Abdul Rahman Mohamed

List of Publications by Year in descending order

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415 papers

35,727 citations

93 h-index 172

418 all docs

418 docs citations

418 times ranked

33863 citing authors

g-index

#	Article	IF	CITATIONS
1	Graphitic Carbon Nitride (g-C ₃ N ₄)-Based Photocatalysts for Artificial Photosynthesis and Environmental Remediation: Are We a Step Closer To Achieving Sustainability?. Chemical Reviews, 2016, 116, 7159-7329.	47.7	5,505
2	Homogeneous, heterogeneous and enzymatic catalysis for transesterification of high free fatty acid oil (waste cooking oil) to biodiesel: A review. Biotechnology Advances, 2010, 28, 500-518.	11.7	1,054
3	Surface charge modification via protonation of graphitic carbon nitride (g-C3N4) for electrostatic self-assembly construction of 2D/2D reduced graphene oxide (rGO)/g-C3N4 nanostructures toward enhanced photocatalytic reduction of carbon dioxide to methane. Nano Energy, 2015, 13, 757-770.	16.0	718
4	Photocatalytic fixation of nitrogen to ammonia: state-of-the-art advancements and future prospects. Materials Horizons, 2018, 5, 9-27.	12.2	586
5	Zâ€Scheme Photocatalytic Systems for Carbon Dioxide Reduction: Where Are We Now?. Angewandte Chemie - International Edition, 2020, 59, 22894-22915.	13.8	435
6	Highly reactive {001} facets of TiO2-based composites: synthesis, formation mechanism and characterization. Nanoscale, 2014, 6, 1946.	5.6	412
7	Graphene oxide as a structure-directing agent for the two-dimensional interface engineering of sandwich-like graphene–g-C ₃ N ₄ hybrid nanostructures with enhanced visible-light photoreduction of CO ₂ to methane. Chemical Communications, 2015, 51, 858-861.	4.1	393
8	Roles of titanium dioxide and ion-doped titanium dioxide on photocatalytic degradation of organic pollutants (phenolic compounds and dyes) in aqueous solutions: A review. Journal of Alloys and Compounds, 2011, 509, 1648-1660.	5.5	391
9	Recent progress on innovative and potential technologies for glycerol transformation into fuel additives: A critical review. Renewable and Sustainable Energy Reviews, 2010, 14, 987-1000.	16.4	385
10	High surface area activated carbon from rice husk as a high performance supercapacitor electrode. Electrochimica Acta, 2016, 192, 110-119.	5.2	384
11	Degradation of wastewaters containing organic dyes photocatalysed by zinc oxide: a review. Desalination and Water Treatment, 2012, 41, 131-169.	1.0	359
12	Understanding of Electrochemical Mechanisms for CO ₂ Capture and Conversion into Hydrocarbon Fuels in Transition-Metal Carbides (MXenes). ACS Nano, 2017, 11, 10825-10833.	14.6	359
13	Gasification of lignocellulosic biomass in fluidized beds for renewable energy development: A review. Renewable and Sustainable Energy Reviews, 2010, 14, 2852-2862.	16.4	354
14	Reduced graphene oxide-TiO2 nanocomposite as a promising visible-light-active photocatalyst for the conversion of carbon dioxide. Nanoscale Research Letters, 2013, 8, 465.	5.7	323
15	Synthesis of activated carbon from lignocellulosic biomass and its applications in air pollution control—a review. Journal of Environmental Chemical Engineering, 2013, 1, 658-666.	6.7	310
16	Synthesis and characterization of graphene and carbon nanotubes: A review on the past and recent developments. Journal of Industrial and Engineering Chemistry, 2014, 20, 1171-1185.	5.8	307
17	Facetâ€Dependent Photocatalytic Properties of TiO ₂ â€Based Composites for Energy Conversion and Environmental Remediation. ChemSusChem, 2014, 7, 690-719.	6.8	307
18	Heterojunction engineering of graphitic carbon nitride (g-C ₃ N ₄) via Pt loading with improved daylight-induced photocatalytic reduction of carbon dioxide to methane. Dalton Transactions, 2015, 44, 1249-1257.	3.3	307

