

# Muhammad Arif Ab Aziz

## List of Publications by Year in descending order

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Version: 2024-02-01

30  
papers

2,101  
citations

448610

19  
h-index

536525

29  
g-index

30  
all docs

30  
docs citations

30  
times ranked

2513  
citing authors

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 1  | Fabrication of mesoporous CeO <sub>2</sub> –MgO adsorbent with diverse active sites via eggshell membrane-templating for CO <sub>2</sub> capture. <i>Applied Physics A: Materials Science and Processing</i> , 2022, 128, 1. | 1.1 | 3         |
| 2  | Magnesium oxide-based adsorbents for carbon dioxide capture: Current progress and future opportunities. <i>Journal of CO<sub>2</sub> Utilization</i> , 2021, 43, 101357.   | 3.3 | 61        |
| 3  | Mesoporous Magnesium Oxide Adsorbent Prepared via Lime ( <i>Citrus aurantifolia</i> ) Peel Bio-templating for CO <sub>2</sub> Capture. <i>Bulletin of Chemical Reaction Engineering and Catalysis</i> , 2021, 16, 366-373.   | 0.5 | 2         |
| 4  | Green carbonaceous material–fibrous silica-titania composite photocatalysts for enhanced degradation of toxic 2-chlorophenol. <i>Journal of Hazardous Materials</i> , 2021, 414, 125524.                                     | 6.5 | 32        |
| 5  | High-performance flake-like mesoporous magnesium oxide prepared by eggshell membrane template for carbon dioxide capture. <i>Journal of Solid State Chemistry</i> , 2021, 300, 122242.                                       | 1.4 | 8         |
| 6  | Magnesium-based alloys for solid-state hydrogen storage applications: A review. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 31067-31083.   | 3.8 | 58        |
| 7  | Life cycle assessment of food waste composting management. <i>AIP Conference Proceedings</i> , 2021, , .   | 0.3 | 1         |
| 8  | Understanding the role of surface basic sites of catalysts in CO <sub>2</sub> activation in dry reforming of methane: a short review. <i>Catalysis Science and Technology</i> , 2020, 10, 35-45.                             | 2.1 | 118       |
| 9  | High-performance Bimetallic Catalysts for Low-temperature Carbon Dioxide Reforming of Methane. <i>Chemical Engineering and Technology</i> , 2020, 43, 661-671.   | 0.9 | 19        |
| 10 | Novel Fabrication of Photoactive CuO/HY Zeolite as an Efficient Catalyst for Photodecolorization of Malachite Green. <i>Topics in Catalysis</i> , 2020, 63, 1005-1016.   | 1.3 | 8         |
| 11 | A highly competitive system for CO methanation over an active metal-free fibrous silica mordenite via in-situ ESR and FTIR studies. <i>Energy Conversion and Management</i> , 2020, 211, 112754.                             | 4.4 | 21        |
| 12 | Efficient 3-aminopropyltrimethoxysilane functionalised mesoporous ceria nanoparticles for CO <sub>2</sub> capture. <i>Materials Today Chemistry</i> , 2020, 16, 100273.  | 1.7 | 16        |
| 13 | A review of heterogeneous catalysts for syngas production via dry reforming. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2019, 101, 139-158.  | 2.7 | 87        |
| 14 | Mesoporous adsorbent for CO <sub>2</sub> capture application under mild condition: A review. <i>Journal of Environmental Chemical Engineering</i> , 2019, 7, 103022.   | 3.3 | 78        |
| 15 | Optimal Ni loading towards efficient CH <sub>4</sub> production from H <sub>2</sub> and CO <sub>2</sub> over Ni supported onto fibrous SBA-15. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 7228-7240.        | 3.8 | 34        |
| 16 | Tailored mesoporosity and acidity of shape-selective fibrous silica beta zeolite for enhanced toluene co-reaction with methanol. <i>Chemical Engineering Science</i> , 2019, 193, 217-229.                                   | 1.9 | 54        |
| 17 | Preparation of activated carbon from oil palm empty fruit bunch by physical activation for treatment of landfill leachate. <i>IOP Conference Series: Materials Science and Engineering</i> , 2018, 458, 012036.              | 0.3 | 4         |
| 18 | Transesterification of croton megalocarpus oil to biodiesel over WO <sub>3</sub> supported on silica mesoporous-macroparticles catalyst. <i>Chemical Engineering Journal</i> , 2017, 316, 882-892.                           | 6.6 | 29        |

| #  | ARTICLE  | IF   | CITATIONS |
|----|--|------|-----------|
| 19 | Tailoring the properties of electrolyzed Ni/mesostructured silica nanoparticles (MSN) via different Ni-loading methods for CO <sub>2</sub> reforming of CH <sub>4</sub> . Journal of CO <sub>2</sub> Utilization, 2016, 13, 71-80. | 3.3  | 61        |
| 20 | Mesoporous ZSM5 having both intrinsic acidic and basic sites for cracking and methanation. Chemical Engineering Journal, 2015, 270, 196-204.   | 6.6  | 47        |
| 21 | Low-temperature stabilization of electrosynthesized tetragonal zirconia, its photoactivity toward methylene blue decolorization. Desalination and Water Treatment, 2015, 56, 2402-2416.  | 1.0  | 12        |
| 22 | CO <sub>2</sub> methanation over heterogeneous catalysts: recent progress and future prospects. Green Chemistry, 2015, 17, 2647-2663.  | 4.6  | 576       |
| 23 | CO <sub>2</sub> methanation over Ni-promoted mesostructured silica nanoparticles: Influence of Ni loading and water vapor on activity and response surface methodology studies. Chemical Engineering Journal, 2015, 260, 757-764.  | 6.6  | 141       |
| 24 | Protonation of Al-grafted mesostructured silica nanoparticles (MSN): Acidity and catalytic activity for cumene conversion. Chemical Engineering Journal, 2014, 240, 352-361.   | 6.6  | 39        |
| 25 | Highly active Ni-promoted mesostructured silica nanoparticles for CO <sub>2</sub> methanation. Applied Catalysis B: Environmental, 2014, 147, 359-368.   | 10.8 | 404       |
| 26 | Methanation of carbon dioxide on metal-promoted mesostructured silica nanoparticles. Applied Catalysis A: General, 2014, 486, 115-122.   | 2.2  | 125       |
| 27 | Promotive effect of hydrogen in n-hexane isomerization over Ni/PtHY catalyst. Malaysian Journal of Fundamental and Applied Sciences, 2014, 9, .  | 0.4  | 0         |
| 28 | Interaction of Zn <sup>2+</sup> with extraframework aluminum in HBEA zeolite and its role in enhancing n-pentane isomerization. Applied Catalysis A: General, 2012, 431-432, 104-112.  | 2.2  | 35        |
| 29 | Negative effect of Ni on PtHY in n-pentane isomerization evidenced by IR and ESR studies. Journal of Natural Gas Chemistry, 2012, 21, 29-36.   | 1.8  | 19        |
| 30 | Effect of iridium loading on HZSM-5 for isomerization of n-heptane. Journal of Natural Gas Chemistry, 2011, 20, 477-482.   | 1.8  | 9         |