study and Its Application on Textiles Fabrics", *Molecules*, 26 (2021) 3790.
6. A.H.M. Yusop, A. Alsakkaf, M.A. Noordin, H. Idris, H. Nur*, F. Szali Januddi*, "Degradation-triggered release from biodegradable metallic surfaces", *Journal of Biomedical Materials Research: Part B – Applied Biomaterials*, 109 (2021) 2184-2198.
7. A.H.M. Yusop, A. Alsakkaf, M.R.A. Kadir, I. Sukmana, H Nur*, "Corrosion of porous Mg and Fe scaffolds: a review of mechanical and biocompatibility responses", *Corrosion Engineering Science and Technology*, 56 (2021) 310-316.
8. M.A. Jumat, N.S. Zahidin, M.A.A. Zaini, N.A. Fadzil, H. Nur, S. Saidin*, "Incorporation of Acalypha Indica Extract in Polyvinyl Alcohol Hydrogels: Physico-chemical, Antibacterial and Cell Compatibility Analyses", *Jurnal Teknologi*, in press (2021).
9. F. Yaghoubidoust*, E. Salimi, D.H.B. Wicaksono, H. Nur, "Physical and electrochemical appraisal of cotton textile modified with polypyrrole and graphene/reduced graphene oxide for flexible electrode", *The Journal of The Textile Institute*, 112 (2021) 646-658.
10. M. Nurhadi, R. Kusumawardani, T. Wirawan, Sumari, L.S. Yuan*, H. Nur, "Catalytic performance of TiO₂-carbon mesoporous-derived from fish bones in styrene oxidation with aqueous hydrogen peroxide as an oxidant", *Bulletin of Chemical Reaction Engineering & Catalysis*, 16 (2021), 88-96.
11. N.A. Sean, W.L. Leaw, E. Abouzari-Iotf, H. Nur*, "Magnetic field-induced alignment of polybenzimidazole microstructures to enhance proton conduction", *Journal of the Chinese Chemical Society*, 68 (2021) 86-94.

12. L.S. Yuan*, K.H. Ng, C.K. Cheng, H. Nur, M. Nurhadi, M. Arumugam, "Photocatalytic remediation of organic waste over Keggin-based polyoxometalate materials: A review", *Chemosphere*, 263 (2021) 128244.
13. Sean, N.A., Loon, L.W., E. Abuzari-Lotf, H. Nur*, "Ferrocene-Modified Polybenzimidazole Membrane with Enhanced Proton Conductivity", *Malaysian Journal of Chemistry*, 22 (2020) 20-27.
14. S. Parham, A.Z. Kharazi, H.R. Bakhsheshi-Rad*, H Nur, A.F. Ismail, S. Sharif, S. Ramakrishna, F. Berto, "Antioxidant, antimicrobial and antiviral properties of herbal materials", *Antioxidants*, 9 (2020) 1309.
15. N. Yahaya*, S. Kamaruzaman, M.M. Sanagi, W.A. Wan Ibrahim, T. Mitome, N. Nishiyama, H. Nur, Z.A. Ghaffar, M. Y. Aziz, H. M. Fauzi, "Vinyl-functionalized mesoporous carbon for dispersive micro-solid phase extraction of azole antifungal agents from aqueous matrices", *Separation Science and Technology*, 55 (2020) 3102-3112.
16. N.A. Sean, L.W. Loon, E. Abuzari-Lotf, H. Nur*, "Ferrocene-Modified Polybenzimidazole Membrane with Enhanced Proton Conductivity", *Malaysian Journal of Chemistry*, 22 (2020) 20-27.
17. A. Iryani, A. Masudi, A.I. Rozafia, D. Hartanto*, M. Santoso, H. Nur, M.S. Azami, "Enhanced Removal of Soluble and Insoluble Dyes over Hierarchical Zeolites: Effect of Synthesis Condition", *Inorganics*, 8 (2020) 52.
18. S. Sendari*, M. Jiono, M. Diantoro, P. Puspitasari, H. Suryanto, H. Nur, "Augmented Reality for Introducing Fuel Cell as Electrochemical Energy Conversion on Vocational School", *International Journal of Interactive Mobile Technologies*, 14 (2020).
19. F.S.A. Halim, S. Chandren, H. Nur*, "Carbon-containing-titania coated stainless steel prepared by high voltage powder spray coating and its adhesion phenomena", *Progress in Organic Coatings*, 147 (2020), 105782.
20. N. Mufti*, T. Amrillah, A. Taufiq, Sunaryono, Aripriharta, M. Diantoro, Zulhadjri, H. Nur, "Review of CIGS-based solar cells manufacturing by structural engineering", *Solar Energy*, 207 (2020), 1146-1157.
21. N.S. Ibrahim, W.L. Leaw, D. Mohamad, S. H. Alias, H. Nur*, "A critical review of metal-doped TiO₂ and its structure-physical properties-photocatalytic activity relationship in hydrogen production", *International Journal of Hydrogen Energy*, 45 (2020) 28553-28565.
22. N.A. Rusli*, R. Muhammad, S.K. Ghoshal, H. Nur, N. Nayan, "Annealing temperature induced improved crystallinity of YSZ thin film", *Materials Research Express*, 7 (2020), 056406
23. A.S.P. Dewi, N. Mufti, A.A. Fibriyanti, M. Diantoro, A. Taufiq, A. Hidayat, Sunaryono, H. Nur, "The improvement of Triboelectric effect of ZnO Nanorods/PAN in flexible Nanogenerator by adding TiO₂ nanoparticle", *Journal of Polymer Research*, 27 (2020), 139.
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