Abdul Rahman Bin Mohamed

List of Publications by Year
in descending order

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418	26,643	4584	10129
papers	citations	88 h-index	145 g-index

423	423	423	30690
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Development of microwave-assisted nitrogen-modified activated carbon for efficient biogas desulfurization: a practical approach. Environmental Science and Pollution Research, 2023, 30, 17129-17148.	2.7	1
2	Alkali-modified biochar as a sustainable adsorbent for the low-temperature uptake of nitric oxide. International Journal of Environmental Science and Technology, 2022, 19, 7127-7140.	1.8	18
3	Ameliorating Cu2+ reduction in microbial fuel cell with Z-scheme BiFeO3 decorated on flower-like ZnO composite photocathode. Chemosphere, 2022, 287, 132384.	4.2	45
4	MXenes and their composites for potential antimicrobial applications. , 2022, , 525-551.		3
5	Comparative study of g-C3N4/Ag-based metals (V, Mo, and Fe) composites for degradation of Reactive Black 5 (RB5) under simulated solar light irradiation. Journal of Environmental Chemical Engineering, 2022, 10, 107308.	3.3	7
6	Ameliorated photodegradation performance of polyethylene and polystyrene films incorporated with ZnO-PVP catalyst. Journal of Environmental Chemical Engineering, 2022, 10, 107594.	3.3	32
7	Uncovering the multifaceted roles of nitrogen defects in graphitic carbon nitride for selective photocatalytic carbon dioxide reduction: a density functional theory study. Physical Chemistry Chemical Physics, 2022, 24, 11124-11130.	1.3	4
8	0-D/3-D heterojunction composite constructed by decorating transition metal oxide nanoparticle on peony-like ZnO hierarchical microstructure for improved photodegradation of palm oil mill effluent. Optik, 2022, 260, 169098.	1.4	17
9	Electrochemical exfoliation of graphene using dual graphite electrodes by switching voltage and green molten salt electrolyte. Ceramics International, 2022, 48, 22493-22505.	2.3	6
10	Enhanced synchronous photocatalytic 4-chlorophenol degradation and Cr(VI) reduction by novel magnetic separable visible-light-driven Z-scheme CoFe2O4/P-doped BiOBr heterojunction nanocomposites. Environmental Research, 2022, 212, 113394.	3.7	59
11	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.	1.9	84
12	Fabricating 2D/2D/2D heterojunction of graphene oxide mediated g-C3N4 and ZnV2O6 composite with kinetic modelling for photocatalytic CO2 reduction to fuels under UV and visible light. Journal of Materials Science, 2021, 56, 9985-10007.	1.7	18
13	An investigation on the relationship between physicochemical characteristics of alumina-supported cobalt catalyst and its performance in dry reforming of methane. Environmental Science and Pollution Research, 2021, 28, 29157-29176.	2.7	8
14	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.	2.3	71
15	Insight into the influence of noble metal decorated on BiFeO3 for 2,4-dichlorophenol and real herbicide wastewater treatment under visible light. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2021, 614, 126138.	2.3	41
16	Pointâ€Ðefect Engineering: Leveraging Imperfections in Graphitic Carbon Nitride (gâ€C₃N₄) Photocatalysts toward Artificial Photosynthesis. Small, 2021, 17, e2006851.	5.2	139
17	Low temperature CO2 capture on biomass-derived KOH-activated hydrochar established through hydrothermal carbonization with water-soaking pre-treatment. Journal of Environmental Chemical Engineering, 2021, 9, 105074.	3.3	51
18	Z-scheme MoO3 anchored-hexagonal rod like ZnO/Zn photoanode for effective wastewater treatment, copper reduction accompanied with electricity production in sunlight-powered photocatalytic fuel cell. Separation and Purification Technology, 2021, 265, 118495.	3.9	69

