

Moses O Tade

List of Publications by Year in descending order

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570
papers

46,591
citations

1046

113
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docs citations

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times ranked

32223
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#	ARTICLE	IF	CITATIONS
1	Metal-Free Carbocatalysis in Advanced Oxidation Reactions. <i>Accounts of Chemical Research</i> , 2018, 51, 678-687.	15.6	968
2	N-Doping-Induced Nonradical Reaction on Single-Walled Carbon Nanotubes for Catalytic Phenol Oxidation. <i>ACS Catalysis</i> , 2015, 5, 553-559.	11.2	772
3	Research progress of perovskite materials in photocatalysis- and photovoltaics-related energy conversion and environmental treatment. <i>Chemical Society Reviews</i> , 2015, 44, 5371-5408.	38.1	725
4	Nonradical reactions in environmental remediation processes: Uncertainty and challenges. <i>Applied Catalysis B: Environmental</i> , 2018, 224, 973-982.	20.2	694
5	Nitrogen-Doped Graphene for Generation and Evolution of Reactive Radicals by Metal-Free Catalysis. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 4169-4178.	8.0	677
6	Insights into Heterogeneous Catalysis of Persulfate Activation on Dimensional-Structured Nanocarbons. <i>ACS Catalysis</i> , 2015, 5, 4629-4636.	11.2	642
7	Reduced Graphene Oxide for Catalytic Oxidation of Aqueous Organic Pollutants. <i>ACS Applied Materials & Interfaces</i> , 2012, 4, 5466-5471.	8.0	636
8	Adsorptive remediation of environmental pollutants using novel graphene-based nanomaterials. <i>Chemical Engineering Journal</i> , 2013, 226, 336-347.	12.7	598
9	Occurrence of radical and nonradical pathways from carbocatalysts for aqueous and nonaqueous catalytic oxidation. <i>Applied Catalysis B: Environmental</i> , 2016, 188, 98-105.	20.2	570
10	Sulfur and Nitrogen Co-Doped Graphene for Metal-Free Catalytic Oxidation Reactions. <i>Small</i> , 2015, 11, 3036-3044.	10.0	567
11	Volatile organic compounds in indoor environment and photocatalytic oxidation: State of the art. <i>Environment International</i> , 2007, 33, 694-705.	10.0	558
12	Synthesis, characterization, and adsorption properties of magnetic Fe ₃ O ₄ @graphene nanocomposite. <i>Chemical Engineering Journal</i> , 2012, 184, 326-332.	12.7	549
13	A review on photocatalysis for air treatment: From catalyst development to reactor design. <i>Chemical Engineering Journal</i> , 2017, 310, 537-559.	12.7	449
14	Different Crystallographic One-dimensional MnO ₂ Nanomaterials and Their Superior Performance in Catalytic Phenol Degradation. <i>Environmental Science & Technology</i> , 2013, 47, 5882-5887.	10.0	446
15	Catalytic oxidation of organic pollutants on pristine and surface nitrogen-modified carbon nanotubes with sulfate radicals. <i>Applied Catalysis B: Environmental</i> , 2014, 154-155, 134-141.	20.2	437
16	Manganese oxides at different oxidation states for heterogeneous activation of peroxymonosulfate for phenol degradation in aqueous solutions. <i>Applied Catalysis B: Environmental</i> , 2013, 142-143, 729-735.	20.2	435
17	Insights into perovskite-catalyzed peroxymonosulfate activation: Maneuverable cobalt sites for promoted evolution of sulfate radicals. <i>Applied Catalysis B: Environmental</i> , 2018, 220, 626-634.	20.2	428
18	SrNb _{0.1} Co _{0.7} Fe _{0.2} O ₃ Perovskite as a Next-Generation Electrocatalyst for Oxygen Evolution in Alkaline Solution. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 3897-3901.	13.8	400

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19	Surface controlled generation of reactive radicals from persulfate by carbocatalysis on nanodiamonds. <i>Applied Catalysis B: Environmental</i> , 2016, 194, 7-15.	20.2	390
20	Mechanistic investigation of the enhanced NH ₃ -SCR on cobalt-decorated Ce-Ti mixed oxide: In situ FTIR analysis for structure-activity correlation. <i>Applied Catalysis B: Environmental</i> , 2017, 200, 297-308.	20.2	388
21	Synthesis of Nitrogen-Doped Mesoporous Carbon Spheres with Extra-Large Pores through Assembly of Diblock Copolymer Micelles. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 588-593.	13.8	380
22	Activated carbon supported cobalt catalysts for advanced oxidation of organic contaminants in aqueous solution. <i>Applied Catalysis B: Environmental</i> , 2010, 100, 529-534.	20.2	373
23	An insight into metal organic framework derived N-doped graphene for the oxidative degradation of persistent contaminants: formation mechanism and generation of singlet oxygen from peroxymonosulfate. <i>Environmental Science: Nano</i> , 2017, 4, 315-324.	4.3	372
24	Unveiling the active sites of graphene-catalyzed peroxymonosulfate activation. <i>Carbon</i> , 2016, 107, 371-378.	10.3	359
25	Recent advances in non-metal modification of graphitic carbon nitride for photocatalysis: a historic review. <i>Catalysis Science and Technology</i> , 2016, 6, 7002-7023.	4.1	350
26	Systematic study of aqueous monoethanolamine (MEA)-based CO ₂ capture process: Techno-economic assessment of the MEA process and its improvements. <i>Applied Energy</i> , 2016, 165, 648-659.	10.1	346
27	3D-hierarchically structured MnO ₂ for catalytic oxidation of phenol solutions by activation of peroxymonosulfate: Structure dependence and mechanism. <i>Applied Catalysis B: Environmental</i> , 2015, 164, 159-167.	20.2	345
28	Facile synthesis of nitrogen-doped graphene via low-temperature pyrolysis: The effects of precursors and annealing ambience on metal-free catalytic oxidation. <i>Carbon</i> , 2017, 115, 649-658.	10.3	323
29	Porous Carbons: Structure-Oriented Design and Versatile Applications. <i>Advanced Functional Materials</i> , 2020, 30, 1909265.	14.9	316
30	Facile assembly of Bi ₂ O ₃ /Bi ₂ S ₃ /MoS ₂ n-p heterojunction with layered n-Bi ₂ O ₃ and p-MoS ₂ for enhanced photocatalytic water oxidation and pollutant degradation. <i>Applied Catalysis B: Environmental</i> , 2017, 200, 47-55.	20.2	314
31	Degradation of Cosmetic Microplastics via Functionalized Carbon Nanosprings. <i>Matter</i> , 2019, 1, 745-758.	10.0	306
32	OD (MoS ₂)/2D (g-C ₃ N ₄) heterojunctions in Z-scheme for enhanced photocatalytic and electrochemical hydrogen evolution. <i>Applied Catalysis B: Environmental</i> , 2018, 228, 64-74.	20.2	298
33	Facile synthesis of nitrogen doped reduced graphene oxide as a superior metal-free catalyst for oxidation. <i>Chemical Communications</i> , 2013, 49, 9914.	4.1	294
34	Nanocarbons in different structural dimensions (0-3D) for phenol adsorption and metal-free catalytic oxidation. <i>Applied Catalysis B: Environmental</i> , 2015, 179, 352-362.	20.2	277
35	Rational Catalyst Design for N ₂ Reduction under Ambient Conditions: Strategies toward Enhanced Conversion Efficiency. <i>ACS Catalysis</i> , 2020, 10, 6870-6899.	11.2	273
36	Activation of peroxymonosulfate by carbonaceous oxygen groups: experimental and density functional theory calculations. <i>Applied Catalysis B: Environmental</i> , 2016, 198, 295-302.	20.2	261

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37	Insights into N-doping in single-walled carbon nanotubes for enhanced activation of superoxides: a mechanistic study. <i>Chemical Communications</i> , 2015, 51, 15249-15252.	4.1	259
38	Nitrogen-doped simple and complex oxides for photocatalysis: A review. <i>Progress in Materials Science</i> , 2018, 92, 33-63.	32.8	257
39	Topotactic Transformation of Metal-Organic Frameworks to Graphene-Encapsulated Transition-Metal Nitrides as Efficient Fenton-like Catalysts. <i>ACS Nano</i> , 2016, 10, 11532-11540.	14.6	253
40	A new magnetic nano zero-valent iron encapsulated in carbon spheres for oxidative degradation of phenol. <i>Applied Catalysis B: Environmental</i> , 2015, 172-173, 73-81.	20.2	244
41	Excellent performance of mesoporous Co ₃ O ₄ /MnO ₂ nanoparticles in heterogeneous activation of peroxymonosulfate for phenol degradation in aqueous solutions. <i>Applied Catalysis B: Environmental</i> , 2012, 127, 330-335.	20.2	243
42	N-Doped Graphene from Metal-Organic Frameworks for Catalytic Oxidation of p-Hydroxybenzoic Acid: N-Functionality and Mechanism. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 2693-2701.	6.7	243
43	Efficient Catalytic Ozonation over Reduced Graphene Oxide for p-Hydroxybenzoic Acid (PHBA) Destruction: Active Site and Mechanism. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 9710-9720.	8.0	234
44	Hydrothermal Synthesis of Co ₃ O ₄ -Graphene for Heterogeneous Activation of Peroxymonosulfate for Decomposition of Phenol. <i>Industrial & Engineering Chemistry Research</i> , 2012, 51, 14958-14965.	3.7	231
45	Molecular Design of Mesoporous NiCo ₂ O ₄ and NiCo ₂ S ₄ with Sub-Micrometer Polyhedron Architectures for Efficient Pseudocapacitive Energy Storage. <i>Advanced Functional Materials</i> , 2017, 27, 1701229.	14.9	230
46	Fabrication and characterization of polyamide thin film nanocomposite (TFN) nanofiltration membrane impregnated with TiO ₂ nanoparticles. <i>Desalination</i> , 2013, 313, 176-188.	8.2	229
47	Advances in Cathode Materials for Solid Oxide Fuel Cells: Complex Oxides without Alkaline Earth Metal Elements. <i>Advanced Energy Materials</i> , 2015, 5, 1500537.	19.5	229
48	New insights into heterogeneous generation and evolution processes of sulfate radicals for phenol degradation over one-dimensional Li-MnO ₂ nanostructures. <i>Chemical Engineering Journal</i> , 2015, 266, 12-20.	12.7	229
49	Nanosize Zr-metal organic framework (UiO-66) for hydrogen and carbon dioxide storage. <i>Chemical Engineering Journal</i> , 2012, 187, 415-420.	12.7	227
50	Impact of oxygen vacancy occupancy on piezo-catalytic activity of BaTiO ₃ nanobelt. <i>Applied Catalysis B: Environmental</i> , 2020, 279, 119340.	20.2	226
51	Nitrogen- and Sulfur-Codoped Hierarchically Porous Carbon for Adsorptive and Oxidative Removal of Pharmaceutical Contaminants. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 7184-7193.	8.0	224
52	Co-SBA-15 for heterogeneous oxidation of phenol with sulfate radical for wastewater treatment. <i>Catalysis Today</i> , 2011, 175, 380-385.	4.4	216
53	Nanodiamonds in sp ² /sp ³ configuration for radical to nonradical oxidation: Core-shell layer dependence. <i>Applied Catalysis B: Environmental</i> , 2018, 222, 176-181.	20.2	214
54	Boosting Fenton-Like Reactions via Single Atom Fe Catalysis. <i>Environmental Science & Technology</i> , 2019, 53, 11391-11400.	10.0	210

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55	Cobalt exchanged zeolites for heterogeneous catalytic oxidation of phenol in the presence of peroxy monosulphate. <i>Applied Catalysis B: Environmental</i> , 2010, 99, 163-169.	20.2	209
56	Excellent performance of copper based metal organic framework in adsorptive removal of toxic sulfonamide antibiotics from wastewater. <i>Journal of Colloid and Interface Science</i> , 2016, 478, 344-352.	9.4	208
57	Active Centers of Catalysts for Higher Alcohol Synthesis from Syngas: A Review. <i>ACS Catalysis</i> , 2018, 8, 7025-7050.	11.2	206
58	Magnetic CoFe ₂ O ₄ @Graphene Hybrids: Facile Synthesis, Characterization, and Catalytic Properties. <i>Industrial & Engineering Chemistry Research</i> , 2012, 51, 6044-6051.	3.7	205
59	Nitrogen-doped bamboo-like carbon nanotubes with Ni encapsulation for persulfate activation to remove emerging contaminants with excellent catalytic stability. <i>Chemical Engineering Journal</i> , 2018, 332, 398-408.	12.7	199
60	Preparation and Characterization of Visible-Light-Driven Carbon-Sulfur-Codoped TiO ₂ Photocatalysts. <i>Industrial & Engineering Chemistry Research</i> , 2006, 45, 4971-4976.	3.7	198
61	Adsorptive removal of antibiotic sulfonamide by UiO-66 and ZIF-67 for wastewater treatment. <i>Journal of Colloid and Interface Science</i> , 2017, 500, 88-95.	9.4	198
62	Shape-controlled activation of peroxy monosulfate by single crystal δ -Mn ₂ O ₃ for catalytic phenol degradation in aqueous solution. <i>Applied Catalysis B: Environmental</i> , 2014, 154-155, 246-251.	20.2	196
63	2D/2D nano-hybrids of δ -MnO ₂ on reduced graphene oxide for catalytic ozonation and coupling peroxy monosulfate activation. <i>Journal of Hazardous Materials</i> , 2016, 301, 56-64.	12.4	195
64	Fabrication of Fe ₃ O ₄ /SiO ₂ core/shell nanoparticles attached to graphene oxide and its use as an adsorbent. <i>Journal of Colloid and Interface Science</i> , 2012, 379, 20-26.	9.4	194
65	Low temperature combustion synthesis of nitrogen-doped graphene for metal-free catalytic oxidation. <i>Journal of Materials Chemistry A</i> , 2015, 3, 3432-3440.	10.3	194
66	Bread-making synthesis of hierarchically Co@C nanoarchitecture in heteroatom doped porous carbons for oxidative degradation of emerging contaminants. <i>Applied Catalysis B: Environmental</i> , 2018, 225, 76-83.	20.2	194
67	Nano-Fe ₃ O ₄ Encapsulated in Microcarbon Spheres: Synthesis, Characterization, and Environmental Applications. <i>ACS Applied Materials & Interfaces</i> , 2012, 4, 6235-6241.	8.0	189
68	Synthesis of porous reduced graphene oxide as metal-free carbon for adsorption and catalytic oxidation of organics in water. <i>Journal of Materials Chemistry A</i> , 2013, 1, 5854.	10.3	187
69	Effects of nitrogen-, boron-, and phosphorus-doping or codoping on metal-free graphene catalysis. <i>Catalysis Today</i> , 2015, 249, 184-191.	4.4	185
70	A comparative study of spinel structured Mn ₃ O ₄ , Co ₃ O ₄ and Fe ₃ O ₄ nanoparticles in catalytic oxidation of phenolic contaminants in aqueous solutions. <i>Journal of Colloid and Interface Science</i> , 2013, 407, 467-473.	9.4	182
71	Heteroatom (N or S) Doping Induced Layered and Honeycomb Microstructures of Porous Carbons for CO ₂ Capture and Energy Applications. <i>Advanced Functional Materials</i> , 2016, 26, 8651-8661.	14.9	182
72	Graphene facilitated visible light photodegradation of methylene blue over titanium dioxide photocatalysts. <i>Chemical Engineering Journal</i> , 2013, 214, 298-303.	12.7	181

