



CURRICULUM VITAE

Personal Details

Name: Hadi Nur
 Place and date of birth: Bukittinggi, 6 May 1969
 Gender: Male
 Nationality: Indonesian
 Marital status: Married
 Website: https://works.bepress.com/hadi_nur
 E-mail: hadinur@utm.my
 Expertise: Materials chemistry and heterogeneous catalysis

Academic Qualification

1995–1998 Ph.D. Chemistry, Universiti Teknologi Malaysia
 Thesis: Tailoring of novel metal-substituted AlPO₄-5 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

Professional Career

2018– Senior Director, Ibnu Sina Institute for Scientific and Industrial Research, Universiti Teknologi Malaysia

2017– Adjunct Professor, Universitas Negeri Malang, Indonesia

2015– Director, Centre for Sustainable Nanomaterials, Universiti Teknologi Malaysia

2010– 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

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

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)

Awards and Honors Received

- 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.
- Invited speaker at Research Month of Science Faculty, Universiti Teknologi Malaysia on 25 August 2020 organized by Faculty of Science, Universiti Teknologi Malaysia.
- Keynote speaker at the International Conference on Chemical Science and Technology on 8 September 2020 organized by Universitas Sumatera Utara, Indonesia.
- Invited speaker at HUMIC online workshop on scientific publication on 5 August 2020 organized by Telkom University, Indonesia.
- Invited speaker at Webinar Ikatan Zeolit Indonesia, Zeolite Chemistry and Its Industrial Applications on 24 June 2020 organized by Indonesian Zeolite Association.
- 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).
- Universiti Teknologi Malaysia (UTM) Excellent Service Award, 2017 (*Anugerah Perkhidmatan Cemerlang UTM Tahun 2017*).
- World Class Professor (WCP), Ministry of Research, Technology and Higher Education, Republic of Indonesia, 15 November 2019.
- Keynote speaker at the International Seminar on Chemistry 2018 (ISoC 2018) in Surabaya on 18-19 July 2018.
- Keynote speaker at UNNES Physics International Symposium 2018 on 3 May 2018 in Semarang, Indonesia.
- Keynote speaker at the ASIA International Multidisciplinary Conference (AIMC 2017) at UTM, Johor Bahru on 1 May 2017.
- 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.
- Invited speaker at the International Conference in Organic Synthesis 2016 (ICOS 2016) held in Kuching, Sarawak on 22 August 2016.
- Keynote speaker at the 4th International Conference on Advanced Materials Science and Engineering (ICAMST) 2016 held in Malang on 27 September 2016.
- Keynote speaker at International Seminar on New Paradigm and Innovation of Natural Sciences and its Application (ISNPINSA) held in Semarang 05 October 2016.
- Keynote speaker at the Conference organized by Faculty of Mathematics and Natural Sciences of Universitas Mulawarman held in Balikpapan on 19 October 2016.
- Invited speaker at International Seminar on Improve Human Resources in Industry Skill for ASEAN Economic Community, Universitas Riau, 9 April 2016.
- Invited speaker at Universitas Negeri Malang (UM) on 18 December 2016. 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.
- Invited speaker of Leadership Camp 2015, organized by Persatuan Pelajar Indonesia, Malaysia, 30 October 2015], at UTM.
- Keynote speakers at The International Conference on Mathematics, Science, Education and Technology which is held in Padang, Indonesia on 22 October 2015.
- 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.
- Keynote speakers at the International Conference on Conservation for Better Life which is held in Semarang, Indonesia from 11 to 13 September 2015.
- 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.

- Invited speaker to deliver lecture on Management and governance of university at Universitas Muhammadiyah Sumatera Barat (UMSB), 29 May 2015. Invited speaker to deliver lecture on scientific research and publication at Department of Chemistry, Universitas Negeri Padang (UNP), 29 May 2015.
- Keynote speaker at Seminar Nasional Kimia dan Pendidikan Kimia at Universitas Negeri Sebelas Maret (UNS) which was held in Surakarta, 18 April 2015.
- Keynote speaker at the 2nd International Renewable and Sustainable Energy Conference (IRSEC' 14), 17-19 October 2014, Ouarzazate, Morocco.
- Invited speaker at publication workshop, Water Research Alliance, Universiti Teknologi Malaysia 18 November 2014.
- Keynote speaker at 2nd ICONES (International Conference on Natural and Environmental Science), Darussalam, Indonesia 9-11 September 2014. This seminar was organized by Faculty of Mathematics and Natural Sciences, Syiah Kuala University.
- Invited speaker in science talk and laboratory demonstration, Ibnu Sina Institute for Fundamental Science Studies, Universiti Teknologi Malaysia, 18 August 2014.
- Keynote speaker at the 1st Academic Symposium on Integrating Knowledge (ASIK) held at Universitas Islam Negeri Alauddin, Makassar from 19 to 20 June 2014.
- Guest lecture at the Department of Chemical Engineering, Universitas Riau on 21-22 February 2014.
- Invited speaker at Global Research Training Directorate Research and Community Engagement University of Indonesia on 14-15 December 2013 at Mercure Hotel, Kuta, Bali, Indonesia.
- 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)
- 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.
- 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.
- 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.
- 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.
- 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.
- 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.
- Invited speaker at Congress of Indonesian Diaspora at Los Angeles Convention Center, US on 6 – 8 July 2012.
- 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.
- 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.
- 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.
- Invited speaker at The 12th International Conference on Quality in Research (QiR 2011) which is held in Bali, Indonesia on 4 – 7 July 2011.
- 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.
- Invited speaker at Learning orientation program on 23 June 2011 for doctoral program students who received scholarships from the Government of South Sulawesi Province.

- 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.
- 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
- Visiting Associate Professor at Department of Chemistry, Institut Teknologi Bandung from 15 to 20 November 2009.
- Keynote speaker at the national seminar on chemistry and chemistry education organized by Universitas Negeri Semarang held on 10 October 2009, in Puri Garden Hotel, Semarang, Indonesia.
- Invited speaker at Workshop on Catalysis, Department of Chemistry, Institut Teknologi Sepuluh Nopember (ITS), Surabaya, 25 August 2008.
- Universiti Teknologi Malaysia (UTM) Publication Award (International publication category), 2007.
- Universiti Teknologi Malaysia (UTM) Publication Award (International publication category), 2006.
- Keynote lecture at Seminar Nasional Kimia IX (National Seminar on Chemistry IX) at Institut Teknologi Sepuluh Nopember (ITS), Surabaya, Indonesia, 24 July 2007.
- Invited to give lecture at the Graduate School of Engineering Science, Osaka University, 11 June 2007.
- Universiti Teknologi Malaysia (UTM) Excellent Service Award, 2005 (*Anugerah Perkhidmatan Cemerlang UTM Tahun 2005*).
- Invited to give lecture on "Scientific Writing" on 2 June 2005 to staff of Department of Science and Mathematics, Kolej Universiti Teknikal Kebangsaan Malaysia at Le Paris Hotel, Port Dickson, Malaysia.
- Invited to give lecture on "Synthesis and Characterization of Zeolites" to researchers of Mineral Research Center, Department of Minerals and Geoscience Malaysia, Ipoh, 3 – 6 May 2005.
- Guest Lecturer at COMBICAT research group, Universiti Kebangsaan Malaysia, 26 – 27 March 2004.

Collaboration/MOU

- Graduate School of Engineering Science, Osaka University (2008 – present)
- Institut Teknologi Bandung (2010 – present)
- Universitas Indonesia (2010 – present)
- Universitas Negeri Malang (2020 – present)
- Universitas Pertamina (2017 – 2020)

Entrepreneurship

- Director, 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 policy makers 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).

Mentoring

I have supervised 4 postdoctoral researchers, 37 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 (5)

- Nor Arbani Sean
- Haryani Mohd Yatim
- Nur Syuhada Ibrahim
- Ghozlan Elbashir M. Amer
- Daing Hanum Farhana Ab Munap

Current M.Sc. students (5)

- Siti Sarah Osman
- Nur Syahirah Sahidan
- Nurfatin Musa
- Rooshan Watanpal

Current B.Sc. students (4)

- Wan Noor Azita Aini Wan Salleh
- Suziana Badir Noon Zaman
- Wong Keh Li
- Norhaninah Abdul Manan

Former Postdocs (4)

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

Ph.D. students' alumni (33)

- Didik Prasetyoko (2006)
- Fitri Hayati (2009)
- Eriawan Rismana (2010)
- Amin Eisazadeh Otaghsaraei (2010)
- Surya Lubis (2013)
- Nursyafreena Attan (2013)
- Umar Kalmar Nizar (2014)
- Lai Sin Yuan (2014)
- Norfatimah Yahaya (2014)
- Khitam Abdulhussein Saeed (2014)
- Nur Hidayah Mohd Ran (2014)
- Syamsi Aini (2014)
- Mukhamad Nurhadi (2014)
- Mita Rilyanti (2015)
- Mohammed Salisu Musa (2015)
- Pratama Jujur Wibawa (2015)
- Yelmida Aziz (2015)
- Fatemeh Yaghoubi Doust (2016)
- Mohd Dzul Hakim Wirzal (2016)
- Afrouz Baharvand (2016)
- Parisa Pourdayhimi (2016)
- Shokoh Parham (2016)

- Shafiyah Pondi (2017)
- Mohamad Haqzim Ayob (2018)
- Abdul Hakim Md Yusop (2018)
- Nur Izzati Abu Bakar (2018)
- Farah Syuhada Abdul Halim (2018)
- Nurul Najidah Mohamed (2018)
- Nor Syahiran Zahidin (2019)
- Rasidah Razali (2019)
- Jamillah Amer Nordin (2019)
- Siti Hajar Alias (2020)
- Ani Iryani (2020)

M.Sc. students' alumni (18)

- Norizah Abdul Rahman (2005)
- Helda Hamid (2005)
- Ng Yun Hau (2005)
- Gui Lee Kee (2008)
- Izan Izwan Misnon (2008)
- Yong Khun Fong (2008)
- Sheela Chandren (2008)
- Sasha Md Nasir (2010)
- Amelia Boon Hoo (2011)
- Farizan Mohamad (2012)
- Nor Rashidah Md Juremi (2012)
- Syaiful Akhmal Saadon (2013)
- Nur Izzati Abu Bakar (2014)
- Nur Nadira Sulaiman (2014)
- Shamsuddin Chik Zi (2015)
- Nor Arbani Sean (2017)
- Nur Adilah Hussien (2019)
- Syahira Omar (2020)
- Khairiah Mohd Yatim (2020)

B.Sc. students' alumni (47)

- Amir Faizal Naidu Abdul Manan (2004)
- Izan Izwan Misnon (2005)
- Shahmeen Ismail (2006)
- Nurulashikin Mohd Ariffin (2006)
- Chua Yew Hean (2006)
- Farah Hannan Anuar (2007)
- Sim Sau Teing (2007)
- Nur Hajarul Aswani Moamail (2007)
- Norazlizan Abul Rashid (2008)
- Noor Ayu Ismail (2008)
- Jessie Jessica Anak Robin (2008)
- Raazatul Aidah Abd Latif (2008)
- Norshahida Zamahsari (2008)
- Intan Dayana Samsuri (2008)
- Ng Kar Fai (2009)
- Ang Wai Leong (2009)
- Salmi Fathiyah Sheikh Salim (2010)
- Siti Shahidaan Abdul Aziz (2010)
- Noorulsyahidaini Golbaha (2010)
- Lai Sin Yuan (2010)
- Hidayati Mohamad Mukhair (2010)
- Mohd Hayrie Mohd Hatta (2011)

- Shazliana Mohamad @ Mat Yasin (2011)
- Teoh Leong Shen (2011)
- Noor Hidayah Mohd Jusoh (2011)
- Siti Noramallina Nazri (2012)
- Lim Chai Sin (2012)
- Ahmad Fahmi Abdullah (2012)
- Muhammad Nazrul Baharuddin (2013)
- Mohamad Faiz Othman (2013)
- Muhammad Nazrul Baharuddin (2014)
- Adilah Zainal Abidin (2014)
- Nur Adilah Hussien (2015)
- Nurul Izzati Abd Wahid (2015)
- Noor Azlinda Zulkabri (2015)
- Muhammad Ali Hakim Mohd Ali Raini (2016)
- Muhammad Amieroul Eirffan Mohamad (2016)
- Ros Amirah Rusli (2017)
- Rosmini Abdullah (2017)
- Huberta Juna Anak Gregory (2018)
- Nur Lina Muhd Yusof (2018)
- Nur Syafiqah Azmi (2018)
- Nurul Sakinah Ismail (2019)
- Vel Murugan A/L Nagalinggam (2019)
- Tey Chen Han (2020)
- Fatin Atiqah Faudzi (2020)
- Ng Wei Wei (2020)

Teaching

- Green Chemistry (SSCC 4363 – Sem 1 – 2020/2021)
- Solid State Chemistry (SSCC 4473 – Sem 2 – 2019/2020)
- Chemical Reactions Process (SSCC 3423 – Sem 1 – 2019/2020)
- Molecular Spectroscopy (SSCC 2473 – Sem 2 – 2018/2019)
- Green Chemistry (SSCC 4363 – Sem 1 – 2018/2019)
- Chemical Reactions Process (SSCC 3423 – Sem 2 – 2017/2018)
- Quantum Chemistry (SSCC 3463 – Sem 2 – 2017/2018)
- Green Chemistry (SSCC 4363 – Sem 1 – 2017/2018)
- Chemical Reactions Process (SSCC 3423 – Sem 2 – 2016/2017)
- Quantum Chemistry (SSCC 3463 – Sem 2 – 2016/2017)
- Physical Chemistry Laboratory (SSCC 2841 – Sem 1 – 2016/2017)
- Surface and Colloid Chemistry (SSCC 3423 – Sem 2 – 2015/2016)
- Quantum Chemistry (SSCC 3463 – Sem 2 – 2015/2016)
- Chemical Reactions Process (SSCC 4443 – Sem 2 – 2015/2016)
- Solid State Chemistry (SSCC 4473 – Sem 2 – 2014/2015)
- Chemical Reactions Process (SSCC 4443 – Sem 1 – 2014/2015)
- Quantum Chemistry (SSCC 3463 – Sem 2 – 2013/2014)
- Chemical Reactions Process (SSC 4443 – Sem 1 – 2013/2014)
- Molecular symmetry and spectroscopy (SSC 2433 – Sem 2 – 2011/2012)
- Molecular symmetry and spectroscopy (SSC 2433 – Sem 1 – 2011/2012)
- Surface and Colloid Chemistry (MSK1433 – Sem 1 – 2012/2013) [Lecture materials]
- Surface and Colloid Chemistry (MSK1433 – Sem 1 – 2011/2012)
- Advanced Physical Chemistry (MSK1413 – Sem 3 – 2010/2011)
- Advanced Spectroscopy (MSK1453 – Sem 2 – 2010/2011)
- Molecular Symmetry and Spectroscopy (SSC 2433 – Sem 1 – 2010/2011)
- Solid State Chemistry (SSC 3473 – Sem 2 – 2009/2010)
- Quantum Chemistry and Spectroscopy (SSC 2463 – Sem 1 – 2009/2010)
- Solid State Chemistry (SSC 3473 – Sem 2 – 2008/2009)
- Quantum Chemistry and Spectroscopy (SSC 2463 – Sem 1 – 2008/2009)
- Industrial Chemical Process (SSC 2423 – Sem 2 2007/2008)

