



Area of Expertise:

- i. Environmental Sociology
- ii. Social Impact Assessment (SIA)

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MUHAMAD AZAHAR BIN ABAS, PhD

Personal Information

Gender: Male
Marital Status: Married
Date of Birth: 31 May 1989
Age: 32 Years Old

Education

- [2017] **Doctor of Philosophy**
Area of Study: *Environmental Management*
Universiti Tun Hussein Onn Malaysia (UTHM)
- [2013] **Master of Science - Sustainable Cities and Communities**
CGPA: 3.75. Universiti Sains Malaysia (USM)
- [2011] **Bachelor of Science (Honours) – Major: Biology, Minor: Psychology**
CGPA: 3.26. Universiti Sains Malaysia (USM)

Professional Experiences, Jobs and Careers

- [1] **Senior Lecturer:** Faculty of Earth Science, Universiti Malaysia Kelantan (UMK) (March 2018-Present)
- [2] **Research Executive:** Genting Plantation Research Centre (March 2013 - October 2013).
- [3] **Assistant Research Officer:** Centre for Global Sustainability Studies (CGSS), Universiti Sains Malaysia (USM) (May 2011 – May 2012).

Administration Position

- [1] **Head of Department (July 2021 – Current):** Department of Natural Resources and Sustainability, Faculty of Earth Science, UMK.
- [2] **Head of Program (June 2019 – June 2021):** Bachelor of Applied Science (Sustainable Science) with Honours
- [3] **Graduate Employability Coordinator (August 2018 – Current):** Faculty of Earth Science
- [4] **Industrial Training Coordinator (March 2018 – June 2019):** Faculty of Earth Science

Career, Academic/Curriculum Achievement

Career Awards:

- [1] Anugerah Perkhidmatan Cemerlang (APC) 2019, Universiti Malaysia Kelantan (UMK)

Professional Certification

- [1] Certified Environmental Professional on Scheduled Waste Management (CePSWaM) – Environment Institute of Malaysia (EiMAS)
- [2] Certified Environmental Auditor – Environment Institute of Malaysia (EiMAS)
- [3] Certified Safety and Health Coordinator (SHC) – Department of Occupational Safety And Health (DOSH) Malaysia

Academic Awards:

- [1] Excellence Publication Award 2017, Centre for Graduate Studies, Universiti Tun Hussein Onn Malaysia (UTHM).
- [2] Graduate on Time (G.O.T) Award 2017, Centre for Graduate Studies, Universiti Tun Hussein Onn Malaysia (UTHM).
- [3] Excellent Dissertation Award 2013, School of Humanities, Universiti Sains Malaysia (USM).

Co-Curriculum Awards:

- [1] Excellence Social Contribution Award 2017, Centre for Graduate Studies, Universiti Tun Hussein Onn Malaysia (UTHM).
- [2] Manikayu Award of Kelanasiswa Training Group of Malaysia (KLKM) 2011, Federal Scout Malaysia.
- [3] Half Colour Award (Handball) 2012, Sport Centre of Universiti Sains Malaysia (USM).

Research & GE Grant**Total: RM 893,680****Principle Investigator (PI) – RM 81,000**

- [1] **On-Going:** Social Return of Investment (SROI) Sport Fishing in Marang, Terengganu. Geran University for Society Zon Pantai Timur, Kementerian Pengajian Tinggi Malaysia. (01/10/2020 – 01/10/2021)-**RM 40,000**
- [2] **Completed:** Economic Empowerment of Pondok Institution through Sustainable Solid Waste Management. Skim Geran Jangka Pendek (SGJP) Impak. (16 October 2019- 15 April 2021)-**RM 20,000**
- [3] **Completed:** The Impact of Climate Change to Socio-Economic of Paddy Farmer in Kelantan and Kedah. Kursi Perubahan Iklim UKM-YSD Grant (1 Oktober 2018 - 31 Mac 2020)-**RM 21,000**