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73	A comparative study of reduced graphene oxide modified TiO ₂ , ZnO and Ta ₂ O ₅ in visible light photocatalytic/photochemical oxidation of methylene blue. <i>Applied Catalysis B: Environmental</i> , 2014, 146, 162-168.	20.2	178
74	Understanding of the Oxidation Behavior of Benzyl Alcohol by Peroxymonosulfate via Carbon Nanotubes Activation. <i>ACS Catalysis</i> , 2020, 10, 3516-3525.	11.2	178
75	Phosphorous doped carbon nitride nanobelts for photodegradation of emerging contaminants and hydrogen evolution. <i>Applied Catalysis B: Environmental</i> , 2019, 257, 117931.	20.2	170
76	Carbocatalytic activation of persulfate for removal of antibiotics in water solutions. <i>Chemical Engineering Journal</i> , 2016, 288, 399-405.	12.7	168
77	A New Metal-Free Carbon Hybrid for Enhanced Photocatalysis. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 16745-16754.	8.0	167
78	Systematic study of aqueous monoethanolamine-based CO ₂ capture process: model development and process improvement. <i>Energy Science and Engineering</i> , 2016, 4, 23-39.	4.0	167
79	Facile Synthesis of Hierarchically Structured Magnetic MnO ₂ /ZnFe ₂ O ₄ Hybrid Materials and Their Performance in Heterogeneous Activation of Peroxymonosulfate. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 19914-19923.	8.0	166
80	Manganese oxide integrated catalytic ceramic membrane for degradation of organic pollutants using sulfate radicals. <i>Water Research</i> , 2019, 167, 115110.	11.3	165
81	Surface-tailored nanodiamonds as excellent metal-free catalysts for organic oxidation. <i>Carbon</i> , 2016, 103, 404-411.	10.3	164
82	Magnetic Ni-Co alloy encapsulated N-doped carbon nanotubes for catalytic membrane degradation of emerging contaminants. <i>Chemical Engineering Journal</i> , 2019, 362, 251-261.	12.7	164
83	Disordered Atomic Packing Structure of Metallic Glass: Toward Ultrafast Hydroxyl Radicals Production Rate and Strong Electron Transfer Ability in Catalytic Performance. <i>Advanced Functional Materials</i> , 2017, 27, 1702258.	14.9	160
84	Engineered Graphitic Carbon Nitride-Based Photocatalysts for Visible-Light-Driven Water Splitting: A Review. <i>Energy & Fuels</i> , 2021, 35, 6504-6526.	5.1	160
85	Nanosized Co ₃ O ₄ /SiO ₂ for heterogeneous oxidation of phenolic contaminants in waste water. <i>Separation and Purification Technology</i> , 2011, 77, 230-236.	7.9	159
86	Glycerol/starch/Na ⁺ -montmorillonite nanocomposites: A XRD, FTIR, DSC and ¹ H NMR study. <i>Carbohydrate Polymers</i> , 2011, 83, 1591-1597.	10.2	156
87	Ferric carbide nanocrystals encapsulated in nitrogen-doped carbon nanotubes as an outstanding environmental catalyst. <i>Environmental Science: Nano</i> , 2017, 4, 170-179.	4.3	155
88	Flower-like MoS ₂ on graphitic carbon nitride for enhanced photocatalytic and electrochemical hydrogen evolutions. <i>Applied Catalysis B: Environmental</i> , 2018, 239, 334-344.	20.2	154
89	Halogen element modified titanium dioxide for visible light photocatalysis. <i>Chemical Engineering Journal</i> , 2010, 162, 437-447.	12.7	153
90	Magnetic Fe ₃ O ₄ /carbon sphere/cobalt composites for catalytic oxidation of phenol solutions with sulfate radicals. <i>Chemical Engineering Journal</i> , 2014, 245, 1-9.	12.7	153

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91	One-pot synthesis of N-doped graphene for metal-free advanced oxidation processes. Carbon, 2016, 102, 279-287.	10.3	148
92	Co ₃ O ₄ nanocrystals with predominantly exposed facets: synthesis, environmental and energy applications. Journal of Materials Chemistry A, 2013, 1, 14427.	10.3	147
93	State feedback controller design of networked control systems with interval time-varying delay and nonlinearity. International Journal of Robust and Nonlinear Control, 2008, 18, 1285-1301.	3.7	143
94	Adsorption and heterogeneous advanced oxidation of phenolic contaminants using Fe loaded mesoporous SBA-15 and H ₂ O ₂ . Chemical Engineering Journal, 2010, 164, 255-260.	12.7	143
95	Physical and chemical activation of reduced graphene oxide for enhanced adsorption and catalytic oxidation. Nanoscale, 2014, 6, 766-771.	5.6	143
96	Facile synthesis of carbon-doped mesoporous anatase TiO ₂ for the enhanced visible-light driven photocatalysis. Chemical Communications, 2014, 50, 13971-13974.	4.1	143
97	Design and engineering heterojunctions for the photoelectrochemical monitoring of environmental pollutants: A review. Applied Catalysis B: Environmental, 2019, 248, 405-422.	20.2	141
98	Nanocarbon-Based Catalytic Ozonation for Aqueous Oxidation: Engineering Defects for Active Sites and Tunable Reaction Pathways. ACS Catalysis, 2020, 10, 13383-13414.	11.2	141
99	One-pot hydrothermal synthesis of ZnO-reduced graphene oxide composites using Zn powders for enhanced photocatalysis. Chemical Engineering Journal, 2013, 229, 533-539.	12.7	137
100	Oxygen Vacancies in Shape Controlled Cu ₂ O/Reduced Graphene Oxide/In ₂ O ₃ Hybrid for Promoted Photocatalytic Water Oxidation and Degradation of Environmental Pollutants. ACS Applied Materials & Interfaces, 2017, 9, 11678-11688.	8.0	137
101	Î±-MnO ₂ activation of peroxymonosulfate for catalytic phenol degradation in aqueous solutions. Catalysis Communications, 2012, 26, 144-148.	3.3	136
102	Advances in Zeolite Imidazolate Frameworks (ZIFs) Derived Bifunctional Oxygen Electrocatalysts and Their Application in Zinc-Air Batteries. Advanced Energy Materials, 2021, 11, 2100514.	19.5	132
103	Monodisperse Co ₃ O ₄ quantum dots on porous carbon nitride nanosheets for enhanced visible-light-driven water oxidation. Applied Catalysis B: Environmental, 2018, 223, 2-9.	20.2	130
104	Progress and Prospects in Symmetrical Solid Oxide Fuel Cells with Two Identical Electrodes. Advanced Energy Materials, 2015, 5, 1500188.	19.5	128
105	Tailored synthesis of active reduced graphene oxides from waste graphite: Structural defects and pollutant-dependent reactive radicals in aqueous organics decontamination. Applied Catalysis B: Environmental, 2018, 229, 71-80.	20.2	128
106	Nitrogen defects/boron dopants engineered tubular carbon nitride for efficient tetracycline hydrochloride photodegradation and hydrogen evolution. Applied Catalysis B: Environmental, 2022, 303, 120932.	20.2	127
107	SrCo _{0.9} Ti _{0.1} O ₃ as a New Electrocatalyst for the Oxygen Evolution Reaction in Alkaline Electrolyte with Stable Performance. ACS Applied Materials & Interfaces, 2015, 7, 17663-17670.	8.0	125
108	Improved activity of W-modified MnO-TiO ₂ catalysts for the selective catalytic reduction of NO with NH ₃ . Chemical Engineering Journal, 2016, 288, 216-222.	12.7	123

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109	Improved separation and antifouling performance of PVA thin film nanocomposite membranes incorporated with carboxylated TiO ₂ nanoparticles. <i>Journal of Membrane Science</i> , 2015, 485, 48-59.	8.2	121
110	Metal-free activation of persulfate by cubic mesoporous carbons for catalytic oxidation via radical and nonradical processes. <i>Catalysis Today</i> , 2018, 307, 140-146.	4.4	121
111	Light intensity distribution in heterogenous photocatalytic reactors. <i>Asia-Pacific Journal of Chemical Engineering</i> , 2008, 3, 171-201.	1.5	118
112	Boosting Oxygen Reduction Reaction Activity of Palladium by Stabilizing Its Unusual Oxidation States in Perovskite. <i>Chemistry of Materials</i> , 2015, 27, 3048-3054.	6.7	117
113	Oxygen functional groups in graphitic carbon nitride for enhanced photocatalysis. <i>Journal of Colloid and Interface Science</i> , 2016, 468, 176-182.	9.4	117
114	Interfacial-engineered cobalt@carbon hybrids for synergistically boosted evolution of sulfate radicals toward green oxidation. <i>Applied Catalysis B: Environmental</i> , 2019, 256, 117795.	20.2	117
115	One-pot synthesis of binary metal organic frameworks (HKUST-1 and UiO-66) for enhanced adsorptive removal of water contaminants. <i>Journal of Colloid and Interface Science</i> , 2017, 490, 685-694.	9.4	116
116	Sustainable redox processes induced by peroxymonosulfate and metal doping on amorphous manganese dioxide for nonradical degradation of water contaminants. <i>Applied Catalysis B: Environmental</i> , 2021, 286, 119903.	20.2	115
117	Photocatalytic degradation of 4-chlorophenol with combustion synthesized TiO ₂ under visible light irradiation. <i>Chemical Engineering Journal</i> , 2007, 128, 127-133.	12.7	113
118	Artificial Intelligence techniques applied as estimator in chemical process systems – A literature survey. <i>Expert Systems With Applications</i> , 2015, 42, 5915-5931.	7.6	113
119	Oxygen Vacancy-rich Porous Co ₃ O ₄ Nanosheets toward Boosted NO Reduction by CO and CO Oxidation: Insights into the Structure–Activity Relationship and Performance Enhancement Mechanism. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 41988-41999.	8.0	113
120	Coal fly ash supported Co ₃ O ₄ catalysts for phenol degradation using peroxymonosulfate. <i>RSC Advances</i> , 2012, 2, 5645.	3.6	112
121	Research Advances in the Synthesis of Nanocarbon-Based Photocatalysts and Their Applications for Photocatalytic Conversion of Carbon Dioxide to Hydrocarbon Fuels. <i>Energy & Fuels</i> , 2014, 28, 22-36.	5.1	112
122	Activated carbons as green and effective catalysts for generation of reactive radicals in degradation of aqueous phenol. <i>RSC Advances</i> , 2013, 3, 21905.	3.6	111
123	Fundamental Advances in Biomass Autothermal/Oxidative Pyrolysis: A Review. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 11888-11905.	6.7	111
124	Photocatalytic generation of sulphate and hydroxyl radicals using zinc oxide under low-power UV to oxidise phenolic contaminants in wastewater. <i>Catalysis Today</i> , 2010, 157, 410-414.	4.4	110
125	Adsorption of CH ₄ and CO ₂ on Zr-metal organic frameworks. <i>Journal of Colloid and Interface Science</i> , 2012, 366, 120-124.	9.4	110
126	Unzipping carbon nanotubes to nanoribbons for revealing the mechanism of nonradical oxidation by carbocatalysis. <i>Applied Catalysis B: Environmental</i> , 2020, 276, 119146.	20.2	108

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127	BaNb _{0.05} Fe _{0.95} O ₃ as a new oxygen reduction electrocatalyst for intermediate temperature solid oxide fuel cells. <i>Journal of Materials Chemistry A</i> , 2013, 1, 9781.	10.3	107
128	Photocatalytic oxidation of phenolic compounds using zinc oxide and sulphate radicals under artificial solar light. <i>Separation and Purification Technology</i> , 2010, 70, 338-344.	7.9	104
129	ETBE Synthesis via Reactive Distillation. 1. Steady-State Simulation and Design Aspects. <i>Industrial & Engineering Chemistry Research</i> , 1997, 36, 1855-1869.	3.7	103
130	UV-assisted construction of 3D hierarchical rGO/Bi ₂ MoO ₆ composites for enhanced photocatalytic water oxidation. <i>Chemical Engineering Journal</i> , 2017, 313, 1447-1453.	12.7	102
131	Design of Perovskite Oxides as Anion-Intercalation-Type Electrodes for Supercapacitors: Cation Leaching Effect. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 23774-23783.	8.0	101
132	Visible-light-driven TiO ₂ catalysts doped with low-concentration nitrogen species. <i>Solar Energy Materials and Solar Cells</i> , 2008, 92, 76-83.	6.2	100
133	Graphitic Carbon Nitride-Based Z-Scheme Structure for Photocatalytic CO ₂ Reduction. <i>Energy & Fuels</i> , 2021, 35, 7-24.	5.1	100
134	CFD simulation of solid-liquid stirred tanks. <i>Advanced Powder Technology</i> , 2012, 23, 445-453.	4.1	99
135	Effects of amino functionality on uptake of CO ₂ , CH ₄ and selectivity of CO ₂ /CH ₄ on titanium based MOFs. <i>Fuel</i> , 2015, 160, 318-327.	6.4	99
136	Highly Defective Layered Double Perovskite Oxide for Efficient Energy Storage via Reversible Pseudocapacitive Oxygen Anion Intercalation. <i>Advanced Energy Materials</i> , 2018, 8, 1702604.	19.5	99
137	Preparation of AgInS ₂ /TiO ₂ composites for enhanced photocatalytic degradation of gaseous o-dichlorobenzene under visible light. <i>Applied Catalysis B: Environmental</i> , 2016, 185, 1-10.	20.2	98
138	Template-free synthesis of N-doped carbon with pillared-layered pores as bifunctional materials for supercapacitor and environmental applications. <i>Carbon</i> , 2017, 118, 98-105.	10.3	98
139	Mini-Review on Char Catalysts for Tar Reforming during Biomass Gasification: The Importance of Char Structure. <i>Energy & Fuels</i> , 2020, 34, 1219-1229.	5.1	98
140	Green synthesis of mesoporous ZnFe ₂ O ₄ /C composite microspheres as superior anode materials for lithium-ion batteries. <i>Journal of Power Sources</i> , 2014, 258, 305-313.	7.8	97
141	Construction of p-n heterojunction Bi ₂ O ₃ /BiVO ₄ nanocomposite with improved photoinduced charge transfer property and enhanced activity in degradation of ortho-dichlorobenzene. <i>Applied Catalysis B: Environmental</i> , 2017, 219, 259-268.	20.2	97
142	Submicron sized water-stable metal organic framework (bio-MOF-11) for catalytic degradation of pharmaceuticals and personal care products. <i>Chemosphere</i> , 2018, 196, 105-114.	8.2	96
143	Synthesis of Co oxide doped carbon aerogel catalyst and catalytic performance in heterogeneous oxidation of phenol in water. <i>Chemical Engineering Journal</i> , 2011, 174, 376-382.	12.7	95
144	Functional Carbon Nitride Materials in Fenton-Like Catalysis for Environmental Remediation. <i>Advanced Functional Materials</i> , 2022, 32, .	14.9	93

