Prof. Amun Amri, ST, MT, PhD

Lecturer and Researcher at the Department of Chemical Engineering,
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PERSONAL

Place, date of birth	:	Bengkulu, January 31st, 1972
Address	:	Green Hill Residence - blok Tulip 33, Jl. Rajawali Sakti, Panam, Pekanbaru – Riau, Indonesia 28297
Office	:	Laboratory of Material and Corrosion Department of Chemical Engineering - Engineering Faculty, University of Riau, Pekanbaru, Indonesia

EDUCATION

2010 – 2013	Doctoral degree (PhD) in Chemical and Material Engineering, School of Engineering and Energy, Murdoch University, Australia. Thesis: *Structural, Optical and Mechanical Characterizations of Nanostructured Copper Cobalt Oxide Coatings Synthesized via Sol-gel Method for Solar Selective Absorber*
1999 – 2002	Master degree (MT) in Chemical Engineering, Faculty of Engineering, Universitas Gadjah Mada (UGM), Yogyakarta, Indonesia. Thesis: *Natural Zeolite Surface Modification via Impregnation by 2-mercaptobenzotiazole for Selective Adsorption of Binary Mixture of Cd(II) and Cr(III) in Water.*
1991 - 1996	Bachelor degree (ST) in Nuclear Engineering, Faculty of Engineering, Universitas Gadjah Mada (UGM), Yogyakarta, Indonesia. Thesis: *Silver Metallic Surface Utilization as Emitter of Self Powered Neutron Detector (SPND).*

WORKING EXPERIENCES

2016 - present	Professor at Chemical Engineering Department, Faculty of Engineering, The University of Riau, Pekanbaru, Indonesia.
2015 - 2020	External supervisor for Master and PhD students at Murdoch University, Australia
2009 - 2016	Associate Professor at Chemical Engineering Department, Faculty of Engineering, The University of Riau, Pekanbaru, Indonesia.
2010 - 2012	Teaching Fellow at School of Engineering & Energy, Murdoch University, Australia.
2008 – 2010	Coordinator of Chemical Engineering (Undergraduate) Program at Chemical Engineering Department, Faculty of Engineering, The University of Riau, Pekanbaru, Indonesia.
2000 – 2009	Lecturer at Chemical Engineering Department, Faculty of Engineering, The University of Riau, Pekanbaru, Indonesia.

RESEARCH ACTIVITY

Research interest : Chemical and Nanomaterials Engineering:
- Graphene / nano-graphite syinthesis and applications
- Nano-cellulose synthesis and applications

- Development of lithium ion in battery with graphene additive
- Ceramics and Geopolymer composite with graphene
- Metal oxides nanocomposites and applications

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SELECTED PUBLICATIONS

1. **Amun Amri**, Yola Bertilsya Hendri, Sunarno, Erman Taer, Sulistyo Saputro, Yoyok Dwi Setyo Pambudi, Zhong Tao Jiang. Novel LiFePO4/very-few-layer-graphene (LFP/VFLG) composites to improve structural and electrochemical properties of lithium-ion battery cathode. ***Ceramics International***, Vol. 50(11 part B), 2024, 19806–19813.

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2. Zainab N. Jaf, Hussein A. Miran, M.Mahbubur Rahman, **Amun Amri** and Zhong-Tao Jiang. DFT+U investigation on high pressure properties of monoclinic CuO. ***Canadian Journal of Physics***, Vol. 102(5), 2024, 271-323.

   Scopus Q3

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3. **Amun Amri,** Aurelia Amartya, Yudistira Ilham, Sigit Sutikno, Silvia Reni Yenti, Bahruddin Ibrahim, Desi Heltina, Nicholas Mondinos, Mohammednoor Altarawneh, Zhong-Tao Jiang. The addition of low-cost few layers graphene (FLG) to improve flexural strength of coal fly ash based geopolymer. ***Journal of Materials Research and Technology***, Vol. 24(2023), 8849-8855.

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4. Nicholas Mondinos, Mohammednoor Altarawneh, **Amun Amri**, Willey Yun Hsien Liew, Gerrard Eddy Jai Poinerne and Zhong-Tao Jiang. Monatomic reactions with single vacancy monolayer h-BN: DFT studies. ***RSC Advances*** , 2023, 13, 30346–30357.
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5. Julnaidi, **Amun Amri**, Edy Saputra, Nofrizala and Erman Taer. High well-matched energy gravimetric–volumetric symmetric super-capacitor derived from hollow paper stack-like biomass-based functional carbon. ***J. Chem Technol Biotechnol***, 2023, https://doi.org/10.1002/jctb.7459

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   https://onlinelibrary.wiley.com/doi/10.1002/jctb.7459?af=R

6. Naveed Hassan, Manickam Minakshi, Willey Yun Hsien Liew, **Amun Amri**, Zhong-Tao Jiang. Thermal Characterization of Binary Calcium-Lithium Chloride Salts for Thermal Energy Storage at High Temperature. ***Energies,*** Vol. 2023, *16*(12), 4715.

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7. **Amun Amri,** Yola Bertilsya Hendri, Edy Saputra, Chun-Yang Yin, M. Mahbubur Rahman, Manickam Minakshi, Nicholas Mondinos, Zhong-Tao Jiang. Formation kinetics of sol-gel derived LiFePO4 olivine analyzed by reliable non-isothermal approach. ***Ceramics International***, Vol. 48(10) (2022), 17729-17737.

   Scopus Q1.