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19	Punica granatum mediated green synthesis of cauliflower-like ZnO and decorated with bovine bone-derived hydroxyapatite for expeditious visible light photocatalytic antibacterial, antibiofilm and antioxidant activities. Journal of Environmental Chemical Engineering, 2021, 9, 105736.	3.3	37
20	Thermal Stability and Dynamic Mechanical Analysis of Benzoylation Treated Sugar Palm/Kenaf Fiber Reinforced Polypropylene Hybrid Composites. Polymers, 2021, 13, 2961.	2.0	19
21	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.	3.1	82
22	Physical and Chemical Activation of Graphene-Derived Porous Nanomaterials for Post-Combustion Carbon Dioxide Capture. Nanomaterials, 2021, 11, 2419.	1.9	9
23	Dry Reforming of Methane on Cobalt Catalysts: DFT-Based Insights into Carbon Deposition Versus Removal. Journal of Physical Chemistry C, 2021, 125, 21902-21913.	1.5	14
24	Effect of graphite exfoliation routes on the properties of exfoliated graphene and its photocatalytic applications. Journal of Environmental Chemical Engineering, 2021, 9, 106506.	3.3	23
25	Adsorption of CO₂ on Terrace, Step, and Defect Sites on Pt Surfaces: A Combined TPD, XPS, and DFT Study. Journal of Physical Chemistry C, 2021, 125, 23657-23668.	1.5	12
26	The effect of process parameters on catalytic direct CO2 hydrogenation to methanol. IOP Conference Series: Materials Science and Engineering, 2021, 1195, 012034.	0.3	1
27	Progress in adsorption capacity of nanomaterials for carbon dioxide capture: A comparative study. Journal of Cleaner Production, 2021, 328, 129553.	4.6	37
28	Recent advances in developing engineered biochar for CO2 capture: An insight into the biochar modification approaches. Journal of Environmental Chemical Engineering, 2021, 9, 106869.	3.3	62
29	Pointâ€Ðefect Engineering: Leveraging Imperfections in Graphitic Carbon Nitride (gâ€C₃N₄) Photocatalysts toward Artificial Photosynthesis (Small 48/2021). Small, 2021, 17, .	5.2	7
30	Magnetic-Based Photocatalyst for Antibacterial Application and Catalytic Performance. Environmental Chemistry for A Sustainable World, 2020, , 195-215.	0.3	2
31	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.	3.9	78
32	Insights on the impact of doping levels in oxygen-doped gC3N4 and its effects on photocatalytic activity. Applied Surface Science, 2020, 504, 144427.	3.1	69
33	Low temperature adsorption of nitric oxide on cerium impregnated biomass-derived biochar. Korean Journal of Chemical Engineering, 2020, 37, 130-140.	1.2	21
34	Explicating charge transfer dynamics in anodic TiO2/ZnO/Zn photocatalytic fuel cell for ameliorated palm oil mill effluent treatment and synchronized energy generation. Journal of Photochemistry and Photobiology A: Chemistry, 2020, 391, 112353.	2.0	35
35	In situ acid fabrication of g-C3N4 photocatalyst with improved adsorptive and photocatalytic properties. Materials Letters, 2020, 261, 126990.	1.3	13
36	Bi2O3 particles decorated on porous g-C3N4 sheets: Enhanced photocatalytic activity through a direct Z-scheme mechanism for degradation of Reactive Black 5 under UVâ€“vis light. Journal of Photochemistry and Photobiology A: Chemistry, 2020, 389, 112289.	2.0	58

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37	Bioinspired green synthesis of ZnO structures with enhanced visible light photocatalytic activity. Journal of Materials Science: Materials in Electronics, 2020, 31, 1144-1158.	1.1	22
38	Investigation of synergy and inhibition effects during co-gasification of tire char and biomass in CO2 environment. Biomass Conversion and Biorefinery, 2020, , 1.	2.9	3
39	Development of highly selective In2O3/ZrO2 catalyst for hydrogenation of CO2 to methanol: An insight into the catalyst preparation method. Korean Journal of Chemical Engineering, 2020, 37, 1680-1689.	1.2	7
