Moses O Tade

List of Publications by Year
in descending order

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570 papers	46,591 citations	1046 113 h-index	2953 189 g-index
589 all docs	589 docs citations	589 times ranked	32223 citing authors

#	Article	IF	Citations
1	van der Waals type II carbon nitride homojunctions for visible light photocatalytic hydrogen evolution. Nano Research, 2023, 16, 5864-5872.	10.4	12
2	Intrinsic Mechanisms of Morphological Engineering and Carbon Doping for Improved Photocatalysis of 2D/2D Carbon Nitride Van Der Waals Heterojunction. Energy and Environmental Materials, 2023, 6, .	12.8	17
3	Location and size regulation of manganese oxides within mesoporous silica for enhanced antibiotic degradation. Chinese Journal of Chemical Engineering, 2022, 48, 36-43.	3.5	4
4	Kinetics and mechanism of synergistic adsorption and persulfate activation by N-doped porous carbon for antibiotics removals in single and binary solutions. Journal of Hazardous Materials, 2022, 423, 127083.	12.4	74
5	Synergy of intermolecular Donor-Acceptor and ultrathin structures in crystalline carbon nitride for efficient photocatalytic hydrogen evolution. Journal of Colloid and Interface Science, 2022, 607, 1603-1612.	9.4	25
6	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
7	Carbon nitride-based Z-scheme photocatalysts for non-sacrificial overall water splitting. Materials Today Energy, 2022, 23, 100915.	4.7	12
8	Morphology/facet-dependent photo-Fenton-like degradation of pharmaceuticals and personal care products over hematite nanocrystals. Chemical Engineering Journal, 2022, 432, 134429.	12.7	18
9	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
10	Porous Nitrogen-Defected Carbon Nitride Derived from A Precursor Pretreatment Strategy for Efficient Photocatalytic Degradation and Hydrogen Evolution. Langmuir, 2022, 38, 828-837.	3.5	19
11	A low resistance and stable lithium-garnet electrolyte interface enabled by a multifunctional anode additive for solid-state lithium batteries. Journal of Materials Chemistry A, 2022, 10, 2519-2527.	10.3	22
12	Superstructures with Atomic-Level Arranged Perovskite and Oxide Layers for Advanced Oxidation with an Enhanced Non-Free Radical Pathway. ACS Sustainable Chemistry and Engineering, 2022, 10, 1899-1909.	6.7	59
13	Promoted Production of Phenolic Monomers from Lignin-First Depolymerization of Lignocellulose over Ru Supported on Biochar by N,P-co-Doping. ACS Sustainable Chemistry and Engineering, 2022, 10, 2343-2354.	6.7	22
14	Binder free 3D coreâ€“shell NiFe layered double hydroxide (LDH) nanosheets (NSs) supported on Cu foam as a highly efficient non-enzymatic glucose sensor. Journal of Colloid and Interface Science, 2022, 615, 865-875.	9.4	25
15	Single Pd atoms synergistically manipulating charge polarization and active sites for simultaneously photocatalytic hydrogen production and oxidation of benzylamine. Nano Energy, 2022, 95, 107045.	16.0	66
16	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
17	Optimizing Oxidation State of Octahedral Copper for Boosting Electroreduction Nitrate to Ammonia. ACS Applied Energy Materials, 2022, 5, 3339-3345.	5.1	21
18	Enhanced adsorption and visible-light photocatalysis on TiO2 with in situ formed carbon quantum dots. Environmental Science and Pollution Research, 2022, 29, 56379-56392.	5.3	7

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19	Carbon nitride-based Z-scheme heterojunctions for solar-driven advanced oxidation processes. Journal of Hazardous Materials, 2022, 434, 128866.	12.4	36