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8. **Amun Amri,** M. Sugandi, Syelvia Putri Utami, M. Shalahuddin, Sulistyo Saputro, Improvements in Physical and Mechanical Properties of Asphalt by Addition of Low-cost Few-layers Graphene (FLG). ***Applied Materials and Technology***. Vol. 4(1) (2022), 18-23
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9. Nicholas Mondinos, Mohammednoor Altarawneh, Amun Amri, Willey Yun Hsien Liew. Molecular interaction with defected *h*-BN. ***Computational and Theoretical Chemistry***, Vo. 1217 (2022) 113911.
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10. Yusnimar, Evelyn, Azka Aman, Chairul, Suci Rahmadahana, **Amun Amri**. Manufacturing of high brightness dissolving pulp from sansevieriatrifasciata fiber by effective sequences processes. ***Communications In Science And Technology,*** Vol. 7(1) (2022) 45-49.
Scopus Q3
https://cst.kipmi.or.id/journal/article/view/681/104

11. **Amun Amri**, Sunarno, Sulistyo Saputro, Harnedi Maizir. Physicomechanical properties of lightweight geopolymer mortar with integrated graphene nanosheets. ***Songklanakarin J. Sci. Technol***., vol. 44 (2) (2022), 381-387.

    Scopus Q3

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12. **Amun Amri**, Yola Bertilsya Hendri, Chun-Yang Yin, M. Mahbubur Rahman, Mohammednoor Altarawneh, Zhong-Tao Jiang. Very-few-layer graphene obtained from facile two-step shear exfoliation in aqueous solution. ***Chemical Engineering Science***, Vol. 245 (2021) 116848

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16. Ehsan Mohammadpour, Nik Radevski, Nicholas Mondinos, Mohammednoor Altarawneh, Manickam Minakshi, **Amun Amri**, Zhong-Tao Jiang. High temperature (up to 1200 C) thermal-mechanical stability of Si and Ni doped CrN framework coatings. ***Journal of materials research and technology***, Vol. 14 (2021), 2406-2419.

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21. **Amun Amri,** AA. Najib, M. Olivia, M. Altarawneh, A. Syam, MM. Rahman, S. Saputro, J. Wahyuadi, ZT. Jiang. Physicochemical properties of geopolymer composites with DFT calculations of in-situ reduction of graphene oxide, ***Ceramics International***, *Vol. 47(10) part. A, (2021), 13440-13445.*

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31. M. Mahbubur Rahman, Khalil Ibrahim, Hatem Taha, **Amun Amri**, Xiaoli Zhao, Moh Altarawneh, Zhong-Tao Jiang. Studies of annealing impact on the morphological, opto-dielectric and mechanical behaviors of molybdenum-doped CrN coatings. ***Thin Solid Films***, 677 (2019) 119–129.
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34. **Amun Amri**, Ahmad Fadli, Zhong-Tao Jiang, Chun-Yang Yin, M. Mahbubur Rahman, Hantarto Widjaja, Syamsu Herman, Silvia Reni Yenti, M. Miftahul Munir, Gadang Priyotomo, M. Iqbal, Neni Frimayanti. Surface structural and solar absorptance features of nitrate-based copper-cobalt oxides composite coatings: Experimental studies and molecular dynamic simulation. ***Ceramics International***, 44 (2018), 15274–15280.
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    *(Elsevier; impact factor in 2018= **2.986 / Q1**)*

35. Hatem Taha, Zhong-Tao Jiang, Chun Yang Yin, David James Henry, Xiaoli Zhao, Geoffrey Trotter, and **Amun Amri**. A Novel Approach for Fabricating Transparent and Conducting SWCNTs/ITO Thin Films for Optoelectronic Applications. ***J. Phys. Chem. C***, vol. 122 (5), pp. 3014-3027, 2018.

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(Elsevier, Scopus Q2)

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Scopus Q2
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BOOKS

1. Introduction to Chemical Engineering Materials Science: Metals and Alloys. 2018.
   Publisher: UNRI Press. ISBN: 978-979-792-867-4
2. Introduction to Graphene and Its Applications. 2019.
   Publisher: UNRI Press. ISBN: 9789797929985
3. Ceramics Materials: Type, Structure, Properties and Applications. 2020.
   Publisher: UNRI Press. ISBN: 9786232550551
4. Composites and Composites with Graphene. 2023.
   Publisher: Deepublish. ISBN: 9786230274060
5. Sonication Technology and Applications. 2022.
   Publisher: Taman Karya. ISBN: 9786233253307
6. Biomass Waste Utilization for liquid waste processing. 2023.
   Publisher: Taman Karya. ISBN 9786233255271

INTERNATIONAL ACTIVITIES

Activities	Institutions involved	Year
1. Research Colaboration and Joint Publications	Univ. Riau (Indonesia) Murdoch Univ. (Australia) United Arab Emirates Univ. (UEA) New Castle Univ. of Singapore (Singapore) Jahangirnagar Univ. (Bangladesh) Univ. Sains Malaysia (USM Malaysia) Baghdad University (Irak)	2014 - present
2. External supervisor for Master and Phd student	Murdoch Univereity, Australia	2017-2020
3. Research Collaborations via KLN-Dikti scheme	Murdoch Univ. (Australia) New Castle Univ. of Singapore (Singapore)	2014 - 2016
4. Reviewer of reputable international journals (more than 85 papers of Scopus Indexed Journals)	Elsevier, Wiley, Springer, etc.	2014 -present
5. Teaching Fellow	Murdoch University, Australia	2010-2012

Pekanbaru, June 8th, 2024

(Prof. Amun Amri, ST, MT, PhD)