

Hd Setiabudi

List of Publications by Year in descending order

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papers

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citations

172207

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2270
citing authors

#	ARTICLE	IF	CITATIONS
1	Advanced synthesis strategies of mesoporous SBA-15 supported catalysts for catalytic reforming applications: A state-of-the-art review. <i>Applied Catalysis A: General</i> , 2018, 559, 57-74.	2.2	193
2	Oxygen vacancy-rich mesoporous silica KCC-1 for CO ₂ methanation. <i>Applied Catalysis A: General</i> , 2017, 532, 86-94.	2.2	134
3	Utilization of bivalve shell-treated Zea mays L. (maize) husk leaf as a low-cost biosorbent for enhanced adsorption of malachite green. <i>Bioresource Technology</i> , 2012, 120, 218-224.	4.8	112
4	Syngas production from methane dry reforming over Ni/SBA-15 catalyst: Effect of operating parameters. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 11283-11294.	3.8	104
5	Hydrogen production from catalytic steam reforming of biomass pyrolysis oil or bio-oil derivatives: A review. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 18376-18397.	3.8	103
6	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
7	Recent progress in ceria-based catalysts for the dry reforming of methane: A review. <i>Chemical Engineering Science</i> , 2021, 242, 116606.	1.9	74
8	Comparative study of Ni-Ce loading method: Beneficial effect of ultrasonic-assisted impregnation method in CO ₂ reforming of CH ₄ over Ni-Ce/SBA-15. <i>Journal of Environmental Chemical Engineering</i> , 2018, 6, 745-753.	3.3	73
9	Sequential desilication—“isomorphous substitution route to prepare mesostructured silica nanoparticles loaded with ZnO and their photocatalytic activity. <i>Applied Catalysis A: General</i> , 2013, 468, 276-287.	2.2	69
10	Robust Ni/Dendritic fibrous SBA-15 (Ni/DFSBA-15) for methane dry reforming: Effect of Ni loadings. <i>Applied Catalysis A: General</i> , 2019, 584, 117174.	2.2	60
11	Adsorption of methylene blue onto oil palm (<i>Elaeis guineensis</i>) leaves: Process optimization, isotherm, kinetics and thermodynamic studies. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2016, 63, 363-370.	2.7	57
12	Syngas production via CO ₂ reforming of CH ₄ over Ni-based SBA-15: Promotional effect of promoters (Ce, Mg, and Zr). <i>Materials Today Energy</i> , 2019, 12, 408-417.	2.5	54
13	Insight into the influence of rare-earth promoter (CeO ₂ , La ₂ O ₃ , Y ₂ O ₃ , and Sm ₂ O ₃) addition toward methane dry reforming over Co/mesoporous alumina catalysts. <i>Chemical Engineering Science</i> , 2020, 228, 115967.	1.9	53
14	Tailoring the current density to enhance photocatalytic activity of CuO/HY for decolorization of malachite green. <i>Journal of Electroanalytical Chemistry</i> , 2013, 701, 50-58.	1.9	52
15	C ₅ —C ₇ linear alkane hydroisomerization over MoO ₃ —ZrO ₂ and Pt/MoO ₃ —ZrO ₂ catalysts. <i>Journal of Catalysis</i> , 2013, 303, 50-59.	3.1	52
16	Influence of Lanthanide Promoters on Ni/SBA-15 Catalysts for Syngas Production by Methane Dry Reforming. <i>Procedia Engineering</i> , 2016, 148, 1388-1395.	1.2	51
17	Ni/Fibrous type SBA-15: Highly active and coke resistant catalyst for CO ₂ methanation. <i>Chemical Engineering Science</i> , 2021, 229, 116141.	1.9	50
18	Dry reforming of methane over Ni/dendritic fibrous SBA-15 (Ni/DFSBA-15): Optimization, mechanism, and regeneration studies. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 8507-8525.	3.8	50