40	Photocatalytic carbon dioxide reforming of methane as an alternative approach for solar fuel production-a review. Renewable and Sustainable Energy Reviews, 2020, 134, 110363.	8.2	35
41	CO2 reforming of methane to syngas over multi-walled carbon nanotube supported Ni-Ce nanoparticles: effect of different synthesis methods. Environmental Science and Pollution Research, 2020, 27, 43011-43027.	2.7	2
42	Hydrochar production from high-ash low-lipid microalgal biomass via hydrothermal carbonization: Effects of operational parameters and products characterization. Environmental Research, 2020, 188, 109828.	3.7	64
43	From 2D Graphene Nanosheets to 3D Grapheneâ€based Macrostructures. Chemistry - an Asian Journal, 2020, 15, 2902-2924.	1.7	28
44	Frontispiece: Rational Design of Carbonâ€Based 2D Nanostructures for Enhanced Photocatalytic CO₂ Reduction: A Dimensionality Perspective. Chemistry - A European Journal, 2020, 26, .	1.7	0
45	Topotactic Transformation of Bismuth Oxybromide into Bismuth Tungstate: Bandgap Modulation of Single-Crystalline {001}-Faceted Nanosheets for Enhanced Photocatalytic CO₂ Reduction. ACS Applied Materials & Interfaces, 2020, 12, 26991-27000.	4.0	53
46	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.	3.9	92
47	Rational Design of Carbonâ€Based 2D Nanostructures for Enhanced Photocatalytic CO₂Reduction: A Dimensionality Perspective. Chemistry - A European Journal, 2020, 26, 9710-9748.	1.7	125
48	Enhancement of CO2 adsorption on biochar sorbent modified by metal incorporation. Environmental Science and Pollution Research, 2020, 27, 11809-11829.	2.7	45
49	Fabrication of novel visible light-driven Nd-doped BiOBr nanosheets with enhanced photocatalytic performance for palm oil mill effluent degradation and Escherichia coli inactivation. Journal of Physics and Chemistry of Solids, 2020, 140, 109382.	1.9	25
50	Graphene nanoplatelets with low defect density as a synergetic adsorbent and electron sink for ZnO in the photocatalytic degradation of Methylene Blue under UVâ€“vis irradiation. Materials Research Bulletin, 2020, 128, 110876.	2.7	51
51	Recent progress in two-dimensional nanomaterials for photocatalytic carbon dioxide transformation into solar fuels. Materials Today Sustainability, 2020, 9, 100037.	1.9	29
52	Zâ€Schemaâ€Photokatalysesysteme fÃ¼r die Kohlendioxidreduktion: Wo stehen wir heute?. Angewandte Chemie, 2020, 132, 23092-23115.	1.6	30
53	Zâ€Scheme Photocatalytic Systems for Carbon Dioxide Reduction: Where Are We Now?. Angewandte Chemie - International Edition, 2020, 59, 22894-22915.	7.2	435
54	Application of Liquid Chromatography-Mass Spectrometry for the Analysis of Endocrine Disrupting Chemical Transformation Products in Advanced Oxidation Processes and Their Reaction Mechanisms. , 2019, , 1633-1657.		0

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55	Improved CO₂ Sorption Performance of Calcium Oxide (CaO) Sorbent with Nickel Oxide Additive. IOP Conference Series: Earth and Environmental Science, 2019, 268, 012026.	0.2	3
56	Structural analyses and deposition of purified carbon nanotubes using electrophoretic deposition. Materials Research Express, 2019, 6, 095054.	0.8	4
57	Exploring transition metal (Cr, Mn, Fe, Co, Ni) promoted copper-catalyst for carbon dioxide hydrogenation to methanol. AIP Conference Proceedings, 2019, , .	0.3	8
58	Development of Co Supported on Coâ^'Al Spinel Catalysts from Exsolution of Amorphous Coâ^'Al Oxides for Carbon Dioxide Reforming of Methane. ChemCatChem, 2019, 11, 5593-5605.	1.8	28
59	Advancement of Photocatalytic Water Treatment Technology for Environmental Control. , 2019, , 1719-1746.		0
60	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.	6.6	210
61	Investigation of synergism and kinetic analysis during CO2 co-gasification of scrap tire char and agro-wastes. Renewable Energy, 2019, 142, 147-157.	4.3	33