- Quantum Chemistry and Spectroscopy (SSK 2463 Sem 1 -2007/2008)
- Physical Chemistry II (SSC 2413 – Sem 1 2006/2007)
- Materials Chemistry (SSK 3752 – Sem 1 2005/2006)
- Materials Chemistry (SSK 3752 – Sem 2 2004/2005)
- Quantum Chemistry and Spectroscopy (SSK 3443 – Sem 1 – 2004/2005)
- Advanced Spectroscopy (SSK 3423/MSK 1453 – Sem 2 – 2003/2004)

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

- A. Kalilur Rahman, Ph.D. thesis, Department of Inorganic Chemistry, University of Madras, India (2008).
- Kasim Mohammed Hello, Ph.D. thesis, School of Chemical Sciences, Universiti Sains Malaysia (2010)
- Hiba Eltahier Hassan, M.Sc. thesis, School of Chemical Sciences, Universiti Sains Malaysia (2012)
- Siti Nooraisah Mohd Nordin, M.Sc. thesis, Department of Chemistry, Universiti Putra Malaysia (2012)
- Leaw Wai Loon, M.Sc. thesis, Department of Chemistry, Universiti Teknologi Malaysia (2012)
- Syafiqah Saidin. Ph.D. thesis, Universiti Teknologi Malaysia (2013)
- Nadirah Zawani Mohd Nesfu, M.Sc. thesis, Universiti Teknologi Malaysia (2013)
- Wan Rosemaria Nurul Huda Wan Baharom, M.Sc. thesis, Universiti Teknologi Malaysia (2013).
- Fatiha Ismail, Ph.D. thesis, Universiti Teknologi Malaysia (2013)
- Prof. Dr. T. M. I. Mahlia, Inaugural Professorial Lecture, Universiti Tenaga Nasional (2013)
- Syafiqah Syaidin, Ph.D. thesis, Faculty of Biosciences & Medical Engineering, Universiti Teknologi Malaysia (2013)
- Hammed Ademola Monsur, Ph.D. thesis, Kuliyah Engineering, International Islamic University Malaysia (2014)
- Nida Iqbal Khan, Ph.D. thesis, Universiti Teknologi Malaysia (2014)
- Siti Farhana Abu Osman, M.Sc. thesis, Department of Chemistry, Universiti Putra Malaysia (2014).
- Hammed Ademola Monsur, Ph.D. thesis, Kuliyah of Engineering, International Islamic University Malaysia (2014)
- Yuli Yetri, Ph.D. thesis, Department of Chemistry, Universitas Andalas, Indonesia (2015)
- Hartati, Ph.D. thesis, Department of Chemistry, Institut Teknologi Sepuluh Nopember, Indonesia (2015)
- Usman Bishir, Ph.D. thesis, Department of Chemistry, Universiti Teknologi Malaysia (2015)
- Lee Nian Yian, Ph.D. thesis, Department of Chemistry, Universiti Teknologi Malaysia (2015)
- Nur Istianah, M.Sc. thesis, Faculty of Biosciences & Medical Engineering, Universiti Teknologi Malaysia (2015)
- Leaw Wai Loon, Ph.D. thesis, Department of Chemistry, Universiti Teknologi Malaysia (2016)
- Nor Suriani Sani, Ph.D. thesis, Department of Chemistry, Universiti Teknologi Malaysia (2017)
- Sharanjit Singh, Ph.D. thesis, Department of Chemical Engineering, Universitas Malaysia Pahang (2018).
- Jamiluddin Jaafar, Ph.D. thesis, Department of Mechanical Engineering, Universitas Malaysia Pahang (2018)
- Nor Shafiqah Mohd Nasir, M.Sc. thesis, Department of Chemistry, Universitas Malaysia Pahang (2019)
- Iqrah Akbar, Ph.D. thesis, Kuliyah Engineering, International Islamic University Malaysia (2019)
- Nurlina Yusof, Ph.D. thesis, Kuliyah Engineering, International Islamic University Malaysia (2019)
- Nurul Huda Abu Bakar, Ph.D. thesis, Department of Chemistry, Universitas Malaysia Pahang (2020)
- Nuor Sariyan Suhaimin, Ph.D. thesis, Department of Chemistry, Universiti Teknologi Malaysia (2020)
- Iraj Alaei, Kuliyah Engineering, International Islamic University Malaysia (2020)
- Cheong Ying Wei, Universiti Sains Malaysia (2020)
- Mohammad Hazim Mohammad Hamdan, Universiti Malaysia Pahang (2020)

Research Grants

I was a principal investigator of 22 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.

- “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).
- “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)

- “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 Vol. 4F626 (Sub Project: R.J130000.7809.4F626 (RM113,000). 1 December 2014 - 30 November 2016 (Project leader)
- “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: Vol. 10J41 (Sub Project: Q.J130000.2601.10J41) (RM28,500). 1 May 2015 - 30 April 2015 (Project leader)
- “The nanoparticles metal-carbon with core/shell structure as selective and active catalyst in the oxidation of alkenes”, University Grant Program (GUP) - Tier 1: Vol. 06H22 (Sub Project: Q.J130000.2501.06H22) (RM60,000). 1 April 2014 - 31 March 2016 (Project leader)
- “Temperature-controlled selectivity in oxidation of alkenes by using aqueous hydrogen peroxide by layer textile catalyst and its mechanism”, Fundamental Research Grant Scheme Vol. 4F169 (Sub Project: R.J130000.7826.4F169) (RM92,000). 1 April 2013 - 31 March 2015 (Project leader)
- “Well-Aligned Titania Synthesized Under Magnetic Field by Using Liquid Crystal as Alignment Agent for Solar Cells Application”, University Grant Program (GUP) - PDRU: Vol. 02E05 (Sub Project: Q.J130000.21A2.02E05) (RM77,000). 1 November 2014 - 31 October 2015 (Project leader)
- “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: Vol. 01E47 (Sub Project: Q.J130000.21A2.01E47) (RM77,000). 1 April 2014 - 31 March 2015 (Project leader)
- Well-Aligned Titania Synthesized Under Magnetic Field by Using Liquid Crystal as Alignment Agent for Solar Cells Application”, University Grant Program (GUP) - PDRU: Vol. 00E99 (Sub Project: Q.J130000.21A2.00E99) (RM77,000). 1 November 2013 - 31 October 2014 (Project leader)
- “Well-aligned titania with high length to diameter ratio synthesized under magnetic field using liquid crystal”, University Grant Program (GUP) - Tier 1: Vol. 03H88 (Sub Project: Q.J130000.2526.03H88) (RM120,000). 1 December 2012 - 30 November 2014 (Project leader)
- “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)
- “Synthesis of preferred oriented titanium dioxide materials under strong magnetic field and their photocatalytic activity”, Nippon Sheet Glass Foundation for Materials Science and Engineering Vol. 4B054 (Sub Project: J13000073264B054) (USD 6,000). 2012-2013 (Project leader)
- “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)
- “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)
- “Electric field-induced catalysis over electrically conducting surface”, Fundamental Research Grant Scheme Vol. 78472 (RM 32,000) 2009-2011 (14/11/2011) (Project leader)
- “A novel design of heterogeneous catalyst for liquid-gas reaction system using hollow polymer nanospheres”, Sciencefund research grant: Vol: 79384 (RM 218,000) 2009-2011 (30/09/2011) (Project leader)
- “Structure-catalytic activity relationship of hydrolyzed alkylsilane functionalized with amino acid as heterogeneous micellar catalysis”, Fundamental Research Grant Scheme: Vol: 78399 (RM 46,000) 2009-2011 (13/08/2011) (Project leader)
- “Gold nanoparticles embedded on polymeric layer as novel label for biological diagnostics”, Sciencefund research grant: Vol: 79126 (RM 184,000) 2007-2009 (Project leader)
- “Mechanocatalysis with electrically induced contractile electro-active polymer”, Fundamental Research Grant Scheme: Vol. 78070 (RM 61,000) 2007-2009 (Project Leader).
- “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: Vol 73323 (Project Leader).
- “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: Vol 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.

- "Microheterogeneous catalytic system for oxidation reaction with aqueous hydrogen peroxide", 2002-2007, IRPA Top-down RM 8 research grant (RM 650,000) (Researcher).
- "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).
- "Metal-substituted AlPO₄-5 molecular sieves as potential catalysts for conversion of alcohols", IRPA EAR RM 7 research grant, 1995-1998 (Researcher).
- "Direct Synthesis of NaA Zeolite from Rice Husk and Carbonaceous Rice Husk Ash", IRPA EAR RM 7 research grant, 1995-2000 (Researcher).

Editorial Activities

- Associate Editor of Frontiers in Chemistry, Catalysis and Photocatalysis Section (Impact Factor = 3.693) (2016 – present)
 - Associate Editor of Frontiers in Chemistry, Chemical engineering Section (2018 – present)
 - Editor-in-chief of Malaysian Journal of Fundamental and Applied Sciences (MJFAS) (2015 – present). MJFAS is the recipient of Current Research in Malaysia (CREAM 2018) Awards by the Ministry of Education Malaysia.
 - Editor of Jurnal Teknologi (2010 – present)
 - Regional Editor (Main Handling Editor) for Asia-Pacific of Bulletin of Chemical Reaction Engineering and Catalysis (BCREC) (2006 – present)
 - Editor of Nusantara Halal Journal (2020 – present)
 - Editor of Molekul (2017 – present)
 - Reviewers*): (24) Catalysis Communications, (11) Chemical Engineering Journal, (9) Journal of Coatings Technology and Research, (8) Journal of Composite Materials, (7) Bulletin of Chemical Reaction Engineering and Catalysis, (7) Materials Chemistry and Physics, (6) Materials Research Bulletin, (5) Journal of Materials Science, (4) Journal of Materials Research and Technology, (3) Ceramics International, (3) Industrial & Engineering Chemistry Research, (3) Journal of Molecular Catalysis A: Chemical, (3) Journal of Photochemistry and Photobiology B: Biology, (2) ACS Catalysis, (2) Applied Clay Science, (2) Carbohydrate Polymers, (2) Catalysis Letters, (2) International Journal of Energy Research, (2) Journal of Photochemistry and Photobiology A: Chemistry, (2) New Journal of Chemistry, (2) RSC Advances, (1) ACS Applied Materials & Interfaces, (1) Applied Surface Science, (1) Catalysis Today, (1) Cellulose, (1) Chemical Engineering Research and Design, (1) Chemical Papers, (1) Construction and Building Materials, (1) Environmental Science & Technology, (1) Frontiers in Chemistry, (1) Inorganic and Nano-Metal Chemistry, (1) International Journal of Technology, (1) Journal of Alloys and Compounds, (1) Journal of Analytical Methods in Chemistry, (1) Journal of Colloid and Interface Science, (1) Journal of Environmental Management, (1) Journal of Hazardous Materials, (1) Journal of Liquid Chromatography & Related Technologies, (1) Journal of Theoretical and Applied Physics, (1) Journal of Thermoplastic Composite Materials, (1) Materials & Design, (1) Materials Science and Engineering B, (1) Mineral Processing and Extractive Metallurgy Review, (1) Pharmacognosy Research, (1) Plos One, (1) Progress in Organic Coatings, (1) Reaction Kinetics and Catalysis Letters, (1) Research on Chemical Intermediates, (1) Royal Society Open Science, (1) Solar Energy Materials and Solar Cells, (1) Springer Nature, (1) The Journal of Physical Chemistry.
- (* The number in parentheses is the number of papers reviewed).

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 = 24, ISI h-index = 23 and Google Scholar H-index = 32)

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

- [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. Mislán, 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. Yulianti (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.