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19	Ir/Pt-HZSM5 for n-pentane isomerization: Effect of iridium loading on the properties and catalytic activity. <i>Journal of Catalysis</i> , 2012, 294, 128-135.	3.1	48
20	Ir/Pt-HZSM5 for n-pentane isomerization: Effect of Si/Al ratio and reaction optimization by response surface methodology. <i>Chemical Engineering Journal</i> , 2013, 217, 300-309.	6.6	47
21	Influence of impregnation assisted methods of Ni/SBA-15 for production of hydrogen via dry reforming of methane. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 18426-18439.	3.8	40
22	Protonation of Al-grafted mesostructured silica nanoparticles (MSN): Acidity and catalytic activity for cumene conversion. <i>Chemical Engineering Journal</i> , 2014, 240, 352-361.	6.6	39
23	Promising hydrothermal technique for efficient CO ₂ methanation over Ni/SBA-15. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 20792-20804.	3.8	39
24	Effective removal of Pb(II) by low-cost fibrous silica KCC-1 synthesized from silica-rich rice husk ash. <i>Journal of Industrial and Engineering Chemistry</i> , 2019, 75, 262-270.	2.9	39
25	IR study of iridium bonded to perturbed silanol groups of Pt-HZSM5 for n-pentane isomerization. <i>Applied Catalysis A: General</i> , 2012, 417-418, 190-199.	2.2	37
26	Interaction of Zn ²⁺ with extraframework aluminum in HBEA zeolite and its role in enhancing n-pentane isomerization. <i>Applied Catalysis A: General</i> , 2012, 431-432, 104-112.	2.2	35
27	Optimal Ni loading towards efficient CH ₄ production from H ₂ and CO ₂ over Ni supported onto fibrous SBA-15. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 7228-7240.	3.8	34
28	Syngas production via methane dry reforming: A novel application of SmCoO ₃ perovskite catalyst. <i>Journal of Natural Gas Science and Engineering</i> , 2017, 37, 435-448.	2.1	33
29	Identification of microbial inhibitions and mitigation strategies towards cleaner bioconversions of palm oil mill effluent (POME): A review. <i>Journal of Cleaner Production</i> , 2021, 280, 124346.	4.6	32
30	Tailoring the properties and catalytic activities of Ni/SBA-15 via different TEOS/P123 mass ratios for CO ₂ reforming of CH ₄ . <i>Journal of Environmental Chemical Engineering</i> , 2017, 5, 3122-3128.	3.3	31
31	Process optimization of methylene blue adsorption onto eggshell-treated palm oil fuel ash. <i>Environmental Technology and Innovation</i> , 2019, 13, 62-73.	3.0	31
32	Development of nanosilica-based catalyst for syngas production via CO ₂ reforming of CH ₄ : A review. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 24687-24708.	3.8	29
33	Effect of Ni loading on SBA-15 synthesized from palm oil fuel ash waste for hydrogen production via CH ₄ dry reforming. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 18411-18425.	3.8	28
34	Methane dry reforming over Ni/fibrous SBA-15 catalysts: Effects of support morphology (rod-like) Tj ETQq0 0 0 rgBT, /Overlock 10 Tf 50	2.2	28
35	Hydrogen production via CO ₂ reforming of CH ₄ over low-cost Ni/SBA-15 from silica-rich palm oil fuel ash (POFA) waste. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 20815-20825.	3.8	26
36	Dendritic fibrous SBA-15 supported nickel (Ni/DFSBA-15): A sustainable catalyst for hydrogen production. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 18533-18548.	3.8	22

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37	Formation of acidic Brønsted (MoOx)~(Hy)+ evidenced by XRD and 2,6-lutidine FTIR spectroscopy for cumene cracking. <i>Applied Catalysis A: General</i> , 2013, 459, 8-16.	2.2	21
38	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
39	An intriguing Z-scheme titania loaded on fibrous silica ceria for accelerated visible-light-driven photocatalytic degradation of ciprofloxacin. <i>Environmental Research</i> , 2022, 211, 113069.	3.7	21
40	Effect of Pt~Pd/C coupled catalyst loading and polybenzimidazole ionomer binder on oxygen reduction reaction in high-temperature PEMFC. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 20760-20769.	3.8	20
41	Negative effect of Ni on PtHY in n-pentane isomerization evidenced by IR and ESR studies. <i>Journal of Natural Gas Chemistry</i> , 2012, 21, 29-36.	1.8	19
42	Removal of Pb(II) from aqueous solution using KCC-1: Optimization by response surface methodology (RSM). <i>Journal of King Saud University - Science</i> , 2019, 31, 1182-1188.	1.6	19
43	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
44	Modified fibrous silica for enhanced carbon dioxide adsorption: Role of metal oxides on physicochemical properties and adsorption performance. <i>Journal of Solid State Chemistry</i> , 2021, 294, 121845.	1.4	17
45	CO2 reforming of CH4 over Ni/SBA-15 prepared by surfactant-assisted impregnation method: Comparative study of surfactant types. <i>Materials Today: Proceedings</i> , 2018, 5, 21644-21651.	0.9	16
46	Zirconium-Loaded Mesoporous Silica Nanoparticles Adsorbent for Removal of Hexavalent Chromium from Aqueous Solution. <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 704-712.	1.8	15
47	Synthesis of silver nanoparticles in green binary solvent for degradation of 2,4-D herbicide: Optimization and kinetic studies. <i>Chemical Engineering Research and Design</i> , 2020, 159, 300-314.	2.7	15
48	Synthesis of KCC-1 Using Rice Husk Ash for Pb Removal from Aqueous Solution and Petrochemical Wastewater. <i>Bulletin of Chemical Reaction Engineering and Catalysis</i> , 2019, 14, 196-204.	0.5	15
49	Photodegradation of methylene blue using phyto-mediated synthesis of silver nanoparticles: effect of calcination treatment. <i>Materials Today: Proceedings</i> , 2018, 5, 21981-21989.	0.9	14
50	Facile synthesis of tunable dendritic fibrous SBA-15 (DFSBA-15) with radial wrinkle structure. <i>Microporous and Mesoporous Materials</i> , 2020, 294, 109872.	2.2	14
51	Enhanced production of reducing sugars from paragrass using microwave-assisted alkaline pretreatment. <i>Biomass Conversion and Biorefinery</i> , 2021, 11, 2471-2483.	2.9	14
52	Potential nanomaterials application in wastewater treatment: Physical, chemical and biological approaches. <i>Materials Today: Proceedings</i> , 2021, 42, 107-114.	0.9	14
53	Vatica rassak wood waste-derived activated carbon for effective Pb(II) adsorption: Kinetic, isotherm and reusability studies. <i>Materials Today: Proceedings</i> , 2021, 42, 165-171.	0.9	13
54	Coke-resistant Y2O3-promoted cobalt supported on mesoporous alumina for enhanced hydrogen production. <i>Journal of the Energy Institute</i> , 2021, 94, 272-284.	2.7	13