62	Facile synthesis of novel ZnO/Nd-doped BiOBr composites with boosted visible light photocatalytic degradation of phenol. Materials Letters, 2019, 248, 20-23.	1.3	29
63	Midgap-state-mediated two-step photoexcitation in nitrogen defect-modified g-C₃N₄ atomic layers for superior photocatalytic CO₂ reduction. Catalysis Science and Technology, 2019, 9, 2335-2343.	2.1	83
64	Catalytic CO2 gasification of rubber seed shell-derived hydrochar: reactivity and kinetic studies. Environmental Science and Pollution Research, 2019, 26, 11767-11780.	2.7	5
65	Constructing magnetic Pt-loaded BiFeO3 nanocomposite for boosted visible light photocatalytic and antibacterial activities. Environmental Science and Pollution Research, 2019, 26, 10204-10218.	2.7	35
66	Review of large-pore mesostructured cellular foam (MCF) silica and its applications. Open Chemistry, 2019, 17, 1000-1016.	1.0	15
67	Preparation of Nb2O5-decorated hierarchical porous ZnO microspheres with enhanced photocatalytic degradation of palm oil mill effluent. Journal of Materials Science: Materials in Electronics, 2019, 30, 1739-1750.	1.1	11
68	Effect of Synthesis Condition on the Structural Features of Ni-Ce Bimetallic Catalysts Supported on Functionalized Multi-Walled Carbon Nanotubes. Sains Malaysiana, 2019, 48, 1209-1219.	0.3	4
69	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.	2.2	86
70	Effect of cobalt loading on suppression of carbon formation in carbon dioxide reforming of methane over Co/MgO catalyst. Research on Chemical Intermediates, 2018, 44, 2585-2605.	1.3	16
71	Application of Liquid Chromatography-Mass Spectrometry for the Analysis of Endocrine Disrupting Chemical Transformation Products in Advanced Oxidation Processes and Their Reaction Mechanisms. , 2018, , 1-25.		0
72	Hydrogen sulfide removal using CeO2/NaOH/PSAC: Effect of preparation parameters. Journal of Environmental Chemical Engineering, 2018, 6, 386-394.	3.3	15

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73	Advancement of Photocatalytic Water Treatment Technology for Environmental Control. , 2018, , 1-28.		0
74	Carbon dioxide hydrogenation to methanol over multi-functional catalyst: Effects of reactants adsorption and metal-oxide(s) interfacial area. Journal of Industrial and Engineering Chemistry, 2018, 62, 156-165.	2.9	47
75	The morphological impact of siliceous porous carriers on copper-catalysts for selective direct CO2 hydrogenation to methanol. International Journal of Hydrogen Energy, 2018, 43, 9334-9342.	3.8	36
76	CO₂ methanation over Ni and Rh based catalysts: Process optimization at moderate temperature. International Journal of Energy Research, 2018, 42, 3289-3302.	2.2	19
77	Selective acid-functionalized mesoporous silica catalyst for conversion of glycerol to monoglycerides: state of the art and future prospects. Reviews in Chemical Engineering, 2018, 34, 239-265.	2.3	16
78	Recent trends in graphene materials synthesized by CVD with various carbon precursors. Journal of Materials Science, 2018, 53, 851-879.	1.7	45
79	Parametric study and effect of calcination and carbonation conditions on the CO2 capture performance of lithium orthosilicate sorbent. Chinese Journal of Chemical Engineering, 2018, 26, 631-641.	1.7	10
80	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.	10.8	133
81	Photocatalytic Performance of ZnO/g-C3N4 for Removal of Phenol under Simulated Sunlight Irradiation. Journal of Environmental Engineering, ASCE, 2018, 144, .	0.7	56
82	Evaluation of photocatalytic fuel cell (PFC) for electricity production and simultaneous degradation of methyl green in synthetic and real greywater effluents. Journal of Environmental Management, 2018, 228, 383-392.	3.8	51
83	Evaluation of Different Oxidizing Agents on Effective Covalent Functionalization of Multiwalled Carbon Nanotubes. Fullerenes Nanotubes and Carbon Nanostructures, 2018, 26, 846-850.	1.0	18
