

Bawadi Abdullah

List of Publications by Year in descending order

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Version: 2024-02-01

116
papers

3,295
citations

182225

30
h-index

190340

53
g-index

120
all docs

120
docs citations

120
times ranked

3684
citing authors

#	ARTICLE	IF	CITATIONS
1	Response surface optimization of syngas production from greenhouse gases via DRM over high performance Ni-W catalyst. International Journal of Hydrogen Energy, 2022, 47, 31058-31071.	3.8	26
2	Kinetic studies for DRM over high-performance Ni-W/Al ₂ O ₃ -MgO catalyst. International Journal of Hydrogen Energy, 2022, 47, 42150-42159.	3.8	24
3	Hydrogen-rich syngas production from bi-reforming of greenhouse gases over zirconia modified Ni/MgO catalyst. International Journal of Energy Research, 2022, 46, 2529-2545.	2.2	14
4	A review on recent advances in dry reforming of methane over Ni- and Co-based nanocatalysts. International Journal of Hydrogen Energy, 2022, 47, 42213-42233.	3.8	60
5	Metal chloride anion based ionic liquids: synthesis, characterization and evaluation of performance in hydrogen sulfide oxidative absorption. RSC Advances, 2022, 12, 11906-11912.	1.7	3
6	Mesoporous silica supported Ni-based catalysts for methane dry reforming: A review of recent studies. International Journal of Hydrogen Energy, 2022, 47, 41596-41620.	3.8	45
7	Contemporary trends in composite Ni-based catalysts for CO ₂ reforming of methane. Chemical Engineering Science, 2021, 229, 116072.	1.9	99
8	Crystal violet degradation over BiVO ₄ photocatalyst under visible light irradiation. Chemical Engineering Communications, 2021, 208, 530-538.	1.5	8
9	Recent developments in photocatalytic irradiation from CO ₂ to methanol. , 2021, , 519-540.		12
10	Photocatalytic Reduction of CO ₂ to Methanol Using a Copper-Zirconia Imidazolate Framework. Catalysts, 2021, 11, 346.	1.6	5
11	Performance of Ni/Al ₂ O ₃ -MgO catalyst for Dry Reforming of Methane: Effect of preparation routes. IOP Conference Series: Materials Science and Engineering, 2021, 1092, 012069.	0.3	20
12	Five-lump kinetic approach on biofuel production from refined rubber seed oil over Cu/ZSM-5 catalyst via catalytic cracking reaction. Renewable Energy, 2021, 171, 1445-1453.	4.3	6
13	Conductivity Sensors Based System Development and Application to Investigate the Interfacial Behaviour between Supersonic Steam Jet and Water. Instruments and Experimental Techniques, 2021, 64, 630-639.	0.1	0
14	Low-temperature catalytic conversion of greenhouse gases (CO ₂ and CH ₄) to syngas over ceria-magnesia mixed oxide supported nickel catalysts. International Journal of Hydrogen Energy, 2021, 46, 24768-24780.	3.8	28
15	Highly porous Zr-MCM-48 immobilized Cu-porphyrin for photocatalytic reduction of CO ₂ to methanol in a slurry reactor. Journal of Materials Science: Materials in Electronics, 2021, 32, 22060-22075.	1.1	1
16	Syngas production from greenhouse gases using Ni-W bimetallic catalyst via dry methane reforming: Effect of W addition. International Journal of Hydrogen Energy, 2021, 46, 27044-27061.	3.8	48
17	A comprehensive review on improving the production of rich-hydrogen via combined steam and CO ₂ reforming of methane over Ni-based catalysts. International Journal of Hydrogen Energy, 2021, 46, 31024-31040.	3.8	65
18	Dry reforming of methane over Ni-based catalysts: Effect of ZrO ₂ and MgO addition as support. Materials Letters: X, 2021, 12, 100095.	0.3	12