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55	n-Hexane hydroisomerization over Zr-modified bicontinuous lamellar silica mordenite supported Pt as highly selective catalyst: Molecular hydrogen generated protonic acid sites and optimization. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 4019-4035.	3.8	12
56	Mesoporous alumina: A comprehensive review on synthesis strategies, structure, and applications as support for enhanced H ₂ generation via CO ₂ -CH ₄ reforming. <i>International Journal of Hydrogen Energy</i> , 2022, 47, 41507-41526.	3.8	12
57	Greenhouse gas mitigation and hydrogen generation via enhanced ethylene glycol dry reforming on La-promoted Co/Al ₂ O ₃ catalyst. <i>Chemical Engineering Research and Design</i> , 2021, 150, 356-364.	2.7	11
58	Effect of iridium loading on HZSM-5 for isomerization of n-heptane. <i>Journal of Natural Gas Chemistry</i> , 2011, 20, 477-482.	1.8	9
59	Synthesis of Ni/SBA-15 for CO ₂ reforming of CH ₄ : Utilization of palm oil fuel ash as silica source. <i>Materials Today: Proceedings</i> , 2018, 5, 21594-21603.	0.9	9
60	Structural investigation of phosphonium-based ionic liquid impregnated mesostructured silica nanoparticles and application towards the adsorption of Pb(II). <i>Chemical Engineering Research and Design</i> , 2022, 178, 328-339.	2.7	9
61	Photocatalytic degradation of methylene blue using ZnO supported on wood waste-derived activated carbon (ZnO/AC). <i>Materials Today: Proceedings</i> , 2022, 57, 1315-1321.	0.9	9
62	Optimization of boron dispersion on fibrous-silica-nickel catalyst for enhanced CO ₂ hydrogenation to methane. <i>International Journal of Hydrogen Energy</i> , 2022, 47, 30896-30907.	3.8	9
63	Adsorption of Pb(II) onto KCC-1 from aqueous solution: Isotherm and kinetic study. <i>Materials Today: Proceedings</i> , 2018, 5, 21574-21583.	0.9	8
64	Development of fibrous mesoporous silica for catalytic reaction: A short review. <i>Materials Today: Proceedings</i> , 2021, 42, 33-38.	0.9	8
65	Enriching the methanol generation via CO ₂ photoconversion over the cockscomb-like fibrous silica copper. <i>Fuel</i> , 2022, 328, 125257.	3.4	8
66	Hydrogen Energy Production from Advanced Reforming Processes and Emerging Approaches. <i>Chemical Engineering and Technology</i> , 2020, 43, 600-600.	0.9	7
67	Hydrogen production via CO ₂ CH ₄ reforming over cobalt-supported mesoporous alumina: A kinetic evaluation. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 24742-24753.	3.8	7
68	Synergic role of platinum (Pt) and molybdenum trioxide (MoO ₃) promoted HBEA zeolite towards n-heptane isomerization. <i>Materials Chemistry and Physics</i> , 2021, 263, 124406.	2.0	7
69	Enhanced hydrogen-assisted cracking of 1,3,5-triisopropylbenzene over fibrous silica ZSM-5: Influence of co-surfactant during synthesis. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 24676-24686.	3.8	7
70	Cymbopogon nardus Mediated Synthesis of Ag Nanoparticles for the Photocatalytic Degradation of 2,4-Dichlorophenoxyacetic Acid. <i>Bulletin of Chemical Reaction Engineering and Catalysis</i> , 2019, 14, 173.	0.5	7
71	Ethylene glycol dry reforming for syngas generation on Ce-promoted Co/Al ₂ O ₃ catalysts. <i>Applied Petrochemical Research</i> , 2018, 8, 253-261.	1.3	5
72	Refluxed Synthesis of SBA-15 Using Sodium Silicate Extracted from Oil Palm Ash for Dry Reforming of Methane. <i>Materials Today: Proceedings</i> , 2019, 19, 1363-1372.	0.9	5

