Abdul Rahman Mohamed

List of Publications by Year
in descending order

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415 papers	35,727 citations	3449 93 h-index	5102 172 g-index
418 all docs	418 docs citations	418 times ranked	38174 citing authors

#	Article	IF	Citations
1	Advancement of biorefinery-derived platform chemicals from macroalgae: a perspective for bioethanol and lactic acid. Biomass Conversion and Biorefinery, 2024, 14, 1443-1479.	2.9	10
2	Dimensional heterojunction design: The rising star of 2D bismuth-based nanostructured photocatalysts for solar-to-chemical conversion. Nano Research, 2023, 16, 4310-4364.	5.8	34
3	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
4	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.	3.9	65
5	A review on dry-based and wet-based catalytic sulphur dioxide (SO2) reduction technologies. Journal of Hazardous Materials, 2022, 423, 127061.	6.5	28
6	Facile asymmetric modification of graphene nanosheets using Îº-carrageenan as a green template. Journal of Colloid and Interface Science, 2022, 607, 1131-1141.	5.0	4
7	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
8	Catalytic co-hydrothermal carbonization of food waste digestate and yard waste for energy application and nutrient recovery. Bioresource Technology, 2022, 344, 126395.	4.8	67
9	Shedding light on the energy applications of emerging 2D hybrid organic-inorganic halide perovskites. IScience, 2022, 25, 103753.	1.9	9
10	Solarâ€powered chemistry: Engineering lowâ€dimensional carbon nitrideâ€based nanostructures for selective <scp>CO₂</scp> conversion to <scp>C₁ï£¿C₂</scp> products. InformaÄnÃ-MateriÃ¡ly, 2022, 4, .	8.5	53
11	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
12	Shining light on <scp>ZnIn₂S₄</scp> photocatalysts: Promotional effects of surface and heterostructure engineering toward artificial photosynthesis. EcoMat, 2022, 4, .	6.8	45
13	MXeneâ”€A New Paradigm Toward Artificial Nitrogen Fixation for Sustainable Ammonia Generation: Synthesis, Properties, and Future Outlook. , 2022, 4, 212-245.		20
14	Red Phosphorus: An Up-and-Coming Photocatalyst on the Horizon for Sustainable Energy Development and Environmental Remediation. Chemical Reviews, 2022, 122, 3879-3965.	23.0	58
15	Tailorâ€Engineered 2D Cocatalysts: Harnessing Electronâ€“Hole Redox Center of 2D gâ€C₃N₄ Photocatalysts toward Solarâ€toâ€Chemical Conversion and Environmental Purification. Advanced Functional Materials, 2022, 32, .	7.8	93
16	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
17	MXenes: An emergent materials for packaging platforms and looking beyond. Nano Select, 2022, 3, 1123-1147.	1.9	9
18	ZnIn₂S₄â€Based Nanostructures in Artificial Photosynthesis: Insights into Photocatalytic Reduction toward Sustainable Energy Production. Small Structures, 2022, 3, .	6.9	30

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19	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
20	Metal-free n/nâ€“junctioned graphitic carbon nitride (g-C3N4): a study to elucidate its charge transfer mechanism and application for environmental remediation. Environmental Science and Pollution Research, 2021, 28, 4388-4403.	2.7	22
21	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.	5.0	84
22	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
23	Engineering Layered Double Hydroxideâ€“Based Photocatalysts Toward Artificial Photosynthesis: Stateâ€ofâ€theâ€Art Progress and Prospects. Solar Rrl, 2021, 5, 2000535.	3.1	53
24	A current overview of the oxidative desulfurization of fuels utilizing heat and solar light: from materials design to catalysis for clean energy. Nanoscale Horizons, 2021, 6, 588-633.	4.1	53
25	Advanced nanomaterials for energy conversion and storage: current status and future opportunities. Nanoscale, 2021, 13, 9904-9907.	2.8	14
26	Self-flocculation of enriched mixed microalgae culture in a sequencing batch reactor. Environmental Science and Pollution Research, 2021, 28, 26595-26605.	2.7	3
27	Characterization of titanium oxide optical band gap produced from leachate sludge treatment with titanium tetrachloride. Environmental Science and Pollution Research, 2021, 28, 17587-17601.	2.7	9
28	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
29	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
30	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
31	Microalgae Cultivation in Palm Oil Mill Effluent (POME) Treatment and Biofuel Production. Sustainability, 2021, 13, 3247.	1.6	83
32	Highly Sensitive and Selective Gas Sensor Using Heteroatom Doping Graphdiyne: A DFT Study. Advanced Electronic Materials, 2021, 7, 2001244.	2.6	37
33	Lithiumâ€“Sulfur Battery Cathode Design: Tailoring Metalâ€Based Nanostructures for Robust Polysulfide Adsorption and Catalytic Conversion. Advanced Materials, 2021, 33, e2008654.	11.1	217
34	Characterization of TiH2 Powders Produced from TiCl4-MgH2 Reactions under Hydrogen Atmosphere. Journal of Materials Engineering and Performance, 2021, 30, 3243-3257.	1.2	2
35	Pointâ€Defect Engineering: Leveraging Imperfections in Graphitic Carbon Nitride (gâ€C₃N₄) Photocatalysts toward Artificial Photosynthesis. Small, 2021, 17, e2006851.	5.2	139
36	Algae biopolymer towards sustainable circular economy. Bioresource Technology, 2021, 325, 124702.	4.8	112