20	Impact of prolonged waterâ€gas flow on the performance of polyacrylamide. Journal of Applied Polymer Science, 2022, 139, .	2.6	3
21	Functional Carbon Nitride Materials in Photoâ€Fentonâ€Like Catalysis for Environmental Remediation. Advanced Functional Materials, 2022, 32, .	14.9	93
22	Atomic H* mediated fast decontamination of antibiotics by bubble-propelled magnetic iron-manganese oxides core-shell micromotors. Applied Catalysis B: Environmental, 2022, 314, 121484.	20.2	11
23	Three-dimensional nitrogen-doped graphene oxide beads for catalytic degradation of aqueous pollutants. Chemical Engineering Journal, 2022, 446, 137042.	12.7	24
24	Crystallinity and valence states of manganese oxides in Fenton-like polymerization of phenolic pollutants for carbon recycling against degradation. Applied Catalysis B: Environmental, 2022, 315, 121593.	20.2	52
25	Quasi-MOF derivative-based electrode for efficient electro-Fenton oxidation. Journal of Hazardous Materials, 2021, 401, 123423.	12.4	63
26	Enhanced removals of micropollutants in binary organic systems by biomass derived porous carbon/peroxymonosulfate. Journal of Hazardous Materials, 2021, 408, 124459.	12.4	41
27	Graphitic Carbon Nitride-Based Z-Scheme Structure for Photocatalytic CO₂ Reduction. Energy & Fuels, 2021, 35, 7-24.	5.1	100
28	Encapsulation of cuprous/cobalt sites in metal organic framework for enhanced C2H4/C2H6 separation. Journal of Colloid and Interface Science, 2021, 583, 605-613.	9.4	7
29	Hierarchically porous hydrangea-like In2S3/In2O3 heterostructures for enhanced photocatalytic hydrogen evolution. Journal of Colloid and Interface Science, 2021, 587, 876-882.	9.4	56
30	Conversion and transformation of N species during pyrolysis of wood-based panels: A review. Environmental Pollution, 2021, 270, 116120.	7.5	36
31	Novel two-dimensional crystalline carbon nitrides beyond g-C₃N₄: structure and applications. Journal of Materials Chemistry A, 2021, 9, 17-33.	10.3	92
32	An Adsorptionâ€“Catalysis Pathway toward Sustainable Application of Mesoporous Carbon Nanospheres for Efficient Environmental Remediation. ACS ES&T Water, 2021, 1, 145-156.	4.6	21
33	Cobalt Single Atoms Embedded in Nitrogenâ€Doped Graphene for Selective Oxidation of Benzyl Alcohol by Activated Peroxymonosulfate. Small, 2021, 17, e2004579.	10.0	47
34	Selective oxidation of alcohols by graphene-like carbon with electrophilic oxygen and integrated pyridinic nitrogen active sites. Nanoscale, 2021, 13, 12979-12990.	5.6	9
35	Magnetically steerable iron oxides-manganese dioxide coreâ€“shell micromotors for organic and microplastic removals. Journal of Colloid and Interface Science, 2021, 588, 510-521.	9.4	85
36	Temperature-Induced Variations in Photocatalyst Properties and Photocatalytic Hydrogen Evolution: Differences in UV, Visible, and Infrared Radiation. ACS Sustainable Chemistry and Engineering, 2021, 9, 7277-7285.	6.7	23

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37	Engineered Graphitic Carbon Nitride-Based Photocatalysts for Visible-Light-Driven Water Splitting: A Review. Energy & Fuels, 2021, 35, 6504-6526.	5.1	160
38	Hematite-based nanomaterials for photocatalytic degradation of pharmaceuticals and personal care products (PPCPs): A short review. Current Opinion in Green and Sustainable Chemistry, 2021, 28, 100447.	5.9	32
39	Unveiling the Promotion Effects of CoO on Low-Temperature NO Reduction with CO over an In-Situ-Established Co₃O₄â€“CoO Heterostructure. ACS Sustainable Chemistry and Engineering, 2021, 9, 6107-6117.	6.7	26
40	Rational Design of Cobaltate MCo₂O₄â^Î´</sub> Hierarchical Nanomicrostructures with Bunch of Oxygen Vacancies toward Highly Efficient Photocatalytic Fixing of Carbon Dioxide. Journal of Physical Chemistry C, 2021, 125, 9782-9794.	3.1	12