#	ARTICLE	IF	CITATIONS
145	Red mud and fly ash supported Co catalysts for phenol oxidation. <i>Catalysis Today</i> , 2012, 190, 68-72.	4.4	92
146	Structural and oxygen-transport studies of double perovskites $\text{PrBa}_{1-x}\text{Co}_2\text{O}_{5+\delta}$ ($x = 0.00, 0.05, \text{ and } 0.10$) toward their application as superior oxygen reduction electrodes. <i>Journal of Materials Chemistry A</i> , 2014, 2, 20520-20529.	10.3	92
147	Novel two-dimensional crystalline carbon nitrides beyond $\text{g-C}_3\text{N}_4$: structure and applications. <i>Journal of Materials Chemistry A</i> , 2021, 9, 17-33.	10.3	92
148	FePO_4 based single chamber air-cathode microbial fuel cell for online monitoring levofloxacin. <i>Biosensors and Bioelectronics</i> , 2017, 91, 367-373.	10.1	91
149	Visible light responsive titania photocatalysts codoped by nitrogen and metal (Fe, Ni, Ag, or Pt) for remediation of aqueous pollutants. <i>Chemical Engineering Journal</i> , 2013, 231, 18-25.	12.7	89
150	The role of copper species on $\text{Cu}/\text{Al}_2\text{O}_3$ catalysts for $\text{NH}_3\text{-SCO}$ reaction. <i>Applied Surface Science</i> , 2012, 258, 3738-3743.	6.1	86
151	Advanced Symmetric Solid Oxide Fuel Cell with an Infiltrated K_2NiF_4 -Type La_2NiO_4 Electrode. <i>Energy & Fuels</i> , 2014, 28, 356-362.	5.1	86
152	Metal-free catalytic ozonation on surface-engineered graphene: Microwave reduction and heteroatom doping. <i>Chemical Engineering Journal</i> , 2019, 355, 118-129.	12.7	86
153	sp^2/sp^3 Framework from Diamond Nanocrystals: A Key Bridge of Carbonaceous Structure to Carbocatalysis. <i>ACS Catalysis</i> , 2019, 9, 7494-7519.	11.2	86
154	Improved Corrosion Resistance on Selective Laser Melting Produced Ti-5Cu Alloy after Heat Treatment. <i>ACS Biomaterials Science and Engineering</i> , 2018, 4, 2633-2642.	5.2	85
155	Magnetically steerable iron oxides-manganese dioxide core-shell micromotors for organic and microplastic removals. <i>Journal of Colloid and Interface Science</i> , 2021, 588, 510-521.	9.4	85
156	Titanate supported cobalt catalysts for photochemical oxidation of phenol under visible light irradiations. <i>Separation and Purification Technology</i> , 2011, 80, 626-634.	7.9	84
157	Ultra-sustainable $\text{Fe}_{78}\text{Si}_{9}\text{B}_{13}$ metallic glass as a catalyst for activation of persulfate on methylene blue degradation under UV-Vis light. <i>Scientific Reports</i> , 2016, 6, 38520.	3.3	84
158	A CFD-based model of a planar SOFC for anode flow field design. <i>International Journal of Hydrogen Energy</i> , 2009, 34, 8998-9006.	7.1	83
159	Facile synthesis of tube-shaped Mn-Ni-Ti solid solution and preferable Langmuir-Hinshelwood mechanism for selective catalytic reduction of NO by NH_3 . <i>Applied Catalysis A: General</i> , 2018, 549, 289-301.	4.3	83
160	Flower-like Cobalt Hydroxide/Oxide on Graphitic Carbon Nitride for Visible-Light-Driven Water Oxidation. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 35203-35212.	8.0	82
161	Perovskite materials in energy storage and conversion. <i>Asia-Pacific Journal of Chemical Engineering</i> , 2016, 11, 338-369.	1.5	81
162	Adsorption of cerium (III) by HKUST-1 metal-organic framework from aqueous solution. <i>Journal of Colloid and Interface Science</i> , 2019, 542, 421-428.	9.4	81

#	ARTICLE	IF	CITATIONS
163	Photochemical degradation of phenol solutions on Co ₃ O ₄ nanorods with sulfate radicals. <i>Catalysis Today</i> , 2015, 258, 576-584.	4.4	80
164	Nano La _{0.6} Ca _{0.4} Fe _{0.8} Ni _{0.2} O ₃ decorated porous doped ceria as a novel cobalt-free electrode for asymmetric solid oxide fuel cells. <i>Journal of Materials Chemistry A</i> , 2014, 2, 19526-19535.	10.3	79
165	Quantum-sized BiVO ₄ modified TiO ₂ microflower composite heterostructures: efficient production of hydroxyl radicals towards visible light-driven degradation of gaseous toluene. <i>Journal of Materials Chemistry A</i> , 2015, 3, 21655-21663.	10.3	79
166	Photocatalysis of C, N-doped ZnO derived from ZIF-8 for dye degradation and water oxidation. <i>RSC Advances</i> , 2016, 6, 95903-95909.	3.6	79
167	Heterostructured WO ₃ @CoWO ₄ bilayer nanosheets for enhanced visible-light photo, electro and photoelectro-chemical oxidation of water. <i>Journal of Materials Chemistry A</i> , 2018, 6, 6265-6272.	10.3	79
168	Room-light-induced indoor air purification using an efficient Pt/N-TiO ₂ photocatalyst. <i>Applied Catalysis B: Environmental</i> , 2011, 108-109, 127-133.	20.2	78
169	Catalysis of a Single Transition Metal Site for Water Oxidation: From Mononuclear Molecules to Single Atoms. <i>Advanced Materials</i> , 2020, 32, e1904037.	21.0	78
170	Superior performance of FeVO ₄ @CeO ₂ uniform core-shell nanostructures in heterogeneous Fenton-sonophotocatalytic degradation of 4-nitrophenol. <i>Journal of Hazardous Materials</i> , 2020, 382, 121059.	12.4	77
171	Technical and Energy Performance of an Advanced, Aqueous Ammonia-Based CO ₂ Capture Technology for a 500 MW Coal-Fired Power Station. <i>Environmental Science & Technology</i> , 2015, 49, 10243-10252.	10.0	76
172	Egg-shaped core/shell Mn ₂ O ₃ @MnO ₂ as heterogeneous catalysts for decomposition of phenolics in aqueous solutions. <i>Chemosphere</i> , 2016, 159, 351-358.	8.2	76
173	Temperature dependent photocatalysis of g-C ₃ N ₄ , TiO ₂ and ZnO: Differences in photoactive mechanism. <i>Journal of Colloid and Interface Science</i> , 2018, 532, 321-330.	9.4	76
174	A 3D porous architecture composed of TiO ₂ nanotubes connected with a carbon nanofiber matrix for fast energy storage. <i>Journal of Materials Chemistry A</i> , 2013, 1, 12310.	10.3	75
175	Novel polyoxometalate@g-C ₃ N ₄ hybrid photocatalysts for degradation of dyes and phenolics. <i>Journal of Colloid and Interface Science</i> , 2015, 456, 15-21.	9.4	75
176	Visible-light-driven sonophotocatalysis and peroxymonosulfate activation over 3D urchin-like MoS ₂ /C nanoparticles for accelerating levofloxacin elimination: Optimization and kinetic study. <i>Chemical Engineering Journal</i> , 2019, 378, 122039.	12.7	75
177	Resemblance in Corrosion Behavior of Selective Laser Melted and Traditional Monolithic Ti-24Nb-4Zr-8Sn Alloy. <i>ACS Biomaterials Science and Engineering</i> , 2019, 5, 1141-1149.	5.2	75
178	Kinetics and mechanism of synergistic adsorption and persulfate activation by N-doped porous carbon for antibiotics removals in single and binary solutions. <i>Journal of Hazardous Materials</i> , 2022, 423, 127083.	12.4	74
179	Metal-free melem/g-C ₃ N ₄ hybrid photocatalysts for water treatment. <i>Journal of Colloid and Interface Science</i> , 2016, 464, 10-17.	9.4	73
180	Effects of -NO ₂ and -NH ₂ functional groups in mixed-linker Zr-based MOFs on gas adsorption of CO ₂ and CH ₄ . <i>Progress in Natural Science: Materials International</i> , 2018, 28, 160-167.	4.4	72

#	ARTICLE	IF	CITATIONS
181	Cobalt@nitrogen-doped bamboo-structured carbon nanotube to boost photocatalytic hydrogen evolution on carbon nitride. <i>Applied Catalysis B: Environmental</i> , 2019, 254, 443-451.	20.2	72
182	Fabrication of $\text{Fe}_2\text{O}_3/\text{In}_2\text{O}_3$ composite hollow microspheres: A novel hybrid photocatalyst for toluene degradation under visible light. <i>Journal of Colloid and Interface Science</i> , 2015, 457, 18-26.	9.4	71
183	Preparation of a p-n heterojunction $\text{BiFeO}_3/\text{TiO}_2$ photocatalyst with a core-shell structure for visible-light photocatalytic degradation. <i>Chinese Journal of Catalysis</i> , 2017, 38, 1052-1062.	14.0	70
184	Metal-free graphene-carbon nitride hybrids for photodegradation of organic pollutants in water. <i>Catalysis Today</i> , 2015, 258, 668-675.	4.4	69
185	Hierarchical shape-controlled mixed-valence calcium manganites for catalytic ozonation of aqueous phenolic compounds. <i>Catalysis Science and Technology</i> , 2016, 6, 2918-2929.	4.1	69
186	B-Site Cation-Ordered Double-Perovskite Oxide as an Outstanding Electrode Material for Supercapacitive Energy Storage Based on the Anion Intercalation Mechanism. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 9415-9423.	8.0	69
187	A novel CuTi-containing catalyst derived from hydrotalcite-like compounds for selective catalytic reduction of NO with C_3H_6 under lean-burn conditions. <i>Journal of Catalysis</i> , 2014, 309, 268-279.	6.2	68
188	Bifunctionalized Metal Organic Frameworks, $\text{UiO-66-NO}_2\text{-N}$ ($\text{N} = -\text{NH}_2$), $\text{TiO}_2/\text{UiO-66-NO}_2\text{-N}$ and $\text{TiO}_2/\text{UiO-66-NO}_2\text{-N}$. <i>Journal of Chemical & Engineering Data</i> , 2015, 60, 2152-2161.	1.9	67
189	Insight into the mechanism of photocatalytic degradation of gaseous o-dichlorobenzene over flower-type V_2O_5 hollow spheres. <i>Journal of Materials Chemistry A</i> , 2015, 3, 15163-15170.	10.3	67
190	Size dependence of uniformed carbon spheres in promoting graphitic carbon nitride toward enhanced photocatalysis. <i>Applied Catalysis B: Environmental</i> , 2017, 204, 358-364.	20.2	67
191	Origins of boron catalysis in peroxymonosulfate activation and advanced oxidation. <i>Journal of Materials Chemistry A</i> , 2019, 7, 23904-23913.	10.3	67
192	Biomass-derived functional porous carbons for adsorption and catalytic degradation of binary micropollutants in water. <i>Journal of Hazardous Materials</i> , 2020, 389, 121881.	12.4	67
193	Two-point control of a reactive distillation column for composition and conversion. <i>Journal of Process Control</i> , 1999, 9, 19-31.	3.3	66
194	Ag_2MoO_4 nanoparticles encapsulated in g-C $_3\text{N}_4$ for sunlight photodegradation of pollutants. <i>Catalysis Today</i> , 2018, 315, 205-212.	4.4	66
195	Single Pd atoms synergistically manipulating charge polarization and active sites for simultaneously photocatalytic hydrogen production and oxidation of benzylamine. <i>Nano Energy</i> , 2022, 95, 107045.	16.0	66
196	A Modified Kennard-Stone Algorithm for Optimal Division of Data for Developing Artificial Neural Network Models. <i>Chemical Product and Process Modeling</i> , 2012, 7, .	0.9	64
197	Rate-based modelling of combined SO_2 removal and NH_3 recycling integrated with an aqueous NH_3 -based CO_2 capture process. <i>Applied Energy</i> , 2015, 148, 66-77.	10.1	64
198	Quasi-MOF derivative-based electrode for efficient electro-Fenton oxidation. <i>Journal of Hazardous Materials</i> , 2021, 401, 123423.	12.4	63