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19	Conversion of the greenhouse gas CO2 to the fuel gas CO via the Boudouard reaction: A review. Renewable and Sustainable Energy Reviews, 2015, 41, 615-632.	16.4	295
20	Current status and challenges on microalgae-based carbon capture. International Journal of Greenhouse Gas Control, 2012, 10, 456-469.	4.6	293
21	Mechanisms of graphene growth by chemical vapour deposition on transition metals. Carbon, 2014, 70, 1-21.	10.3	284
22	Heterostructured AgX/g-C3N4 (X = Cl and Br) nanocomposites via a sonication-assisted deposition-precipitation approach: Emerging role of halide ions in the synergistic photocatalytic reduction of carbon dioxide. Applied Catalysis B: Environmental, 2016, 180, 530-543.	20.2	277
23	The synthesis and characterization of high purity mixed microporous/mesoporous activated carbon from rice husk using chemical activation with NaOH and KOH. Microporous and Mesoporous Materials, 2014, 197, 316-323.	4.4	267
24	Review of the synthesis, transfer, characterization and growth mechanisms of single and multilayer graphene. RSC Advances, 2017, 7, 15644-15693.	3.6	263
25	Oxygen vacancy induced Bi ₂ WO ₆ for the realization of photocatalytic CO ₂ reduction over the full solar spectrum: from the UV to the NIR region. Chemical Communications, 2016, 52, 14242-14245.	4.1	248
26	Potential of hydrogen from oil palm biomass as a source of renewable energy worldwide. Energy Policy, 2007, 35, 5692-5701.	8.8	243
27	Self-assembly of nitrogen-doped TiO2 with exposed {001} facets on a graphene scaffold as photo-active hybrid nanostructures for reduction of carbon dioxide to methane. Nano Research, 2014, 7, 1528-1547.	10.4	236
28	Synthesis and Applications of Grapheneâ€Based TiO ₂ Photocatalysts. ChemSusChem, 2012, 5, 1868-1882.	6.8	226
29	Preparation of carbon molecular sieve from lignocellulosic biomass: A review. Renewable and Sustainable Energy Reviews, 2010, 14, 1591-1599.	16.4	221
30	Lithium–Sulfur Battery Cathode Design: Tailoring Metalâ€Based Nanostructures for Robust Polysulfide Adsorption and Catalytic Conversion. Advanced Materials, 2021, 33, e2008654.	21.0	217
31	Bioconversion of synthesis gas to second generation biofuels: A review. Renewable and Sustainable Energy Reviews, 2011, 15, 4255-4273.	16.4	215
32	CO2 gasification reactivity of biomass char: Catalytic influence of alkali, alkaline earth and transition metal salts. Bioresource Technology, 2013, 144, 288-295.	9.6	213
33	Effective steering of charge flow through synergistic inducing oxygen vacancy defects and p-n heterojunctions in 2D/2D surface-engineered Bi2WO6/BiOI cascade: Towards superior photocatalytic CO2 reduction activity. Chemical Engineering Journal, 2019, 372, 1183-1193.	12.7	210
34	Malaysian palm oil: Surviving the food versus fuel dispute for a sustainable future. Renewable and Sustainable Energy Reviews, 2009, 13, 1456-1464.	16.4	208
35	Sub-5 nm Ultra-Fine FeP Nanodots as Efficient Co-Catalysts Modified Porous g-C ₃ N ₄ for Precious-Metal-Free Photocatalytic Hydrogen Evolution under Visible Light. ACS Applied Materials & Interfaces, 2019, 11, 5651-5660.	8.0	208
36	Ethanol and acetate production from synthesis gas via fermentation processes using anaerobic bacterium, Clostridium ljungdahlii. Biochemical Engineering Journal, 2005, 27, 110-119.	3.6	199