84	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.	8.2	74
85	Kinetic Modeling of Ilmenite Reduction with Compressed Natural Gas (CNG) Using MATLAB. Materials Science Forum, 2018, 928, 113-122.	0.3	2
86	A review of carbon-based and non-carbon-based catalyst supports for the selective catalytic reduction of nitric oxide. Beilstein Journal of Nanotechnology, 2018, 9, 740-761.	1.5	32
87	Metal incorporated biochar as a potential adsorbent for high capacity CO2 capture at ambient condition. Journal of CO2 Utilization, 2018, 26, 281-293.	3.3	95
88	Transfer of wafer-scale graphene onto arbitrary substrates: steps towards the reuse and recycling of the catalyst. 2D Materials, 2018, 5, 042001.	2.0	7
89	Effect of different suspension concentrations of carbon nanotubes in dimethylformamide for electrophoretic deposition. Materials Research Express, 2018, 5, 086407.	0.8	5
90	Visible light responsive flower-like ZnO in photocatalytic antibacterial mechanism towards Enterococcus faecalis and Micrococcus luteus. Journal of Photochemistry and Photobiology B: Biology, 2018, 187, 66-75.	1.7	52

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91	Toward high production of graphene flakes â€“ a review on recent developments in their synthesis methods and scalability. Journal of Materials Chemistry A, 2018, 6, 15010-15026.	5.2	63
92	Spindly BiFeO3 Nanoparticles for Photodegradation of Organic Pollutants Under a Compact Fluorescent Lamp. IOP Conference Series: Earth and Environmental Science, 2018, 151, 012021.	0.2	4
93	Co-synthesis of large-area graphene and syngas via CVD method from greenhouse gases. Materials Letters, 2018, 227, 132-135.	1.3	9
94	Understanding the performance and mechanism of Mg-containing oxides as support catalysts in the thermal dry reforming of methane. Beilstein Journal of Nanotechnology, 2018, 9, 1162-1183.	1.5	8
95	Facile fabrication of hierarchical porous ZnO/Fe3O4 composites with enhanced magnetic, photocatalytic and antibacterial properties. Materials Letters, 2018, 228, 207-211.	1.3	27
96	Kinetic modeling of hydrogen production rate by photoautotrophic cyanobacterium A. variabilis ATCC 29413 as a function of both CO2 concentration and oxygen production rate. Preparative Biochemistry and Biotechnology, 2017, 47, 111-115.	1.0	0
97	Modeling the light attenuation phenomenon during photoautotrophic growth of A. variabilis<scp>ATCC</scp> 29413 in a batch photobioreactor. Journal of Chemical Technology and Biotechnology, 2017, 92, 358-366.	1.6	8
98	Polyacrylamide-induced coagulation process removing suspended solids from palm oil mill effluent. Separation Science and Technology, 2017, 52, 520-527.	1.3	34
99	Harnessing Visâ€“NIR broad spectrum for photocatalytic CO2 reduction over carbon quantum dots-decorated ultrathin Bi2WO6 nanosheets. Nano Research, 2017, 10, 1720-1731.	5.8	135
100	Review of the synthesis, transfer, characterization and growth mechanisms of single and multilayer graphene. RSC Advances, 2017, 7, 15644-15693.	1.7	263
101	A newly emerging visible light-responsive BiFeO 3 perovskite for photocatalytic applications: A mini review. Materials Research Bulletin, 2017, 90, 15-30.	2.7	151
102	Cu2+ coordinated graphitic carbon nitride (Cu-g-C3N4) nanosheets from melamine for the liquid phase hydroxylation of benzene and VOCs. Applied Surface Science, 2017, 398, 43-55.	3.1	85
103	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.	2.2	75
104	Investigation on cobalt aluminate as an oxygen carrier catalyst for dry reforming of methane. International Journal of Hydrogen Energy, 2017, 42, 28363-28376.	3.8	28
105	High-rate synthesis of graphene by a lower cost chemical vapor deposition route. Journal of Nanoparticle Research, 2017, 19, 1.	0.8	11