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19	Screening of Metal Chloride Anion-based Ionic Liquids for Direct Conversion of Hydrogen Sulfide by COSMO-RS. E3S Web of Conferences, 2021, 287, 02003.	0.2	4
20	Clean Hydrogen Production Technologies. , 2021, , 159-170.		12
21	Potential Feature of Combined AB5-Type Metal Hydride Tank and PEMFC as a Safer System for Hydrogen Fueling in Bangladesh. Frontiers in Energy Research, 2021, 9, .	1.2	0
22	Combined H ₂ O and CO ₂ Reforming of CH ₄ Over Ca Promoted Ni/Al ₂ O ₃ Catalyst: Enhancement of Ni-CaO Interactions. Lecture Notes in Mechanical Engineering, 2021, , 220-229.	0.3	7
23	A Brief Review on Hydrogen production to Utilization Techniques. , 2021, , .		4
24	Hydrogen production via natural gas reforming: A comparative study between DRM, SRM and BRM techniques. , 2021, , .		8
25	Growth kinetic study of ionic liquid mediated synthesis of gold nanoparticles using <i>Elaeis guineensis</i> (oil palm) kernels extract under microwave irradiation. Arabian Journal of Chemistry, 2020, 13, 620-631.	2.3	8
26	Size and stability modulation of ionic liquid functionalized gold nanoparticles synthesized using <i>Elaeis guineensis</i> (oil palm) kernel extract. Arabian Journal of Chemistry, 2020, 13, 75-85.	2.3	33
27	The effect of metal loading over Ni/ ³ -Al ₂ O ₃ and Mo/ ³ -Al ₂ O ₃ catalysts on reaction routes of hydrodeoxygenation of rubber seed oil for green diesel production. Catalysis Today, 2020, 355, 51-64.	2.2	50
28	Ethanol CO ₂ reforming on La ₂ O ₃ and CeO ₂ -promoted Cu/Al ₂ O ₃ catalysts for enhanced hydrogen production. International Journal of Hydrogen Energy, 2020, 45, 18398-18410.	3.8	24
29	Synthesis, Characterisation, and Performance Evaluation of Promoted Ni-Based Catalysts for Thermocatalytic Decomposition of Methane. ChemistrySelect, 2020, 5, 11471-11482.	0.7	3
30	Integrated Biorefinery of Empty Fruit Bunch from Palm Oil Industries to Produce Valuable Biochemicals. Processes, 2020, 8, 868.	1.3	14
31	Hydrogen production via thermocatalytic decomposition of methane over Ni-Cu-Pd/Al ₂ O ₃ catalysts. IOP Conference Series: Materials Science and Engineering, 2020, 736, 042006.	0.3	2
32	Short-Chain Polyglycerol Production via Microwave-Assisted Solventless Glycerol Polymerization Process Over Lioh-Modified Aluminium Pillared Clay Catalyst: Parametric Study. Processes, 2020, 8, 1093.	1.3	2
33	A review over the role of catalysts for selective short-chain polyglycerol production from biodiesel derived waste glycerol. Environmental Technology and Innovation, 2020, 19, 100859.	3.0	48
34	Biogasoline production from linoleic acid via catalytic cracking over nickel and copper-doped ZSM-5 catalysts. Environmental Research, 2020, 186, 109616.	3.7	24
35	BiVO ₄ photocatalysis design and applications to oxygen production and degradation of organic compounds: a review. Environmental Chemistry Letters, 2020, 18, 1779-1801.	8.3	100
36	Photocatalytic reduction of CO ₂ to methanol over ZnFe ₂ O ₄ /TiO ₂ (p-n) heterojunctions under visible light irradiation. Journal of Chemical Technology and Biotechnology, 2020, 95, 2208-2221.	1.6	31