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37	Noble metal modified reduced graphene oxide/TiO2 ternary nanostructures for efficient visible-light-driven photoreduction of carbon dioxide into methane. Applied Catalysis B: Environmental, 2015, 166-167, 251-259.	20.2	196
38	Ni ₁₂ P ₅ nanoparticles embedded into porous g-C ₃ N ₄ nanosheets as a noble-metal-free hetero-structure photocatalyst for efficient H ₂ production under visible light. Journal of Materials Chemistry A, 2017, 5, 16171-16178.	10.3	183
39	A review on photocatalytic application of g-C3N4/semiconductor (CNS) nanocomposites towards the erasure of dyeing wastewater. Materials Science in Semiconductor Processing, 2016, 47, 62-84.	4.0	178
40	Energy for sustainable development in Malaysia: Energy policy and alternative energy. Energy Policy, 2006, 34, 2388-2397.	8.8	177
41	Recent development in catalytic technologies for methanol synthesis from renewable sources: A critical review. Renewable and Sustainable Energy Reviews, 2015, 44, 508-518.	16.4	175
42	Global warming mitigation and renewable energy policy development from the Kyoto Protocol to the Copenhagen Accordâ€"A comment. Renewable and Sustainable Energy Reviews, 2012, 16, 5280-5284.	16.4	174
43	Performance of photocatalytic reactors using immobilized TiO2 film for the degradation of phenol and methylene blue dye present in water stream. Chemosphere, 2004, 57, 547-554.	8.2	168
44	Sulfated tin oxide as solid superacid catalyst for transesterification of waste cooking oil: An optimization study. Applied Catalysis B: Environmental, 2009, 93, 134-139.	20.2	168
45	Life cycle evaluation of microalgae biofuels production: Effect of cultivation system on energy, carbon emission and cost balance analysis. Science of the Total Environment, 2019, 688, 112-128.	8.0	162
46	A review on the formation of titania nanotube photocatalysts by hydrothermal treatment. Journal of Environmental Management, 2011, 92, 1669-1680.	7.8	161
47	Unravelling the electrochemical mechanisms for nitrogen fixation on single transition metal atoms embedded in defective graphitic carbon nitride. Journal of Materials Chemistry A, 2018, 6, 21941-21948.	10.3	161
48	High photoluminescence quantum yield of 18.7% by using nitrogen-doped Ti ₃ C ₂ MXene quantum dots. Journal of Materials Chemistry C, 2018, 6, 6360-6369.	5 . 5	159
49	Direct growth of carbon nanotubes on Ni/TiO2 as next generation catalysts for photoreduction of CO2 to methane by water under visible light irradiation. RSC Advances, 2013, 3, 4505.	3 . 6	157
50	Deoxygenation of fatty acid to produce diesel-like hydrocarbons: A review of process conditions, reaction kinetics and mechanism. Renewable and Sustainable Energy Reviews, 2015, 42, 1223-1233.	16.4	154
51	A newly emerging visible light-responsive BiFeO 3 perovskite for photocatalytic applications: A mini review. Materials Research Bulletin, 2017, 90, 15-30.	5. 2	151
52	Conventional processes and membrane technology for carbon dioxide removal from natural gas: A review. Journal of Natural Gas Chemistry, 2012, 21, 282-298.	1.8	150
53	Sunlight photocatalytic activity enhancement and mechanism of novel europium-doped ZnO hierarchical micro/nanospheres for degradation of phenol. Applied Catalysis B: Environmental, 2014, 148-149, 258-268.	20.2	150
54	Visible-light-active oxygen-rich TiO2 decorated 2D graphene oxide with enhanced photocatalytic activity toward carbon dioxide reduction. Applied Catalysis B: Environmental, 2015, 179, 160-170.	20,2	149