Refereed Journals

*Corresponding author

- [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] 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 ofazole antifungal agents from aqueous matrices", *Separation Science and Technology*, 55 (2020) 3102-3112.
- [14] 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*, in press (Published online: 21 October 2020).
- [15] N.A. Sean, W.L. Leaw, E. Abouzari-lotf, H. Nur*, "Magnetic field-induced alignment of polybenzimidazole microstructures to enhance proton conduction", *Journal of the Chinese Chemical Society*, in press (Published online: 5 October 2020).
- [16] 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.
- [17] 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.
- [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] S. Sendari*, M. Jiono, M. Diantoro, P. Puspitasari, H. Surjanto, H. Nur, "Augmented Reality for Introducing Fuel Cell as Electrochemical Energy Conversion on Vocational School", *International Association of Online Engineering*, 14 (2020) 16-28.
- [22] 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.
- [23] 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
- [24] 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.
- [25] I. Sukmana*, S. Savetlana, Y. Burhanudin, M.A. Wicaksono, H. Nur, "A novel porous magnesium production through powder metallurgy technique using wire-pieces of titanium space holder for bone scaffold materials", *Journal of Engineering and Scientific Research*, 1 (2020), 78 – 83.
- [26] P.J. Wibawa*, M. Nur, M. Asy'ari, H. Nur, "SEM, XRD and FTIR analyses of both ultrasonic and heat generated activated carbon black microstructures", *Heliyon*, 6 (2020), e03546.
- [27] S. Parham, A.Z. Kharazi, H.R. Bakhsheshi-Rad, H. Ghayour, A.F. Ismail, H. Nur, F. Berto*, "Electrospun Nano-Fibers for Biomedical and Tissue Engineering Applications: A Comprehensive Review", *Materials*, 13 (2020), 2153.
- [28] D. Prasetyoko, M. Santoso, I. Qoniah, W.L. Leaw, P B.D. Firda, H. Nur*, "A review on synthesis of kaolin-based zeolite and the effect of impurities", *Journal of the Chinese Chemical Society*, 67 (2020), 911-936.
- [29] A. Iryani, H. Nur, M. Santoso, D. Hartanto*, "Adsorption Study of Rhodamine B and Methylene Blue Dyes with ZSM-5 Directly Synthesized from Bangka Kaolin without Organic Template", *Indonesian Journal of Chemistry*, 20 (2020), 130-140.
- [30] H. Nur*, "A perspective on catalysis in the immiscible liquid-liquid system", *Journal of the Indonesian Chemical Society*, 2 (2019), 66-71
- [31] M. Nurhadi*, R. Kusumawardani, W. Wirhanuddin, R. Gunawan, H. Nur, "Carbon-containing Hydroxyapatite Obtained from Fish Bone as Low-cost Mesoporous Material for Methylene Blue Adsorption", *Bulletin of Chemical Reaction Engineering & Catalysis*, 14 (2019), 660-671.
- [32] N. Yahaya*, S. Kamaruzaman, M.M. Sanagi, W.A.W. 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*, (2019).
- [33] N.A. Sean, W.L. Leaw, H. Nur*, "Effect of calcination temperature on the photocatalytic activity of carbon-doped titanium dioxide revealed by photoluminescence study", *Journal of the Chinese Chemical Society*, 66 (2019), 1277-1283.
- [34] N.A. Rusli*, R. Muhammad, S.K. Ghoshal, H. Nur, N. Nayan, S.N. Jaafar, "Bias voltage dependent structure and morphology evolution of magnetron sputtered YSZ thin film: a basic insight", *Materials Research Express*, 66 (2019), 106414.
- [35] F. Yaghoubidoust, E. Salimi, A. A. Ati, H. Nur*, "Investigating the catalytic activity of a novel phase boundary catalyst in oxidation of styrene", *Asia-Pacific Journal of Chemical Engineering*, (2019), e2350.
- [36] Y. Kusumawati*, N.I. Oktavianti, L.W. Oktavia, N. Widiastuti, L. Atmaja, N.I.A. Bakar, H. Nur, "Combined Computational and Experimental Study the Effect of Doped Magnesium into Betanine-sensitized TiO₂ Photoanode for Dye-Sensitized Solar Cells Application", *Indonesian Journal of Chemistry*, 19 (2019), 892-899.
- [37] H. Hartati, M. Santoso, H. Nur, L.W. Loon, H. Bahruji, I. Qoniah, D. Prasetyoko*, "Selective Hierarchical Aluminosilicates for Acetalization Reaction with Propylene Glycol", *Indonesian Journal of Chemistry*, 19 (2019), 975-984.
- [38] P. Pourdayhimi, P.W. Koh, H. Nur, S.L. Lee*, "Highly Crystalline Zinc Oxide/Mesoporous Hollow Silica Composites Synthesized at Low Temperature for the Photocatalytic Degradation of Sodium Dodecylbenzenesulfonate", *Australian Journal of Chemistry*, 72 (2019), 252-259.
- [40] S. Parham, D.H.B. Wicaksono, H. Nur*, "A proposed mechanism of action of textile/Al₂O₃-TiO₂ bimetal oxide nanocomposite as an antimicrobial agent", *The Journal of The Textile Institute*, 110 (2019), 1-8.
- [41] A. Nurul Aini, D.A. Al Farraj, Endarko, A. Rubiyanto, H. Nur, M.M. Al Khulaifi, T. Hadibarata, A. Syaifuddin*, "A new green method for the synthesis of silver nanoparticles and their antibacterial

- activities against gram-positive and gram-negative bacteria”, *Journal of the Chinese Chemical Society*, 66 (2019), 705-712
- [42] Y. Rilda, R. Safitri, Y.E. Putri, R. Refinel, A. Agustien, W.L. Leaw, H. Nur, “Hexamethyldisiloxane-modified ZnO-SiO₂-coated superhydrophobic textiles for antibacterial application”, *Journal of the Chinese Chemical Society*, 66 (2019), 594-599.
- [43] D. Hartanto, R. Kurniawati, A.B. Pambudi, W.P. Utomo, W.L. Leaw, H. Nur*, “One-pot non-template synthesis of hierarchical ZSM-5 from kaolin source”, *Solid State Sciences*, 87 (2019) 150-154.
- [44] V.N. Iftitahiyah, D. Prasetyoko*, H. Nur, H. Bahruji, Hartati, “Synthesis and characterization of zeolite NaX from Bangka Belitung Kaolin as alternative precursor”, *Malaysian Journal of Fundamental and Applied Sciences*, 14 (2018) 414-418.
- [45] A.H. Yusop, M.N. Sarian, F.S. Januddi, Q.U. Ahmed, M.R Kadir, D. Hartanto, H. Hermawan, H. Nur*, “Structure, degradation, drug release and mechanical properties relationships of iron-based drug eluting scaffolds: The effects of PLGA”, *Materials & Design*, 160 (2018) 203-217.
- [46] M. Nurhadi*, R. Kusumawardani, H. Nur*, “Negative Effect of Calcination to Catalytic Performance of Coal Char-loaded TiO₂ Catalyst in Styrene Oxidation with Hydrogen Peroxide as Oxidant”, *Bulletin of Chemical Reaction Engineering & Catalysis*, 13 (2018) 113-118.
- [47] A. Bakar, N. Izzati, S. Chandren, N. Attan, W.L. Leaw, H. Nur*, “One-dimensional-like titania/4'-pentyl-4-biphenylcarbonitrile composite synthesized under magnetic field and its structure-photocatalytic activity relationship”, *Frontiers in Chemistry*, (2018), 6:370.
- [48] S. Pondi, L.W. Loon, S. Chandren, H. Nur, “Release of curcumin incorporated in albumin loaded silica”, *Malaysian Journal of Fundamental and Applied Sciences*, 14 (2018) 109-115.
- [49] M. Nurhadi*, R. Kusumawardani, H. Nur, “Negative Effect of Calcination to Catalytic Performance of Coal Char-loaded TiO₂ Catalyst in Styrene Oxidation with Hydrogen Peroxide as Oxidant”, *Bulletin of Chemical Reaction Engineering & Catalysis*, 13 (2018), 113-118.
- [50] N.S. Zahidin, R.M. Zulkifli, I.I. Muhamad, H. Ya'akob, H. Nur, A.H.M. Shariff, “Preliminary Study of Potential Herbal Tea, *Acalypha indica* and Comparison with Domestic Tea in Malaysia Market”, *Food Science and Technology*, 6 (2018) 41-45.
- [51] N.S. Zahidin, S. Saidin, R.M. Zulkifli, I.I. Muhamad, H. Ya'akob, H. Nur*, “A review of *Acalypha indica* L. (Euphorbiaceae) as traditional medicinal plant and its therapeutic potential”, *Journal of Ethnopharmacology*, 207 (2017), 146-173.
- [52] S. Chandren*, K. Ismail, H. Nur, B. Ohtani, “Preparation of Titania on Stainless Steel by the Spray-ILGAR Technique as Active Photocatalyst under UV Light Irradiation for the Decomposition of Acetaldehyde”, *Applied Sciences*, 7 (2017), 698.
- [53] A. Syafiuddin, Salmiati*, M.R. Salim, A.B.H. Kueh, T. Hadibarata, H. Nur, “A Review of Silver Nanoparticles: Research Trends, Global Consumption, Synthesis, Properties, and Future Challenges”, *Journal of the Chinese Chemical Society*, 64 (2017) 732-756.
- [54] S. Parham, M. Nemati, S. Sadir, S. Bagherbaigi, D.H.B. Wicaksono*, H. Nur*, “In-Situ Synthesis of Silver Nanoparticles for Ag-NPs/Cotton Nanocomposite and Its Bactericidal Effect”, *Journal of the Chinese Chemical Society*, in press.
- [55] Y. Rilda, R. Safitri, A. Agustien, N. Nasir, A. Syafiuddin, H. Nur*, “Enhancement of Antibacterial Capability of Cotton Textiles Coated with TiO₂-SiO₂/Chitosan using Hydrophobization”, *Journal of the Chinese Chemical Society*, in press.
- [56] I. Parno, S. Chandren, H. Nur, K. Kamarulafizam, “Titania-based photocatalysts functionalized on stainless steel and its photocatalytic antibacterial activity”, *Malaysian Journal of Catalysis*, 2 (2017) 67-72.
- [57] D. Prasetyoko*, Rustam, R. Ediati, B. Septiyana, Y.M. Zein, H. Bahruji, I. Qoniah, Hartati, H. Nur, “Direct synthesis of ZSM-5 from kaolin and the influence of organic template”, *Malaysian Journal of Fundamental and Applied Sciences*, 13 (2017) 137-142.
- [58] M. Nurhadi, S. Chandren, L.S. Yuan, C.S. Ho, T.M.I. Mahlia, H. Nur*, “Titania-Loaded Coal Char as Catalyst in Oxidation of Styrene with Aqueous Hydrogen Peroxide International”, *Journal of Chemical Reactor Engineering*, 15 (2017) 45-55.
- [59] N. Yahaya, M.M. Sanagi*, N.A. Aziz, W.A. Wan Ibrahim, H. Nur, S.H. Loh, S. Kamaruzaman, “A rapid MCM-41 dispersive micro-solid phase extraction coupled with LC/MS/MS for quantification of ketoconazole and voriconazole in biological fluids”, *Biomedical Chromatography*, 31 (2017) e3803.
- [60] N.D. Zainal, H. Nur, S.L. Lee*, “Highly homogeneous nitrogen doped titania nanomaterials: Synthesis and characterization”, *Jurnal Teknologi*, 78 (2016) 117-120.
- [61] S.C. Mi, H. Nur, L.S. Ling*, “Novel oxidative-acidic bifunctional catalyst of tungsten-phosphate modified silica-titania”, *Malaysian Journal of Fundamental and Applied Sciences*, 11 (2015) 122-125.

- [62] D. Hartanto, L.S. Yuan, S.M. Sari, D. Sugiarso, I.K. Murwarni, T. Ersam, D. Prasetyoko, H. Nur*, "The use of the combination of FTIR, pyridine adsorption, ^{27}Al and ^{29}Si MAS NMR to determine the Brönsted and Lewis acid sites", *Jurnal Teknologi*, 78 (2016) 223-228.
- [63] A. Samavati*, A.F. Ismail, H. Nur, Z. Othaman, M.K. Mustafa, "Spectral features and antibacterial properties of Cu-doped ZnO nanoparticles prepared by sol-gel method", *Chinese Physics B*, 25 (2016) 077803
- [64] Y. Rilda, Fadhli, Syukri, A. Alif, H. Aziz, S. Chandren, H. Nur*, "Self-cleaning TiO_2 - SiO_2 clusters on cotton textile prepared by dip-spin coating process", *Jurnal Teknologi*, 78 (2016), 113-120.
- [65] A. Baharvand, R. Ali, H. Nur*, "Imazalil sulphate pesticide degradation using silver loaded hollow anatase TiO_2 under UV light irradiation", *Malaysian Journal of Fundamental and Applied Sciences*, 12 (2016) 60-67.
- [66] D. Hartanto, L.S. Yuan, S.M. Sari, D. Sugiarso, I.K. Murwani, T. Ersam, D. Prasetyoko, H. Nur*, "Can kaolin function as source of alumina in the synthesis of ZSM-5 without an organic template using a seeding technique?", *Malaysian Journal of Fundamental and Applied Sciences*, 12 (2016) 85-90.
- [67] M. Rilyanti, R.R. Mukti*, G.T.M. Kadja, M. Ogura, H. Nur, EP Ng, "On the drastic reduction of organic structure directing agent in the steam-assisted crystallization of zeolite with hierarchical porosity", *Microporous and Mesoporous Materials*, 230 (2016), 30-38.
- [68] A.P.M. Saad, N. Jasmawati, M.N. Harun, M.R.A. Kadir, H. Nur, H. Hermawan, A. Syahrom*, "Dynamic degradation of porous magnesium under a simulated environment of human cancellous bone", *Corrosion Science*, 112 (2016) 495-506.
- [69] H.B. Aditiya, T.M.I. Mahlia, W.T. Chong, H. Nur, A.H. Sebayang, "Second generation bioethanol production: A critical review", *Renewable and Sustainable Energy Reviews*, 66 (2016) 631-653.
- [70] A. Samavati*, H. Nur, A. F. Ismail, Z. Othaman, "Radio frequency magnetron sputtered ZnO/ SiO_2 /glass: role of ZnO thickness on structural and optical properties", *Journal of Alloys and Compounds*, 671 (2016) 170-176.
- [71] P. Pourdayhimi, P.W. Koh, M.M. Salleh, H. Nur, S.L. Lee*, "Zinc Oxide Nanoparticles Immobilized Mesoporous Hollow Silica Spheres for Photodegradation of Sodium Dodecylbenzenesulfonate", *Australian Journal of Chemistry*, 69 (2016) 790-797.
- [72] S. Parham, D.H.B Wicaksono, S. Bagherbeigi, S.L. Lee, L.S. Yuan, H. Nur*, "Antimicrobial Treatment of Different Metal Oxide Nanoparticles: A critical review", *Journal of the Chinese Chemical Society*, 63 (2016) 385-393.
- [73] Y. K. Ooi, L. Yuliaty, D. Hartanto, H. Nur, S.L. Lee*, "Mesoporous TUD-C Supported Molybdena Doped Titania as High Selective Oxidative Catalyst for Olefins Epoxidation at Ambient Condition", *Microporous and Mesoporous Materials*, 225 (2016) 411-420.
- [74] S. Zi, S. Chandren, L.S. Yuan, R. Razali, C.S. Ho, D. Hartanto, T.M.I. Mahlia, H. Nur*, "New method to synthesize mesoporous titania by photodegradation of surfactant template", *Solid State Sciences*, 52 (2016) 83-91.
- [75] S. A. Saadon, P. Sathishkumar, A.R.M. Yusoff*, M.D.H. Wirzal, M.T. Rahmalan, H. Nur, "Photocatalytic Activity and Reusability of ZnO Layer Synthesised by Electrolysis, Hydrogen Peroxide and Heat Treatment", *Environmental Technology*, 37 (2016) 1875-1882.
- [76] S. Parham, S. Chandren, D.H.B Wicaksono, S. Bagherbeigi, S.L. Lee, L.S. Yuan, H. Nur*, "Textile/ Al_2O_3 - TiO_2 Nanocomposite as an Antimicrobial and Radical Scavenger Wound Dressing", *RSC Advances*, 6 (2016) 8188-8197.
- [77] J. A. Nordin, D.H. Prajitno, S. Saidin, H. Nur*, H. Hermawan "Structure-property relationships of iron-hydroxyapatite ceramic matrix nanocomposite fabricated using mechanosynthesis method", *Materials Science and Engineering C: Materials for Biological Applications*, 51 (2015) 294-299.
- [78] L.S. Yuan, S. Chandren, J. Efendi, H. Chin Siong, H. Nur*, "Hydrophobic effect of silica functionalized with silylated Ti-salicylaldehyde complex on limonene oxidation by aqueous hydrogen peroxide", *Journal of Chemical Sciences*, 127 (2016) 1905-1917.
- [79] H. B. Aditiya, W.T. Chong, T.M.I. Mahlia, A.H. Sebayang, M.A. Berawi, H. Nur, "Second generation bioethanol potential from selected Malaysia's biodiversity biomasses: A review", *Waste Management*, 47 (2016) 46-61.
- [80] D. Hartanto, O. Saputro, W.P. Utomo, A. Rosyidah, D. Sugiarso, T. Ersam, H. Nur, D. Prasetyoko "Synthesis of ZSM-5 Directly from Kaolin without Organic Template: Part-1: Effect of Crystallization Time", *Asian Journal of Chemistry*, 28 (2016) 211-215.
- [81] M. Nurhadi, J. Efendi, S.L. Lee, T.M.I. Mahlia, S. Chandren, C.S Ho, H. Nur*, "Utilization of low rank coal as oxidation catalyst by controllable removal of its carbonaceous component", *Journal of the Taiwan Institute of Chemical Engineers*, 46C (2015) 183-190.