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37	Syngas production via dry reforming of methane over Ni-based catalysts. IOP Conference Series: Materials Science and Engineering, 2020, 736, 042007.	0.3	12
38	Silica-carbon quantum dots decorated titanium dioxide as sunlight-driven photocatalyst to diminish acetaminophen from aquatic environment. Journal of Photochemistry and Photobiology A: Chemistry, 2020, 394, 112436.	2.0	22
39	Catalytic conversion of greenhouse gases (CO ₂ and CH ₄) to syngas over Ni-based catalyst: Effects of Ce-La promoters. Arabian Journal of Chemistry, 2020, 13, 5740-5749.	2.3	16
40	Fossil Fuels, Rising Population, and Global Warming: The Interlinked Phenomena. Oriental Journal of Physical Sciences, 2020, 5, 49-52.	0.0	2
41	Non-oxidative decomposition of methane/methanol mixture over mesoporous Ni-Cu/Al ₂ O ₃ Co-doped catalysts. International Journal of Hydrogen Energy, 2019, 44, 20889-20899.	3.8	22
42	Dry reforming of methane for hydrogen production over Ni Co catalysts: Effect of Nb Zr promoters. International Journal of Hydrogen Energy, 2019, 44, 20881-20888.	3.8	37
43	Production of syngas from ethanol CO ₂ reforming on La-doped Cu/Al ₂ O ₃ : Impact of promoter loading. AIP Conference Proceedings, 2019, , .	0.3	5
44	Comparative study of glycerol conversion to polyglycerol via conventional and microwave irradiation reactor. Materials Today: Proceedings, 2019, 16, 2101-2107.	0.9	2
45	Comprehensive review of structured binary Ni-NiO catalyst: Synthesis, characterization and applications. Renewable and Sustainable Energy Reviews, 2019, 114, 109326.	8.2	35
46	Electromagnetic waves-induced hydrophobic multiwalled carbon nanotubes for enhanced oil recovery. Journal of Petroleum Exploration and Production, 2019, 9, 2667-2670.	1.2	19
47	Fourth generation biofuel: A review on risks and mitigation strategies. Renewable and Sustainable Energy Reviews, 2019, 107, 37-50.	8.2	323
48	Syngas Production via Methane Dry Reforming over Ceria-Magnesia Mixed Oxide-Supported Nickel Catalysts. Industrial & Engineering Chemistry Research, 2019, 58, 539-552.	1.8	83
49	Effect of monometallic copper on zeolitic imidazolate framework-8 synthesized by hydrothermal method. Journal of Physics: Conference Series, 2018, 1123, 012062.	0.3	14
50	Ethylene glycol dry reforming for syngas generation on Ce-promoted Co/Al ₂ O ₃ catalysts. Applied Petrochemical Research, 2018, 8, 253-261.	1.3	5
51	Controllable green synthesis of supported hollow NiO crystals with shape evolution from octahedral to novel truncated octahedral. CrystEngComm, 2018, 20, 6662-6666.	1.3	10
52	Dry reforming of methane for syngas production over Ni-Co-supported Al ₂ O ₃ -MgO catalysts. Applied Petrochemical Research, 2018, 8, 263-270.	1.3	23
53	Photoreduction of Carbon Dioxide to Methanol over Copper Based Zeolitic Imidazolate Framework-8: A New Generation Photocatalyst. Catalysts, 2018, 8, 581.	1.6	41
54	Hydrogen-Rich Syngas Production via Ethanol Dry Reforming over Rare-Earth Metal-Promoted Co-based Catalysts. , 2018, , 177-204.		2