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55	Liquid hydrocarbon fuels from palm oil by catalytic cracking over aluminosilicate mesoporous catalysts with various Si/Al ratios. Microporous and Mesoporous Materials, 2003, 64, 95-107.	4.4	144
56	Preparation and photocatalytic properties of visible light-driven samarium-doped ZnO nanorods. Ceramics International, 2013, 39, 5833-5843.	4.8	144
57	Removal of Rhodamine B from Aqueous Solution Using Palm Shell-Based Activated Carbon: Adsorption and Kinetic Studies. Journal of Chemical & Engineering Data, 2010, 55, 5777-5785.	1.9	143
58	Engineering nanoscale p–n junction <i>via</i> the synergetic dual-doping of p-type boron-doped graphene hybridized with n-type oxygen-doped carbon nitride for enhanced photocatalytic hydrogen evolution. Journal of Materials Chemistry A, 2018, 6, 3181-3194.	10.3	143
59	Photocatalytic reduction of CO 2 with H 2 O over graphene oxide-supported oxygen-rich TiO 2 hybrid photocatalyst under visible light irradiation: Process and kinetic studies. Chemical Engineering Journal, 2017, 308, 248-255.	12.7	141
60	Hierarchical ZnIn ₂ S ₄ /MoSe ₂ Nanoarchitectures for Efficient Nobleâ€Metalâ€Free Photocatalytic Hydrogen Evolution under Visible Light. ChemSusChem, 2017, 10, 4624-4631.	6.8	140
61	A glycerol-free process to produce biodiesel by supercritical methyl acetate technology: An optimization study via Response Surface Methodology. Bioresource Technology, 2010, 101, 965-969.	9.6	139
62	Pointâ€Defect Engineering: Leveraging Imperfections in Graphitic Carbon Nitride (gâ€C ₃ N ₄) Photocatalysts toward Artificial Photosynthesis. Small, 2021, 17, e2006851.	10.0	139
63	Algae biorefinery: Review on a broad spectrum of downstream processes and products. Bioresource Technology, 2019, 292, 121964.	9.6	138
64	Heterogeneous catalysts for production of chemicals using carbon dioxide as raw material: A review. Renewable and Sustainable Energy Reviews, 2012, 16, 4951-4964.	16.4	137
65	Post-combustion carbon dioxide capture: Evolution towards utilization of nanomaterials. Renewable and Sustainable Energy Reviews, 2012, 16, 2599-2609.	16.4	137
66	All-solid-state direct Z-scheme NiTiO ₃ /Cd _{0.5} Zn _{0.5} S heterostructures for photocatalytic hydrogen evolution with visible light. Journal of Materials Chemistry A, 2021, 9, 10270-10276.	10.3	136
67	Harnessing Vis–NIR broad spectrum for photocatalytic CO2 reduction over carbon quantum dots-decorated ultrathin Bi2WO6 nanosheets. Nano Research, 2017, 10, 1720-1731.	10.4	135
68	Synthesis of aligned carbon nanotubes. Carbon, 2011, 49, 4613-4635.	10.3	133
69	Sub-2 nm Pt-decorated Zn0.5Cd0.5S nanocrystals with twin-induced homojunctions for efficient visible-light-driven photocatalytic H2 evolution. Applied Catalysis B: Environmental, 2018, 224, 360-367.	20.2	133
70	Single atom-supported MXene: how single-atomic-site catalysts tune the high activity and selectivity of electrochemical nitrogen fixation. Journal of Materials Chemistry A, 2019, 7, 27620-27631.	10.3	133
71	Role of energy policy in renewable energy accomplishment: The case of second-generation bioethanol. Energy Policy, 2008, 36, 3360-3365.	8.8	132
72	Heteroatom Nitrogen- and Boron-Doping as a Facile Strategy to Improve Photocatalytic Activity of Standalone Reduced Graphene Oxide in Hydrogen Evolution. ACS Applied Materials & Samp; Interfaces, 2017, 9, 4558-4569.	8.0	128