#	ARTICLE	IF	CITATIONS
199	ETBE Synthesis via Reactive Distillation. 2. Dynamic Simulation and Control Aspects. <i>Industrial & Engineering Chemistry Research</i> , 1997, 36, 1870-1881.	3.7	62
200	Enhanced performance of g-C ₃ N ₄ /TiO ₂ photocatalysts for degradation of organic pollutants under visible light. <i>Chinese Journal of Chemical Engineering</i> , 2015, 23, 1326-1334.	3.5	62
201	Size-Tailored Porous Spheres of Manganese Oxides for Catalytic Oxidation via Peroxymonosulfate Activation. <i>Journal of Physical Chemistry C</i> , 2016, 120, 16871-16878.	3.1	62
202	Functionalized UiO-66 by Single and Binary (OH) ₂ and NO ₂ Groups for Uptake of CO ₂ and CH ₄ . <i>Industrial & Engineering Chemistry Research</i> , 2016, 55, 7924-7932.	3.7	61
203	Synthesis of magnetic core/shell carbon nanosphere supported manganese catalysts for oxidation of organics in water by peroxymonosulfate. <i>Journal of Colloid and Interface Science</i> , 2014, 433, 68-75.	9.4	60
204	Hydrodynamics of an FCC riser using energy minimization multiscale drag model. <i>Chemical Engineering Journal</i> , 2011, 168, 812-821.	12.7	59
205	Heterogeneous activation of peroxymonosulphate by supported ruthenium catalysts for phenol degradation in water. <i>Journal of Hazardous Materials</i> , 2012, 215-216, 183-190.	12.4	59
206	Nickel-Based Anode with Water Storage Capability to Mitigate Carbon Deposition for Direct Ethanol Solid Oxide Fuel Cells. <i>ChemSusChem</i> , 2014, 7, 1719-1728.	6.8	59
207	Self-assembled mesoporous TiO ₂ /carbon nanotube composite with a three-dimensional conducting nanonetwork as a high-rate anode material for lithium-ion battery. <i>Journal of Power Sources</i> , 2014, 254, 18-28.	7.8	59
208	Superstructures with Atomic-Level Arranged Perovskite and Oxide Layers for Advanced Oxidation with an Enhanced Non-Free Radical Pathway. <i>ACS Sustainable Chemistry and Engineering</i> , 2022, 10, 1899-1909.	6.7	59
209	Supported cobalt catalysts by one-pot aqueous combustion synthesis for catalytic phenol degradation. <i>Journal of Colloid and Interface Science</i> , 2013, 394, 394-400.	9.4	58
210	Combustion-derived nanocrystalline LiMn ₂ O ₄ as a promising cathode material for lithium-ion batteries. <i>Journal of Power Sources</i> , 2015, 275, 38-44.	7.8	58
211	CFD simulation of solid-liquid stirred tanks for low to dense solid loading systems. <i>Particuology</i> , 2016, 29, 16-33.	3.6	58
212	Mechanism of Nitrogen-Concentration Dependence on pH Value: Experimental and Theoretical Studies on Nitrogen-Doped TiO ₂ . <i>Journal of Physical Chemistry C</i> , 2008, 112, 13304-13309.	3.1	56
213	One-step synthesis of flour-derived functional nanocarbons with hierarchical pores for versatile environmental applications. <i>Chemical Engineering Journal</i> , 2018, 347, 432-439.	12.7	56
214	Sustainability assessment of symbiotic processes for the reuse of phosphogypsum. <i>Journal of Cleaner Production</i> , 2018, 188, 497-507.	9.3	56
215	Hierarchically porous hydrangea-like In ₂ S ₃ /In ₂ O ₃ heterostructures for enhanced photocatalytic hydrogen evolution. <i>Journal of Colloid and Interface Science</i> , 2021, 587, 876-882.	9.4	56
216	Heterogeneous electro-Fenton catalysis with self-supporting CFP@MnO ₂ -Fe ₃ O ₄ /C cathode for shale gas fracturing flowback wastewater. <i>Journal of Hazardous Materials</i> , 2021, 412, 125208.	12.4	56

#	ARTICLE	IF	CITATIONS
217	Preparation of cobalt/carbon-xerogel for heterogeneous oxidation of phenol. <i>Catalysis Today</i> , 2012, 186, 63-68.	4.4	55
218	Amorphous Vâ€“Oâ€“C composite nanofibers electrospun from solution precursors as binder- and conductive additive-free electrodes for supercapacitors with outstanding performance. <i>Nanoscale</i> , 2013, 5, 12589.	5.6	55
219	Effect of surface Lewis acidity on selective catalytic reduction of NO by C ₃ H ₆ over calcined hydrotalcite. <i>Applied Catalysis A: General</i> , 2013, 451, 176-183.	4.3	55
220	Integrated oxygen-doping and dye sensitization of graphitic carbon nitride for enhanced visible light photodegradation. <i>Journal of Colloid and Interface Science</i> , 2016, 476, 193-199.	9.4	55
221	Impregnated LaCo _{0.3} Fe _{0.67} Pd _{0.03} O _{3-Î} as a promising electrocatalyst for â€œsymmetricalâ€• intermediate-temperature solid oxide fuel cells. <i>Journal of Power Sources</i> , 2016, 306, 92-99.	7.8	54
222	Catalytic degradation of antibiotics by metal-free catalysis over nitrogen-doped graphene. <i>Catalysis Today</i> , 2020, 357, 341-349.	4.4	54
223	Tin-doped perovskite mixed conducting membrane for efficient air separation. <i>Journal of Materials Chemistry A</i> , 2014, 2, 9666-9674.	10.3	53
224	Polydopamine-assisted decoration of TiO ₂ nanotube arrays with enzyme to construct a novel photoelectrochemical sensing platform. <i>Sensors and Actuators B: Chemical</i> , 2018, 255, 133-139.	7.8	53
225	Piezotronic effect and hierarchical Z-scheme heterostructure stimulated photocatalytic H ₂ evolution integrated with C-N coupling of benzylamine. <i>Nano Energy</i> , 2021, 89, 106349.	16.0	53
226	Structure, sinterability, chemical stability and conductivity of proton-conducting BaZr _{0.6} M _{0.2} Y _{0.2} O _{3-Î} electrolyte membranes: The effect of the M dopant. <i>Journal of Membrane Science</i> , 2014, 467, 100-108.	8.2	52
227	Rationally Tailored Redox Properties of a Mesoporous Mnâ€“Fe Spinel Nanostructure for Boosting Low-Temperature Selective Catalytic Reduction of NO _x with NH ₃ . <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 17727-17739.	6.7	52
228	A Porous Nano-Micro-Composite as a High-Performance Bi-Functional Air Electrode with Remarkable Stability for Rechargeable Zincâ€“Air Batteries. <i>Nano-Micro Letters</i> , 2020, 12, 130.	27.0	52
229	Crystallinity and valence states of manganese oxides in Fenton-like polymerization of phenolic pollutants for carbon recycling against degradation. <i>Applied Catalysis B: Environmental</i> , 2022, 315, 121593.	20.2	52
230	Combination of adsorption, photochemical and photocatalytic degradation of phenol solution over supported zinc oxide: Effects of support and sulphate oxidant. <i>Chemical Engineering Journal</i> , 2011, 170, 270-277.	12.7	51
231	Green Synthesis of Carbon Quantum Dots for Sensitized Solar Cells. <i>ChemPhotoChem</i> , 2017, 1, 116-119.	3.0	51
232	Pyrolysis of palm kernel shell with internal recycling of heavy oil. <i>Bioresource Technology</i> , 2019, 272, 77-82.	9.6	51
233	Photocatalytic decomposition of 4-chlorophenol over an efficient N-doped TiO ₂ under sunlight irradiation. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2009, 201, 15-22.	3.9	50
234	BaCo _{0.6} Fe _{0.3} Sn _{0.1} O _{3-Î} perovskite as a new superior oxygen reduction electrode for intermediate-to-low temperature solid oxide fuel cells. <i>Journal of Materials Chemistry A</i> , 2014, 2, 15078.	10.3	49

#	ARTICLE	IF	CITATIONS
235	Dual-metal zeolitic imidazolate frameworks and their derived nanoporous carbons for multiple environmental and electrochemical applications. <i>Chemical Engineering Journal</i> , 2018, 351, 641-649.	12.7	49
236	Photo-driven bioelectrochemical photocathode with polydopamine-coated TiO ₂ nanotubes for self-sustaining MoS ₂ synthesis to facilitate hydrogen evolution. <i>Journal of Power Sources</i> , 2019, 413, 310-317.	7.8	49
237	Surface engineering of hollow carbon nitride microspheres for efficient photoredox catalysis. <i>Chemical Engineering Journal</i> , 2020, 381, 122593.	12.7	49
238	Freeze-dried macroporous foam prepared from chitosan/xanthan gum/montmorillonite nanocomposites. <i>Chemical Engineering Research and Design</i> , 2011, 89, 2356-2364.	5.6	48
239	Atomically dispersed cobalt on graphitic carbon nitride as a robust catalyst for selective oxidation of ethylbenzene by peroxymonosulfate. <i>Journal of Materials Chemistry A</i> , 2021, 9, 3029-3035.	10.3	48
240	Cobalt-free SrFe _{0.9} Ti _{0.1} O _{3-δ} as a high-performance electrode material for oxygen reduction reaction on doped ceria electrolyte with favorable CO ₂ tolerance. <i>Journal of the European Ceramic Society</i> , 2015, 35, 2531-2539.	5.7	47
241	Cobalt-free Ba _{0.5} Sr _{0.5} Fe _{0.8} Cu _{0.1} Ti _{0.1} O _{3-δ} as a bi-functional electrode material for solid oxide fuel cells. <i>Journal of Power Sources</i> , 2015, 298, 184-192.	7.8	47
242	Spontaneous Formation of Noble and Heavy Metal-Free Alloyed Semiconductor Quantum Rods for Efficient Photocatalysis. <i>Advanced Materials</i> , 2018, 30, e1803351.	21.0	47
243	Cobalt Single Atoms Embedded in Nitrogen-Doped Graphene for Selective Oxidation of Benzyl Alcohol by Activated Peroxymonosulfate. <i>Small</i> , 2021, 17, e2004579.	10.0	47
244	Theoretical and experimental study of NH ₃ suppression by addition of Me(II) ions (Ni, Cu and Zn) in an ammonia-based CO ₂ capture process. <i>International Journal of Greenhouse Gas Control</i> , 2014, 24, 54-63.	4.6	46
245	Enhanced electrochemical performance, water storage capability and coking resistance of a Ni+BaZr _{0.1} Ce _{0.7} Y _{0.1} Yb _{0.1} O _{3-δ} anode for solid oxide fuel cells operating on ethanol. <i>Chemical Engineering Science</i> , 2015, 126, 22-31.	3.8	46
246	A case study: Application of energy and exergy analysis for enhancing the process efficiency of a three stage propane pre-cooling cycle of the cascade LNG process. <i>Journal of Natural Gas Science and Engineering</i> , 2016, 29, 125-133.	4.4	46
247	Heterogeneous Catalytic Oxidation of Aqueous Phenol on Red Mud-Supported Cobalt Catalysts. <i>Industrial & Engineering Chemistry Research</i> , 2012, 51, 15351-15359.	3.7	45
248	Insights into the Adsorption of VOCs on a Cobalt-Adeninate Metal-Organic Framework (Bio-MOF-11). <i>ACS Omega</i> , 2020, 5, 15402-15408.	3.5	45
249	Piezotronic effect and oxygen vacancies boosted photocatalysis C-N coupling of benzylamine. <i>Nano Energy</i> , 2021, 83, 105831.	16.0	45
250	Enzyme encapsulation in freeze-dried bionanocomposites prepared from chitosan and xanthan gum blend. <i>Materials Chemistry and Physics</i> , 2011, 129, 488-494.	4.0	44
251	CFD model of a methane fuelled single cell SOFC stack for analysing the combined effects of macro/micro structural parameters. <i>Journal of Power Sources</i> , 2013, 234, 180-196.	7.8	44
252	3D core-shell architecture from infiltration and beneficial reactive sintering as highly efficient and thermally stable oxygen reduction electrode. <i>Journal of Materials Chemistry A</i> , 2014, 2, 1284-1293.	10.3	44

#	ARTICLE	IF	CITATIONS
253	A top-down strategy for the synthesis of mesoporous Ba _{0.5} Sr _{0.5} Co _{0.8} Fe _{0.2} O ₃ as a cathode precursor for buffer layer-free deposition on stabilized zirconia electrolyte with a superior electrochemical performance. <i>Journal of Power Sources</i> , 2015, 274, 1024-1033.	7.8	44
254	Three-Dimensional BiOI/BiOX (X = Cl or Br) Nanohybrids for Enhanced Visible-Light Photocatalytic Activity. <i>Nanomaterials</i> , 2017, 7, 64.	4.1	44
255	Can Water Float on Oil?. <i>Langmuir</i> , 2012, 28, 4609-4613.	3.5	43
256	Solution combustion synthesis of Co oxide-based catalysts for phenol degradation in aqueous solution. <i>Journal of Colloid and Interface Science</i> , 2012, 372, 58-62.	9.4	43
257	One-pot hydrothermal synthesis of Co(OH) ₂ nanoflakes on graphene sheets and their fast catalytic oxidation of phenol in liquid phase. <i>Journal of Colloid and Interface Science</i> , 2013, 402, 230-236.	9.4	43
258	Aluminum oxide as a dual-functional modifier of Ni-based anodes of solid oxide fuel cells for operation on simulated biogas. <i>Journal of Power Sources</i> , 2014, 268, 787-793.	7.8	43
259	General Regulation of Air Flow Distribution Characteristics within Planar Solid Oxide Fuel Cell Stacks. <i>ACS Energy Letters</i> , 2017, 2, 319-326.	17.4	43
260	Nickel in hierarchically structured nitrogen-doped graphene for robust and promoted degradation of antibiotics. <i>Journal of Cleaner Production</i> , 2019, 218, 202-211.	9.3	43
261	Seaweed-Derived Nitrogen-Rich Porous Biomass Carbon as Bifunctional Materials for Effective Electrocatalytic Oxygen Reduction and High-Performance Gaseous Toluene Absorbent. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 5057-5064.	6.7	43
262	Nitrogen-doped Carbon Nanospheres-Modified Graphitic Carbon Nitride with Outstanding Photocatalytic Activity. <i>Nano-Micro Letters</i> , 2020, 12, 24.	27.0	43
263	Heterogeneous activation of peroxymonosulfate by Co-doped Fe ₂ O ₃ nanospheres for degradation of p-hydroxybenzoic acid. <i>Journal of Colloid and Interface Science</i> , 2021, 604, 390-401.	9.4	43
264	Cobalt-free niobium-doped barium ferrite as potential materials of dense ceramic membranes for oxygen separation. <i>Journal of Membrane Science</i> , 2014, 455, 75-82.	8.2	42
265	High-speed graphene@Ag-MnO ₂ micromotors at low peroxide levels. <i>Journal of Colloid and Interface Science</i> , 2018, 528, 271-280.	9.4	42
266	A Hydrogen-Initiated Chemical Epitaxial Growth Strategy for In-Plane Heterostructured Photocatalyst. <i>ACS Nano</i> , 2020, 14, 17505-17514.	14.6	41
267	Enhanced removals of micropollutants in binary organic systems by biomass derived porous carbon/peroxymonosulfate. <i>Journal of Hazardous Materials</i> , 2021, 408, 124459.	12.4	41
268	Aligning potential differences within carbon nitride based photocatalysis for efficient solar energy harvesting. <i>Nano Energy</i> , 2021, 89, 106357.	16.0	41
269	A Carbon-Air Battery for High Power Generation. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 3722-3725.	13.8	40
270	Carbon microspheres supported cobalt catalysts for phenol oxidation with peroxymonosulfate. <i>Chemical Engineering Research and Design</i> , 2015, 101, 15-21.	5.6	40