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37	Sustainable and green pretreatment strategy of Eucheuma denticulatum residues for third-generation l-lactic acid production. Bioresource Technology, 2021, 330, 124930.	4.8	22
38	Abatement of hazardous materials and biomass waste via pyrolysis and co-pyrolysis for environmental sustainability and circular economy. Environmental Pollution, 2021, 278, 116836.	3.7	64
39	Sulfur-doped graphitic carbon nitride incorporated bismuth oxychloride/Cobalt based type-II heterojunction as a highly stable material for photoelectrochemical water splitting. Journal of Colloid and Interface Science, 2021, 591, 85-95.	5.0	44
40	Prospects and Challenges of MXenes as Emerging Sensing Materials for Flexible and Wearable Breathâ€Based Biomarker Diagnosis. Advanced Healthcare Materials, 2021, 10, e2100970.	3.9	41
41	Synthesis of Ti Powder from the Reduction of TiCl4 with Metal Hydrides in the H2 Atmosphere: Thermodynamic and Techno-Economic Analyses. Processes, 2021, 9, 1567.	1.3	4
42	Green additive to upgrade biochar from spent coffee grounds by torrefaction for pollution mitigation. Environmental Pollution, 2021, 285, 117244.	3.7	13
43	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
44	Physical and Chemical Activation of Graphene-Derived Porous Nanomaterials for Post-Combustion Carbon Dioxide Capture. Nanomaterials, 2021, 11, 2419.	1.9	9
45	Life cycle assessment of environmental impacts associated with oxidative desulfurization of diesel fuels catalyzed by metal-free reduced graphene oxide. Environmental Pollution, 2021, 288, 117677.	3.7	23
46	Third-generation L-Lactic acid production by the microwave-assisted hydrolysis of red macroalgae Eucheuma denticulatum extract. Bioresource Technology, 2021, 342, 125880.	4.8	15
47	All-solid-state direct Z-scheme NiTiO₃/Cd_{0.5}Zn_{0.5}S heterostructures for photocatalytic hydrogen evolution with visible light. Journal of Materials Chemistry A, 2021, 9, 10270-10276.	5.2	136
48	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
49	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
50	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
51	Comprehensive Mechanism of CO₂ Electroreduction on Nonâ€Noble Metal Singleâ€Atom Catalysts of Mo₂CS₂â€MXene. Chemistry - A European Journal, 2021, 27, 17900-17909.	1.7	16
52	Progress in adsorption capacity of nanomaterials for carbon dioxide capture: A comparative study. Journal of Cleaner Production, 2021, 328, 129553.	4.6	37
53	A Tough Reversible Biomimetic Transparent Adhesive Tape with Pressure-Sensitive and Wet-Cleaning Properties. ACS Nano, 2021, 15, 19194-19201.	7.3	20
54	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

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55	Nanoengineering Carbonaceous Materials: A Multifunctional Platform towards a Greener Energy Future. Small, 2021, 17, e2106667.	5.2	2
56	Magnetic-Based Photocatalyst for Antibacterial Application and Catalytic Performance. Environmental Chemistry for A Sustainable World, 2020, , 195-215.	0.3	2
57	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
58	Flocculation of Chlorella vulgaris by shell waste-derived bioflocculants for biodiesel production: Process optimization, characterization and kinetic studies. Science of the Total Environment, 2020, 702, 134995.	3.9	58
59	Advances of macroalgae biomass for the third generation of bioethanol production. Chinese Journal of Chemical Engineering, 2020, 28, 502-517.	1.7	61
60	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
61	Insights and utility of cycling-induced thermal deformation of calcium-based microporous material as post-combustion CO2 sorbents. Fuel, 2020, 260, 116354.	3.4	14
62	Low temperature adsorption of nitric oxide on cerium impregnated biomass-derived biochar. Korean Journal of Chemical Engineering, 2020, 37, 130-140.	1.2	21
63	In situ acid fabrication of g-C3N4 photocatalyst with improved adsorptive and photocatalytic properties. Materials Letters, 2020, 261, 126990.	1.3	13
64	Energy level tuning of CdSe colloidal quantum dots in ternary 0D-2D-2D CdSe QD/B-rGO/O-gC3N4 as photocatalysts for enhanced hydrogen generation. Applied Catalysis B: Environmental, 2020, 265, 118592.	10.8	45
65	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
66	Nitrogen-doped carbon quantum dots-decorated 2D graphitic carbon nitride as a promising photocatalyst for environmental remediation: A study on the importance of hybridization approach. Journal of Environmental Management, 2020, 255, 109936.	3.8	50
67	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
68	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
69	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
70	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
71	Emerging Nanomaterials for Lightâ€Driven Reactions: Past, Present, and Future. Solar Rrl, 2020, 4, 2000354.	3.1	3
72	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