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73	Energy and environmental applications of carbon nanotubes. Environmental Chemistry Letters, 2012, 10, 265-273.	16.2	125
74	Rational Design of Carbonâ€Based 2D Nanostructures for Enhanced Photocatalytic CO ₂ Reduction: A Dimensionality Perspective. Chemistry - A European Journal, 2020, 26, 9710-9748.	3. 3	125
75	Pretreatment of lignocellulosic palm biomass using a solvent-ionic liquid [BMIM]Cl for glucose recovery: An optimisation study using response surface methodology. Carbohydrate Polymers, 2011, 83, 1862-1868.	10.2	124
76	Effects of free fatty acids, water content and co-solvent on biodiesel production by supercritical methanol reaction. Journal of Supercritical Fluids, 2010, 53, 88-91.	3.2	122
77	Current status of ceramic-based membranes for oxygen separation from air. Advances in Colloid and Interface Science, 2010, 160, 88-100.	14.7	122
78	Sub/supercritical liquefaction of oil palm fruit press fiber for the production of bio-oil: Effect of solvents. Bioresource Technology, 2010, 101, 7641-7647.	9.6	120
79	Oxygenâ€Deficient BiOBr as a Highly Stable Photocatalyst for Efficient CO ₂ Reduction into Renewable Carbonâ€Neutral Fuels. ChemCatChem, 2016, 8, 3074-3081.	3.7	120
80	Synthesis of composite material MCM-41/Beta and its catalytic performance in waste used palm oil cracking. Applied Catalysis A: General, 2004, 274, 15-23.	4. 3	116
81	Algae biopolymer towards sustainable circular economy. Bioresource Technology, 2021, 325, 124702.	9.6	112
82	Oxidative coupling of methane (OCM) in a catalytic membrane reactor and comparison of its performance with other catalytic reactors. Chemical Engineering Journal, 2009, 148, 525-532.	12.7	111
83	Sustainable ethanol fermentation from synthesis gas by <i>Clostridium ljungdahlii</i> in a continuous stirred tank bioreactor. Journal of Chemical Technology and Biotechnology, 2012, 87, 837-843.	3.2	110
84	Degrading Endocrine Disrupting Chemicals from Wastewater by Photocatalysis: A Review. International Journal of Photoenergy, 2012, 2012, 1-23.	2.5	109
85	Preparation of rare earth-doped ZnO hierarchical micro/nanospheres and their enhanced photocatalytic activity under visible light irradiation. Ceramics International, 2014, 40, 5431-5440.	4.8	109
86	Enhanced sunlight photocatalytic performance over Nb2O5/ZnO nanorod composites and the mechanism study. Applied Catalysis A: General, 2014, 471, 126-135.	4.3	108
87	Study of adsorbent prepared from oil palm ash (OPA) for flue gas desulfurization. Separation and Purification Technology, 2005, 45, 50-60.	7.9	106
88	A comparative study on the energy policies in Japan and Malaysia in fulfilling their nations' obligations towards the Kyoto Protocol. Energy Policy, 2009, 37, 4771-4778.	8.8	105
89	Photocatalytic performance of novel samarium-doped spherical-like ZnO hierarchical nanostructures under visible light irradiation for 2,4-dichlorophenol degradation. Journal of Colloid and Interface Science, 2013, 401, 40-49.	9.4	104
90	Catalytic conversion of palm oil-based fatty acid mixture to liquid fuel. Biomass and Bioenergy, 2004, 27, 477-484.	5.7	100