- [82] A.H.M. Yusop, N.M. Daud, H. Nur*, M.R.A. Kadir, H. Hermawan*, Controlling the degradation kinetics of porous iron by poly(lactic-co-glycolic acid) infiltration for use as temporary medical implants", *Scientific Reports*, 5 (2015) Article number: 11194.
- [83] Y. Azis, N. Jamarun, S. Arief, H. Nur*, "Facile synthesis of hydroxyapatite particles from cockle shells (*Anadara granosa*) by hydrothermal method", *Oriental Journal of Chemistry*, 31 (2015) 1099-1105.
- [84] M.S. Musa, M.M. Sanagi*, H. Nur, W.A.W. Ibrahim, "Understanding Pore Formation and Structural Deformation in Carbon Spheres During KOH Activation", *Sains Malaysiana*, 44 (2015) 613-618.
- [85] N.D. Zainal, H. Nur, S.L. Lee*, "Synthesis and characterization of nitrogen-doped titania nanomaterials of homogeneous particle size", *Malaysian Journal of Fundamental and Applied Sciences*, 11 (2015) 111-113.
- [86] M.S. Musa, M.M. Sanagi*, H. Nur, W.A.W. Ibrahim, "Microporous carbon spheres solid phase membrane tip extraction for the analysis of nitrosamines in water samples", *Malaysian Journal of Analytical Sciences*, 19 (2015) 325-337.
- [87] Y. Azis, N. Jamarun*, Zultiniar, S. Arief, H. Nur, "Synthesis of hydroxyapatite by hydrothermal method from cockle shell (*Anadara granosa*)", *Journal of Chemical and Pharmaceutical Research*, 7 (2015) 798-804.
- [88] A.M. Yusof, N.N. Sulaiman, H. Nur*, "Synthesis and characterizations of metal oxide-sulfonic acid functionalized ZSM-5 for photocatalytic degradation and adsorption of dimethylarsenic acid", *Applied Mechanics and Materials*, 699 (2015) 994-999.
- [89] A. Baharvand, A.M. Yusof, R. Ali, M.M. Sanagi, S. Chandren, H. Nur*, "Synthesis and characterization of hollow anatase TiO₂ spheres and its application in the photodegradation of γ -lindane under ultraviolet light", *Applied Mechanics and Materials*, 699 (2015) 245-250.
- [90] K. A. Saeed, K.A. Kassim, N.Z.M. Yunus, H. Nur, "Physicochemical characterization of lime stabilized tropical kaolin clay", *Jurnal Teknologi*, 73:2 (2015) 83-90.
- [91] F. Yaghoubidoust, D.H.B. Wicaksono, S. Chandren, H. Nur, "Effect of graphene oxide on the structural and electrochemical behavior of polypyrrole deposited on cotton fabric", *Journal of Molecular Structure*, 1075 (2014) 486-493
- [92] N. Yahaya, M.M. Sanagi*, T. Mitome, N. Nishiyama, W.A.W. Ibrahim, H. Nur, "Dispersive Micro-Solid Phase Extraction Combined with High-Performance Liquid Chromatography for the Determination of Three Penicillins in Milk Samples", *Food Analytical Methods*, 8 (2015) 1079-1087.
- [93] K. A. Saeed, K. A. Kassim, H. Nur, "Physicochemical characterization of cement treated kaolin clay", *Gradevinar*, 66 (2014) 513-521.
- [94] K.A. Saeed, K.A. Kassim, H. Nur, N.Z.M. Yunus, "Strength of lime - cement stabilized tropical lateritic clay contaminated by heavy metals", *KSCE Journal of Civil Engineering*, 19 (2015) 887-892.
- [95] A. Baharvand, R. Ali, A.M. Yusof, A.N. Ibrahim, S. Chandren, H. Nur*, "Preparation of anatase hollow TiO₂ spheres and their photocatalytic activity in the photodegradation of chlorpyrifos", *Journal of the Chinese Chemical Society*, 61 (2014) 1211-1216.
- [96] M.H. Ayob, J. Efendi, L.S. Yuan, S. Chandren, H.C. Siong, H. Nur*, "Synthesis and characterization of Cobalt(II) Salicylaldehyde Complex Supported on Silica Covered Magnetite", *Jurnal Teknologi*, 69:5 (2014) 21-23.
- [97] M.N. Najidah, L.S. Yuan, L.S. Ling, H.C. Siong, S. Chandren, H. Nur*, "Preparation of Hierarchical Porous Carbon Derived from *Averrhoa Bilimbi* and Its Diffusion Properties", *Jurnal Teknologi*, 69:5 (2014) 61-64.
- [98] M. Nurhadi, J. Efendi, L.S. Ling, T.M.I. Mahlia, H.C. Siong, L.S. Yuan, S. Chandren, H. Nur*, "Titanium Dioxide-Supported Sulfonated Low Rank Coal as Catalysts in the Oxidation of Styrene with Aqueous Hydrogen Peroxide", *Jurnal Teknologi*, 69:5 (2014) 71-79.
- [99] R. Razali, H.C. Siong, L.S. Yuan, S. Chandren, H. Nur*, "Some Aspects of Particulate Heterogeneous Catalysts", *Jurnal Teknologi*, 69:5 (2014) 95-101.
- [100] S. Pondi, J. Efendi, H. C. Siong, L. S. Yuan, S. Chandren, H. Nur*, "The Study of Albumin Release from Silica/Albumin as a Potential Drug Delivery Carrier", *Jurnal Teknologi*, 69:5 (2014) 113-117.
- [101] R. Ediati, M. Ulfa, H. Fansuri, Z. Ramli, H. Nur, D. Prasetyoko*, "Influence of TiO₂/TS-1 calcination on hydroxylation of phenol", *Journal of Mathematical and Fundamental Sciences*, 46 (2014) 76-90.
- [102] N. Yahaya, M. M. Sanagi*, H. Nur, W. A. W. Ibrahim, S. Kamaruzaman, H. Y. Aboul-Enein, "Solid Phase Membrane Tip Extraction Combined with Liquid Chromatography for the Determination of Azole Antifungal Drugs in Human Plasma", *Analytical Methods*, 6 (2014) 3375-3381.
- [103] F. Hayati, S. Chandren, H. Hamdan, H. Nur*, "The Role of Ti and Lewis Acidity in Manganese Oxide Octahedral Molecular Sieves Impregnated with Titanium in Oxidation Reactions", *Bulletin of Chemical Reaction Engineering and Catalysis*, 9 (2014) 28-38.

- [104] S. Aini, J. Efendi, H. O. Lintang, S. Chandren, H. Nur*, "Ti-Phenyl nanoparticles encapsulated in mesoporous silica as active and selective catalyst for the oxidation of alkenes", *Catalysis Communications*, 46 (2014) 150-155.
- [105] J.M. Ekhsan, S.L. Lee*, H. Nur, "Niobium oxide and phosphoric acid impregnated silica-titania as oxidative-acidic bifunctional catalyst", *Applied Catalysis A: General*, 471 (2014) 142-148.
- [106] N. Yahaya, T. Mitome, N. Nishiyama*, M.M. Sanagi*, W.A.W. Ibrahim, H. Nur, "Rapid Dispersive Micro-Solid Phase Extraction Using Mesoporous Carbon COU-2 in the Analysis of Cloxacillin in Water", *Journal of Pharmaceutical Innovation*, 8 (2013) 240-246.
- [107] J.A. Nordin, N.M. Daud, D.H. Prajitno, H. Nur, H. Hermawan*, "Synthesis of bovine hydroxyapatite-iron composite via dry mechanochemical process for biodegradable bone scaffolds", *European Cells and Materials Journal*, 23 (2013) (Suppl. 5) 10.
- [108] H. Fauzi, H.S.C. Metselaar*, T.M.I. Mahlia, M. Silakhori, H. Nur, "Phase change material: Optimizing the thermal properties and thermal conductivity of myristic acid/palmitic acid eutectic mixture with acid-based surfactants", *Applied Thermal Engineering*, 60 (2013) 261-265.
- [109] L.S. Yuan, R. Razali, J. Efendi, N.A. Buang, H. Nur*, "Temperature-controlled selectivity in oxidation of 1-octene by using aqueous hydrogen peroxide in phase-boundary catalytic system", *Applied Catalysis A: General*, 461 (2013) 21-25.
- [110] U.K. Nizar, J. Efendi, L. Yulianti, D. Gustiono, H. Nur*, "A new way to control the coordination of titanium (IV) in the sol-gel synthesis of alkyl silica-titania catalyst through addition of water", *Chemical Engineering Journal*, 222 (2013) 23-31.
- [111] P.J. Wibawa*, H. Saim, M.A. Agam, H. Nur, "Manufacturing and Morphological Analysis of Composite Material of Polystyrene Nanospheres/Cadmium Metal Nanoparticles", *Bulletin of Chemical Reaction Engineering & Catalysis*, 7 (2013) 224-232.
- [112] A. Eisazadeh*, K.A. Kassim, H. Nur, "Morphology and BET surface area of phosphoric acid stabilized tropical soils", *Engineering Geology*, 154 (2013) 36-41.
- [113] R.D. Ramdan, J.R.P. Djuansjah, M.R.A. Kadir, H. Nur, E. Hamzah, Formation of Titanium Oxide by Thermal-Electrochemical Process on the Blasted Titanium Alloys Substrate, *Advanced Materials Research*, 650 (2013) 12-17.
- [114] N.H.M. Ran, L. Yulianti, S.L. Lee, T.M.I. Mahlia, H. Nur*, "Liquid-gas boundary catalysis by using gold/polystyrene-coated hollow titania", *Journal of Colloid and Interface Science*, 394 (2013) 490-497.
- [115] S. Aini, J. Efendi, H.O. Lintang, H. Nur*, "Synthesis and characterization of Ti-Phenyl@SiO₂ core-shell nanoparticles catalyst", *The Malaysian Journal of Analytical Sciences*. 16 (2012) 226-233.
- [116] A. Eisazadeh*, K.A. Kassim, H. Nur, "Cation Exchange Capacity of Phosphoric Acid and Lime Stabilized Montmorillonitic and Kaolinitic Soils", *Geotechnical and Geological Engineering*, 30 (2012) 1435-1440.
- [117] A. Eisazadeh*, K.A. Kassim, H. Nur, "Solid-state NMR and FTIR studies of lime stabilized montmorillonitic and lateritic clays", *Applied Clay Science*, 67-68 (2012) 5-10.
- [118] S. Lubis, L. Yulianti, S.L. Lee, I. Sumpono, H. Nur*, "Improvement of catalytic activity in styrene oxidation of carbon-coated titania by formation of porous carbon layer", *Chemical Engineering Journal*, 209 (2012) 486-493.
- [119] N. Attan, H. Nur*, J. Efendi, H.O. Lintang, S.L. Lee, I. Sumpono, "Well-aligned titanium dioxide with very high length to diameter ratio synthesized under magnetic field", *Chemistry Letters*, 41 (2012) 1468-1471.
- [120] H. Nur*, G. L. Kee, H. Hamdan, T.M.I. Mahlia, J. Efendi, H.S.C. Metselaar "Organosulfonic acid functionalized zeolite ZSM-5 as temperature tolerant proton conducting material", *International Journal of Hydrogen Energy*, 37 (2012) 12513-12521.
- [121] H. Nur*, N. Attan, N. M. Ran, S. Ikeda, B. Ohtani "On Effective Locations of Catalytic Active Sites in Phase Boundary Catalyst", *ITB Journal of Science*, 44A (2012) 153-163.
- [122] M. H. Hasan*, T.M.I. Mahlia, H. Nur, "A review on energy scenario and sustainable energy in Indonesia", *Renewable and Sustainable Energy Reviews*, 16 (2012) 2316-2328.
- [123] L. S. Yuan, J. Efendi, N.S.H. Razali, H. Nur, "Fine-tuning the local structure and catalytic activity of titanium-amine functionalized silica in oxidation of limonene by aqueous hydrogen peroxide", *Catalysis Communications*, 20 (2012) 85-88.
- [124] E. Rismana, S. Endud, H. Nur, "Application of X-ray diffraction for characterization of CdS/polymer and stability of CdS/APTMS-Al-MCM-41 nanocomposites", *Jurnal Sains Materi Indonesia*, 13 (2012) 103-107.
- [125] E. Rismana, S. Endud, H. Nur, "Determination of Dielectric Property and Ionic Conductivity of CdS/SO₃H-P(S-DVB) Nanocomposites", *Jurnal Sains Materi Indonesia*, 13 (2012) 74-82.