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73	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
74	Macroalgae-derived regenerated cellulose in the stabilization of oil-in-water Pickering emulsions. Carbohydrate Polymers, 2020, 249, 116875.	5.1	15
75	Density Functional Theory Study of Single Metal Atoms Embedded into MBene for Electrocatalytic Conversion of N₂ to NH₃. ACS Applied Nano Materials, 2020, 3, 9870-9879.	2.4	35
76	2D/2D Heterostructured Photocatalysts: An Emerging Platform for Artificial Photosynthesis. Solar Rrl, 2020, 4, 2070085.	3.1	10
77	Pbâ€Based Halide Perovskites: Recent Advances in Photo(electro)catalytic Applications and Looking Beyond. Advanced Functional Materials, 2020, 30, 1909667.	7.8	77
78	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
79	2D/2D Heterostructured Photocatalysts: An Emerging Platform for Artificial Photosynthesis. Solar Rrl, 2020, 4, 2000132.	3.1	94
80	Sustainable Catalytic Processes Driven by Graphene-Based Materials. Processes, 2020, 8, 672.	1.3	8
81	Enhanced interfacial electron transfer and boosted visible-light photocatalytic hydrogen evolution activity of g-C3N4 by noble-metal-free MoSe2 nanoparticles. Journal of Materials Science, 2020, 55, 13114-13126.	1.7	22
82	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
83	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
84	Bifunctional Z-Scheme Ag/AgVO3/g-C3N4 photocatalysts for expired ciprofloxacin degradation and hydrogen production from natural rainwater without using scavengers. Journal of Environmental Management, 2020, 270, 110803.	3.8	50
85	Enhancement of CO2 adsorption on biochar sorbent modified by metal incorporation. Environmental Science and Pollution Research, 2020, 27, 11809-11829.	2.7	45
86	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
87	Recent progress in two-dimensional nanomaterials for photocatalytic carbon dioxide transformation into solar fuels. Materials Today Sustainability, 2020, 9, 100037.	1.9	29
88	Zâ€Schemaâ€Photokatalysesysteme fÃ¼r die Kohlendioxidreduktion: Wo stehen wir heute?. Angewandte Chemie, 2020, 132, 23092-23115.	1.6	30
89	Zâ€Scheme Photocatalytic Systems for Carbon Dioxide Reduction: Where Are We Now?. Angewandte Chemie - International Edition, 2020, 59, 22894-22915.	7.2	435
90	Algae biorefinery: Review on a broad spectrum of downstream processes and products. Bioresource Technology, 2019, 292, 121964.	4.8	138

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91	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
92	Exploring transition metal (Cr, Mn, Fe, Co, Ni) promoted copper-catalyst for carbon dioxide hydrogenation to methanol. AIP Conference Proceedings, 2019, , .	0.3	8
93	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
94	The role of nanosized zeolite Y in the H₂-free catalytic deoxygenation of triolein. Catalysis Science and Technology, 2019, 9, 772-782.	2.1	37
95	Full color carbon dots through surface engineering for constructing white light-emitting diodes. Journal of Materials Chemistry C, 2019, 7, 2212-2218.	2.7	69
96	Biofuel and Bioenergy Technology. Energies, 2019, 12, 290.	1.6	12
97	A self-healing hydrogel with pressure sensitive photoluminescence for remote force measurement and healing assessment. Materials Horizons, 2019, 6, 703-710.	6.4	66
98	Overview on catalytic deoxygenation for biofuel synthesis using metal oxide supported catalysts. Renewable and Sustainable Energy Reviews, 2019, 112, 834-852.	8.2	75
99	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.	3.9	162
100	Hierarchical flower-like ZnIn₂S₄ anchored with well-dispersed Ni₁₂P₅ nanoparticles for high-quantum-yield photocatalytic H₂ evolution under visible light. Catalysis Science and Technology, 2019, 9, 4010-4016.	2.1	46
101	Advancement of Photocatalytic Water Treatment Technology for Environmental Control. , 2019, , 1719-1746.		0
102	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
103	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
104	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
105	Understanding the atomic and electronic structures origin of defect luminescence of CdSe quantum dots in glass matrix. Journal of the American Ceramic Society, 2019, 102, 5375-5385.	1.9	19
106	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
107	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
108	Enhanced adsorption of methylene blue on chemically modified graphene nanoplatelets thanks to favorable interactions. Journal of Nanoparticle Research, 2019, 21, 1.	0.8	25