#	ARTICLE	IF	CITATIONS
271	Heterogeneous activation of peroxymonosulfate by hierarchically porous cobalt/iron bimetallic oxide nanosheets for degradation of phenol solutions. <i>Chemosphere</i> , 2020, 256, 127160.	8.2	40
272	Bifurcation analysis and spatio-temporal patterns of nonlinear oscillations in a delayed neural network with unidirectional coupling. <i>Nonlinearity</i> , 2009, 22, 975-1001.	1.4	39
273	Renewable acetic acid in combination with solid oxide fuel cells for sustainable clean electric power generation. <i>Journal of Materials Chemistry A</i> , 2013, 1, 5620.	10.3	39
274	Construction of Mn _{0.5} Zn _{0.5} Fe ₂ O ₄ modified TiO ₂ nanotube array nanocomposite electrodes and their photoelectrocatalytic performance in the degradation of 2,4-DCP. <i>Journal of Materials Chemistry C</i> , 2015, 3, 6025-6034.	5.5	39
275	Technoeconomic Assessment of an Advanced Aqueous Ammonia-Based Postcombustion Capture Process Integrated with a 650-MW Coal-Fired Power Station. <i>Environmental Science & Technology</i> , 2016, 50, 10746-10755.	10.0	39
276	Enhanced CO ₂ Adsorption and Selectivity of CO ₂ /N ₂ on Amino-MIL-53(Al) Synthesized by Polar Co-solvents. <i>Energy & Fuels</i> , 2018, 32, 4502-4510.	5.1	39
277	Cuprous/Vanadium Sites on MIL-101 for Selective CO Adsorption from Gas Mixtures with Superior Stability. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 11284-11292.	6.7	39
278	Graphitic Carbon Nitride Microtubes for Efficient Photocatalytic Overall Water Splitting: The Morphology Derived Electrical Field Enhancement. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 14386-14396.	6.7	39
279	Application of Biochar Derived From Pyrolysis of Waste Fiberboard on Tetracycline Adsorption in Aqueous Solution. <i>Frontiers in Chemistry</i> , 2019, 7, 943.	3.6	39
280	Extractive distillation for CO ₂ -ethane azeotrope separation. <i>Chemical Engineering and Processing: Process Intensification</i> , 2012, 52, 155-161.	3.6	38
281	A novel bottom-up solvothermal synthesis of carbon nanosheets. <i>Journal of Materials Chemistry A</i> , 2014, 2, 2390.	10.3	38
282	Combined Spectroscopic and Theoretical Approach to Sulfur-Poisoning on Cu-Supported Ti-Zr Mixed Oxide Catalyst in the Selective Catalytic Reduction of NO _x . <i>ACS Catalysis</i> , 2014, 4, 2426-2436.	11.2	38
283	Planar SOFC system modelling and simulation including a 3D stack module. <i>International Journal of Hydrogen Energy</i> , 2016, 41, 2919-2930.	7.1	38
284	Gold nanostars: Benzyltrimethylammonium chloride-assisted synthesis, plasmon tuning, SERS and catalytic activity. <i>Journal of Colloid and Interface Science</i> , 2016, 462, 341-350.	9.4	38
285	A comparative study of metal (Ni, Co, or Mn)-borate catalysts and their photodeposition on rGO/ZnO nanoarrays for photoelectrochemical water splitting. <i>Journal of Materials Chemistry A</i> , 2018, 6, 24149-24156.	10.3	38
286	Enhancing interfacial charge transfer on novel 3D/1D multidimensional MoS ₂ /TiO ₂ heterojunction toward efficient photoelectrocatalytic removal of levofloxacin. <i>Electrochimica Acta</i> , 2019, 295, 810-821.	5.2	38
287	Performance of an anode-supported solid oxide fuel cell with direct-internal reforming of ethanol. <i>International Journal of Hydrogen Energy</i> , 2009, 34, 7780-7788.	7.1	37
288	Simulation of gas-solid flows in riser using energy minimization multiscale model: Effect of cluster diameter correlation. <i>Chemical Engineering Science</i> , 2011, 66, 3291-3300.	3.8	37

#	ARTICLE	IF	CITATIONS
289	Synthesis of Hierarchical TiO ₂ @C ₃ N ₄ Hybrid Microspheres with Enhanced Photocatalytic and Photovoltaic Activities by Maximizing the Synergistic Effect. ChemPhotoChem, 2017, 1, 35-45.	3.0	37
290	Worm-like FeS ₂ /TiO ₂ Nanotubes for Photoelectrocatalytic Reduction of CO ₂ to Methanol under Visible Light. Energy & Fuels, 2018, 32, 4357-4363.	5.1	37
291	Quasi single cobalt sites in nanopores for superior catalytic oxidation of organic pollutants. Environmental Science: Nano, 2018, 5, 2842-2852.	4.3	37
292	Functionalized nitrogen-doped carbon dot-modified yolk-shell ZnFe ₂ O ₄ nanospheres with highly efficient light harvesting and superior catalytic activity. Nanoscale, 2019, 11, 3877-3887.	5.6	37
293	Process Modeling of an Advanced NH ₃ Abatement and Recycling Technology in the Ammonia-Based CO ₂ Capture Process. Environmental Science & Technology, 2014, 48, 7179-7186.	10.0	36
294	Mesoporous carbon with large pores as anode for Na-ion batteries. Science Bulletin, 2014, 59, 2186-2190.	1.7	36
295	Selective adsorption of rare earth ions from aqueous solution on metal-organic framework HKUST-1. Chemical Engineering Journal Advances, 2020, 1, 100009.	5.2	36
296	Acidification and bubble template derived porous g-C ₃ N ₄ for efficient photodegradation and hydrogen evolution. Chinese Chemical Letters, 2020, 31, 2668-2672.	9.0	36
297	Conversion and transformation of N species during pyrolysis of wood-based panels: A review. Environmental Pollution, 2021, 270, 116120.	7.5	36
298	Carbon nitride-based Z-scheme heterojunctions for solar-driven advanced oxidation processes. Journal of Hazardous Materials, 2022, 434, 128866.	12.4	36
299	Pattern-based predictive control for ETBE reactive distillation. Journal of Process Control, 2003, 13, 57-67.	3.3	35
300	A study of growth mechanism of KDP and ADP crystals by means of quantum chemistry. Applied Surface Science, 2008, 254, 4524-4530.	6.1	35
301	The influence of corrosion inhibitors on hydrate formation temperature along the subsea natural gas pipelines. Journal of Petroleum Science and Engineering, 2014, 120, 239-252.	4.2	35
302	Effect of closure models on Eulerian-Eulerian gas-solid flow predictions in riser. Powder Technology, 2015, 269, 247-258.	4.2	35
303	Multi scale and physics models for intermediate and low temperatures H ₂ -solid oxide fuel cells with H ⁺ /e ⁻ /O ₂ mixed conducting properties: Part A, generalized percolation theory for LSCF-SDC-BZCY 3-component cathodes. Journal of Power Sources, 2016, 303, 305-316.	7.8	35
304	Metal-free carbon based air electrodes for Zn-air batteries: Recent advances and perspective. Materials Research Bulletin, 2021, 140, 111315.	5.2	35
305	High performance porous iron oxide-carbon nanotube nanocomposite as an anode material for lithium-ion batteries. Electrochimica Acta, 2016, 212, 179-186.	5.2	34
306	Co@C/CoO _x coupled with N-doped layer-structured carbons for excellent CO ₂ capture and oxygen reduction reaction. Carbon, 2018, 133, 306-315.	10.3	34

#	ARTICLE	IF	CITATIONS
307	Functional carbon nitride materials for water oxidation: from heteroatom doping to interface engineering. <i>Nanoscale</i> , 2020, 12, 6937-6952.	5.6	34
308	Effect of a cluster on gas-solid drag from lattice Boltzmann simulations. <i>Chemical Engineering Science</i> , 2013, 102, 365-372.	3.8	33
309	The influence of impurity ions on the permeation and oxygen reduction properties of Ba _{0.5} Sr _{0.5} Co _{0.8} Fe _{0.2} O _{3-δ} perovskite. <i>Journal of Membrane Science</i> , 2014, 449, 86-96.	8.2	33
310	Ceramic Lithium Ion Conductor to Solve the Anode Coking Problem of Practical Solid Oxide Fuel Cells. <i>ChemSusChem</i> , 2015, 8, 2978-2986.	6.8	33
311	2D Transition Metal Dichalcogenides and Graphene-Based Ternary Composites for Photocatalytic Hydrogen Evolution and Pollutants Degradation. <i>Nanomaterials</i> , 2017, 7, 62.	4.1	33
312	Atomic heterojunction-induced accelerated charge transfer for boosted photocatalytic hydrogen evolution over 1D CdS nanorod/2D ZnIn ₂ S ₄ nanosheet composites. <i>Journal of Colloid and Interface Science</i> , 2021, 604, 500-507.	9.4	33
313	Experimental kinetics studies of seeded batch crystallisation of mono-ammonium phosphate. <i>Advanced Powder Technology</i> , 2010, 21, 392-400.	4.1	32
314	Green fabrication of composite cathode with attractive performance for solid oxide fuel cells through facile inkjet printing. <i>Journal of Power Sources</i> , 2015, 273, 465-471.	7.8	32
315	Improved performance of a symmetrical solid oxide fuel cell by swapping the roles of doped ceria and La _{0.6} Sr _{1.4} MnO _{4+δ} in the electrode. <i>Journal of Power Sources</i> , 2017, 342, 644-651.	7.8	32
316	Solar Photocatalytic Water Oxidation and Purification on ZIF-8-Derived Cd-Ni-ZnO Composites. <i>Energy & Fuels</i> , 2017, 31, 2138-2143.	5.1	32
317	Hematite-based nanomaterials for photocatalytic degradation of pharmaceuticals and personal care products (PPCPs): A short review. <i>Current Opinion in Green and Sustainable Chemistry</i> , 2021, 28, 100447.	5.9	32
318	Model Gain Scheduling Control of an Ethyl tert-Butyl Ether Reactive Distillation Column. <i>Industrial & Engineering Chemistry Research</i> , 2003, 42, 3584-3591.	3.7	31
319	Colouring mechanism of dyed KDP crystal by quantum chemistry. <i>Computational and Theoretical Chemistry</i> , 2007, 810, 7-13.	1.5	31
320	Metal-free hybrids of graphitic carbon nitride and nanodiamonds for photoelectrochemical and photocatalytic applications. <i>Journal of Colloid and Interface Science</i> , 2017, 493, 275-280.	9.4	31
321	Evaluation of fuel diversity in Solid Oxide Fuel Cell system. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 23475-23487.	7.1	31
322	Photocatalytic reforming of biomass for hydrogen production over ZnS nanoparticles modified carbon nitride nanosheets. <i>Journal of Colloid and Interface Science</i> , 2019, 555, 22-30.	9.4	31
323	Graphitic Carbon Nitride Decorated with CoP Nanocrystals for Enhanced Photocatalytic and Photoelectrochemical H ₂ Evolution. <i>Energy & Fuels</i> , 2019, 33, 11663-11676.	5.1	31
324	Functionalized Activated Carbon for Competing Adsorption of Volatile Organic Compounds and Water. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 56510-56518.	8.0	31

#	ARTICLE	IF	CITATIONS
325	Identification and predictive control of a multistage evaporator. <i>Control Engineering Practice</i> , 2010, 18, 1418-1428.	5.5	30
326	Comparative Investigation of Photocatalytic Degradation of Toluene on Nitrogen Doped Ta ₂ O ₅ and Nb ₂ O ₅ Nanoparticles. <i>Industrial & Engineering Chemistry Research</i> , 2013, 52, 3320-3328.	3.7	30
327	Less is more, greener microbial synthesis of silver nanoparticles. <i>Enzyme and Microbial Technology</i> , 2014, 67, 53-58.	3.2	30
328	Efficient removal of organic pollutants by ceramic hollow fibre supported composite catalyst. <i>Sustainable Materials and Technologies</i> , 2019, 20, e00108.	3.3	30
329	Volatiles-Char interactions during biomass pyrolysis: Cleavage of C-C bond in a 5 lignin model dimer by amino-modified graphitized carbon nanotube. <i>Bioresource Technology</i> , 2020, 307, 123192.	9.6	30
330	Nature of Intrinsic Defects in Carbon Materials for Electrochemical Dechlorination of 1,2-Dichloroethane to Ethylene. <i>ACS Catalysis</i> , 2021, 11, 14284-14292.	11.2	30
331	Synthesis, characterisation, and adsorption evaluation of carbon-natural-zeolite composites. <i>Advanced Powder Technology</i> , 2009, 20, 245-250.	4.1	29
332	Simulations of photodegradation of toluene and formaldehyde in a monolith reactor using computational fluid dynamics. <i>AIChE Journal</i> , 2011, 57, 724-734.	3.6	29
333	Synthesis of doped BiNbO ₄ photocatalysts for removal of gaseous volatile organic compounds with artificial sunlight. <i>Chemical Engineering Journal</i> , 2012, 185-186, 328-336.	12.7	29
334	Constrained control of chaos. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2002, 296, 87-90.	2.1	28
335	Photocatalytic oxidation of water and air contaminants with metal doped BiTaO ₄ irradiated with visible light. <i>Catalysis Today</i> , 2012, 192, 203-212.	4.4	28
336	Photocatalytic performances and activities in Ag-doped ZnAl ₂ O ₄ nanorods studied by FTIR spectroscopy. <i>Catalysis Science and Technology</i> , 2013, 3, 788-796.	4.1	28
337	Improvement of catalytic activity over Mn-modified CeZrO catalysts for the selective catalytic reduction of NO with NH ₃ . <i>Journal of Colloid and Interface Science</i> , 2018, 531, 91-97.	9.4	28
338	Synergy of carbocatalytic and heat activation of persulfate for evolution of reactive radicals toward metal-free oxidation. <i>Catalysis Today</i> , 2020, 355, 319-324.	4.4	28
339	Confinement of Ag(I) Sites within MIL-101 for Robust Ethylene/Ethane Separation. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 823-830.	6.7	28
340	Microwave-Assisted Dry and Bi-reforming of Methane over Mo/TiO ₂ (M = Co, Cu) Bimetallic Catalysts. <i>Energy & Fuels</i> , 2020, 34, 7284-7294.	5.1	28
341	Significant performance enhancement of yttrium-doped barium cerate proton conductor as electrolyte for solid oxide fuel cells through a Pd ingress-egress approach. <i>Journal of Power Sources</i> , 2014, 257, 308-318.	7.8	27
342	Synergy of NiO quantum dots and temperature on enhanced photocatalytic and thermophoto hydrogen evolution. <i>Chemical Engineering Journal</i> , 2020, 390, 124634.	12.7	27