Research Member/ Co-Researcher – RM 724,700

- [1] **On-going:** Develop New Spatial Analytic Framework for Strategic Planning of Zero Covid -19 Outbreak. Special Grant C19SG UMK. (07/06/2020 – 07/06/2021)-**RM 10,000**
- [2] **On-Going:** Pembentukan Identiti Baharu Siswapreneur B40 UMK Melalui Ekosistem Keusahawanan Sosial Yang Direkabentuk Semula. Geran Kementerian Pendidikan Malaysia. (01/01/2020-31/12/2021)-**RM 150,000**
- [3] **On-Going:** Pemerkasaan Keusahawanan Sosial Kumpulan Wanita Nelayan melalui Pemprosesan Ikan Lunak. Geran Kementerian Kewangan Malaysia. (31/12/2019-14/10/2021)-**RM 261,700**
- [4] **On-Going:** Program Superfood Spirulina: Langkah Lestari Mengatasi Masalah Lestari Komuniti. Geran Kementerian Kewangan Malaysia. (31/12/2019-31/12/2021)-**RM 284,000**
- [5] **Completed:** Assessment of Urban Green Space Landscape Structure and Function for Climate Change Adaptation in Built Environment. Kursi Perubahan Iklim UKM-YSD Grant (1 September 2018 - 31 August 2019)-**RM 19,000**

Graduate Employability (GE) Grant – Total RM 87,980

- [1] **Completed:** Towards Environmental Experts, Dana GE Jabatan Pengajian Tinggi Malaysia 2019-**RM 13,840**
- [2] **Completed:** Certificate Professional for Scheduled Waste Management (CePSWaM), Dana GE Jabatan Pengajian Tinggi Malaysia 2020-**RM 74,140**

Research Assistant

- [1] **Completed:** The Study of the National Solid Waste Management Policy Implementation: An Exploratory of Stakeholders Perspective”, Multidisciplinary Research Grant (MDR), Universiti Tun Hussein Onn Malaysia (UTHM) (December 2013 – August 2015)-**RM 20,000**

- [2] **Completed:** The Study of the Communities Perceptions on Technical and Vocational Education of MARA (IKM and KKTM)” Research grant by Majlis Amanah Rakyat (MARA) (December 2013 – August 2014)-RM 90,000
- [3] **Completed:** Single Stream Recycling System: A Case Studies of Penang”, Research grant by Majlis Perbandaran Seberang Perai (MPSP), (May 2012 – January 2013)-RM 10,000
- [4] **Completed:** An Integrated Approach to Sustainable Rural-Urban Development for Rakyat Sejahtera”. Research grant by Delivering Excellence: APEX 2011 (April 2011 – April 2012)-RM 500,000

**Intellectual Property,
Innovation &
Exhibition**

Intellectual Property (IP) (2 Copyright)

- [1] **Copyright:** E-Module for Ecosystem Services Modeller, **LY2020004822**
- [2] **Copyright:** *Strobilanthes Crispus* Extract As A Biocide Of Sick Building Syndrome Fungus, **LY2020004825**

Innovation & Exhibition 2021 (1 Gold)

- [1] **Gold Award** in Expo Rekacipta dan Pameran Penyelidikan (eREKA) – BioC SBSF.

Innovation & Exhibition 2020 (3 Gold, 1 Silver, 2 Bronze)

- [2] **Gold Award** in International Research and Innovation Symposium & Exposition (RISE) - Prediction of Urban Green Space Landscape Structure for Sustainable Planning.
- [3] **Gold Award** in National Innovation and Invention Competition Trough Exhibition 2020 (iCompEx2020) – Invention of Sublimation Printing Machine.
- [4] **Gold Award** in eCarnival of Research and Innovation (e-CRI) 2020 – Biocide for Sick Building Syndrome Fungus.
- [5] **Silver Award** in Teaching Enhancement and Learning Innovation Carnival 2020 (e-TeLIC 2020) – E-Module for Ecosystem Services Modeller.
- [6] **Bronze Award** in Teaching Enhancement and Learning Innovation Carnival 2020 (e-TeLIC 2020) – Social Media as E-Portfolio for Academic Programme
- [7] **Bronze Award** in Borneo Innovation festival (BIF) 2020 – Prediction of Urban Green Space Landscape.

Innovation & Exhibition 2019 (1 Gold, 2 Silver, 1 Bronze)

- [1] **Gold Award** in International Invention, Innovation & Technology Exhibition (ITEX) 2019 - Nano-Azo’s Green Particles for Mosquito Control
- [2] **Silver Award** in International Conference and exposition on Inventions 2019 (PECIPTA’19) 2019 – Anti Animal Trash Bin
- [3] **Bronze Award** in International University Carnival on E-Learning 2019 (IUCEL 2019) – Interactive Approach in Learning Waste Management and Pollution Prevention Course.
- [4] **Silver Award** in Teaching Enhancement and Learning Innovation Carnival 2019 (TeLIC2019) – Application of GIS for Sustainable Development and Environment.