- [126] A. Eisazadeh*, K.A. Kassim, H. Nur, "Stabilization of tropical kaolin soil with phosphoric acid and lime", *Natural Hazards*, 61 (2012) 931-942.
- [127] S.L. Lee*, H. Nur, S. C. Wei, "Effect of acid treatment on silica-titania aerogel as oxidative-acidic bifunctional catalyst", *Applied Mechanics and Materials*, 110-116 (2012) 457-464.
- [128] P. J. Wibawa*, H. Saim, M.A. Agam, H. Nur, "Design, Preparation and Characterization of Polystyrene Nanospheres Based-Porous Structure towards UV-Vis and Infrared Light Absorption", *Physics Procedia*, 22 (2011) 524-531.
- [129] I.I. Misnon, M.M. Yusoff, S.K. Muzakir, M.I.M. Rasid, H. Nur, "Amphiphilic solid basic catalyst for biodiesel production: Synthesis and characterization", *Malaysian Journal of Microscopy*, 7 (2011) 8-13.
- [130] H. Nur*, Z. Ramli, J. Efendi, A.N.A. Rahman, S. Chandren, L.S. Yuan, "Synergistic role of Lewis and Brønsted acidities in Friedel-Crafts alkylation of resorcinol over gallium-zeolite beta", *Catalysis Communications*, 12 (2011) 822-825.
- [131] A. Eisazadeh*, K.A. Kassim, H. Nur, "Characterization of phosphoric acid and lime stabilized lateritic clay", *Environmental Earth Sciences*, 63 (2011) 1057-1066.
- [132] J. Efendi*, M.H. Ayob, L.S. Yuan, H. Nur, "Sponged structured silica containing cobalt oxide as catalyst for hydrolysis of water Solution of sodium borohydride", *Journal of Fundamental Sciences*, 7 (2011) 133-136.
- [133] A. Eisazadeh, K.A. Kassim, H. Nur, "Cation exchange capacity of a quartz-rich soil in an acidic and basic environment", *Advanced Materials Research*, 255-260 (2011) 2766-2770.
- [134] H. Nur*, E. Rismana, S. Endud, "Dielectric enhancement in cadmium sulfide-poly(methacrylic acid-ethylene glycol dimethacrylic acid) nanocomposite through interfacial interaction", *Journal of Composite Materials*, 45 (2011) 2023-2030.
- [135] S.L. Lee, H. Nur, P.W. Koh, J.M. Ekhsan, S.C. Wei, "Synthesis and characterization of acid modified silica-titania aerogel as oxidative-acidic bifunctional catalyst", *International Journal of Applied Physics and Mathematics*, 1 (2011) 43-47.
- [136] A.B. Hoo, H. Nur*, "Effect of electric field in liquid phase oxidation of benzhydrol by aqueous hydrogen peroxide", *Journal of Fundamental Sciences*, 7 (2011) 57-61.
- [137] A. Eisazadeh*, K.A. Kassim, H. Nur, "Physicochemical characteristics of phosphoric acid stabilized bentonite", *The Electronic Journal of Geotechnical Engineering*, 15 (2010) Bund. C, 327-335.
- [138] A. Eisazadeh*, K.A. Kassim, H. Nur, "Molecular characteristics of phosphoric acid treated soils", *WorldAcademy of Science, Engineering and Technology*, 63 (2010) 1-3.
- [139] D. Prasetyoko, C.E. Royani, H. Fansuri, Z. Ramli, H. Nur, "Catalytic performance of Fe₂O₃/TS-1 catalyst in phenol hydroxylation", *Indonesian Journal of Chemistry*, 10 (2010) 149-155.
- [140] S. L. Lee*, S.C. Wei, H. Nur, H. Hamdan, "Enhancement of Brønsted acidity in sulfate-vanadium treated silica-titania aerogel as bifunctional catalyst", *International Journal of Chemical Reactor Engineering*, (2010) Vol. 8: A63.
- [141] S. Chandren, Z. Ramli, H. Nur*, "Friedel-Crafts alkylation of resorcinol over mesoporous alumina loaded with sulfuric acid", *International Journal of Chemical Reactor Engineering*, (2010) Vol. 8: A40.
- [142] H. Nur*, L.K. Wei, S. Endud, "Hydrolyzed octadecyltrichlorosilane functionalized with amino acid as heterogeneous enantioselective catalysts", *Reaction Kinetics and Catalysis Letters*, 98 (2009) 157-164.
- [143] S.L. Lee*, H. Nur, H. Hamdan, "Physical properties and bifunctional catalytic performance of phosphate-vanadium impregnated silica-titania aerogel", *Catalysis Letters*, 132 (2009) 28-33.
- [144] H. Nur*, I.I. Misnon, H. Hamdan, "Alkylsilylated gold loaded magnesium oxide aerogel catalyst in the oxidation of styrene", *Catalysis Letters*, 130 (2009) 161-168.
- [145] D. Prasetyoko*, H. Fansuri, Z. Ramli, S. Endud, H. Nur, "Tungsten oxides - containing titanium silicalite for liquid phase epoxidation of 1-octene with aqueous hydrogen peroxide", *Catalysis Letters*, 128 (2009) 177-182.
- [146] D. Prasetyoko*, Z. Ramli, S. Endud, H. Nur, "Characterization and catalytic performance of niobic acid dispersed over titanium silicalite", *Advances in Materials Science and Engineering*, vol. 2008, Article ID 345895, 12 pages, 2008. doi:10.1155/2008/345895.
- [147] S. Chandren, Z. Ramli*, H. Nur, "Reactivity and reusability of mesoporous alumina nanoparticles modified with sulfuric acid and niobic acid in the alkylation of resorcinol", *Journal of Fundamental Sciences*, 4 (2008) 321-327.
- [148] S.M. Nasir, H. Nur*, "Gold nanoparticles embedded on the surface of polyvinyl alcohol layer", *Journal of Fundamental Sciences*, 4 (2008) 245-252.

- [149] D. Prasetyoko*, Z. Ramli, S. Endud, H. Nur, "Structural characterization of tungsten oxides supported on titanium silicalite", *IPTEK, The Journal for Technology and Science*, 19 (2008) 49-56.
- [150] H. Nur, "The design and synthesis of heterogeneous catalyst systems for synthesis of useful organic compounds", *Akta Kimia Indonesia*, 3 (2007) 1-10. [Keynote paper at National Seminar on Chemistry IX at Institut Teknologi Sepuluh Nopember (ITS), Surabaya, Indonesia, 24 July 2007]
- [151] H. Nur*, I. I. Misnon, L. K. Wei, "Stannic oxide-titanium dioxide coupled semiconductor photocatalyst loaded with polyaniline for enhanced photocatalytic oxidation of 1-octene", *International Journal of Photoenergy*, vol. 2007, Article ID 98548, 6 pages, 2007. doi:10.1155/2007/98548.
- [152] H. Nur*, F. Hayati, H. Hamdan, "On the location of different titanium sites in Ti-OMS-2 and their catalytic role in oxidation of styrene", *Catalysis Communications*, 8 (2007) 2007-2011.
- [153] E.P. Ng*, H. Nur*, K.L. Wong, M.N.M. Muhid, H. Hamdan, "Generation of Brønsted acidity in AlMCM-41 by sulphation for enhanced liquid phase_tert-butylation of phenol", *Applied Catalysis A: General*, 323 (2007) 58-65.
- [154] N.Y. Hau*, I. I. Misnon, H. Nur, M.N.M. Muhid, H. Hamdan, "Biphasic epoxidation of 1-octene with H₂O₂ catalyzed by amphiphilic fluorinated Ti-loaded zirconia", *Journal of Fluorine Chemistry*, 128 (2007) 12-16.
- [155] H. Nur*, N. A. Rahman, S. Endud, L.K. Wei, "Thermal stability of conductivity of composite comprising polyaniline and MCM-41", *Malaysian Journal of Polymer*, 2(2) (2007) 12-21.
- [156] M.S. Umi Kalsom*, H. Nur, A.A. Norlea, S. Ngaspan, "Characterization of humic acid from humification of oil palm empty fruit bunch fibre using *Trichoderma viride*", *Journal of Tropical Agriculture and Food Science*, 34 (2006) 165-172.
- [157] H. Nur*, "Modification of titanium surface species of titania by attachment of silica nanoparticles", *Materials Science and Engineering B: Solid State Materials for Advanced Technology*, 133 (2006) 49-54.
- [158] H. Nur*, N.Y. Hau, I.I. Misnon, H. Hamdan, M.N.M. Muhid, "Hydrophobic fluorinated TiO₂-ZrO₂ as catalyst in epoxidation of 1-octene with aqueous hydrogen peroxide", *Materials Letters*, 60 (2006) 2274-2277.
- [159] S. Triwahyono*, A.A. Jalil, H. Nur, H. Hamdan, M. Kobayashi, "Development of membrane reactor for epoxidation of propylene to propylene oxide in a single step", *Journal - The Institution of Engineers, Malaysia*, 67 (2006) 7-12.
- [160] N. E. Poh, H. Nur, M. N. M. Muhid, H. Hamdan*, "Sulfated AlMCM-41: Mesoporous Solid Brønsted Acid Catalysts for Dibenzoylation of Biphenyl", *Catalysis Today*, 114 (2006) 257-262.
- [161] H. Nur*, H. Hamid, S. Endud, H. Hamdan, Z. Ramli, "Iron-Porphyrin Encapsulated in Poly(methacrylic) and Mesoporous Al-MCM-41 as Catalysts in the Oxidation of Benzene to Phenol", *Materials Chemistry and Physics*, 96 (2006) 337-342.
- [162] C. G. Lau, H. Nur* and S. Endud "Bimodal pore size mesoporous MCM-48 materials prepared by post-synthesis alumination", *Journal of Physical Science*, 17 (2006) 65-75.
- [163] F. Hayati, H. Nur, H. Hamdan, "Titanium Doped Octahedral Manganese Oxide Hybrid Catalyst in the Oxidation of Cyclohexene", *Buletin Kimia*, 21 (2005) 49-54.
- [164] E. Rismana, S. Endud, H. Nur, "Synthesis of CdS nanoparticles in HDTMAB/2-Propanol/Water/n-Decane Miniemulsion system", *Buletin Kimia*, 21 (2005) 55-65.
- [165] W.K. Man, Z. Ramli*, H. Nur, "Effect of Loaded Alkali Metals on The Structural, Basicity and Catalytic Activity of Zeolite Beta", *Jurnal Teknologi*, 42 (2005) 43-55.
- [166] D. Prasetyoko, Z. Ramli, S. Endud, H. Nur*, "TS-1 Loaded with Sulfated Zirconia as Bifunctional Oxidative and Acidic Catalyst for Transformation of 1-Octene to 1,2-Octanediol", *Journal of Molecular Catalysis A: Chemical*, 241 (2005) 118-125.
- [167] D. Prasetyoko*, Z. Ramli, S. Endud, H. Nur, "Niobic acid dispersed on the surface of TS-1: Acidity study", *Akta Kimia Indonesia*, 1 (2005) 11-16.
- [168] D. Prasetyoko, Z. Ramli, S. Endud, H. Nur*, "Enhancement of catalytic activity of Titanosilicalite-1 - sulfated zirconia combination towards epoxidation of 1-octene with aqueous hydrogen peroxide", *Reaction Kinetics and Catalysis Letters*, 86 (2005) 83-89.
- [169] D. Prasetyoko*, Z. Ramli, S. Endud, H. Nur, "Preparation and characterization of bifunctional oxidative and acidic catalysts Nb₂O₅/TS-1 for synthesis of diols", *Materials Chemistry and Physics*, 93 (2005) 443-449.
- [170] D. Prasetyoko, Z. Ramli*, S. Endud, H. Nur, "Structural and superacidity study of bifunctional catalyst, sulfated-titanium/TS-1", *Malaysian Journal of Chemistry*, 7 (2005) 11-18.
- [171] H. Hamdan*, V. Navijanti, H. Nur, M. N. M. Muhid., "Fe(III)-salen encapsulated Al-MCM-41 as a catalyst in the polymerisation of bisphenol-A", *Solid State Sciences*, 7 (2005) 239-244.