#	ARTICLE	IF	CITATIONS
343	Manganese-Based Micro/Nanomotors: Synthesis, Motion, and Applications. <i>Small</i> , 2021, 17, e2100927.	10.0	27
344	Controlling particle size and photoelectrochemical properties of nanostructured WO ₃ with surfactants. <i>Applied Surface Science</i> , 2014, 305, 760-767.	6.1	26
345	A freestanding composite film electrode stacked from hierarchical electrospun SnO ₂ nanorods and graphene sheets for reversible lithium storage. <i>RSC Advances</i> , 2014, 4, 9367-9371.	3.6	26
346	Photocatalytic degradation of gaseous toluene with multiphase Ti x Zr 1â'' x O 2 synthesized via co-precipitation route. <i>Journal of Colloid and Interface Science</i> , 2015, 438, 1-6.	9.4	26
347	Development and validation of a computationally efficient pseudo 3D model for planar SOFC integrated with a heating furnace. <i>Chemical Engineering Journal</i> , 2016, 290, 252-262.	12.7	26
348	Cascade applications of robust MIL-96 metal organic frameworks in environmental remediation: Proof of concept. <i>Chemical Engineering Journal</i> , 2018, 341, 262-271.	12.7	26
349	UVC-assisted photocatalytic degradation of carbamazepine by Nd-doped Sb ₂ O ₃ /TiO ₂ photocatalyst. <i>Journal of Colloid and Interface Science</i> , 2020, 562, 461-469.	9.4	26
350	Unveiling the Promotion Effects of CoO on Low-Temperature NO Reduction with CO over an <i>in-Situ</i> -Established Co ₃ O ₄ CoO Heterostructure. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 6107-6117.	6.7	26
351	Dynamic Simulation of Startup in Ethyltert-Butyl Ether Reactive Distillation with Input Multiplicity. <i>Industrial & Engineering Chemistry Research</i> , 2000, 39, 1950-1954.	3.7	25
352	Predicting hydrate forming pressure of pure alkanes in the presence of inhibitors. <i>Journal of Natural Gas Chemistry</i> , 2008, 17, 249-255.	1.8	25
353	Wet-Chemical Synthesis of InTaO ₄ for Photocatalytic Decomposition of Organic Contaminants in Air and Water with UV-vis Light. <i>Industrial & Engineering Chemistry Research</i> , 2012, 51, 1563-1569.	3.7	25
354	2D Porous graphitic C ₃ N ₄ nanosheets/Ag ₃ PO ₄ nanocomposites for enhanced visible-light photocatalytic degradation of 4-chlorophenol. <i>Journal of Nanoparticle Research</i> , 2014, 16, 1.	1.9	25
355	Multiscale model for solid oxide fuel cell with electrode containing mixed conducting material. <i>AIChE Journal</i> , 2015, 61, 3786-3803.	3.6	25
356	Rational Design of LaNiO ₃ /Carbon Composites as Outstanding Platinum-Free Photocathodes in Dye-Sensitized Solar Cells With Enhanced Catalysis for the Triiodide Reduction Reaction. <i>Solar Rrl</i> , 2017, 1, 1700074.	5.8	25
357	Enhanced photoelectrocatalytic reduction dechlorinations of PCP by Ru-Pd BQDs anchored Titania NAEs composites with double Schottky junctions: First-principles evidence and experimental verifications. <i>Applied Catalysis B: Environmental</i> , 2018, 227, 499-511.	20.2	25
358	New Insight into the Effects of NH ₃ on SO ₂ Poisoning for In Situ Removal of Metal Sulfates in Low-Temperature NH ₃ -SCR over an Fe-V Catalyst. <i>Journal of Physical Chemistry C</i> , 2020, 124, 21396-21406.	3.1	25
359	Synergy of intermolecular Donor-Acceptor and ultrathin structures in crystalline carbon nitride for efficient photocatalytic hydrogen evolution. <i>Journal of Colloid and Interface Science</i> , 2022, 607, 1603-1612.	9.4	25
360	Binder free 3D core-shell NiFe layered double hydroxide (LDH) nanosheets (NSs) supported on Cu foam as a highly efficient non-enzymatic glucose sensor. <i>Journal of Colloid and Interface Science</i> , 2022, 615, 865-875.	9.4	25

#	ARTICLE	IF	CITATIONS
361	The importance of ground temperature to a liquid carbon dioxide pipeline. <i>International Journal of Greenhouse Gas Control</i> , 2015, 39, 463-469.	4.6	24
362	Identification of an environmentally friendly symbiotic process for the reuse of industrial byproduct " an LCA perspective. <i>Journal of Cleaner Production</i> , 2016, 112, 3376-3387.	9.3	24
363	Pt-Free microengines at extremely low peroxide levels. <i>Chemical Communications</i> , 2018, 54, 4653-4656.	4.1	24
364	Ultrafine copper nanoclusters and single sites for Fenton-like reactions with high atom utilities. <i>Environmental Science: Nano</i> , 2020, 7, 2595-2606.	4.3	24
365	Electrodeposited Metal Organic Framework toward Excellent Hydrogen Sensing in an Ionic Liquid. <i>ACS Applied Nano Materials</i> , 2020, 3, 4376-4385.	5.0	24
366	Three-dimensional nitrogen-doped graphene oxide beads for catalytic degradation of aqueous pollutants. <i>Chemical Engineering Journal</i> , 2022, 446, 137042.	12.7	24
367	Detrimental influence of excessive fractionation on reactive distillation. <i>AIChE Journal</i> , 1998, 44, 388-393.	3.6	23
368	Improved Tank in Series Model for the Planar Solid Oxide Fuel Cell. <i>Industrial & Engineering Chemistry Research</i> , 2011, 50, 1056-1069.	3.7	23
369	Visible light photocatalytic degradation of organics on nanoparticles of bi-metallic oxides. <i>Separation and Purification Technology</i> , 2012, 89, 98-106.	7.9	23
370	An adaptive non-linear observer for the estimation of temperature distribution in the planar solid oxide fuel cell. <i>Journal of Process Control</i> , 2013, 23, 429-443.	3.3	23
371	An adaptable steady state Aspen Hysys model for the methane fuelled solid oxide fuel cell. <i>Chemical Engineering Research and Design</i> , 2014, 92, 295-307.	5.6	23
372	Enhanced Sulfur Tolerance of Nickel-Based Anodes for Oxygen-Ion Conducting Solid Oxide Fuel Cells by Incorporating a Secondary Water Storing Phase. <i>Environmental Science & Technology</i> , 2014, 48, 12427-12434.	10.0	23
373	High performance heterojunction photocatalytic membranes formed by embedding Cu ₂ O and TiO ₂ nanowires in reduced graphene oxide. <i>Catalysis Science and Technology</i> , 2018, 8, 1704-1711.	4.1	23
374	Temperature-Induced Variations in Photocatalyst Properties and Photocatalytic Hydrogen Evolution: Differences in UV, Visible, and Infrared Radiation. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 7277-7285.	6.7	23
375	Peanut-Shaped Cu-Mn Nano-Hollow Spinel with Oxygen Vacancies as Catalysts for Low-Temperature NO Reduction by CO. <i>ACS Applied Nano Materials</i> , 2021, 4, 11969-11979.	5.0	23
376	Ta/Ti-and Nb/Ti-Mixed Oxides as Efficient Solar Photocatalysts: Preparation, Characterization, and Photocatalytic Activity. <i>International Journal of Photoenergy</i> , 2012, 2012, 1-9.	2.5	22
377	Fabrication, characterization, and photocatalytic property of γ -Fe ₂ O ₃ /graphene oxide composite. <i>Journal of Nanoparticle Research</i> , 2013, 15, 1.	1.9	22
378	Photocatalytic activity of WO ₃ /Fe ₂ O ₃ nanocomposite photoanode. <i>International Journal of Hydrogen Energy</i> , 2015, 40, 8642-8649.	7.1	22

#	ARTICLE	IF	CITATIONS
379	Hierarchically porous cobalt-carbon nanosphere-in-microsphere composites with tunable properties for catalytic pollutant degradation and electrochemical energy storage. <i>Journal of Colloid and Interface Science</i> , 2018, 530, 556-566.	9.4	22
380	Adaptive observer based approach for the fault diagnosis in solid oxide fuel cells. <i>Journal of Process Control</i> , 2019, 84, 101-114.	3.3	22
381	An efficient and robust exfoliated bentonite/Ag ₃ PO ₄ /AgBr plasmonic photocatalyst for degradation of parabens. <i>RSC Advances</i> , 2020, 10, 16027-16037.	3.6	22
382	A low resistance and stable lithium-garnet electrolyte interface enabled by a multifunctional anode additive for solid-state lithium batteries. <i>Journal of Materials Chemistry A</i> , 2022, 10, 2519-2527.	10.3	22
383	Promoted Production of Phenolic Monomers from Lignin-First Depolymerization of Lignocellulose over Ru Supported on Biochar by N,P-Codoping. <i>ACS Sustainable Chemistry and Engineering</i> , 2022, 10, 2343-2354.	6.7	22
384	Application of side reactors on ETBE reactive distillation. <i>Chemical Engineering Journal</i> , 2004, 99, 35-43.	12.7	21
385	Stability Switches, Hopf Bifurcations, and Spatio-temporal Patterns in a Delayed Neural Model with Bidirectional Coupling. <i>Journal of Nonlinear Science</i> , 2009, 19, 597-632.	2.1	21
386	Facile synthesis and characterization of ZnFe ₂ O ₄ /Fe ₂ O ₃ composite hollow nanospheres. <i>Materials Research Bulletin</i> , 2011, 46, 2235-2239.	5.2	21
387	A novel concept for improved thermal management of the planar SOFC. <i>Chemical Engineering Research and Design</i> , 2013, 91, 560-572.	5.6	21
388	Techno-economic assessment of stripping modifications in an ammonia-based post-combustion capture process. <i>International Journal of Greenhouse Gas Control</i> , 2016, 53, 319-327.	4.6	21
389	An Adsorption-Catalysis Pathway toward Sustainable Application of Mesoporous Carbon Nanospheres for Efficient Environmental Remediation. <i>ACS ES&T Water</i> , 2021, 1, 145-156.	4.6	21
390	Optimizing Oxidation State of Octahedral Copper for Boosting Electroreduction Nitrate to Ammonia. <i>ACS Applied Energy Materials</i> , 2022, 5, 3339-3345.	5.1	21
391	Simulated nonlinear control studies of five-effect evaporator models. <i>Computers and Chemical Engineering</i> , 2000, 23, 1795-1810.	3.8	20
392	On the zeros of the Abelian integrals for a class of Liénard systems. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2006, 358, 262-274.	2.1	20
393	CFD Simulations for Continuous Flow of Bubbles through Gas-Liquid Columns: Application of VOF Method. <i>Chemical Product and Process Modeling</i> , 2007, 2, .	0.9	20
394	Preparation and characterization of sorbitol modified nanoclay with high amylose bionanocomposites. <i>Carbohydrate Polymers</i> , 2011, 85, 97-104.	10.2	20
395	Photocatalytic degradation of gaseous toluene over hollow "spindle-like" Fe ₂ O ₃ loaded with Ag. <i>Materials Research Bulletin</i> , 2012, 47, 1459-1466.	5.2	20
396	Analysis of available data from liquefied natural gas rollover incidents to determine critical stability ratios. <i>AIChE Journal</i> , 2014, 60, 362-374.	3.6	20

#	ARTICLE	IF	CITATIONS
397	Simultaneous estimation of states and inputs in a planar solid oxide fuel cell using nonlinear adaptive observer design. <i>Journal of Power Sources</i> , 2014, 248, 1218-1233.	7.8	20
398	Facile fabrication and improved carbon dioxide tolerance of a novel bilayer-structured ceramic oxygen permeating membrane. <i>Journal of Membrane Science</i> , 2014, 472, 10-18.	8.2	20
399	Intermediate-Temperature Solid Oxide Fuel Cells. <i>Green Chemistry and Sustainable Technology</i> , 2016, , .	0.7	20
400	Investigating and modelling of light intensity distribution inside algal photobioreactor. <i>Chemical Engineering and Processing: Process Intensification</i> , 2017, 122, 530-537.	3.6	20
401	CO ₂ capture using piperazine-promoted, aqueous ammonia solution: Rate-based modelling and process simulation. <i>International Journal of Greenhouse Gas Control</i> , 2017, 65, 65-75.	4.6	20
402	Grand Challenges in Environmental Nanotechnology. <i>Frontiers in Nanotechnology</i> , 2019, 1, .	4.8	20
403	Synthesis of carbon xerogels at varying sol-gel pHs, dye adsorption and chemical regeneration. <i>Chemical Engineering Journal</i> , 2011, 171, 1399-1405.	12.7	19
404	Effect of Inlet Boundary Conditions on Computational Fluid Dynamics (CFD) Simulations of Gas-Solid Flows in Risers. <i>Industrial & Engineering Chemistry Research</i> , 2012, 51, 1721-1728.	3.7	19
405	Use of Pinch Concept To Optimize the Total Water Regeneration Network. <i>Industrial & Engineering Chemistry Research</i> , 2014, 53, 3222-3235.	3.7	19
406	The bioelectrochemical synthesis of high-quality carbon dots with strengthened electricity output and excellent catalytic performance. <i>Nanoscale</i> , 2019, 11, 4428-4437.	5.6	19
407	Tailoring collaborative N/O functionalities of graphene oxide for enhanced selective oxidation of benzyl alcohol. <i>Carbon</i> , 2021, 182, 715-724.	10.3	19
408	Porous Nitrogen-Defected Carbon Nitride Derived from A Precursor Pretreatment Strategy for Efficient Photocatalytic Degradation and Hydrogen Evolution. <i>Langmuir</i> , 2022, 38, 828-837.	3.5	19
409	Comments on "The computation of wavelet-Galerkin approximation on a bounded interval" TM . <i>International Journal for Numerical Methods in Engineering</i> , 2007, 72, 244-251.	2.8	18
410	Stabilization and algorithm of integrator plus dead-time process using PID controller. <i>Journal of Process Control</i> , 2009, 19, 1529-1537.	3.3	18
411	An alternative way of estimating anodic and cathodic transfer coefficients from PEMFC polarization curves. <i>Chemical Engineering Journal</i> , 2010, 156, 496-499.	12.7	18
412	Solid oxide fuel cell reactor analysis and optimisation through a novel multi-scale modelling strategy. <i>Computers and Chemical Engineering</i> , 2015, 78, 10-23.	3.8	18
413	In situ electrochemical creation of cobalt oxide nanosheets with favorable performance as a high tap density anode material for lithium-ion batteries. <i>Electrochimica Acta</i> , 2015, 180, 914-921.	5.2	18
414	W _{1±} Mn _{1±} O _x Catalysts Synthesized by a One-Step Urea Co-precipitation Method for Selective Catalytic Reduction of NO _x with NH ₃ at Low Temperatures. <i>Energy & Fuels</i> , 2016, 30, 1810-1814.	5.1	18