41	Piezotronic effect and oxygen vacancies boosted photocatalysis Câ€'N coupling of benzylamine. Nano Energy, 2021, 83, 105831.	16.0	45
42	Wastewater Remediation Technologies Using Macroscopic Graphene-Based Materials: A Perspective. Frontiers in Nanotechnology, 2021, 3, .	4.8	10
43	Photoelectrochemical Water Oxidation and Longevous Photoelectric Conversion by a Photosystem II Electrode. Advanced Energy Materials, 2021, 11, 2100911.	19.5	13
44	Advances in Zeolite Imidazolate Frameworks (ZIFs) Derived Bifunctional Oxygen Electrocatalysts and Their Application in Zincâ€“Air Batteries. Advanced Energy Materials, 2021, 11, 2100514.	19.5	132
45	Sustainable redox processes induced by peroxymonosulfate and metal doping on amorphous manganese dioxide for nonradical degradation of water contaminants. Applied Catalysis B: Environmental, 2021, 286, 119903.	20.2	115
46	Tailoring collaborative Nâ€“O functionalities of graphene oxide for enhanced selective oxidation of benzyl alcohol. Carbon, 2021, 182, 715-724.	10.3	19
47	Heterogeneous electro-Fenton catalysis with self-supporting CFP@MnO2-Fe3O4/C cathode for shale gas fracturing flowback wastewater. Journal of Hazardous Materials, 2021, 412, 125208.	12.4	56
48	Manganeseâ€Based Micro/Nanomotors: Synthesis, Motion, and Applications. Small, 2021, 17, e2100927.	10.0	27
49	Rock/Fluid/Polymer Interaction Mechanisms: Implications for Water Shut-off Treatment. Energy & Fuels, 2021, 35, 12809-12827.	5.1	9
50	Metal-free carbon based air electrodes for Zn-air batteries: Recent advances and perspective. Materials Research Bulletin, 2021, 140, 111315.	5.2	35
51	Piezotronic effect and hierarchical Z-scheme heterostructure stimulated photocatalytic H2 evolution integrated with C-N coupling of benzylamine. Nano Energy, 2021, 89, 106349.	16.0	53
52	Direct Z-scheme SiNWs@Co3O4 photocathode with a cocatalyst of sludge-derived carbon quantum dots for efficient photoelectrochemical hydrogen production. Science of the Total Environment, 2021, 796, 148931.	8.0	5
53	Aligning potential differences within carbon nitride based photocatalysis for efficient solar energy harvesting. Nano Energy, 2021, 89, 106357.	16.0	41
54	Atomic heterojunction-induced accelerated charge transfer for boosted photocatalytic hydrogen evolution over 1D CdS nanorod/2D ZnIn2S4 nanosheet composites. Journal of Colloid and Interface Science, 2021, 604, 500-507.	9.4	33

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55	Heterogeneous activation of peroxymonosulfate by Co-doped Fe2O3 nanospheres for degradation of p-hydroxybenzoic acid. Journal of Colloid and Interface Science, 2021, 604, 390-401.	9.4	43
56	Atomically dispersed cobalt on graphitic carbon nitride as a robust catalyst for selective oxidation of ethylbenzene by peroxymonosulfate. Journal of Materials Chemistry A, 2021, 9, 3029-3035.	10.3	48
57	Nature of Intrinsic Defects in Carbon Materials for Electrochemical Dechlorination of 1,2-Dichloroethane to Ethylene. ACS Catalysis, 2021, 11, 14284-14292.	11.2	30
58	Functionalized Activated Carbon for Competing Adsorption of Volatile Organic Compounds and Water. ACS Applied Materials & Interfaces, 2021, 13, 56510-56518.	8.0	31
59	Peanut-Shaped Cuâ€“Mn Nano-Hollow Spinel with Oxygen Vacancies as Catalysts for Low-Temperature NO Reduction by CO. ACS Applied Nano Materials, 2021, 4, 11969-11979.	5.0	23
60	Sea-Urchin-Like Carbon Nanospheres for Electrocatalytic Dechlorination of 1,2-Dichloroethane. ACS Applied Nano Materials, 2021, 4, 13090-13098.	5.0	13