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73	Mesoporous Silica Nanoparticles and Waste Derived-Siliceous Materials for Doxorubicin Adsorption and Release. <i>Materials Today: Proceedings</i> , 2019, 19, 1420-1425.	0.9	5
74	Influenced of Ni loading on SBA-15 synthesized from oil Palm ash silica for syngas production. <i>IOP Conference Series: Materials Science and Engineering</i> , 2019, 702, 012024.	0.3	5
75	Intensified photocatalytic degradation of 2, 4-dichlorophenoxyacetic acid using size-controlled silver nanoparticles: Effect of pre-synthesis extraction. <i>Advanced Powder Technology</i> , 2020, 31, 3381-3394.	2.0	5
76	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
77	Methylene Blue Adsorption onto Cockle Shells-Treated Banana Pith: Optimization, Isotherm, Kinetic, and Thermodynamic Studies. <i>Indonesian Journal of Chemistry</i> , 2020, 20, 368.	0.3	5
78	Recent advances in fibrous catalysts for CO ₂ conversion: A short review. <i>Materials Today: Proceedings</i> , 2022, 57, 1027-1035.	0.9	4
79	Catalytic CO Methanation over Mesoporous ZSM5 with Different Metal Promoters. <i>Bulletin of Chemical Reaction Engineering and Catalysis</i> , 2019, 14, 228.	0.5	4
80	Insight into the development of silica-based materials as photocatalysts for CO ₂ photoconversion towards CH ₃ OH: A review and recent progress. <i>Surfaces and Interfaces</i> , 2022, 31, 102049.	1.5	4
81	Syngas Production from CO ₂ Reforming and CO ₂ -steam Reforming of Methane over Ni/Ce-SBA-15 Catalyst. <i>IOP Conference Series: Materials Science and Engineering</i> , 2017, 206, 012017.	0.3	3
82	Enhanced catalytic performance of Ni/SBA-15 towards CO ₂ methanation via P123-assisted method. <i>Materials Today: Proceedings</i> , 2018, 5, 21620-21628.	0.9	3
83	Synthesis, Characterisation, and Performance Evaluation of Promoted Ni-Based Catalysts for Thermocatalytic Decomposition of Methane. <i>ChemistrySelect</i> , 2020, 5, 11471-11482.	0.7	3
84	A short review on bimetallic Co-based catalysts for carbon dioxide reforming of methane. <i>Materials Today: Proceedings</i> , 2021, 42, 94-100.	0.9	3
85	Egg-shell Treated Oil Palm Fronds (EG-OPF) as Low-Cost Adsorbent for Methylene Blue Removal. <i>Bulletin of Chemical Reaction Engineering and Catalysis</i> , 2019, 14, 158.	0.5	3
86	Utilization of Lapindo Volcanic Mud for Enhanced Sono-sorption Removal of Acid Orange 52. <i>Bulletin of Chemical Reaction Engineering and Catalysis</i> , 2019, 14, 189.	0.5	3
87	Hydrogen-Rich Syngas Production via Ethanol Dry Reforming over Rare-Earth Metal-Promoted Co-based Catalysts. , 2018, , 177-204.		2
88	Conversion of carbon dioxide and methane to syngas over Ni/SiO ₂ catalyst prepared from waste palm oil fuel ash. <i>IOP Conference Series: Earth and Environmental Science</i> , 0, 220, 012058.	0.2	2
89	2018 International Conference of Chemical Engineering and Industrial Biotechnology (ICCEIB) Preface. <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 507-509.	1.8	2
90	Syngas Production via CO ₂ Reforming of CH ₄ over Zr-Ni/SBA-15. <i>IOP Conference Series: Materials Science and Engineering</i> , 2020, 736, 042021.	0.3	2

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91	The study of chromium oxide loading on platinum chromium oxide zirconia catalyst for n-dodecane and 1,4-diisopropylbenzene hydrocracking. IOP Conference Series: Materials Science and Engineering, 2020, 736, 042039.	0.3	0
92	Effect of iridium loading on the formation of protonic acid sites over Ir/Pt-HZSM5. Malaysian Journal of Fundamental and Applied Sciences, 2014, 9, .	0.4	0