#	ARTICLE	IF	CITATIONS
415	Modelling the triple phase boundary length in infiltrated SOFC electrodes. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 28836-28851.	7.1	18
416	Modeling of Cryogenic Liquefied Natural Gas Ambient Air Vaporizers. <i>Industrial & Engineering Chemistry Research</i> , 2018, 57, 9281-9291.	3.7	18
417	Rational design and synthesis of highly oriented copper/zinc ferrite QDs/titania NAE nano-heterojunction composites with novel photoelectrochemical and photoelectrocatalytic behaviors. <i>Dalton Transactions</i> , 2018, 47, 12769-12782.	3.3	18
418	Morphology/facet-dependent photo-Fenton-like degradation of pharmaceuticals and personal care products over hematite nanocrystals. <i>Chemical Engineering Journal</i> , 2022, 432, 134429.	12.7	18
419	Nonlinear Control of a Simulated Industrial Evaporation System Using a Feedback Linearization Technique with a State Observer. <i>Industrial & Engineering Chemistry Research</i> , 1999, 38, 2995-3006.	3.7	17
420	Influence of surfactants on Fe ₂ O ₃ nanostructure photoanode. <i>International Journal of Hydrogen Energy</i> , 2012, 37, 16835-16843.	7.1	17
421	Synthesis of CaCO ₃ @C yolk-shell particles for CO ₂ adsorption. <i>RSC Advances</i> , 2015, 5, 24872-24876.	3.6	17
422	Facile Conversion of Commercial Coarse-Type LiCoO ₂ to Nanocomposite-Separated Nanolayer Architectures as a Way for Electrode Performance Enhancement. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 1787-1794.	8.0	17
423	Planar Solid Oxide Fuel Cell Modeling and Optimization Targeting the Stack's Temperature Gradient Minimization. <i>Industrial & Engineering Chemistry Research</i> , 2016, 55, 7446-7455.	3.7	17
424	Design and Synthesis of a New Mannitol Stearate Ester-Based Aluminum Alkoxide as a Novel Tri-Functional Additive for Poly(Vinyl Chloride) and Its Synergistic Effect with Zinc Stearate. <i>Polymers</i> , 2019, 11, 1031.	4.5	17
425	Manganese-Based Spinel Core-Shell Nanostructures for Efficient Electrocatalysis of 1,2-Dichloroethane. <i>ACS Applied Nano Materials</i> , 2020, 3, 10778-10786.	5.0	17
426	Intrinsic Mechanisms of Morphological Engineering and Carbon Doping for Improved Photocatalysis of 2D/2D Carbon Nitride Van Der Waals Heterojunction. <i>Energy and Environmental Materials</i> , 2023, 6, .	12.8	17
427	Development and deployment of an immersive learning environment for enhancing process systems engineering concepts. <i>Education for Chemical Engineers</i> , 2008, 3, e75-e83.	4.8	16
428	Synthesis of pyramidal, cubical and truncated octahedral magnetite nanocrystals by controlling reaction heating rate. <i>Advanced Powder Technology</i> , 2011, 22, 532-536.	4.1	16
429	Process Investigation of a Solid Carbon-Fueled Solid Oxide Fuel Cell Integrated with a CO ₂ -Permeating Membrane and a Sintering-Resistant Reverse Boudouard Reaction Catalyst. <i>Energy & Fuels</i> , 2016, 30, 1841-1848.	5.1	16
430	Comment on "Activation of Persulfate by Graphitized Nanodiamonds for Removal of Organic Compounds". <i>Environmental Science & Technology</i> , 2017, 51, 5351-5352.	10.0	16
431	Direct Operation of Solid Oxide Fuel Cells on Low-Concentration Oxygen-Bearing Coal-Bed Methane with High Stability. <i>Energy & Fuels</i> , 2018, 32, 4547-4558.	5.1	16
432	Insight into MoS ₂ Synthesis with Biophotoelectrochemical Engineering and Applications in Levofloxacin Elimination. <i>ACS Applied Energy Materials</i> , 2018, 1, 3752-3762.	5.1	16

#	ARTICLE	IF	CITATIONS
433	Nonlinear open-plus-closed-loop (NOPCL) control of dynamic systems. <i>Chaos, Solitons and Fractals</i> , 2000, 11, 1029-1035.	5.1	15
434	Conversion inference for ETBE reactive distillation. <i>Separation and Purification Technology</i> , 2000, 19, 85-91.	7.9	15
435	Are microorganisms indispensable in green microbial nanomaterial synthesis?. <i>RSC Advances</i> , 2014, 4, 14564-14568.	3.6	15
436	Facile Synthesis of Di-Mannitol Adipate Ester-Based Zinc Metal Alkoxide as a Bi-Functional Additive for Poly(Vinyl Chloride). <i>Polymers</i> , 2019, 11, 813.	4.5	15
437	Output structural controllability condition for the synthesis of control systems for chemical processes. <i>International Journal of Systems Science</i> , 1991, 22, 107-132.	5.5	14
438	Effect of Preparation Conditions on Visible Photocatalytic Activity of Titania Synthesized by Solution Combustion Method. <i>Chinese Journal of Chemical Engineering</i> , 2007, 15, 178-183.	3.5	14
439	Morphological Investigation into Starch Bio-Nanocomposites via Synchrotron Radiation and Differential Scanning Calorimetry. <i>Journal of Nanotechnology</i> , 2011, 2011, 1-14.	3.4	14
440	Removal of Phenol Using Sulphate Radicals Activated by Natural Zeolite-Supported Cobalt Catalysts. <i>Water, Air, and Soil Pollution</i> , 2013, 224, 1.	2.4	14
441	Branch number matters: Promoting catalytic reduction of 4-nitrophenol over gold nanostars by raising the number of branches and coating with mesoporous SiO ₂ . <i>Journal of Colloid and Interface Science</i> , 2016, 477, 1-7.	9.4	14
442	Inherently Catalyzed Boudouard Reaction of Bamboo Biochar for Solid Oxide Fuel Cells with Improved Performance. <i>Energy & Fuels</i> , 2018, 32, 4559-4568.	5.1	14
443	Synthesis of pentaerythritol stearate ester-based zinc alkoxide and its synergistic effect with calcium stearate and zinc stearate on PVC thermal stability. <i>Journal of Vinyl and Additive Technology</i> , 2018, 24, 314-323.	3.4	14
444	Simulations of Bubble Column Reactors Using a Volume of Fluid Approach: Effect of Air Distributor. <i>Canadian Journal of Chemical Engineering</i> , 2007, 85, 290-301.	1.7	13
445	Influence of sealing materials on the oxygen permeation fluxes of some typical oxygen ion conducting ceramic membranes. <i>Journal of Membrane Science</i> , 2014, 470, 102-111.	8.2	13
446	Automated Pinch-Based Approach for the Optimum Synthesis of a Water Regeneration "Recycle Network" Study on the Interaction of Important Parameters. <i>Industrial & Engineering Chemistry Research</i> , 2016, 55, 11269-11282.	3.7	13
447	An automated composite table algorithm considering zero liquid discharge possibility in water regeneration "recycle network". <i>Clean Technologies and Environmental Policy</i> , 2016, 18, 2095-2105.	4.1	13
448	Evaluation of engineering and technology activities in primary schools in terms of learning environment, attitudes and understanding. <i>Learning Environments Research</i> , 2018, 21, 285-300.	2.8	13
449	Photoelectrochemical Water Oxidation and Longevous Photoelectric Conversion by a Photosystem II Electrode. <i>Advanced Energy Materials</i> , 2021, 11, 2100911.	19.5	13
450	Sea-Urchin-Like Carbon Nanospheres for Electrocatalytic Dechlorination of 1,2-Dichloroethane. <i>ACS Applied Nano Materials</i> , 2021, 4, 13090-13098.	5.0	13

#	ARTICLE	IF	CITATIONS
451	Interaction of separation and reactive stages on ETBE reactive distillation columns. <i>AIChE Journal</i> , 2004, 50, 646-653.	3.6	12
452	Hydrodynamics of a Fluid Catalytic Cracking Stripper Using β -ray Densitometry. <i>Industrial & Engineering Chemistry Research</i> , 2011, 50, 5933-5941.	3.7	12
453	Modified Photobioreactor for Biofixation of Carbon Dioxide by <i>Chlorella vulgaris</i> at Different Light Intensities. <i>Chemical Engineering and Technology</i> , 2015, 38, 1371-1379.	1.5	12
454	Numerical study of fog formation around ambient air vaporizers. <i>Chemical Engineering Science</i> , 2018, 183, 37-46.	3.8	12
455	Rational Design of Cobaltate MCo_2O_4 Hierarchical Nanomicrostructures with Bunch of Oxygen Vacancies toward Highly Efficient Photocatalytic Fixing of Carbon Dioxide. <i>Journal of Physical Chemistry C</i> , 2021, 125, 9782-9794.	3.1	12
456	van der Waals type II carbon nitride homojunctions for visible light photocatalytic hydrogen evolution. <i>Nano Research</i> , 2023, 16, 5864-5872.	10.4	12
457	Carbon nitride-based Z-scheme photocatalysts for non-sacrificial overall water splitting. <i>Materials Today Energy</i> , 2022, 23, 100915.	4.7	12
458	A nonlinear PID controller with applications. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 1999, 32, 2657-2661.	0.4	11
459	Quantum estimation of impurity effect for KDP crystal growth. <i>Computational and Theoretical Chemistry</i> , 2008, 851, 225-231.	1.5	11
460	Fabrication and operation of flow-through tubular SOFCs for electric power and synthesis gas cogeneration from methane. <i>AIChE Journal</i> , 2014, 60, 1036-1044.	3.6	11
461	System Level Exergy Assessment of Strategies Deployed for Solid Oxide Fuel Cell Stack Temperature Regulation and Thermal Gradient Reduction. <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 2258-2267.	3.7	11
462	Novel Two-Dimensional $\text{AgInS}_2/\text{SnS}_2/\text{RGO}$ Dual Heterojunctions: High Spatial Charge and Toxicity Evaluation. <i>Langmuir</i> , 2020, 36, 9709-9718.	3.5	11
463	Atomic H^* mediated fast decontamination of antibiotics by bubble-propelled magnetic iron-manganese oxides core-shell micromotors. <i>Applied Catalysis B: Environmental</i> , 2022, 314, 121484.	20.2	11
464	Adaptive Control of an ETBE Reactive Distillation Column. <i>Journal of Chemical Engineering of Japan</i> , 2004, 37, 210-216.	0.6	10
465	High-resolution method for numerically solving PDEs in process engineering. <i>Computers and Chemical Engineering</i> , 2008, 32, 2403-2408.	3.8	10
466	Topological analysis of hydrogen oxidation reaction kinetics at Ni/YSZ anode of the solid oxide fuel cell. <i>Journal of Electroanalytical Chemistry</i> , 2012, 677-680, 15-23.	3.8	10
467	Hydrodynamic Study of Fluid Catalytic Cracker Unit Stripper. <i>Industrial & Engineering Chemistry Research</i> , 2013, 52, 4660-4671.	3.7	10
468	Verification of EMMS formulation using lattice Boltzmann simulations. <i>Powder Technology</i> , 2014, 257, 30-39.	4.2	10

#	ARTICLE	IF	CITATIONS
469	Single-chamber solid oxide fuel cells with nanocatalyst-modified anodes capable of in situ activation. <i>Journal of Power Sources</i> , 2014, 264, 220-228.	7.8	10
470	Experimental Study on Feasibility of H ₂ and N ₂ as Hydrate Inhibitors in Natural Gas Pipelines. <i>Journal of Chemical & Engineering Data</i> , 2014, 59, 3756-3766.	1.9	10
471	Study on the number of decision variables in design and optimization of Varicol process. <i>Computers and Chemical Engineering</i> , 2014, 68, 114-122.	3.8	10
472	Improved approximation for the Butler-Volmer equation in fuel cell modelling. <i>Computers and Chemical Engineering</i> , 2017, 102, 2-10.	3.8	10
473	Synthesis of Magnetic Carbon Supported Manganese Catalysts for Phenol Oxidation by Activation of Peroxymonosulfate. <i>Catalysts</i> , 2017, 7, 3.	3.5	10
474	Temperature-dependent evolution of hydroxyl radicals from peroxydisulfate activation over nitrogen-modified carbon nanotubes. <i>Sustainable Materials and Technologies</i> , 2018, 18, e00082.	3.3	10
475	Wastewater Remediation Technologies Using Macroscopic Graphene-Based Materials: A Perspective. <i>Frontiers in Nanotechnology</i> , 2021, 3, .	4.8	10
476	Limit Cycles for the Kukles system. <i>Journal of Dynamical and Control Systems</i> , 2008, 14, 283-298.	0.8	9
477	Semi-batch reactive crystallisation of mono-ammonium phosphate: An experimental study. <i>Chemical Engineering Journal</i> , 2010, 156, 594-600.	12.7	9
478	N Evolution and Physicochemical Structure Changes in Chars during Co-Pyrolysis: Effects of Abundance of Glucose in Fiberboard. <i>Energies</i> , 2020, 13, 5105.	3.1	9
479	Selective oxidation of alcohols by graphene-like carbon with electrophilic oxygen and integrated pyridinic nitrogen active sites. <i>Nanoscale</i> , 2021, 13, 12979-12990.	5.6	9
480	Rock/Fluid/Polymer Interaction Mechanisms: Implications for Water Shut-off Treatment. <i>Energy & Fuels</i> , 2021, 35, 12809-12827.	5.1	9
481	The comparison of disturbance rejection properties of one-point control schemes for etbe reactive distillation. <i>Chemical Engineering Communications</i> , 2002, 189, 85-100.	2.6	8
482	Modern Trends in CFD Simulations: Application to GTL Technology. <i>Chemical Product and Process Modeling</i> , 2006, 1, .	0.9	8
483	Stability and multiple bifurcations of a damped harmonic oscillator with delayed feedback near zero eigenvalue singularity. <i>Chaos</i> , 2008, 18, 043113.	2.5	8
484	Effect of the Operating Strategy of a Solid Oxide Fuel Cell on the Effectiveness of Decentralized Linear Controllers. <i>Industrial & Engineering Chemistry Research</i> , 2011, 50, 1439-1452.	3.7	8
485	Targeting water utilities for the threshold problem without waste discharge. <i>Chemical Engineering Research and Design</i> , 2013, 91, 2569-2578.	5.6	8
486	Modeling the Contribution of Gas Hydrate to Corrosion Rate Along the Subsea Pipelines. <i>Petroleum Science and Technology</i> , 2014, 32, 2538-2548.	1.5	8