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55	Visible light driven CO ₂ reduction to methanol by Cu-porphyrin impregnated mesoporous Ti-MCM-48. <i>Journal of Molecular Liquids</i> , 2018, 272, 656-667.	2.3	31
56	Recent advances in cleaner hydrogen productions via thermo-catalytic decomposition of methane: Admixture with hydrocarbon. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 18713-18734.	3.8	55
57	A review of hydrogen production via biomass gasification and its prospect in Bangladesh. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 14944-14973.	3.8	133
58	Agro-industrial waste to biobutanol production: Eco-friendly biofuels for next generation. <i>Renewable and Sustainable Energy Reviews</i> , 2018, 94, 476-485.	8.2	92
59	Ionic liquid functionalized synthesis of gold nanoparticles in response to <i>Elaise Guineensis</i> (oil palm) leaves amount. <i>AIP Conference Proceedings</i> , 2018, , .	0.3	0
60	Bi-reforming of methane on Ni/SBA-15 catalyst for syngas production: Influence of feed composition. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 17230-17243.	3.8	59
61	HYDROGEN PRODUCTION FROM ETHANOL DRY REFORMING OVER LANTHANIA-PROMOTED Co/Al ₂ O ₃ CATALYST. <i>IJUM Engineering Journal</i> , 2018, 19, 24-33.	0.5	5
62	Temperature programmed analysis of hydrogenation and dehydrogenation of magnesium (Mg), nickel (Ni) and aluminum (Al) containing mixed oxides. <i>Chemical Engineering Research and Design</i> , 2017, 118, 103-111.	2.7	4
63	Evaluation of gas-liquid mass transfer in gas-induced stirred tank reactor using electrical resistance tomography. <i>Journal of Chemical Technology and Biotechnology</i> , 2017, 92, 2123-2133.	1.6	11
64	Preparation and characterization of magnetic biosorbent based on oil palm empty fruit bunch fibers, cellulose and <i>Ceiba pentandra</i> for heavy metal ions removal. <i>Industrial Crops and Products</i> , 2017, 105, 93-103.	2.5	71
65	Refining of crude rubber seed oil as a feedstock for biofuel production. <i>Journal of Environmental Management</i> , 2017, 203, 1011-1016.	3.8	10
66	Scalable bio-friendly method for production of homogeneous metal oxide nanoparticles using green bovine skin gelatin. <i>Journal of Cleaner Production</i> , 2017, 162, 186-194.	4.6	28
67	Recent advances in dry reforming of methane over Ni-based catalysts. <i>Journal of Cleaner Production</i> , 2017, 162, 170-185.	4.6	538
68	Catalysis mechanism of Pd-promoted γ -alumina in the thermal decomposition of methane to hydrogen: A density functional theory study. <i>Materials Chemistry and Physics</i> , 2017, 188, 18-23.	2.0	21
69	Thermocatalytic decomposition of methane/methanol mixture for hydrogen production: Effect of nickel loadings on alumina support. <i>AIP Conference Proceedings</i> , 2017, , .	0.3	11
70	Catalytic performance of Ni/MgO catalyst in methane dry reforming. <i>AIP Conference Proceedings</i> , 2017, , .	0.3	11
71	Synthesis and characterization of thermally stable zirconia based mesoporous nanosilica with metalloporphyrin encapsulation. <i>AIP Conference Proceedings</i> , 2017, , .	0.3	0
72	Effect of pH on ionic liquid mediated synthesis of gold nanoparticle using <i>elaiseguineensis</i> (palm oil) kernel extract. <i>IOP Conference Series: Materials Science and Engineering</i> , 2017, 204, 012002.	0.3	11