Innovation & Exhibition 2018 (1 Gold, 1 Silver)

- [1] **Gold Award & Special Award** in Pertandingan Kreativiti, Inovasi dan Teknologi (Kristek) 2018 – Anti Animal Trash Bin
- [2] **Silver Award** in International Research and Innovation Symposium and Exposition 2018 – Anti Animal Trash Bin

Consultancy

International Consultancy

- [1] **Asia Pacific Development Center on Disability (APCD):** Developing Methodology for Autism Mapping in ASEAN Countries. October 2018-**Completed**
- [2] **Asia Pacific Development Center on Disability (APCD):** Policy Recommendation for Autism in ASEAN Regional. October 2019-**Completed**

National Consultancy

- [1] **Krai Aquaculture:** Water quality assessment. May 2021. **On-going.**
- [2] **Pusat Khidmat Rakyat Ahli Parlimen Jeli:** Kajian Pemetaan Komuniti Jeli, Kelantan. 31 Ogos 2019-RM30,000-**Completed.**
- [3] **Majlis Daerah Tanah Merah (MDTM):** Composting Program for restaurant Operator. October 2019-**Completed**
- [4] **SMKA Lati:** Program STEM. September 2020-**Completed**

Publication (Journals, Books & Proceedings)

H-Index:

- 1) Scopus: 3
- 2) Publons (WOS): 1
- 2) Google Scholar: 6

Journals (7 SCOPUS/WOS Indexed), ****Main/Corresponding Author:**

- [1] ****Muhamad Azahar Abas & Seow Ta Wee (2020)** Exploring Policy Governance Factors for Solid Waste Management in Malaysia. *International Journal of Public Sector Performance Management* 6 (6), 876-892. **SCOPUS/WOS Indexed.**
- [2] Anm Nor, Nurh Razaai, Ka Hambali, **Muhamad Azahar Abas**, Ws Udin, N Fauzi (2020) Predicting the impact of urban expansion on green space area in Kota Bharu, Kelantan, Malaysia. *Malayan Nature Journal* 72 (2), 147-152. **SCOPUS Indexed.**
- [3] ****Muhamad Azahar Abas**, H Kamarul, HH Nor, FAK Muhammad, I Lukman, R Hafizi (2020) Antifungal Activity of Selected Malaysia's Local Medicinal Plants Against Sick Building Syndrome (SBS) Fungi. *Asian Journal of Plant Sciences* 19 (2), 240-245. **SCOPUS/WOS Indexed**
- [4] MFA Karim, K Hambali, AY Sow, NH Hassin, **Muhamad Azahar Abas** (2020) Preliminary study on Copper, Zinc and Iron concentration in soils from waste dumping site in Tanah Merah, Kelantan, Malaysia. *J. Trop. Resour. Sustain. Sci* 8, 12-16.
- [5] ****Muhamad Azahar Abas**, MFM Amin, LS Wei, NH Hassin (2020) Community development model for poverty eradication of indigenous people in Malaysia. *International Journal of Society Systems Science* 12(2), 151-164. **SCOPUS Indexed**
- [6] NH Hassin, **Muhamad Azahar Abas**, SNA Sidik, MF Mohd, AHMI Amin A Study of Local Community Perception and Attitude On Environmental Impact Of Ecotourism At Kuala Koh National Park (Kknp), Kelantan. *International Journal of Advanced Science and Technology* 29 (9s), 1748-1758. **SCOPUS Indexed**
- [7] NH Hassin, AN Muhamad Noor, AN Mungkar, HU Hasnil, Muhamad Azahar Abas (2019) A pilot study for sustainable ecotourism at Gunung Stong State Park, Kelantan using Visitor Experience and Resource Protection (VERP) management framework, *Journal of Tropical Resources and Sustainable Sciences* 7 (1), 40-46.
- [8] ****Muhamad Azahar Abas**, ANM Nor, NHA Malek, NH Hassin (2018) A Review of Sustainable Campus Concept in the Context of Solid Waste Management, *Journal of Education and Social Policy* 5 (4), 71-76.
- [9] ****Muhamad Azahar Abas** (2018) Understanding the Concept of Sustainable Development for Effective Solid Waste Management: Malaysia Perspective, *J Waste Manage Xenobio* 1 (2), 000107.
- [10] ANM Nor, RA Isnorn, **Muhamad Azahar Abas**, NHA Malek, NH Hassin, HA Aziz (2018) Landscape Ecological Assessment Of Potential Ecotourism In Malaysia, *Technology* 9 (10), 969-979. **SCOPUS Indexed**
- [11] ****Muhamad Azahar Abas & Seow Ta Wee (2018)** The Constraints of Good Governance Practice in National Solid Waste Management Policy (NSWMP) Implementation in Malaysia. *Advanced Science Letters*, 24(6),