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91	Life cycle assessment for the production of biodiesel: A case study in Malaysia for palm oil versus jatropha oil. Biofuels, Bioproducts and Biorefining, 2009, 3, 601-612.	3.7	97
92	Enhanced visible light responsive MWCNT/TiO2 core–shell nanocomposites as the potential photocatalyst for reduction of CO2 into methane. Solar Energy Materials and Solar Cells, 2014, 122, 183-189.	6.2	97
93	Catalytic conversion of palm oil over mesoporous aluminosilicate MCM-41 for the production of liquid hydrocarbon fuels. Fuel Processing Technology, 2003, 84, 105-120.	7.2	96
94	Sunlight responsive WO 3 /ZnO nanorods for photocatalytic degradation and mineralization of chlorinated phenoxyacetic acid herbicides in water. Journal of Colloid and Interface Science, 2015, 450, 34-44.	9.4	94
95	2D/2D Heterostructured Photocatalysts: An Emerging Platform for Artificial Photosynthesis. Solar Rrl, 2020, 4, 2000132.	5.8	94
96	An Overview on the Photocatalytic Activity of Nano-Doped- <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mtext>TiO</mml:mtext><mml:mn mathvariant="bold">2</mml:mn></mml:msub></mml:math> in the Degradation of Organic Pollutants. ISRN Materials Science, 2011, 2011, 1-18.	1.0	94
97	Biohydrogen production in a continuous stirred tank bioreactor from synthesis gas by anaerobic photosynthetic bacterium: Rhodopirillum rubrum. Bioresource Technology, 2008, 99, 2612-2619.	9.6	93
98	Tailorâ€Engineered 2D Cocatalysts: Harnessing Electron–Hole Redox Center of 2D gâ€C ₃ N ₄ Photocatalysts toward Solarâ€toâ€Chemical Conversion and Environmental Purification. Advanced Functional Materials, 2022, 32, .	14.9	93
99	Z-scheme heterojunction nanocomposite fabricated by decorating magnetic MnFe2O4 nanoparticles on BiOBr nanosheets for enhanced visible light photocatalytic degradation of 2,4-dichlorophenoxyacetic acid and Rhodamine B. Separation and Purification Technology, 2020, 250, 117186.	7.9	92
100	Multi-walled carbon nanotubes modified with (3-aminopropyl)triethoxysilane for effective carbon dioxide adsorption. International Journal of Greenhouse Gas Control, 2013, 14, 65-73.	4.6	91
101	Characteristics of supported nano-TiO2/ZSM-5/silica gel (SNTZS): Photocatalytic degradation of phenol. Journal of Hazardous Materials, 2010, 174, 299-306.	12.4	90
102	An overview on global warming in Southeast Asia: CO 2 emission status, efforts done, and barriers. Renewable and Sustainable Energy Reviews, 2013, 28, 71-81.	16.4	90
103	Band gap engineered, oxygen-rich TiO2 for visible light induced photocatalytic reduction of CO2. Chemical Communications, 2014, 50, 6923.	4.1	90
104	An optimized study of methanol and ethanol in supercritical alcohol technology for biodiesel production. Journal of Supercritical Fluids, 2010, 53, 82-87.	3.2	89
105	Production of FAME by palm oil transesterification via supercritical methanol technology. Biomass and Bioenergy, 2009, 33, 1096-1099.	5.7	88
106	Insights into the Electrocatalytic Hydrogen Evolution Reaction Mechanism on Twoâ€Dimensional Transitionâ€Metal Carbonitrides (MXene). Chemistry - A European Journal, 2018, 24, 18479-18486.	3.3	87
107	Simultaneous generation of oxygen vacancies on ultrathin BiOBr nanosheets during visible-light-driven CO2 photoreduction evoked superior activity and long-term stability. Catalysis Today, 2018, 314, 20-27.	4.4	86
108	CoS2 engulfed ultra-thin S-doped g-C3N4 and its enhanced electrochemical performance in hybrid asymmetric supercapacitor. Journal of Colloid and Interface Science, 2021, 584, 204-215.	9.4	84