106	Direct growth of graphene on MgO by chemical vapor deposition for thermal conductivity enhancement of phase change material. Materials Chemistry and Physics, 2017, 202, 352-357.	2.0	36
107	The Impact of Reaction Parameters on Graphene-like Material Synthesized Using Chemical Vapour Deposition. Procedia Engineering, 2017, 184, 460-468.	1.2	4
108	Direct Chemical Vapor Deposition Growth of Graphene Nanosheets on Supported Copper Oxide. Catalysis Letters, 2017, 147, 1988-1997.	1.4	6

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109	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.	6.6	141
110	Biogas reforming over multi walled carbon nanotubes with Co-Mo/MgO nanoparticles. AIP Conference Proceedings, 2017, , .	0.3	0
111	Biochars as Potential Adsorbers of CH4, CO2 and H2S. Sustainability, 2017, 9, 121.	1.6	68
112	Surfactant-free hydrothermal synthesis of flower-like BiOBr hierarchical structure and its visible light-driven catalytic activity towards the degradation of sunset yellow. Journal of Materials Science: Materials in Electronics, 2017, 28, 13236-13246.	1.1	11
113	Electrophoretic Deposition of Carbon Nanotubes on Heat Spreader for Fabrication of Thermal Interface Materials (TIM). Sains Malaysiana, 2017, 46, 1075-1082.	0.3	2
114	Size and Stability of Curcumin Niosomes from Combinations of Tween 80 and Span 80. Sains Malaysiana, 2017, 46, 2455-2460.	0.3	22
115	CO₂ Adsorption by Modified Palm Shell Activated Carbon (PSAC) Via Chemical and Physical Activation and Metal Impregnation. Chemical Engineering Communications, 2016, 203, 1455-1463.	1.5	23
116	Effect of carbonation temperature on CO2 adsorption capacity of CaO derived from micro/nanostructured aragonite CaCO3. AIP Conference Proceedings, 2016, , .	0.3	3
117	Ca(OH)₂nano-pods: investigation on the effect of solvent ratio on morphology and CO₂adsorption capacity. RSC Advances, 2016, 6, 36031-36038.	1.7	10
118	Simultaneous growth of monolayer graphene on Niâ€“Cu bimetallic catalyst by atmospheric pressure CVD process. RSC Advances, 2016, 6, 41447-41452.	1.7	2
119	Oxygenâ€Deficient BiOBr as a Highly Stable Photocatalyst for Efficient CO₂ Reduction into Renewable Carbonâ€Neutral Fuels. ChemCatChem, 2016, 8, 3074-3081.	1.8	120
120	Carbon modified anatase TiO2 for the rapid photo degradation of methylene blue: A comparative study. Surfaces and Interfaces, 2016, 5, 19-29.	1.5	23
121	Hydrogen sulfide removal using CeO2/NaOH/PSAC: Effect of process conditions and regeneration study. Journal of Environmental Chemical Engineering, 2016, 4, 3479-3483.	3.3	4
122	Oxygen vacancy induced Bi₂WO₆ for the realization of photocatalytic CO₂ reduction over the full solar spectrum: from the UV to the NIR region. Chemical Communications, 2016, 52, 14242-14245.	2.2	248
123	Light irradiance and spectral distribution effects on cyanobacterial hydrogen production. IOP Conference Series: Earth and Environmental Science, 2016, 32, 012046.	0.2	0
124	Functionalized Multi-Walled Carbon Nanotubes as Heterogeneous Lewis Acid Catalysts in the Etherification Reaction of tert-Butyl Alcohol and Ethanol. Chemical Engineering Communications, 2016, 203, 1385-1394.	1.5	1
125	Mechanisms of graphene fabrication through plasma-induced layer-by-layer thinning. Carbon, 2016, 105, 496-509.	5.4	27
126	High surface area activated carbon from rice husk as a high performance supercapacitor electrode. Electrochimica Acta, 2016, 192, 110-119.	2.6	384

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127	Synthesis of Single-layer Graphene: A Review of Recent Development. Procedia Chemistry, 2016, 19, 916-921.	0.7	100
128	Development of high porosity structures of activated carbon via microwave-assisted regeneration for H2S removal. Journal of Environmental Chemical Engineering, 2016, 4, 4839-4845.	3.3	14