#	ARTICLE	IF	CITATIONS
487	Freestanding 3D Ordered Hierarchical Porous Carbon Aerogel Cathodes for Efficient Electrocatalytic Dechlorination of 1,2-Dichloroethane to Ethylene. ACS Sustainable Chemistry and Engineering, 2022, 10, 2234-2240.	6.7	8
488	Wavelet-based collocation method for stiff systems in process engineering. Journal of Mathematical Chemistry, 2008, 44, 501-513.	1.5	7
489	Models of an Industrial Evaporator System for Education and Research in Process Control. Asia-Pacific Journal of Chemical Engineering, 2002, 10, 105-127.	0.0	7
490	Solubility of Manganese Sulfate Monohydrate in the Presence of Trace Quantities of Magnesium Sulfate Heptahydrate in Water. Asia-Pacific Journal of Chemical Engineering, 2003, 11, 423-435.	0.0	7
491	A new technique of estimating anodic and cathodic charge transfer coefficients from SOFC polarization curves. International Journal of Hydrogen Energy, 2009, 34, 6876-6881.	7.1	7
492	Modelling the Natural Gas Pipeline Internal Corrosion Rate Resulting from Hydrate Formation. Computer Aided Chemical Engineering, 2011, 29, 1160-1164.	0.5	7
493	Improved Tank in Series Reactor Model for Tubular Solid Oxide Fuel Cell Stacks. Chemical Engineering and Technology, 2011, 34, 737-745.	1.5	7
494	Modelling of the interaction between a falling n-heptane droplet and hot solid surface. Chemical Engineering Science, 2014, 116, 23-37.	3.8	7
495	Combination of space-time conservation element/solution element method and continuous prediction technique for accelerated simulation of simulated moving bed chromatography. Chemical Engineering and Processing: Process Intensification, 2015, 96, 54-61.	3.6	7
496	Modeling and optimization of Carbon in leach (CIL) circuit for gold recovery. Minerals Engineering, 2015, 83, 136-148.	4.3	7
497	Hydrodynamics of macroscopic particles in slurry suspensions. Asia-Pacific Journal of Chemical Engineering, 2016, 11, 467-479.	1.5	7
498	Porous Carbon: Heteroatom (N or N-S)-Doping Induced Layered and Honeycomb Microstructures of Porous Carbons for CO ₂ Capture and Energy Applications (Adv. Funct. Mater. 47/2016). Advanced Functional Materials, 2016, 26, 8650-8650.	14.9	7
499	Encapsulation of cuprous/cobalt sites in metal organic framework for enhanced C ₂ H ₄ /C ₂ H ₆ separation. Journal of Colloid and Interface Science, 2021, 583, 605-613.	9.4	7
500	Enhanced adsorption and visible-light photocatalysis on TiO ₂ with in situ formed carbon quantum dots. Environmental Science and Pollution Research, 2022, 29, 56379-56392.	5.3	7
501	Communication Architecture Design for Real-Time Networked Control Systems. , 2006, , .		6
502	Linear estimate of the number of limit cycles for a class of non-linear systems. Chaos, Solitons and Fractals, 2007, 31, 804-810.	5.1	6
503	Application of CFD modelling to investigate fluidized limestone reactors for the remediation of acidic drainage waters. Chemical Engineering Journal, 2009, 149, 162-172.	12.7	6
504	Existence of travelling fronts in a diffusive vector disease model with spatio-temporal delay. Nonlinear Analysis: Real World Applications, 2010, 11, 2472-2478.	1.7	6

#	ARTICLE	IF	CITATIONS
505	One-pot synthesis of Bi-Ni nanowire and nanocable arrays by coelectrodeposition approach. <i>Nanoscale Research Letters</i> , 2012, 7, 130.	5.7	6
506	Continuous prediction technique for fast determination of cyclic steady state in simulated moving bed process. <i>Computers and Chemical Engineering</i> , 2013, 58, 298-304.	3.8	6
507	A time-delay compensation strategy for processes with uncertainties. <i>Computers and Chemical Engineering</i> , 2002, 26, 1437-1447.	3.8	5
508	Gas-solid flow hydrodynamics of an industrial scale catalyst lift engager. <i>Chemical Engineering Journal</i> , 2010, 159, 138-148.	12.7	5
509	Accelerated computation of cyclic steady state for simulated-moving-bed processes. <i>Chemical Engineering Science</i> , 2010, 65, 1694-1704.	3.8	5
510	A graph theoretical approach to the elucidation of reaction mechanisms: Analysis of the chlorine electrode reaction. <i>Computers and Chemical Engineering</i> , 2013, 49, 85-94.	3.8	5
511	Modelling and Experimental Study of SO ₂ Removal and NH ₃ Recycling in an Ammonia Based CO ₂ Capture Process. <i>Energy Procedia</i> , 2014, 63, 1162-1170.	1.8	5
512	Simulation of Solid Oxide Fuel Cell Anode in Aspen HYSYS—A Study on the Effect of Reforming Activity on Distributed Performance Profiles, Carbon Formation, and Anode Oxidation Risk. <i>Processes</i> , 2020, 8, 268.	2.8	5
513	Direct Z-scheme SiNWs@Co ₃ O ₄ photocathode with a cocatalyst of sludge-derived carbon quantum dots for efficient photoelectrochemical hydrogen production. <i>Science of the Total Environment</i> , 2021, 796, 148931.	8.0	5
514	Dynamic Simulation and Optimization of Two-Stage Extractive Alcoholic Fermentation Process: Design Impact on Controllability. <i>Chemical Product and Process Modeling</i> , 2006, 1, .	0.9	4
515	Dynamic Simulation of Reactive Batch Distillation Column for Ethyl Acetate Synthesis. <i>Chemical Product and Process Modeling</i> , 2007, 2, .	0.9	4
516	REDUCING CONTROL LATENCY AND JITTER IN REAL-TIME CONTROL. <i>Asian Journal of Control</i> , 2008, 8, 72-75.	3.0	4
517	A net draft tube slurry airlift bioreactor for 2,4-dichlorophenoxyacetic acid) pesticide biodegradation. <i>Canadian Journal of Chemical Engineering</i> , 2010, 88, 565-573.	1.7	4
518	A NOVEL SPINNING DISC CONTINUOUS STIR TANK AND SETTLER REACTOR (SDCSTR) MODEL FOR CONTINUOUS SYNTHESIS OF TITANIA: A PHENOMENOLOGICAL MODEL. <i>Chemical Engineering Communications</i> , 2010, 198, 73-84.	2.6	4
519	A numerical study on the role of geometry confinement and fluid flow in colloidal self-assembly. <i>Powder Technology</i> , 2011, 214, 283-291.	4.2	4
520	Editorial: Environmental Catalysis and the Corresponding Catalytic Mechanism. <i>Frontiers in Chemistry</i> , 2019, 7, 75.	3.6	4
521	Location and size regulation of manganese oxides within mesoporous silica for enhanced antibiotic degradation. <i>Chinese Journal of Chemical Engineering</i> , 2022, 48, 36-43.	3.5	4
522	Strategies for Enhancing Geometric Nonlinear Control of an Industrial Evaporator System. <i>Industrial & Engineering Chemistry Research</i> , 2001, 40, 656-667.	3.7	3

#	ARTICLE	IF	CITATIONS
523	Apoptosis of tumour cells by temperature and anti-tumour drug: microscopic and macroscopic investigations. <i>Journal of Thermal Biology</i> , 2003, 28, 321-329.	2.5	3
524	Simulation of Free Chlorine Decay and Adaptive Chlorine Dosing by Discrete Time-Space Model for Drinking Water Distribution System. <i>Chemical Product and Process Modeling</i> , 2007, 2, .	0.9	3
525	Novel PCA-Based Technique for Identification of Dominant Variables for Partial Control. <i>Chemical Product and Process Modeling</i> , 2010, 5, .	0.9	3
526	Application of Iron Oxide Based Nanomaterials (NMs) in Magnetic Assisted Chemical Separation (MACS) Processes for Water/Wastewater Treatment. <i>Advanced Materials Research</i> , 0, 610-613, 1242-1251.	0.3	3
527	Photocatalytic degradation of gaseous toluene over TiO ₂ @SiO ₂ composite nanotubes synthesized by sol-gel with template technique. <i>Materials Research Bulletin</i> , 2012, 47, 279-284.	5.2	3
528	Nanoscale in Photocatalysis. <i>Nanomaterials</i> , 2017, 7, 86.	4.1	3
529	More Energy-Efficient CO ₂ Capture from IGCC GE Flue Gases. <i>Journal of Carbon Research</i> , 2017, 3, 7.	2.7	3
530	Model based evaluation of the electrochemical reaction sites in solid oxide fuel cell electrodes. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 8439-8459.	7.1	3
531	Statistical method-based calibration and validation of a solid oxide fuel cell model. <i>International Journal of Energy Research</i> , 2019, 43, 2478-2500.	4.5	3
532	Impact of prolonged water-gas flow on the performance of polyacrylamide. <i>Journal of Applied Polymer Science</i> , 2022, 139, .	2.6	3
533	Fabrication of Non-close-packed Colloidal Crystals by using a Sequential Growth Method. , 2006, , .		2
534	Steady-State Simulation of Hybrid Nickel Leaching Circuit Using Syscad. <i>Chemical Product and Process Modeling</i> , 2006, 1, .	0.9	2
535	Control of Multi-scale Dynamics System. <i>Control Applications (CCA), Proceedings of the IEEE International Conference on</i> , 2007, , .	0.0	2
536	Simultaneous model of chlorine dosing and decay in drinking water distribution system and model predictive control application. <i>Asia-Pacific Journal of Chemical Engineering</i> , 2008, 3, 613-621.	1.5	2
537	Process Systems Engineering: Successful Application in an Industrial Process. <i>Asia-Pacific Journal of Chemical Engineering</i> , 2002, 10, 181-196.	0.0	2
538	Prediction of Solid-Liquid Phase Equilibrium in the System of Water (1) + Alcohols (2) + MgSO ₄ ·7H ₂ O (3) + MnSO ₄ ·H ₂ O (4) by the Ion-Specific Electrolyte NRTL Model. <i>Journal of Chemical & Engineering Data</i> , 2009, 54, 423-427.	1.9	2
539	Insights into the applicability of the R dot approach for reaction mechanism kinetics studies. <i>Chemical Engineering Science</i> , 2012, 69, 616-627.	3.8	2
540	Use of digital technologies in bridging the gap between face-to-face and remote engineering programs. , 2013, , .		2

#	ARTICLE	IF	CITATIONS
541	Cathodes for IT-SOFCs. <i>Green Chemistry and Sustainable Technology</i> , 2016, , 59-126.	0.7	2
542	Existence of periodic solutions of a continuous flow bioreactor model with impulsive control in microorganisms. <i>Journal of Applied Mathematics and Computing</i> , 2017, 53, 471-486.	2.5	2
543	Dynamic tank in series modeling of direct internal reforming SOFC. <i>International Journal of Energy Research</i> , 2017, 41, 1563-1578.	4.5	2
544	Addressing interdisciplinary process engineering design, construction and operations through 4D virtual environments. <i>Computer Aided Chemical Engineering</i> , 2011, 29, 1145-1149.	0.5	2
545	Modelling and Control of Reactive Distillation Systems. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2004, 37, 31-38.	0.4	1
546	ON THE NUMBER OF ZEROS OF THE ABELIAN INTEGRALS FOR A CLASS OF PERTURBED LIÅ%NARD SYSTEMS. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2007, 17, 3281-3287.	1.7	1
547	Wavelet approach incorporated with optimization for solving stiff systems. <i>Journal of Mathematical Chemistry</i> , 2008, 43, 1533-1548.	1.5	1
548	Extended Linear QDMC of a Gibbsite Crystalliser: A Simulation Study. <i>Canadian Journal of Chemical Engineering</i> , 2003, 81, 1019-1031.	1.7	1
549	Particle deposition in natural gas pipelines using computational fluid dynamics modelling. <i>Asia-Pacific Journal of Chemical Engineering</i> , 2012, 7, 841-847.	1.5	1
550	Hydrodynamics of a rectangular liquid JET in an immiscible liquidâ€“liquid system. <i>Canadian Journal of Chemical Engineering</i> , 2013, 91, 122-126.	1.7	1
551	CHAPTER 2. Electrolyte Materials for Solid Oxide Fuel Cells (SOFCs). <i>RSC Energy and Environment Series</i> , 0, , 26-55.	0.5	1
552	Free-standing nitrogen doped V-O-C nanofiber film as promising electrode for flexible lithium-ion batteries. <i>RSC Advances</i> , 2014, 4, 51062-51066.	3.6	1
553	Anodes for IT-SOFCs. <i>Green Chemistry and Sustainable Technology</i> , 2016, , 127-175.	0.7	1
554	Carbon nitride photocatalysts. , 2018, , 103-126.		1
555	A steady-state and dynamic simulation tool for solid oxide fuel cell operation applications. <i>Computer Aided Chemical Engineering</i> , 2019, 46, 595-600.	0.5	1
556	Combined Gain-Scheduling and Multimodel Control of a Reactive Distillation Column. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2004, 37, 791-796.	0.4	0
557	Launch editorial. <i>Asia-Pacific Journal of Chemical Engineering</i> , 2006, 1, 1-2.	1.5	0
558	Modelling of Chlorine Contact Tank and the Combined Applications of Linear Model Predictive Control and Computational Fluid Dynamics. <i>Chemical Product and Process Modeling</i> , 2009, 4, .	0.9	0

#	ARTICLE	IF	CITATIONS
559	Hydrodynamic investigation of bubbleâ€column reactors: effect of column configuration. Asia-Pacific Journal of Chemical Engineering, 2010, 5, 626-636.	1.5	0
560	A Study on the UV- and Thermo- Stability of Organosilane-Functionalized Carbon Dots Films. Advanced Materials Research, 0, 557-559, 739-742.	0.3	0
561	Preparation of a Monolith with Covalently Bound Bovine Serum Albumin for Capillary Electrochromatography. Analytical Letters, 2012, 45, 2377-2388.	1.8	0
562	Simulation and Analysis of Carbon-in-Leach (CIL) Circuits. Computer Aided Chemical Engineering, 2012, 31, 1206-1210.	0.5	0
563	BIFURCATIONS OF LIMIT CYCLES FOR A PERTURBED CUBIC SYSTEM WITH DOUBLE FIGURE EIGHT LOOP. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2013, 23, 1350067.	1.7	0
564	The engineering pavilion — A learning space developing engineers for the global community. , 2014, , .		0
565	Catalysis: Sulfur and Nitrogen Co-Doped Graphene for Metal-Free Catalytic Oxidation Reactions (Small 25/2015). Small, 2015, 11, 3035-3035.	10.0	0
566	Selected New Aspects of SOFCs. Green Chemistry and Sustainable Technology, 2016, , 215-245.	0.7	0
567	Comparison of Turbulence Models for Single Sphere Simulation Study Under Supercritical Fluid Condition. Chemical Product and Process Modeling, 2017, 12, .	0.9	0
568	Photocatalysis: Spontaneous Formation of Noble- and Heavy-Metal-Free Alloyed Semiconductor Quantum Rods for Efficient Photocatalysis (Adv. Mater. 39/2018). Advanced Materials, 2018, 30, 1870296.	21.0	0
569	Mechanism Research of Catalytic Degradation of 1, 2-Dichlorobenzene over Highly Efficient Hollow Calcium Ferrite by In situ FTIR Spectra. Materials Today Energy, 2022, , 100996.	4.7	0
570	Synthesis of Control Systems : A New Approach to Output Structural Controllability. , 1989, , .		0