4704-4709. **SCOPUS Indexed.**

- [12] ****Muhamad Azahar Abas** & Seow Ta Wee & Goh Kai Chen (2018) The Practices of Good Governance in National Solid Waste Management Policy (NSWMP) Implementation: A Case Study of Kuala Lumpur, Malaysia. *Advanced Science Letters*, 24(6), 4710-4715. **SCOPUS Indexed.**
- [13] Seow Ta Wee & **Muhamad Azahar Abas** (2016) A Review of the Public Policy for Solid Waste Management in Malaysia: An Insight towards Sustainable Solid Waste Management. *Australian Journal of Basic and Applied Sciences*, 10(1): 58-64.
- [14] Seow Ta Wee & **Muhamad Azahar Abas** (2015) A Study of Awareness Level on Good Governance among National Solid Waste Department Staff in Malaysia. *Australian Advances in Environmental Biology*, 9(27): 81-84.
- [15] Seow Ta Wee & **Muhamad Azahar Abas** (2015) Developing a Tool to Assess Perception of Solid Waste Corporation's Staff on Good Governance Practices. *Australian Journal of Basic and Applied Sciences*, 9(31): 459-463.
- [16] Seow Ta Wee & **Muhamad Azahar Abas** (2015) Good Governance Practices in National Solid Waste Management Policy Implementation: A Pilot Study on Solid Waste Corporation's Staff in Batu Pahat, Malaysia. *Australian Journal of Basic and Applied Sciences*, 9(31): 445-451.
- [17] ****Muhamad Azahar Abas** & Seow Ta Wee (2015) A Review of the Factors that Influence the Good Governance Practices: An Insight towards Sustainable Solid Waste Management. *International Journal of Conceptions on Management and Social Sciences*, 3(2): 1-7.
- [18] ****Muhamad Azahar Abas** & Norizan Md Nor (2014) Penglibatan Komuniti Kampus di Universiti Sains Malaysia Terhadap Sistem Kitar Semula Satu Aliran. *Jurnal Personalia Pelajar*, 17: 83-95.
- [19] ****Muhamad Azahar Abas** & Seow Ta Wee (2014) The Issues of Policy Implementation on Solid Waste Management in Malaysia. *International Journal of Conceptions on Management and Social Sciences*, 2(3): 12-17.
- [20] ****Muhamad Azahar Abas** & Seow Ta Wee (2014) Sustainable Solid Waste Management in Malaysia: The Concept of Multi-Stakeholder Governance in Solid Waste Policy Implementation. *Public Policy and Administration Research*, 4(10): 26-35.

Book:

- [1] Norizan Md. Nor, Asyirah Abdul Rahim, Fera Fizani Ahmad Fizri, Suzyrman Sibly, Syarilla Mohamad Suhaili, **Muhamad Azahar Abas**, Siti Mariam Abdul Kadir and Mohd Ridzlie Ridzuan (2012) *Sustainable Lifestyle Kit*, Centre for Global Sustainability Studies (CGSS), Universiti Sains Malaysia. ISBN: 9789673940899.