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109	Green synthesis of Fe-ZnO nanoparticles with improved sunlight photocatalytic performance for polyethylene film deterioration and bacterial inactivation. Materials Science in Semiconductor Processing, 2021, 123, 105574.	4.0	84
110	Midgap-state-mediated two-step photoexcitation in nitrogen defect-modified g-C ₃ N ₄ atomic layers for superior photocatalytic CO ₂ reduction. Catalysis Science and Technology, 2019, 9, 2335-2343.	4.1	83
111	Microalgae Cultivation in Palm Oil Mill Effluent (POME) Treatment and Biofuel Production. Sustainability, 2021, 13, 3247.	3.2	83
112	Co-gasification of tire and biomass for enhancement of tire-char reactivity in CO2 gasification process. Bioresource Technology, 2013, 138, 124-130.	9.6	82
113	Magnetic NiFe2O4 nanoparticles decorated on N-doped BiOBr nanosheets for expeditious visible light photocatalytic phenol degradation and hexavalent chromium reduction via a Z-scheme heterojunction mechanism. Applied Surface Science, 2021, 559, 149966.	6.1	82
114	Catalytic Conversion of Fatty Acids Mixture to Liquid Fuel and Chemicals over Composite Microporous/Mesoporous Catalysts. Energy & Energy & 19, 736-743.	5.1	81
115	Investigation on visible-light photocatalytic degradation of 2,4-dichlorophenoxyacetic acid in the presence of MoO3/ZnO nanorod composites. Journal of Molecular Catalysis A, 2013, 370, 123-131.	4.8	80
116	Enhanced Daylight-Induced Photocatalytic Activity of Solvent Exfoliated Graphene (SEG)/ZnO Hybrid Nanocomposites toward Degradation of Reactive Black 5. Industrial & Engineering Chemistry Research, 2014, 53, 17333-17344.	3.7	79
117	Microwave-enhanced CO2 gasification of oil palm shell char. Bioresource Technology, 2014, 158, 193-200.	9.6	79
118	A review on the evolution of ethyl tert-butyl ether (ETBE) and its future prospects. Renewable and Sustainable Energy Reviews, 2013, 22, 604-620.	16.4	78
119	Magnetically recoverable Pd-loaded BiFeO3 microcomposite with enhanced visible light photocatalytic performance for pollutant, bacterial and fungal elimination. Separation and Purification Technology, 2020, 236, 116195.	7.9	78
120	Parameter effect on photocatalytic degradation of phenol using TiO2-P25/activated carbon (AC). Korean Journal of Chemical Engineering, 2010, 27, 1109-1116.	2.7	77
121	Preparation of cerium-doped ZnO hierarchical micro/nanospheres with enhanced photocatalytic performance for phenol degradation under visible light. Journal of Molecular Catalysis A, 2015, 409, 1-10.	4.8	77
122	Pbâ€Based Halide Perovskites: Recent Advances in Photo(electro)catalytic Applications and Looking Beyond. Advanced Functional Materials, 2020, 30, 1909667.	14.9	77
123	Transition metal oxide loaded ZnO nanorods: Preparation, characterization and their UV–vis photocatalytic activities. Separation and Purification Technology, 2014, 132, 378-387.	7.9	76
124	Kinetic Studies on Catalytic Decomposition of Methane to Hydrogen and Carbon over Ni/TiO2Catalyst. Industrial & Decomposition of Methane to Hydrogen and Carbon over Ni/TiO2Catalyst.	3.7	75
125	Visible light responsive TiO 2 nanoparticles modified using Ce and La for photocatalytic reduction of CO 2 : Effect of Ce dopant content. Applied Catalysis A: General, 2017, 537, 111-120.	4.3	75
126	Overview on catalytic deoxygenation for biofuel synthesis using metal oxide supported catalysts. Renewable and Sustainable Energy Reviews, 2019, 112, 834-852.	16.4	75