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73	Hydrogen Production by Decomposition of Methane and Methanol Mixture over Ni-Pd/Al ₂ O ₃ . Nihon Enerugi Gakkaishi/Journal of the Japan Institute of Energy, 2017, 96, 445-450.	0.2	10
74	A Flipped Classroom Technique in Improving Students' Grade of Transport Phenomena Course. , 2017, , .		1
75	Ionic liquid based extraction of flavonoids from <i>Elaeis guineensis</i> leaves and their applications for gold nanoparticles synthesis. Journal of Molecular Liquids, 2017, 241, 270-278.	2.3	34
76	Upgrading of bio-oil from palm kernel shell by catalytic cracking in the presence of HZSM-5. International Journal of Green Energy, 2016, 13, 424-429.	2.1	18
77	Structural feature based computational approach of toxicity prediction of ionic liquids: Cationic and anionic effects on ionic liquids toxicity. Journal of Molecular Liquids, 2016, 224, 393-400.	2.3	39
78	The Effect of Co-solvent on the Solubility of a Sparingly Soluble Crystal of Benzoic Acid. Procedia Engineering, 2016, 148, 1320-1325.	1.2	10
79	Promotional Effect of Ce-dopant on Al ₂ O ₃ -supported Co Catalysts for Syngas Production via CO ₂ Reforming of Ethanol. Procedia Engineering, 2016, 148, 646-653.	1.2	41
80	Synthesis of ZnFe ₂ O ₄ Using sol-gel Method: Effect of Different Calcination Parameters. Procedia Engineering, 2016, 148, 787-794.	1.2	25
81	Improvement on Coke Formation of CaO-Ni/Al ₂ O ₃ Catalysts in Ethylene Production via Dehydration of Ethanol. Procedia Engineering, 2016, 148, 1289-1294.	1.2	13
82	Influence of Lanthanide Promoters on Ni/SBA-15 Catalysts for Syngas Production by Methane Dry Reforming. Procedia Engineering, 2016, 148, 1388-1395.	1.2	51
83	Mathematical Modeling of Thickness Dependent Physical Aging in Polymeric Membranes. Key Engineering Materials, 2016, 701, 275-280.	0.4	3
84	Ionic Liquid Mediated Biosynthesis of Gold Nanoparticles Using <i>Elaeis Guineensis</i> (Oil Palm) Leaves Extract. Procedia Engineering, 2016, 148, 568-572.	1.2	11
85	Real-time monitoring and measurement of wax deposition in pipelines via non-invasive electrical capacitance tomography. Measurement Science and Technology, 2016, 27, 025403.	1.4	15
86	Ethanol dry reforming for syngas production over Ce-promoted Ni/Al ₂ O ₃ catalyst. Journal of Environmental Chemical Engineering, 2016, 4, 4830-4838.	3.3	61
87	Syngas production from methane dry reforming over Ni/Al ₂ O ₃ catalyst. Research on Chemical Intermediates, 2016, 42, 269-288.	1.3	66
88	Optimisation and Kinetic Studies of Acid Esterification of High Free Fatty Acid Rubber Seed Oil. Arabian Journal for Science and Engineering, 2016, 41, 2515-2526.	1.1	39
89	Thermo-Catalytic Methane Decomposition for Hydrogen Production: Effect of Palladium Promoter on Ni-based Catalysts. Bulletin of Chemical Reaction Engineering and Catalysis, 2016, 11, 191-199.	0.5	14
90	Dispersion of Co/CNTs via strong electrostatic adsorption method: Thermal treatment effect. AIP Conference Proceedings, 2015, , .	0.3	28