Chapter in Book:

- [1] **Muhamad Azahar Abas** (2020) *Model Pembinaan Kepercayaan Orang Asli di Malaysia* dalam Prolegomena Masa Hadapan Orang Asli Malaysia, Publisher: Universiti Malaysia Kelantan, ISBN 978-967-2912-14-9
- [2] **Muhamad Azahar Abas** (2019). *Public Policy and Governance: Theory and Practice*, in Global Encyclopaedia of Public Administration, Public Policy, and Governance, Publisher: Springer Nature Switzerland AG. ISBN: 9783319318165
- [3] **Muhamad Azahar Abas** (2019) *Sustainable Development in Solid Waste Management: Malaysia Perspectives*, in Environmental Management & Sustainable Development, Series 1. Publisher: Universiti Tun Hussein Onn Malaysia. ISBN:9789672216766.

Proceedings (11 SCOPUS Indexed):

- [1] **Muhamad Azahar Abas**, MP Yusoh, S Sibly, S Mohamed, ST Wee (2020) Explore the Rural Community Understanding and Practices on Sustainable Lifestyle in Kelantan, Malaysia, IOP Conference Series: Earth and Environmental Science 596, 012054. **SCOPUS Indexed.**

- [2] NHM Noor, L Ismail, MFA Karim, K Hambali, NH Hassin, **Muhamad Azahar Abas** and AS Maulud (2020) On the Effects of Cold Temperatures and Solute Concentrations on the Solidification of Gelatine, IOP Conference Series: Earth and Environmental Science 596, 012080. **SCOPUS Indexed**
- [3] SZ Junus, KA Hambali, AHM Iman, **Muhamad Azahar Abas**, NH Hassin (2020) Visitor's Perception and Attitude toward the Ecotourism Resources at Taman Negara Kuala Koh, Kelantan, IOP Conference Series: Earth and Environmental Science 549 (1), 012088. **SCOPUS Indexed.**
- [4] MSN Lee, S Mohamed, MAN Masrom, **Muhamad Azahar Abas**, ST Wee (2020) Risk in Green Retrofits Projects: A Preliminary Study on Energy Efficiency, IOP Conference Series: Earth and Environmental Science 549 (1), 012084. **SCOPUS Indexed.**
- [5] ANM Nor, AS Bahri, SM Nor, AH Yusoff, **Muhamad Azahar Abas**, RM Jamil, HA Aziz (2020) Impact of land use changes on forest catchment area in Pergau Lake, Kelantan, IOP Conference Series: Earth and Environmental Science 549 (1), 012006. **SCOPUS Indexed.**
- [6] CS Chang, AH Yusoff, **Muhamad Azahar Abas**, ANM Nor, AZ Sulaiman, MFM Amin (2020) Mineral Identification on Sediments of Pergau Dam Intakes, IOP Conference Series: Earth and Environmental Science 549 (1), 012025. **SCOPUS Indexed.**
- [7] **Muhamad Azahar Abas**, NE Ibrahim, ST Wee, S Sibly, S Mohamed (2020) Disaster Resilience Education (DRE) Programmes in Schools: A Case Study in Kelantan, Malaysia, IOP Conference Series: Earth and Environmental Science 549 (1), 012078. **SCOPUS Indexed.**
- [8] NAM Hanan, **Muhamad Azahar Abas**, ANM Nor, MFM Amin, NH Hassin, AH Yusoff (2020) A GIS-Based Flood Vulnerability Assessment in Pasir Mas, Kelantan. IOP Conference Series: Earth and Environmental Science 549 (1), 012004. **SCOPUS Indexed.**
- [9] **Muhamad Azahar Abas**, ASM Fuad, ANM Nor, MFM Amin, NH Hassin, AH Yusoff (2020) Paddy Farmers Perceived the Socio-Economic Impacts of Climate Change: A Case Study in Pasir Mas, Kelantan, IOP Conference Series: Earth and Environmental Sciences 549, 012075. **SCOPUS Indexed.**
- [10] **Muhamad Azahar Abas** et al., (2018) Community Development Model (CDM) for Poverty Eradication of Orang Asli in Kelantan, Malaysia. Proceeding International Conference On Poverty And Sustainable Society 2018. Kota Bharu, Malaysia.
- [11] **Muhamad Azahar Abas** et al., (2018) Community Development Model for Poverty Eradication of Orang Asli at Sungai Rual Village, Kelantan, Malaysia. Proceeding 8th International Conference of Regional Network on Poverty Eradication. The Philippines.
- [12] Seow Ta Wee & **Muhamad Azahar Abas** (2017) The Constraints of Good Governance Practice in National Solid Waste Management Policy (NSWMP) Implementation: A Case Study of Malaysia. Proceeding of International Conference on Applied Science and Technology (ICAST 2017). 3-5 April 2017. Adya Hotel, Langkawi. **SCOPUS Indexed.**
- [13] Seow Ta Wee & **Muhamad Azahar Abas** (2017) Good Governance in National Solid Waste Management Policy (NSWMP) Implementation: A Case Study of Malaysia. Proceeding of International Conference on Applied Science and Technology (ICAST 2017). 3-5 April 2017. Adya Hotel, Langkawi. **SCOPUS Indexed.**
- [14] **Muhamad Azahar Abas** & Seow Ta Wee (2016) Perception of Government Stakeholders on The Governance Of National Solid Waste Management Policy (NSWMP) Implementation: A Case Study in Kuala Lumpur, Malaysia. Proceeding of International Conference on Sustainable Development and Livelihoods. 30-31 August 2016, Universiti Malaysia Terengganu (UMT).
- [15] **Muhamad Azahar Abas** & Seow Ta Wee (2016) Amalan Tadbir Urus Baik dan Cabarannya dalam Pelaksanaan Dasar Pengurusan Sisa Pepejal di