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127	Production of biofuel from waste cooking palm oil using nanocrystalline zeolite as catalyst: Process optimization studies. Bioresource Technology, 2011, 102, 10686-10694.	9.6	74
128	An overview on conversion technologies to produce value added products from CH4 and CO2 as major biogas constituents. Renewable and Sustainable Energy Reviews, 2018, 98, 56-63.	16.4	74
129	Catalytic conversion of palm oil to fuels and chemicals. Canadian Journal of Chemical Engineering, 1999, 77, 156-162.	1.7	73
130	Subcritical water liquefaction of oil palm fruit press fiber for the production of bio-oil: Effect of catalysts. Bioresource Technology, 2010, 101, 745-751.	9.6	73
131	Synthesis of monoglyceride through glycerol esterification with lauric acid over propyl sulfonic acid post-synthesis functionalized SBA-15 mesoporous catalyst. Chemical Engineering Journal, 2011, 174, 668-676.	12.7	73
132	One-pot synthesis of Ag-MWCNT@TiO2 core–shell nanocomposites for photocatalytic reduction of CO2 with water under visible light irradiation. Chemical Engineering Journal, 2015, 278, 272-278.	12.7	72
133	Surface decorated coral-like magnetic BiFeO3 with Au nanoparticles for effective sunlight photodegradation of 2,4-D and E. coli inactivation. Journal of Molecular Liquids, 2021, 326, 115372.	4.9	71
134	Recent development and economic analysis of glycerol-free processes via supercritical fluid transesterification for biodiesel production. Renewable and Sustainable Energy Reviews, 2014, 31, 61-70.	16.4	69
135	Co ₂ P Nanorods as an Efficient Cocatalyst Decorated Porous g ₃ N ₄ Nanosheets for Photocatalytic Hydrogen Production under Visible Light Irradiation. Particle and Particle Systems Characterization, 2018, 35, 1700251.	2.3	69
136	Full color carbon dots through surface engineering for constructing white light-emitting diodes. Journal of Materials Chemistry C, 2019, 7, 2212-2218.	5.5	69
137	Insights on the impact of doping levels in oxygen-doped gC3N4 and its effects on photocatalytic activity. Applied Surface Science, 2020, 504, 144427.	6.1	69
138	Sustainable utilization of oil palm wastes for bioactive phytochemicals for the benefit of the oil palm and nutraceutical industries. Phytochemistry Reviews, 2013, 12, 173-190.	6.5	68
139	Biochars as Potential Adsorbers of CH4, CO2 and H2S. Sustainability, 2017, 9, 121.	3.2	68
140	Hydrothermal stability and catalytic activity of mesoporous aluminum-containing SBA-15. Catalysis Communications, 2004, 5, 441-445.	3.3	67
141	Catalytic co-hydrothermal carbonization of food waste digestate and yard waste for energy application and nutrient recovery. Bioresource Technology, 2022, 344, 126395.	9.6	67
142	Visible-light-activated oxygen-rich TiO2 as next generation photocatalyst: Importance of annealing temperature on the photoactivity toward reduction of carbon dioxide. Chemical Engineering Journal, 2016, 283, 1254-1263.	12.7	66
143	A self-healing hydrogel with pressure sensitive photoluminescence for remote force measurement and healing assessment. Materials Horizons, 2019, 6, 703-710.	12.2	66
144	An overview: synthesis of thin films/membranes of metal organic frameworks and its gas separation performances. RSC Advances, 2014, 4, 54322-54334.	3.6	65

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145	Anaerobic digestate as a low-cost nutrient source for sustainable microalgae cultivation: A way forward through waste valorization approach. Science of the Total Environment, 2022, 803, 150070.	8.0	65
146	Effect of organic substrate on hydrogen production from synthesis gas using Rhodospirillum rubrum, in batch culture. Biochemical Engineering Journal, 2004, 21, 123-130.	3.6	64
147	Preparation of carbon nanotubes over cobalt-containing catalysts via catalytic decomposition of methane. Chemical Physics Letters, 2006, 426, 345-350.	2.6	64
148	Refractory dopant-incorporated CaO from waste eggshell as sustainable sorbent for CO2 capture: Experimental and kinetic studies. Chemical Engineering Journal, 2014, 243, 455-464.	12.7	64
149	Hydrochar production from high-ash low-lipid microalgal biomass via hydrothermal carbonization: Effects of operational parameters and products characterization. Environmental Research, 2020, 188, 109828.	7.5	64
150	Abatement of hazardous materials and biomass waste via pyrolysis and co-pyrolysis for environmental sustainability and circular economy. Environmental Pollution, 2021, 278, 116836.	7. 5	64
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