61	Catalytic degradation of antibiotics by metal-free catalysis over nitrogen-doped graphene. Catalysis Today, 2020, 357, 341-349.	4.4	54
62	Synergy of carbocatalytic and heat activation of persulfate for evolution of reactive radicals toward metal-free oxidation. Catalysis Today, 2020, 355, 319-324.	4.4	28
63	Surface engineering of hollow carbon nitride microspheres for efficient photoredox catalysis. Chemical Engineering Journal, 2020, 381, 122593.	12.7	49
64	Superior performance of FeVO4@CeO2 uniform core-shell nanostructures in heterogeneous Fenton-sonophotocatalytic degradation of 4-nitrophenol. Journal of Hazardous Materials, 2020, 382, 121059.	12.4	77
65	Mini-Review on Char Catalysts for Tar Reforming during Biomass Gasification: The Importance of Char Structure. Energy & Fuels, 2020, 34, 1219-1229.	5.1	98
66	Confinement of Ag(I) Sites within MIL-101 for Robust Ethylene/Ethane Separation. ACS Sustainable Chemistry and Engineering, 2020, 8, 823-830.	6.7	28
67	Biomass-derived functional porous carbons for adsorption and catalytic degradation of binary micropollutants in water. Journal of Hazardous Materials, 2020, 389, 121881.	12.4	67
68	Catalysis of a Single Transition Metal Site for Water Oxidation: From Mononuclear Molecules to Single Atoms. Advanced Materials, 2020, 32, e1904037.	21.0	78
69	UVC-assisted photocatalytic degradation of carbamazepine by Nd-doped Sb2O3/TiO2 photocatalyst. Journal of Colloid and Interface Science, 2020, 562, 461-469.	9.4	26
70	Impact of oxygen vacancy occupancy on piezo-catalytic activity of BaTiO3 nanobelt. Applied Catalysis B: Environmental, 2020, 279, 119340.	20.2	226
71	A Hydrogen-Initiated Chemical Epitaxial Growth Strategy for In-Plane Heterostructured Photocatalyst. ACS Nano, 2020, 14, 17505-17514.	14.6	41
72	Rationally Tailored Redox Properties of a Mesoporous Mnâ€“Fe Spinel Nanostructure for Boosting Low-Temperature Selective Catalytic Reduction of NO_x with NH₃. ACS Sustainable Chemistry and Engineering, 2020, 8, 17727-17739.	6.7	52

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73	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
74	Acidification and bubble template derived porous g-C3N4 for efficient photodegradation and hydrogen evolution. Chinese Chemical Letters, 2020, 31, 2668-2672.	9.0	36
75	Fundamental Advances in Biomass Autothermal/Oxidative Pyrolysis: A Review. ACS Sustainable Chemistry and Engineering, 2020, 8, 11888-11905.	6.7	111
76	Ultrafine copper nanoclusters and single sites for Fenton-like reactions with high atom utilities. Environmental Science: Nano, 2020, 7, 2595-2606.	4.3	24
77	Novel Two-Dimensional AgInS₂/SnS₂/RGO Dual Heterojunctions: High Spatial Charge and Toxicity Evaluation. Langmuir, 2020, 36, 9709-9718.	3.5	11
78	Graphitic Carbon Nitride Microtubes for Efficient Photocatalytic Overall Water Splitting: The Morphology Derived Electrical Field Enhancement. ACS Sustainable Chemistry and Engineering, 2020, 8, 14386-14396.	6.7	39
79	New Insight into the Effects of NH₃ on SO₂ Poisoning for In Situ Removal of Metal Sulfates in Low-Temperature NH₃-SCR over an Feâ€“V Catalyst. Journal of Physical Chemistry C, 2020, 124, 21396-21406.	3.1	25
80	N Evolution and Physiochemical Structure Changes in Chars during Co-Pyrolysis: Effects of Abundance of Glucose in Fiberboard. Energies, 2020, 13, 5105.	3.1	9
81	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
82	Microwave-Assisted Dry and Bi-reforming of Methane over Mâ€“Mo/TiO₂ (M = Co, Cu) Bimetallic Catalysts. Energy & Fuels, 2020, 34, 7284-7294.	5.1	28