- [172] H. Nur*, A.F.N.A. Manan, L.K. Wei, M.N.M. Muhid and H. Hamdan. "Simultaneous adsorption of a mixture of paraquat and dye by NaY zeolite covered with alkylsilane", *Journal of Hazardous Materials*, 117 (2005) 35-40.
- [173] H. Nur*, D. Prasetyoko, Z. Ramli and S. Endud, "Sulfation: a simple method to enhance the catalytic activity of TS-1 in epoxidation of 1-octene with aqueous hydrogen peroxide", *Catalysis Communications*, 5 (2004) 725-728.
- [174] H. Nur*, S. Ikeda and B. Ohtani, "Phase-boundary catalysts for acid-catalyzed reactions: the role of bimodal amphiphilic structure and location of active sites", *Journal of Brazilian Chemical Society*, 15 (2004) 719-724.
- [175] H. Nur*, N.Y. Hau, M.N.M. Muhid, H. Hamdan, "Surface structure of alkylsilylated HZSM-5 as phase-boundary catalyst", *Physics Journal of the Indonesian Physical Society*, A7 (2004) 0218.
- [176] H. Nur*, S. Ikeda and B. Ohtani, "Amphiphilic NaY zeolite particles loaded with niobic acid: materials with applications for catalysis in immiscible liquid-liquid system", *Reaction Kinetics and Catalysis Letters*, 82 (2004) 255-261.
- [177] H. Nur*, C.G. Lau, S. Endud, H. Hamdan, "Quantitative measurement of a mixture of hexagonal MCM-41 and cubic MCM-48 mesophases by ^{13}C CP/MAS NMR", *Materials Letters*, 58 (2004) 1971-1974.
- [178] W.K. Man, H. Nur*, A.R. Yacob, Z. Ramli, "The basicity and acidity of beta zeolites after ion-exchange with alkali metal cations: a physicochemical characterization", *Physics Journal of the Indonesian Physical Society*, A7, 2004, 0211.
- [179] R.R. Mukti, H. Nur, S. Endud, H. Hamdan*, "Selective dibenzoylation of biphenyl to 4,4-dibenzoylbiphenyl over H-Al-MCM-41", *Studies in Surface Science and Catalysis*, 154, Part A-C, 2004, 2767-2772.
- [180] S. Ikeda, H. Nur, P. Wu, T. Tatsumi, B. Ohtani*, "Effect of titanium active site location on activity of phase boundary catalyst particle for alkene epoxidation with aqueous hydrogen peroxide", *Studies in Surface Science and Catalysis*, 145, 2003, 251-254.
- [181] H. Nur* and H. Hamdan, "Structural distortion in MeAPO-5 molecular sieves: a ^{31}P MAS NMR study" *Physics Journal of the Indonesian Physical Society*, A5 (2003) 0117.
- [182] H. Nur*, "Perspective on higher education and research in Indonesia, Malaysia and Japan" (*in Indonesian*), *Jurnal Forum Pendidikan*, 28 (2003) 363-371.
- [183] S. Ikeda, H. Nur, T. Sawadaishi, K. Ijiri, M. Shimomura, B. Ohtani*, "Direct observation of bimodal amphiphilic surface structures of zeolite particles for a novel liquid-liquid phase-boundary catalysis", *Langmuir*, 17 (2001) 7976-7979.
- [184] H. Nur, S. Ikeda, B. Ohtani*, "Phase-boundary catalysis of alkene epoxidation with aqueous hydrogen peroxide using amphiphilic zeolite particles loaded with titanium oxide", *Journal of Catalysis*, 204 (2001) 402-408.
- [185] H. Nur*, H. Hamdan, "The ionic size of metal atoms in correlation with acidity by the conversion of cyclohexanol over MeAPO-5", *Materials Research Bulletin*, 36 (2001) 315-322.
- [186] H. Nur*, "Direct Synthesis of NaA Zeolite from Rice Husk and Carbonaceous Rice Husk Ash", *Indonesian Journal of Agricultural Sciences*, 1 (2001) 40-45.
- [187] H. Nur, S. Ikeda, B. Ohtani*, "Phase-boundary catalysis: a new approach in alkene epoxidation with hydrogen peroxide by zeolite loaded with alkylsilane-covered titanium oxide", *Chemicals Communications*, 2000, 2235-2235.
- [188] H. Nur*, H. Hamdan, "Dehydration and dehydrogenation of cyclohexanol over $\text{AlPO}_4\text{-5}$ based molecular sieves", *Reaction Kinetics and Catalysis Letters*, 66 (1999) 33-38.
- [189] S. Endud, H. Nur, H. Hamdan*, "Probing the active sites of aluminated mesoporous molecular sieve MCM-41 by secondary synthesis in the conversion of cyclohexanol", *Studies in Surface Science and Catalysis*, 117 (1998) 453-459.
- [190] H. Nur*, H. Hamdan, "Deactivation modes and reactions over HZSM-5, $\text{AlPO}_4\text{-5}$ and MnAPSO-5 in conversion of cyclohexanol", *Buletin Kimia*, 13 (1998) 31-38.

Conference and Proceedings

- [191] T.C. Han, H Nur, "Preparation and Characterization of Platinum on Activated Carbon Support as the Electrode in Proton Exchange Membrane Fuel Cell", *eProceedings Chemistry*, 5 (2020) 1-5.
- [192] N.F.A.M. Faudzi, H. Nur, "Fabrication of Polybenzimidazole Membrane Based on Phosphotungstic Acid Doped For Fuel Cell Application", *eProceedings Chemistry*, 5 (2020) 21-25.

- [193] S. Sendari, M. Jiono, J. Jasmine, P. Puspitasari, H. Suryanto, M. Diantoro, H. Nur, "Web-Based Robo-PEM for Introducing Fuel Cell Implementation", 4th International Conference on Vocational Education and Training, 2020.
- [194] A. Iryani, R. Kurniawati, D. Hartanto, M. Santoso, H. Nur, "Effect of addition octadecyltrimethoxysilane (OTMS) on morphology ZSM-5-TiO₂ composite". AIP Conference Proceedings 2243 (2020), 020011.
- [195] A. Iryani*, R. Kurniawati, S. Jovita, F.A. Pramesti, H. Nur, M. Santoso, "The effect of Titanium dioxide precursors variation to morphology of TiO₂/ZSM-5 composite", IOP Conference Series: Materials Science and Engineering, 588 (2019) 012037.
- [196] P.J. Wibawa*, M. Nur, M. Asy'ari, H. Nur, M.A. Agam, H. Saim, "Study on the ion-exchange properties of the activated carbon black nanoparticles of ACBNPs20_17 code using sodium hydroxide solution", AIP Conference Proceedings, 2237 (2020) 020033.
- [197] K.A. Saeed, K.A. Kassi, H. Nur, S.A.M. Al-Hashimi, "Molecular Characteristics of Cement-Lime Treated Contaminated-Lateritic Clay Soil", IOP Conference Series: Materials Science and Engineering 870 (2020), 012082
- [198] A.S.P. Dewi, B.H. Arroyid, N. Mufti*, M. Diantoro, Arramel, H. Nur, Sunaryono, A. Taufiq, "Synthesis and characterization of CIGS ink by hot injection method", AIP Conference Proceedings, 2228 (2020), 020002.
- [199] Gunawarman*, J. Affi, Y. Yetri, D. Juliadmi, N.F. Nuswantoro, H. Fajri, A. Ahli, R. Gundini, H. Nur, Synthesis and characterization of calcium precursor for hydroxyapatite synthesis from blood clam shell (*Anadara antiquata*) using planetary ball mill process, IOP Conference Series: Materials Science and Engineering, 602 (2019), 012072.
- [200] L.C. Sin, W.L. Leaw, H. Nur*, "Mechanical and electrical properties of heterogenous four-components combining bagasse, polyethylene, natural rubber and titanium dioxide", Journal of Physics: Conference Series, 1170 (2019), 012001
- [201] K.A. Saeed, K.A. Kassim, H. Nur, N.Z.M. Yunus*, "Comparison of Compressibility Behaviour of Lime-Cement Stabilized Lateritic Clay Soil Contaminated by Heavy Metals", IOP Conference Series: Materials Science and Engineering, 584 (2019), 012037.
- [202] N. Subekti*, H. Nur, A. Fanidya, S. Susanti, R. Saputri, P. Indrawati, "Chlorpyrifos organophosphate and essential oils activities against *Callosobruchus maculatus* (F.) warehouse pests", Journal of Physics: Conference Series, 1402 (2019), 055024.
- [203] S. Sendari*, M. Diantoro, H. Suryanto, P. Puspitasari, S.C. Hamidah, M. Jiono, H. Nur, "Developing AR-based ebook for introducing dynamic process of fuel cell", AIP Conference Proceedings, 2228 (2020), 020006.
- [204] A. Iryani, R. Kurniawati, D. Hartanto*, M. Santoso, H. Nur. "Effect of addition octadecyltrimethoxysilane (OTMS) on morphology ZSM-5-TiO₂ composite", AIP Conference Proceedings 2243 (2020),020011
- [205] P.J. Wibawa*, M. Nur, M. Asy'ari, H. Nur, M.A. Agam, H. Saim, "Study on the ion-exchange properties of the activated carbon black nanoparticles of ACBNPs20_17 code using sodium hydroxide solution", AIP Conference Proceedings, 2237 (2020), 020033.
- [206] K.A. Saeed*, K.A. Kassi, H. Nur, S.A.M. Al-Hashimi, "Molecular Characteristics of Cement-Lime Treated Contaminated-Lateritic Clay Soil", IOP Conference Series: Materials Science and Engineering870 (2020), 012082.
- [207] H. Nur, S. Chandren, L.S. Yuan, "Synthesis of titania with different shapes", Renewable and Sustainable Energy Conference (IRSEC), 2014 International,17-19 October 2014, Ouarzazate, Morocco.
- [208] F. Yaghhoubidoust, D.H.B. Wicaksono, S. Chandren, H. Nur, "Investigation of the effect of magnetic field induced by electric field on the catalytic activity of conductive layered catalyst (polypyrrole/grapheme/cotton)", Book of abstract of Regional Annual Fundamental Science Symposium 2014 (RAFSS 2014), 8-11 September 2014, Johor Bahru, Malaysia. p. 22.
- [209] M.H. Ayob, M. Shamsuddin, J. Efendi, S. Chandren, H. Nur, "Effect of stirring in the oxidation of 1-octene by using various type of catalyst", Book of abstract of Regional Annual Fundamental Science Symposium 2014 (RAFSS 2014), 8-11 September 2014, Johor Bahru, Malaysia. p. 28.
- [210] N.N. Mohamed, S.L. Lee, S. Chandren, H. Nur, "Oxidation of 1-dodecene by hierarchically-porous TiO₂/*averhoa bilimbi* catalyst", Book of abstract of Regional Annual Fundamental Science Symposium 2014 (RAFSS 2014), 8-11 September 2014, Johor Bahru, Malaysia. p. 37.
- [211] R. Razali, N. Buang, L.S. Yuan, S. Chandren, H. Nur, "Strategy to attach catalytic active sites on cotton textile for phase-boundary catalytic system", Book of abstract of Regional Annual

- Fundamental Science Symposium 2014 (RAFSS 2014), 8-11 September 2014. Johor Bahru, Malaysia, p. 38.
- [212] H. Nur (editor), The Proceedings of the 8th SEATUC Symposium, 4-5 March 2014, Johor Bahru, ISBN 978-967-12214-1-9.
- [213] M.H. Ayob, H. Nur, J. Efendi, M. Shamsuddin, "Preparation of Cobalt(II) Bis(salicylaldimine) Complex/Silica@Magnetite as Catalyst in the Oxidation of 1-octene", Book of Abstracts and Program of the 8th SEATUC Symposium, 4-5 March 2014, Johor Bahru, p. 122.
- [214] N.N. Mohamed, S.L. Lee, H. Nur, "Hierarchically Porous Catalyst for Reactions with Bulky Reactants", Book of Abstracts and Program of the 8th SEATUC Symposium, 4-5 March 2014, Johor Bahru, p. 123.
- [215] R. Razali, L.S. Yuan, H. Nur, N. Buang, "Improvement of Product Selectivity in Phase-Boundary Catalytic System by Gold Loaded Textile", Book of Abstracts and Program of the 8th SEATUC Symposium, 4-5 March 2014, Johor Bahru, p. 124.
- [216] S. Pondi, S. Chandren, J. Efendi, H. Nur, "Preparation and Characterization Study of Silica/Albumin as Drug-Delivery Carrier", Book of Abstracts and Program of the 8th SEATUC Symposium, 4-5 March 2014, Johor Bahru, p. 125.
- [217] S.C. Zi, S.L. Lee, H. Nur, "Ultraviolet Photoirradiation for the Removal of Surfactant to Form Mesoporous Titania", Book of Abstracts and Program of the 8th SEATUC Symposium, 4-5 March 2014, Johor Bahru, p. 126.
- [218] S. Aini, H.O. Lintang, S. Chandren, H. Nur, "One-Pot Sequential Reaction Method for the Synthesis of Ti-Phenol@SiO₂ Nanoparticles as Catalysts for the Oxidation of Styrene", Book of Abstracts and Program of the 8th SEATUC Symposium, 4-5 March 2014, Johor Bahru, p. 128.
- [219] U.K. Nizar, L. Yuliati, J. Efendi, H. Nur, "Synthesis and Characterization of Titania-Polystyrene Composites by Reaction of Styrene and H₂O₂ Using Alkyl SiO₂-TiO₂ Catalysts", Book of Abstracts and Program of the 8th SEATUC Symposium, 4-5 March 2014, Johor Bahru, p. 128.
- [220] S. Parham, D.H.B. Wicaksono, S. Chandren, H. Nur, "Antibacterial Activity of Alumina Nanoparticles Loaded on Cellulose", Book of Abstracts and Program of the 8th SEATUC Symposium, 4-5 March 2014, Johor Bahru, p. 129.
- [221] F. Y. Doust, D.H.B. Wicaksono, S. Chandren, H. Nur, "Synthesis and Characterization of Graphene-Loaded Textile as Phase-Boundary Catalyst in the Oxidation of Benzene to Phenol by Aqueous Hydrogen Peroxide", Book of Abstracts and Program of the 8th SEATUC Symposium, 4-5 March 2014, Johor Bahru, p. 130.
- [222] Aulia, H. Nur, Z.A. Malek, Y.Z. Arief, M. Fahmi, Z. Adzis, "Partial Discharge Characteristic of NR-LLDPE-TiO₂-Coconut Coir Fiber", IEEE Conference on Electrical Insulation and Dielectric Phenomena (CEIDP 2013), 20-23 October 2013, Shenzhen, China.
- [223] M. A. Agam, P.J. Wibawa, H. Saim, H. Nur, "Metals particles-covered polystyrene nanospheres: facile synthesis of embedded nanocatalyst", in Proceedings of Twenty First Annual International Conference on Composites/Nano Engineering (ICCE-21), 21-27 July 2013, ICCE-21 Tenerife, Spain.
- [224] H. Nur, "Particology in Heterogeneous Catalysis", Prosiding Seminar Nasional VIII SDM Teknologi Nuklir, Yogyakarta, 31 Oktober 2012, 11-23. (Keynote speaker)
- [225] A. Eisazadeh*, K.A. Kassim, H. Nur, "Thermal characteristics of phosphoric acid treated tropical soils", 5th Asia-Pacific Conference on Unsaturated Soils 2012, 2 (2012) 430-433.
- [226] J.P. Wibawa, H. Saim, M.A. Agam, H. Nur, "Cadmium Metals Particles-Covered Polystyrene Nanospheres Thin Film Material: Fabrication, Analysis and Model", Proceedings of International Conference on Chemical and Material Engineering 2012. ISBN: 978-602-097-281-7, September 12-13, 2012, Grand Candi Hotel, Semarang, Indonesia.
- [227] H. Nur, "Some approaches in the synthesis of particulate materials for heterogeneous catalysis", Keynote presentation in: International Conference on Chemical and Material Engineering 2012. ISBN: 978-602-097-281-7, September 12-13, 2012, Grand Candi Hotel, Semarang, Indonesia.
- [228] F. Mohamad, M.A. Agam, H. Nur, "UV Spectra of Protein Immobilized at Nanopillars Formation through Nanosphere Lithography (NSL) by Plasma Treatment", AIP Conf. Proc. -- May 25, 2011 -- Volume 1341, pp. 345-348.
- [229] P.J. Wibawa, M.A. Agam, H. Nur, H. Saim, "Changes in physical properties and molecular structure of polystyrene nanospheres exposed with daily solar flux", AIP Conf. Proc. -- May 25, 2011 -- Volume 1341, pp. 54-61.
- [230] N.R.M. Juremi, U. Mustafa, M.A. Agam, H. Nur, "Nanosphere Lithography: Fabrication of Periodic Arrays of Nanoholes", AIP Conf. Proc. -- May 25, 2011 -- Volume 1341, pp. 296-300.