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91	Application of microscopy technology in thermo-catalytic methane decomposition to hydrogen. AIP Conference Proceedings, 2015, , .	0.3	2
92	Modeling the Effect of Temperature-Induced Surface Tension Gradient in Coating Processes. Advanced Materials Research, 2014, 917, 181-188.	0.3	0
93	Hydrogenated Microstructure and Its Hydrogenation Properties: A Density Functional Theory Study. Journal of Nanomaterials, 2014, 2014, 1-7.	1.5	1
94	Composition Prediction of a Debutanizer Column using Equation Based Artificial Neural Network Model. Neurocomputing, 2014, 131, 59-76.	3.5	31
95	Non-linear ASF product distribution over alkaline-earth promoted molybdenum carbide catalysts for hydrocarbon synthesis. Catalysis Today, 2013, 214, 42-49.	2.2	25
96	Sensitivity of the CFD Mesh for a Single Rising Bubble in a Hallimond Tube. Applied Mechanics and Materials, 2013, 372, 26-29.	0.2	1
97	Evaluation of Ba-promoted Mo carbide catalyst for Fischer-Tropsch synthesis. Journal of Chemical Technology and Biotechnology, 2013, 88, 1358-1363.	1.6	7
98	Effect of Operating Conditions and Fractional Condensation on Pyrolytic Products. Nihon Enerugi Gakkaishi/Journal of the Japan Institute of Energy, 2013, 92, 1014-1020.	0.2	6
99	Transesterification of Palm Oil in a Millichannel Reactor. Nihon Enerugi Gakkaishi/Journal of the Japan Institute of Energy, 2013, 92, 905-908.	0.2	6
100	Electrical resistance tomography-assisted analysis of dispersed phase hold-up in a gas-inducing mechanically stirred vessel. Chemical Engineering Science, 2011, 66, 5648-5662.	1.9	32
101	Fischer-Tropsch Synthesis Investigation in a Gas-Inducing Agitated Reactor Using Electrical Capacitance Tomography. ACS Symposium Series, 2011, , 185-213.	0.5	0
102	Modeling and control of a reactor. , 2007, , .		1
103	Biodiesel Production from Palm Oil in a Millichannel Reactor. Applied Mechanics and Materials, 0, 465-466, 232-236.	0.2	0
104	Influence of Acid and Thermal Treatments on Properties of Carbon Nanotubes. Advanced Materials Research, 0, 832, 394-398.	0.3	9
105	Extraction of Phenol and Acetic Acid from Synthetic Bio-Oil by Ammonium Sulfate Solution. Key Engineering Materials, 0, 594-595, 286-290.	0.4	1
106	Synthesis of Co/CNTs via Strong Electrostatic Adsorption: Effect of Metal Loading. Advanced Materials Research, 0, 1043, 101-104.	0.3	28
107	Palm Bio-Oil Upgrading Research-Towards Effective Utilization of Waste. Applied Mechanics and Materials, 0, 625, 800-804.	0.2	0
108	Evaluation of Electrical Capacitance Tomography Thresholding Techniques for Void Fraction Measurement of Gas-Liquid System. Applied Mechanics and Materials, 0, 625, 439-443.	0.2	1

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109	Synthesis and Characterization of Co/CNTs Catalysts Prepared by Strong Electrostatic Adsorption (SEA) Method. Applied Mechanics and Materials, 0, 625, 328-332.	0.2	29
110	Hydrogen and Syngas Generation from Gasification of Coal in an Integrated Fuel Processor. Applied Mechanics and Materials, 0, 625, 644-647.	0.2	2
111	Fast Pyrolysis of Oil Palm Kernel Shell in a Fluidized Bed Reactor: The Effect of Pyrolysis Temperature on the Yields of Pyrolysis Products. Applied Mechanics and Materials, 0, 625, 616-619.	0.2	3
112	Modelling of Carbon Dioxide Leakage in Abandon Wells Using Computational Fluid Dynamics. Applied Mechanics and Materials, 0, 625, 780-783.	0.2	1
113	Heavy Metal Removal by Oil Palm Empty Fruit Bunches (OPEFB) Biosorbent. Applied Mechanics and Materials, 0, 625, 889-892.	0.2	4
114	Fast Pyrolysis of Oil Palm Kernel Shell in a Fluidized Bed Reactor: The Effect of Biomass Size on the Yields of Pyrolysis Products. Applied Mechanics and Materials, 0, 625, 608-611.	0.2	1
115	An Evaluation of Fish Scales as Potential Adsorbents: pH and Concentration Effect. Applied Mechanics and Materials, 0, 625, 73-76.	0.2	3
116	The Effects of Oil Palm Empty Fruit Bunch Sorbent Sizes on Plumbum (II) Ion Sorption. Advanced Materials Research, 0, 1133, 542-546.	0.3	3