Malaysia. Prosiding Seminar Antarabangsa ke-9 Ekologi, Habitat Manusia & Perubahan Persekitaran Alam Melayu. 2-4 Ogos 2016, Hotel Grandia, Bandung.

- [16] **Muhamd Azahar Abas** & Seow Ta Wee (2014) Municipal Solid Waste Management in Malaysia: An Insight towards Sustainability. In proceeding of 4th International Conference on Human Habitat and Environment (ICHHE 2014), 5 – 6 May 2014, Universiti Kebangsaan Malaysia, Page: 192–206. ResearchGate DOI: 10.13140/2.1.1774.6246.
- [17] Norizan Md. Nor, Asyirah Abdul Rahim, Fera Fizani Ahmad Fizri, Suzyrman Sibly, Syarilla Mohamad Suhaili, **Muhamad Azahar Abas**, Siti Mariam Abdul Kadir & Mohd Ridzlie Ridzuan (2011) Enhancing Sustainable Living within USM and Its Neighboring Communities, In proceeding of 2nd International Academic Consortium for Sustainable Cities Symposium (IACSC 2011), 10-11 September 2011, University Conference Hall, USM Penang. ResearchGate DOI: 10.13140/2.1.4920.3522.
- [18] Norizan Md. Nor, Asyirah Abdul Rahim, Fera Fizani Ahmad Fizri, Suzyrman Sibly, Syarilla Mohamad Suhaili, **Muhamad Azahar Abas**, Siti Mariam Abdul Kadir and Mohd Ridzlie Ridzuan (2012) Campus Community Responses on Waste Recycling Activity toward Sustainable Lifestyles. In proceeding of 3rd International Conferences on Environment Research and Technology (ICERT 2012), 30 May-1 June 2012, Parkroyal Hotel, Penang, Malaysia, Page: 399-404, ISBN: 9789673940950.
- [19] **Muhamad Azahar Abas**, Mohd. Ridzlie Ridzuan, Siti Mariam Abdul Kadir, Suzyrman Sibly, Norizan Md. Nor. (2012) Empowering Community via Composting Practices in Promoting Sustainable Lifestyle. In proceeding of University-Community Engagement for Empowerment and Knowledge Creation Conference (UCEC 2012), January 9-12th, 2012, Le Meridien Chiang Mai, Thailand. ResearchGate DOI: 10.13140/2.1.2823.2000.

Postgraduate Supervision

- [1] **2 PhD Student** (on-going)
 [2] **2 MSc Student** (on-going)
 [3] **10 BAsc Sustainable Science** (8 completed, 2 on-going)

References

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Academic Social Profile

- [1] Scopus Profile
<https://www.scopus.com/authid/detail.uri?authorId=57196043827>
 [2] Web Science (WOS)-Publons Profile
<https://publons.com/researcher/1421487/muhamad-azahar-abas/>
 [3] Google Scholar Profile
<https://scholar.google.com/citations?user=qB2HF6IAAAAJ&hl=en>
 [4] ResearchGate Profile
https://www.researchgate.net/profile/Muhamad_Azahar_Abas