129	Clostridium ljungdahliifor production of biofuel from synthesis gas. Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 2016, 38, 427-434.	1.2	14
130	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.	1.9	178
131	Fabrication of ZnO nanorods via a green hydrothermal method and their light driven catalytic activity towards the erasure of phenol compounds. Materials Letters, 2016, 167, 141-144.	1.3	30
132	Effect of cetyl trimethyl ammonium bromide concentration on structure, morphology and carbon dioxide adsorption capacity of calcium hydroxide based sorbents. Applied Surface Science, 2016, 363, 586-592.	3.1	12
133	Facile synthesis of anatase-rutile TiO 2 composites with enhanced CO 2 photoreduction activity and the effect of Pt loading on product selectivity. Materials Letters, 2016, 163, 240-243.	1.3	28
134	Investigation of the links between heterocyst and biohydrogen production by diazotrophic cyanobacterium A. variabilis ATCC 29413. Archives of Microbiology, 2016, 198, 101-113.	1.0	5
135	Improved CO₂ adsorption capacity and cyclic stability of CaO sorbents incorporated with MgO. New Journal of Chemistry, 2016, 40, 231-237.	1.4	40
136	Sequential synthesis of free-standing high quality bilayer graphene from recycled nickel foil. Carbon, 2016, 96, 268-275.	5.4	32
137	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.	6.6	66
138	An efficient Ag₂SO₄-deposited ZnO in photocatalytic removal of indigo carmine and phenol under outdoor light irradiation. Desalination and Water Treatment, 2016, 57, 14227-14240.	1.0	12
139	Dimethyl formamide as Dispersing Agent for Electrophoretically Deposited of Multi-Walled Carbon Nanotubes. International Journal of Petrochemical Science & Engineering, 2016, 1, .	0.2	6
140	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.	10.8	149
141	Effects of sodium precursors and gelling agents on CO₂ sorption performance of sodium zirconate. Asia-Pacific Journal of Chemical Engineering, 2015, 10, 565-579.	0.8	7
142	Solâ€“gel hydrothermal synthesis of microstructured CaO-based adsorbents for CO₂capture. RSC Advances, 2015, 5, 6051-6060.	1.7	16
143	One-pot synthesis of Ag-MWCNT@TiO2 coreâ€“shell nanocomposites for photocatalytic reduction of CO2 with water under visible light irradiation. Chemical Engineering Journal, 2015, 278, 272-278.	6.6	72
144	Improvement of biomass char-CO2 gasification reactivity using microwave irradiation and natural catalyst. Thermochimica Acta, 2015, 604, 61-66.	1.2	34

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145	Recent development in catalytic technologies for methanol synthesis from renewable sources: A critical review. Renewable and Sustainable Energy Reviews, 2015, 44, 508-518.	8.2	175
146	The role of nickel oxide additive in lowering the carbon dioxide sorption temperature of CaO. Journal of Energy Chemistry, 2015, 24, 225-231.	7.1	15
147	The effects of process parameters on carbon dioxide reforming of methane over Coâ€“Moâ€“MgO/MWCNTs nanocomposite catalysts. Fuel, 2015, 158, 129-138.	3.4	36
148	Selection of better synthesis route of CeO2/NaOH/PSAC for hydrogen sulphide removal from biogas. Journal of Environmental Chemical Engineering, 2015, 3, 1522-1529.	3.3	4
149	A Kinetics Study of the Non-catalytic Supercritical Transesterification Reaction for Biodiesel Production. Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 2015, 37, 705-713.	1.2	1
150	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.	5.0	94
151	Surfactant-free precipitation synthesis of lithium-doped ZnO nanopetals for degradation of phenol under UVâ€“visible light. Materials Letters, 2015, 154, 5-7.	1.3	9
152	Preparation of self-supported crystalline merlinoite-type zeolite W membranes through vacuum filtration and crystallization for CO₂/CH₄ separations. New Journal of Chemistry, 2015, 39, 4135-4140.	1.4	9
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