- [231] H. Nur, "Advanced materials in heterogeneous catalysis - A personal experience", Proceedings of The National Seminar on Science and Technology (ReSaTek), 2 August 2010, Padang, Indonesia. pp. 1-12. [A keynote paper].
- [232] D. Prasetyoko, R.S. Wijayanti, H. Fansuri, H. Nur, Z. Ramli, "Catalytic Hydroxylation of Phenol with Hydrogen Peroxide Over $\text{Al}_2\text{O}_3/\text{TS-1}$ ", Book of Abstract of the 13th Asia Pacific Confederation of APCCChE 2010 Chemical Engineering Congress October 5-8, 2010, Taipei.
- [233] A. Eisazadeh, K.A. Kassim, H. Nur, "BET surface area of phosphoric acid treated tropical soils", Book of Abstract of 19th World Congress of Soil Science, Soil Solutions for a Changing World, Brisbane, Australia, 1-6 August 2010. pp 15-17
- [234] A. Eisazadeh, K.A. Kassim, H. Nur, "Thermal characterization of lime stabilized soils", Book of Abstract of 19th World Congress of Soil Science, Soil Solutions for a Changing World, Brisbane, Australia, 1-6 August 2010. pp 20-23
- [235] K.A. Kassim, A. Eisazadeh, H. Nur, "Micro-structural characteristics of a phosphoric acid stabilized soil", Book of Abstract of 21st Australian Clay Minerals Conference at Queensland University of Technology (QUT), Brisbane, Australia, 7-8 August 2010. p. 83.
- [236] S. Lubis, H. Nur, S.L. Lee, U.K. Nizar, "Selective oxidation of styrene and 1-octene on hydrophilic-hydrophobic of Surface-modified TiO_2 particles using anhydrous t-butyl hydroperoxide", Book of abstract of Regional Annual Fundamental Science Symposium 2010 (RAFSS 2010), 8-9 June 2010, Kuala Lumpur, Malaysia.
- [237] H. Nur, J. Efendi, S. Lubis, S. Aini, "Novel titanium-containing catalyst for polymerization of styrene to polystyrene", Book of abstract of Regional Annual Fundamental Science Symposium 2010 (RAFSS 2010), 8-9 June 2010, Kuala Lumpur, Malaysia.
- [238] H. Nur, E. Rismana, S. Endud, "High dielectric constant nanocomposites of cadmium Sulfide-poly(methacrylic acid-ethylene glycol dimethacrylic acid)", Book of abstract of Regional Annual Fundamental Science Symposium 2010 (RAFSS 2010), 8-9 June 2010, Kuala Lumpur, Malaysia.
- [239] N. Attan, H. Nur, S.L. Lee, "Synthesis of gold nanoparticle catalyst by sputter deposition technique in styrene oxidation with magnetic field", Book of abstract of Regional Annual Fundamental Science Symposium 2010 (RAFSS 2010), 8-9 June 2010, Kuala Lumpur, Malaysia.
- [240] N.H.M. Ran, H. Nur, S.L. Lee, "Synthesis and characterization of enhanced in size of mesoporous carbon spheres containing platinum by using silica", Book of abstract of Regional Annual Fundamental Science Symposium 2010 (RAFSS 2010), 8-9 June 2010, Kuala Lumpur, Malaysia.
- [241] S.L. Lee, H. Nur, H. Hamdan, "Physical Properties and Catalytic Behaviour of Sulfate and Vanadium Loaded Silica-Titania Aerogel", Book of abstract of Second International Conference and Workshops on Basic and Applied Sciences (2nd ICOWOBAS), and Regional Annual Fundamental Science Seminar 2009 (RAFSS 2009), 2-4 June 2009, Johor Bahru, Malaysia, p. 43
- [242] A.B. Hoo, H. Nur, "Electric-Field-Induced Oxidation of Benzhydrol to Benzophenone over Electrically Conducting Surface containing Titanium Dioxide", Book of abstract of Second International Conference and Workshops on Basic and Applied Sciences (2nd ICOWOBAS), and Regional Annual Fundamental Science Seminar 2009 (RAFSS 2009), 2-4 June 2009, Johor Bahru, Malaysia, p. 71 S.
- [243] S. Chandren, Z. Ramli, H. Nur, "Modification of Mesoporous Alumina Nanoparticles with Brønsted Acid Precursors", Book of abstract of Second International Conference and Workshops on Basic and Applied Sciences (2nd ICOWOBAS), and Regional Annual Fundamental Science Seminar 2009 (RAFSS 2009), 2-4 June 2009, Johor Bahru, Malaysia, p 71
- [244] H. Nur, L.K. Wei, I.D. samsuri, N. Zamahsari, M.M. Salleh, W.F.W. Ahmad, "Pollen from *fraxinus pennsylvanica* as microreactor for in-situ synthesis of aluminium oxide and titanium oxide nanoparticles", Book of abstract of Regional Annual Fundamental Science Seminar 2008, 27-29 May 2008, Johor Bahru, Malaysia. p. 70.
- [245] A.B. Hoo, R.A.A. Latif, H. Nur, "The effect of electric field and ultraviolet irradiation in the removal of methylene blue by polypyrrole containing titanium oxide", Book of abstract of Regional Annual Fundamental Science Seminar 2008, 27-29 May 2008, Johor Bahru, Malaysia. p. 69.
- [246] H. Nur, S.M. Nasir, "Gold nanoparticles embedded on the surface of polymeric layer as a biological sensor", Book of abstract of Regional Annual Fundamental Science Seminar 2008, 27-29 May 2008, Johor Bahru, Malaysia. p. 16.
- [247] S. Chandren, Z. Ramli, H. Nur, "Reactivity and reusability of mesoporous alumina nanoparticles modified with sulphuric acid and niobic acid in the alkylation of resorcinol", Book of abstract of Regional Annual Fundamental Science Seminar 2008, 27-29 May 2008, Johor Bahru, Malaysia. p. 18.
- [248] H. Nur, E. Rismana, S. Endud, "Nanosize effect of cadmium sulfide attached on poly(methacrylic acid-ethylene glycol dimethacrylate) on Dielectrical Property", Book of abstract of 2008 International

- Conference on Nanoscience and Nanotechnology (ICONN 2008), 25-29 February 2008 - Melbourne, Victoria, Australia. (no page number, 2 pages - in CD ROM).
- [249] H. Nur, "Effect of attachment of silica nanoparticles on coordination of titanium surfaces species of titania", in M. Niinomi, S. Akiyama, M. Hagiwara, M. Ikeda, K. Maruyama (Editors), Ti-2007, Science and Technology, Proceedings of The 11th World Conference on Titanium (JIMIC-5), 3-7 June 2007, Kyoto, Japan. pp. 1671-1674.
- [250] H. Nur, I.I. Misnon, L.K. Wei, "The effect of attachment of polyaniline on stannic oxide-titanium dioxide coupled semiconductor in photocatalytic oxidation of 1-octene", Book of abstract of Regional Annual Fundamental Science Seminar 2007, 28-29 May 2007, Johor Bahru, Malaysia. p. 49-50.
- [251] N. A. Rahman, H. Nur, S. Endud, L.K. Wei, T. Hino, N. Kuramoto, "Composite Comprising Sulfonic Acid-Functionalized MCM-41 and Polyaniline and Its Thermal Stability of Conductivity", International Symposium on Zeolites and Micropros Crystals, Yanago, Tottori, Japan, 30 July - 2 August 2006. P2044.
- [252] E. Rismana, S. Endud, H. Nur, "Synthesis of different-sized cadmium sulfide nanoparticles inside polymer and mesoporous AlMCM-41 matrices by direct polymerization miniemulsion and ion exchange techniques", Book of abstract of Annual Fundamental Science Seminar 2006, 6-7 June 2006, Johor Bahru, Malaysia. p. 60.
- [253] H. Nur, C.Y. Hean, "Transformation of local environment of titanium surface species of titania by attachment of silica nanoparticles", Book of abstract of Annual Fundamental Science Seminar 2006, 6-7 June 2006, Johor Bahru, Malaysia. p. 61.
- [254] Y.K. Fong, M.N.M. Muhid, H. Nur, "Hydrophobic sulfonic acid-NaY zeolite as catalyst in transesterification of palm oil", Book of abstract of Annual Fundamental Science Seminar 2006, 6-7 June 2006, Johor Bahru, Malaysia. p. 62.
- [255] G.L. Kee, H. Hamdan, H. Nur, "Amphiphilic zeolite-alkylsulfonic acid nanocomposite as proton conducting membrane", Book of abstract of Annual Fundamental Science Seminar 2006, 6-7 June 2006, Johor Bahru, Malaysia. p. 63.
- [256] H. Nur, N.Y. Hau, I. I. Misnon, H. Hamdan, M.N.M. Muhid, "Enhancement of catalytic activity of TiO₂-ZrO₂ by fluorination and alkylsilylation in epoxidation of 1-octene with aqueous hydrogen peroxide", Book of abstract of Annual Fundamental Science Seminar 2005, 4-1 July 2005, Johor Bahru, Malaysia. p. 61.
- [257] F. Hayati, H. Hamdan, H. Nur, "Synergetic effect of titanium and OMS-2 as Ti-OMS-2 hybrid catalyst in oxidation of cyclohexene", Book abstract of Annual Fundamental Science Seminar 2005, 4-1 July 2005, Johor Bahru, Malaysia. p. 67.
- [258] N.A. Rahman, H. Nur, S. Endud, L.K. Wei, T. Hino, N. Kuramoto, "Remarkable thermal stability of conductivity of polyaniline/MCM-41 composite", Book of abstract of Annual Fundamental Science Seminar 2005, 4-1 July 2005, Johor Bahru, Malaysia. p. 68.
- [259] E. Rismana, H. Nur, S. Endud, "Synthesis of CdS nanoprticles in HDTMAB/propanol/water/n-decane minielmsion system", Book of abstract of Annual Fundamental Science Seminar 2005, 4-1 July 2005, Johor Bahru, Malaysia. p. 69.
- [260] H. Nur, D. Prasetyoko, Z. Ramli, S. Endud, "A simple method to enhance the catalytic activity of TS-1 catalyst in epoxidation of 1-octene with aqueous peroxide by sulfation", Proceedings of the 3rd Hokkaido Indonesian Student Association Scientific Meeting (HISAS 3), 2004, Sapporo, Japan, 130-133.
- [261] H. Nur, A.F.N.A. Manan, L.K. Wei, M.N.M. Muhid, H. Hamdan, "The use of NaY zeolite covered with alkylsilane for simultaneous adsorption of a mixture of paraquat and dye", Proceedings: 3rd Annual Seminar on Sustainability Science and Management, 4-5 May 2004, Kolej Universiti Sains dan Teknologi Malaysia, N. M. Tahir *et al.* (Eds.), 33-37.
- [262] S. Triwahyono, M. Faizal, A. A. Jalil, H. Nur, M.N.M. Muhid, M. Shamsudin, H. Hamdan, "Influence of the sulfate ion on the structural properties of Pt/SO₄²⁻-ZrO₂", Prosiding SKAM-17, 24 - 26 Ogos 2004, Kuantan, 60-62.
- [263] S. Triwahyono, H. Nur, A. A. Jalil, M.N.M. Muhid, M. Shamsudin, H. Hamdan, "Study of hydrogen adsorption on WO₃-ZrO₂ hybrid catalyst", Prosiding SKAM-17, 24 - 26 Ogos 2004, Kuantan, 598-600.
- [264] S. Triwahyono, A. Zalizawati, M. Faizal, A.A. Jalil, H. Nur, M.N.M. Muhid, M. Shamsudin, H. Hamdan, "FTIR and TPD studies of acid properties of Pt/SO₄²⁺ - ZrO₂", Prosiding SKAM-17, 24 - 26 Ogos 2004, Kuantan, 605-608.
- [265] Z. Ramli, D. Prasetyoko, S. Endud and H. Nur, "Monolayer coverage and acidity study of bufunctional oxidative acidic catalyst by infrared spectroscopy: zirconia sulfate loaded titanium silicalite", Prosiding SKAM-17, 24 - 26 Ogos 2004, Kuantan, 662-665.