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109	Review of large-pore mesostructured cellular foam (MCF) silica and its applications. Open Chemistry, 2019, 17, 1000-1016.	1.0	15
110	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.	5.2	133
111	Sub-5 nm Ultra-Fine FeP Nanodots as Efficient Co-Catalysts Modified Porous g-C₃N₄ for Precious-Metal-Free Photocatalytic Hydrogen Evolution under Visible Light. ACS Applied Materials & Interfaces, 2019, 11, 5651-5660.	4.0	208
112	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
113	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
114	Tailoring the properties of oxygenated graphene with different oxidation degrees for noble-metal-free photocatalytic hydrogen evolution. Catalysis Today, 2018, 315, 93-102.	2.2	16
115	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
116	Photocatalysis: Co2 P Nanorods as an Efficient Cocatalyst Decorated Porous g-C3 N4 Nanosheets for Photocatalytic Hydrogen Production under Visible Light Irradiation (Part. Part. Syst. Charact. 1/2018). Particle and Particle Systems Characterization, 2018, 35, 1870003.	1.2	4
117	Artificial Photosynthesis: Taking a Big Leap for Powering the Earth by Harnessing Solar Energy. Particle and Particle Systems Characterization, 2018, 35, 1700451.	1.2	10
118	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
119	Co₂P Nanorods as an Efficient Cocatalyst Decorated Porous gâ€₃N₄ Nanosheets for Photocatalytic Hydrogen Production under Visible Light Irradiation. Particle and Particle Systems Characterization, 2018, 35, 1700251.	1.2	69
120	Advancement of Photocatalytic Water Treatment Technology for Environmental Control. , 2018, , 1-28.		0
121	Engineering nanoscale pâ€“n junction via 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.	5.2	143
122	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
123	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
124	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
125	Semi-continuous cultivation of Chlorella vulgaris using chicken compost as nutrients source: Growth optimization study and fatty acid composition analysis. Energy Conversion and Management, 2018, 164, 363-373.	4.4	55
126	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

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127	Recent trends in graphene materials synthesized by CVD with various carbon precursors. Journal of Materials Science, 2018, 53, 851-879.	1.7	45
128	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
129	Photocatalytic fixation of nitrogen to ammonia: state-of-the-art advancements and future prospects. Materials Horizons, 2018, 5, 9-27.	6.4	586
130	Photocatalytic Performance of ZnO/g-C3N4 for Removal of Phenol under Simulated Sunlight Irradiation. Journal of Environmental Engineering, ASCE, 2018, 144, .	0.7	56
131	Frontispiece: Insights into the Electrocatalytic Hydrogen Evolution Reaction Mechanism on Twoâ€Dimensional Transitionâ€Metal Carbonitrides (MXene). Chemistry - A European Journal, 2018, 24, .	1.7	0
132	Harvesting and pre-treatment of microalgae biomass via ozonation for lipid extraction: A preliminary study. AIP Conference Proceedings, 2018, , .	0.3	1
133	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
134	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
135	Insights into the Electrocatalytic Hydrogen Evolution Reaction Mechanism on Twoâ€Dimensional Transitionâ€Metal Carbonitrides (MXene). Chemistry - A European Journal, 2018, 24, 18479-18486.	1.7	87
136	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
137	High photoluminescence quantum yield of 18.7% by using nitrogen-doped Ti₃C₂ MXene quantum dots. Journal of Materials Chemistry C, 2018, 6, 6360-6369.	2.7	159
138	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
139	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
140	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
141	Co-synthesis of large-area graphene and syngas via CVD method from greenhouse gases. Materials Letters, 2018, 227, 132-135.	1.3	9
142	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
143	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.	5.2	161
144	Facile fabrication of hierarchical porous ZnO/Fe3O4 composites with enhanced magnetic, photocatalytic and antibacterial properties. Materials Letters, 2018, 228, 207-211.	1.3	27

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145	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
146	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
147	Polyacrylamide-induced coagulation process removing suspended solids from palm oil mill effluent. Separation Science and Technology, 2017, 52, 520-527.	1.3	34
148	Heteroatom Nitrogen- and Boron-Doping as a Facile Strategy to Improve Photocatalytic Activity of Standalone Reduced Graphene Oxide in Hydrogen Evolution. ACS Applied Materials & Interfaces, 2017, 9, 4558-4569.	4.0	128
149	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
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