- [266] H. Nur, N.A. Rahman, S. Endud, "Probing the interfacial interaction of polymeric PEO/Li-Al-MCM-41 nanocomposite: A ^{27}Al , ^{13}C and ^7Li Solid State MAS NMR Study", Proceedings of the 2nd Annual Fundamental Science Seminar, AFSS 2004, S. Sakrani *et al.* (Eds.), 2004, 119-123.
- [267] A.F.N.A. Manan, H. Nur and H. Hamdan, "Simultaneous Adsorption of a Mixture of Paraquat and Dye by NaY Zeolite Covered with Alkylsilane", Proceedings of the 2nd Annual Fundamental Science Seminar, AFSS 2004, S. Sakrani *et al.* (Eds.), 2004, 133-137.
- [268] H. Hamid, S. Endud, H. Nur, Z. Ramli, "Comparative study of iron porphyrin supported on mesoporous Al-MCM-41 and Poly(Methacrylic Acid) (PMMA): Characterization and Their Catalytic Activities", Proceedings of the 2nd Annual Fundamental Science Seminar, AFSS 2004, S. Sakrani *et al.* (Eds.), 189-197.
- [269] D. Prasetyoko, Z. Ramli, H. Nur, S. Endud, "A new approach to probe the dispersion capacity of tungsten oxide on the surface of titanium silicalite by infrared spectroscopy", Proceedings of the 2nd Annual Fundamental Science Seminar, AFSS 2004, S. Sakrani *et al.* (Eds.), 207-215.
- [270] S. Triwahyono, H. Nur, A.A. Jalil, M.N.M. Muhid, M. Shamsuddin, H. Hamdan, H. Hattori, "Hydrogen adsorption on Pt/SO₄²⁻ ZrO₂ solid super acid catalyst", Proceedings of the 2nd Annual Fundamental Science Seminar, AFSS 2004, S. Sakrani *et al.* (Eds.), 2004, 235-238.
- [271] S. Triwahyono, H. Nur, A.A. Jalil, M.N.M. Muhid, M. Shamsudin, H. Hamdan, H. Hattori, "Molecular hydrogen originated protonic acid site on Pt/WO₃ ZrO₂", Proceedings of the 2nd Annual Fundamental Science Seminar, AFSS 2004, S. Sakrani *et al.* (Eds.), 2004, 235-238.
- [272] L. C. Guan, S. Endud and H. Nur, "Highly effective cubic aluminated mesoporous catalyst in Friedel-Craft acylation", Proceedings of the 2nd Annual Fundamental Science Seminar, AFSS 2004, S. Sakrani *et al.* (Eds.), 176-182.
- [273] F. Hayati, H. Nur, H. Hamdan, "Synthesis and characterization of octahedral molecular sieves (OMS-2)", Book of abstract of Annual Fundamental Science Seminar 2004, 14-15 June 2004, Johor Bahru, Malaysia. p. 73.
- [274] H. Nur, "A novel design of heterogeneous catalyst for liquid-gas reaction system with Mars-van Krevelen type mechanism", Proceeding of Annual Fundamental Science Seminar 2003 (AFSS 2003), 20-21 May 2003, Puteri Pan Pacific Hotel, Johor Bahru, Malaysia. p. 92-95.
- [275] R.R. Mukti, H. Nur, K.W. Lim, S. Endud, H. Hamdan, S. Endud, "Reconstruction of MCM-41 structure: The effect of NaOH and H₂O addition", Proceeding of Annual Fundamental Science Seminar 2003 (AFSS 2003), 20-21 May 2003, Puteri Pan Pacific Hotel, Johor Bahru, Malaysia. p. 208-214.
- [276] R. Yahaya, A. Kassim, H. Hamdan, H. Nur, S. Endud, L. K. Wei, Norazizah, E. Mahmud, "Microstructure study of nanomaterials of MCM-41 as a host of polymerization of pyrrole" *J. Sol. State Sci. Tech. Lett.*, Vol. 10, No. 2 (suppl.) 2003, 48.
- [277] H. Nur, S. Ikeda, B. Ohtani, "The role of bimodal amphiphilic structure and effective location of active sites of phase-boundary catalyst for epoxidation of 1-octene", Book of abstract of International Conference on Materials for Advanced Technologies (ICMAT 2003), 7-12 December 2003, Singapore. p. 115.
- [278] H. Nur, "A novel heterogeneous catalyst design for liquid-liquid and liquid-gas reaction systems", Proceedings of International Conference on Advancement in Science and Technology (iCAST 2003), 5-7 August 2003, Nikko Hotel, Kuala Lumpur, Malaysia. p. 108-110 .
- [279] R.R. Mukti, H. Nur, H. Hamdan, S. Endud, "Selective benzylation of biphenyl to disubstituted 4,4'-dibenzoylbiphenyl over mesoporous molecular sieve H-Al-MCM-41", Proceedings of International Conference on Advancement in Science and Technology (iCAST 2003), 5-7 August 2003, Nikko Hotel, Kuala Lumpur, Malaysia. p. 114-116.
- [280] H. Nur, N.Y. Hau, M.N.M. Muhid, H. Hamdan, "Preparation of solid superacid catalysts for reaction at liquid-liquid interphase", Book of abstracts of Simposium Kimia Analisis Malaysia ke-16 (SKAM 16), 9-11 September 2003, Holiday Inn Resort, Damai Lagoon Kuching, Sarawak. p. 37.
- [281] H. Nur, "Education and research at University in Indonesia, Malaysia and Japan: Why Indonesian Universities not the best?", (*in Indonesian*), Proceedings of the 2nd Hokkaido Indonesian Student Association Scientific Meeting (HISAS I), 2003, Sapporo, Japan. p. 105-112.
- [282] S. Ikeda, K. Ikeue, Y. Kowata, H. Nur, B. Ohtani "Phase-Boundary Catalysis and Photocatalysis: Novel Green Chemistry Processes for Liquid-Liquid Two Phase Reactions", Book of abstracts of The Third International Workshop on Oxide Surfaces (IWOX3), Symposium of Division of Colloid and Surface Chemistry, The Chemical Society of Japan and CRC International Conference, 27-31 January, 2003, Sapporo, Japan.
- [283] H. Nur, "Phase-boundary catalysis - A novel green chemistry concept for catalytic processes", Prosiding Upaya membina kemandirian bangsa melalui sains dan teknologi kimia material: Seminar sehari 70 tahun Noer Mandsjoeriah Surdia, 11 January 2003, Bandung, Indonesia. p. 2-19.

- [284] N.A. Rahman, S. Endud, H. Hamdan, H. Nur, "A simple method to synthesize intercalated nanocomposite of polyethylene oxide/Li-exchanged Al-MCM-41 as conducting material", Book of abstracts of Simposium Kimia Analisis ke 15 (SKAM 15), 10-12 September 2002, Pulau Pinang, Malaysia. p. 62.
- [285] H. Nur, S. Ikeda, B. Ohtani, "Phase-boundary catalysis for acid catalyzed hydration of epoxide to diol", Proceedings of the Fifth UKM-ITB Joint seminar on Chemistry, 16-17 July 2002, Melaka, Malaysia. p. 746.
- [286] Y. Kowata, S. Ikeda, H. Nur, B. Ohtani, "Preparation of asymmetric titanium (IV) oxide particles assembled in a liquid-liquid phase-boundary and their photocatalytic activity" (*in Japanese*), Book of abstracts of the Annual Meeting of Catalysis Society of Japan, 26-29 March 2002, Tokyo, Japan. p. 584.
- [287] B. Ohtani, S. Ikeda, H. Nur, Y. Kowata, "Liquid-Liquid Phase Boundary Catalysis and Photocatalysis: Novel Green Chemistry Processes", Book of abstracts of the 5th SANKEN (ISIR) International Symposium "Frontier Material Science towards Energy Conversion and Eco Design", 14-15 March 2002, Osaka, Japan. P2.32.
- [288] H. Nur, S. Ikeda, B. Ohtani, "Bimodal amphiphilic zeolite particles: a novel catalyst for reaction at liquid-liquid phase boundary", Book of abstracts of the 12th CRC International Symposium on Advanced Chemical Conversion of Methane, 18-20 November 2001, Sapporo, Japan. p. 76-77.
- [289] H. Nur, H. Hamdan, "The role of the framework and extraframework manganese and silicon of MnAPSO-5 in the conversion of cyclohexanol", Proceedings of the 1st Hokkaido Indonesian Student Association Scientific Meeting (HISAS I), 2001, Sapporo, Japan, 58-66.
- [290] H. Nur, "Scientific ethics: An important aspect in research and higher education in Indonesia", (*in Indonesian*), Proceedings of the 1st Hokkaido Indonesian Student Association Scientific Meeting (HISAS I), 2001, Sapporo, Japan, 52-57.
- [291] S. Ikeda, H. Nur, and B. Ohtani, "Preparation of partly hydrophobic zeolite particles for liquid-liquid phase-boundary reaction" (*in Japanese*), Book of abstracts of 54th Meeting of Colloid and Surface Chemistry Division, Chemical Society of Japan, 16-18 September 2001, Tokyo, Japan. p. 136.
- [292] S. Ikeda, H. Nur, T. Sawadaishi, K. Ijiro, M. Shimomura, B. Ohtani, "Structure of liquid-liquid phase-boundary catalyst" (*in Japanese*), Book of abstracts of Fall Meeting of Catalysis Society of Japan, 9-12 October 2001, Japan. p. 263.
- [293] S. Ikeda, H. Nur, B. Ohtani, "Phase-boundary catalysis using partly hydrophobic zeolite particles" (*in Japanese*), Book of abstracts of Fall Meeting of Chemical Society of Japan, 16-20-23 September 2001, Chiba, Japan. 4BC-10.
- [294] S. Ikeda, Y. Kowata, H. Nur, B. Ohtani, "Phase-boundary photocatalysis by titanium oxide particles partially modified with alkylsilyl groups" (*in Japanese*), Book of abstracts of Annual Meeting on Photochemistry 2001 and International Symposium on the 21st Century Photochemistry, 10-13 September 2001, Kanazawa, Japan. p. 375.
- [295] S. Ikeda, H. Nur, B. Ohtani, "Liquid phase oxidation by using phase-boundary catalysts" (*in Japanese*), *Catalyst and Catalysis*, 43, 2001, 143-145.
- [296] S. Ikeda, H. Nur, B. Ohtani, "Liquid-liquid phase-boundary catalysis by amphiphilic zeolite nanoparticles", Book of abstracts of Symposium of Nano-scale Catalysis and Electrochemistry, 19-21 March 2001, Sapporo, Japan. p. 72.
- [297] S. Ikeda, H. Nur, B. Ohtani, "Phase-boundary catalysis: a novel approach for alkene epoxidation by amphiphilic zeolite catalyst", Book of abstracts of International Symposium on Catalysis and Fine Chemicals 2001 (C&FC2001), 12-14 March 2001, Tokyo, Japan. p. 41.
- [298] H. Nur, S. Ikeda, B. Ohtani, "Epoxidation of alkene at a boundary of aqueous hydrogen peroxide and organic phases by amphiphilic titanium-loaded zeolite catalyst", Book of abstracts of Winter Meeting of Hokkaido Branch of The Japan Society for Analytical Chemistry, 1-2 February 2001, Sapporo, Japan. p. 90.
- [299] H. Hamdan, W. Y. Hing, H. Nur, "Perhubungan antara Sifat Fizik dengan Struktur Simen Abu Sekam Padi (RHA) dan Simen Abu Terbang Kelapa Sawit (POFA) oleh 29Si MAS NMR", Book of abstracts of Seminar Kimia Bersama UKM-ITB ke IV, Yogyakarta, Indonesia, Februari 2000.
- [300] B. Ohtani, S. Ikeda, H. Nur, H. Semba, "Heterogeneous reaction method and phase-boundary catalysis", (*in Japanese*), Japanese patent application no. 2000-254229.
- [301] S. Ikeda, H. Nur, B. Ohtani, "Phase boundary catalysis: A novel approach for alkene epoxidation by zeolite partly modified with alkylsilane with hydrogen peroxide", Book of abstracts of Symposium on Nano-structured Materials and Advanced Functions: Post Symposium of International Conference on Colloid and Surface Science, 10-11 November 2000, Sapporo, Japan. p. 47.

- [302] H. Nur, S. Ikeda, B. Ohtani, "Zeolite catalyst loaded with alkylsilane-covered titanium oxide as a model catalyst of triphase System", Book of abstracts of Fall Meeting of Catalysis Society of Japan, 19-22 September 2000, Tottori, Japan. p. 306.
- [303] H. Nur, H. Hamdan, "The removal of template from MeAPO-5 and MeAPSO-5 by calcination and treatment with methanolic hydrochloric acid: structural effect and mechanism", in Proceedings of Regional Symposium on Chemical Engineering 1997, Malaysia, 613-619.
- [304] H. Nur, H. Hamdan, "Properties of cobalt substituted aluminophosphate and silicoaluminophosphate molecular sieves number five", Book of abstracts the Seminar Kimia Bersama UKM-ITB Ketiga, Universiti Kebangsaan Malaysia, 1997.

Thesis

- [305] H. Nur, "Tailoring of novel metal-substituted AlPO₄-5 molecular sieves as potential catalysts for conversion of alcohols", Ph.D. Thesis, Universiti Teknologi Malaysia, 1998.
- [306] H. Nur, "Synthesis of hydroxylapatite bioceramics by means of precipitation and its characterization", Master of Engineering Thesis (*in Indonesian*), Institut Teknologi Bandung, 1995.
- [307] H. Nur, "Comparative study on the determination of selenium in human blood by neutron activation analysis and atomic absorption spectrometry", First Degree Thesis (*in Indonesian*), Institut Teknologi Bandung, 1992.

Research Monograph

- [308] H. Nur, "Conversion of alcohols on metal substituted aluminophosphate molecular sieves", 2008. Research Management Centre, Universiti Teknologi Malaysia. ISBN 978-967-354-145-4.

Others

- [309] H. Nur, "Rationalization of higher education", (*in Indonesian*) *Kompas Newspaper*, May 5, 2018.
- [310] H. Nur, "The way of Japan to achieve the excellent in education and research", (*in Indonesian*) *Waspada Newspaper*, May 8, 2004.
- [311] H. Nur, "Scientific ethics in research and higher education in Indonesia", (*in Indonesian*) *Waspada Newspaper*, May 14, 2004.
- [312] H. Hamdan, Z. Ramli, S. Endud, M.N.M. Muhid, H. Nur, "Synthesis of zeolites and aluminophosphate molecular sieves for the development of catalyst and materials", in *Discovery Research and Innovations in UTM*, 1999, 214-215.
- [313] H. Hamdan, Z. Ramli, S. Endud, M.N.M. Muhid and H. Nur, "Synthesis of zeolites from rice husk", in *Discovery Research and Innovations in UTM*, 1999, 216-217.
- [314] H. Nur, M.I.A. Aziz, M.A. Kassim, M.N. Musa, M.M. Sanagi, "International research collaboration: Issues and Challenge", paper presented at University Presidents Forum, Universiti Teknologi Malaysia, 26-27 March 2009.
- [315] H. Nur, M.I.A. Aziz, M.A. Kassim, A.K. Idris, M.S.A. Abu, M.Z. Kamsah, "The information technology strategic alignment model: An approach for international academic collaboration", paper presented at University Presidents Forum, Universiti Teknologi Malaysia, 26-27 March 2009.
- [316] H. Nur, "Advanced Materials in Heterogeneous Catalysis Research - A Personal Experience", Keynote paper at the National Seminar on Engineering and Technology (ReSaTek), organized by the Universitas Bung Hatta held at Pangeran Beach Hotel, Padang on 2 August 2010, *unpublished*.