83	Rational Catalyst Design for N₂ Reduction under Ambient Conditions: Strategies toward Enhanced Conversion Efficiency. ACS Catalysis, 2020, 10, 6870-6899.	11.2	273
84	Heterogeneous activation of peroxymonosulfate by hierarchically porous cobalt/iron bimetallic oxide nanosheets for degradation of phenol solutions. Chemosphere, 2020, 256, 127160.	8.2	40
85	A Porous Nano-Micro-Composite as a High-Performance Bi-Functional Air Electrode with Remarkable Stability for Rechargeable Zincâ€“Air Batteries. Nano-Micro Letters, 2020, 12, 130.	27.0	52
86	Insights into the Adsorption of VOCs on a Cobalt-Adeninate Metalâ€“Organic Framework (Bio-MOF-11). ACS Omega, 2020, 5, 15402-15408.	3.5	45
87	Synergy of NiO quantum dots and temperature on enhanced photocatalytic and thermophoto hydrogen evolution. Chemical Engineering Journal, 2020, 390, 124634.	12.7	27
88	Simulation of Solid Oxide Fuel Cell Anode in Aspen HYSYSâ€”A Study on the Effect of Reforming Activity on Distributed Performance Profiles, Carbon Formation, and Anode Oxidation Risk. Processes, 2020, 8, 268.	2.8	5
89	Porous Carbons: Structureâ€Oriented Design and Versatile Applications. Advanced Functional Materials, 2020, 30, 1909265.	14.9	316
90	Functional carbon nitride materials for water oxidation: from heteroatom doping to interface engineering. Nanoscale, 2020, 12, 6937-6952.	5.6	34

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91	Understanding of the Oxidation Behavior of Benzyl Alcohol by Peroxymonosulfate via Carbon Nanotubes Activation. ACS Catalysis, 2020, 10, 3516-3525.	11.2	178
92	Nitrogen-doped Carbon Nanospheres-Modified Graphitic Carbon Nitride with Outstanding Photocatalytic Activity. Nano-Micro Letters, 2020, 12, 24.	27.0	43
93	Volatileâ€“char interactions during biomass pyrolysis: Cleavage of Câ€“C bond in a Î²â€“5 lignin model dimer by amino-modified graphitized carbon nanotube. Bioresource Technology, 2020, 307, 123192.	9.6	30
94	An efficient and robust exfoliated bentonite/Ag₃PO₄/AgBr plasmonic photocatalyst for degradation of parabens. RSC Advances, 2020, 10, 16027-16037.	3.6	22
95	Electrodeposited Metal Organic Framework toward Excellent Hydrogen Sensing in an Ionic Liquid. ACS Applied Nano Materials, 2020, 3, 4376-4385.	5.0	24
96	Unzipping carbon nanotubes to nanoribbons for revealing the mechanism of nonradical oxidation by carbocatalysis. Applied Catalysis B: Environmental, 2020, 276, 119146.	20.2	108
97	Manganese-Based Spinel Coreâ€“Shell Nanostructures for Efficient Electrocatalysis of 1,2-Dichloroethane. ACS Applied Nano Materials, 2020, 3, 10778-10786.	5.0	17
98	Metal-free catalytic ozonation on surface-engineered graphene: Microwave reduction and heteroatom doping. Chemical Engineering Journal, 2019, 355, 118-129.	12.7	86
99	Boosting Fenton-Like Reactions via Single Atom Fe Catalysis. Environmental Science & Technology, 2019, 53, 11391-11400.	10.0	210
100	sp²/sp³ Framework from Diamond Nanocrystals: A Key Bridge of Carbonaceous Structure to Carbocatalysis. ACS Catalysis, 2019, 9, 7494-7519.	11.2	86
101	Phosphorous doped carbon nitride nanobelts for photodegradation of emerging contaminants and hydrogen evolution. Applied Catalysis B: Environmental, 2019, 257, 117931.	20.2	170
102	Photocatalytic reforming of biomass for hydrogen production over ZnS nanoparticles modified carbon nitride nanosheets. Journal of Colloid and Interface Science, 2019, 555, 22-30.	9.4	31
103	Degradation of Cosmetic Microplastics via Functionalized Carbon Nanosprings. Matter, 2019, 1, 745-758.	10.0	306
104	Visible-light-driven sonophotocatalysis and peroxymonosulfate activation over 3D urchin-like MoS2/C nanoparticles for accelerating levofloxacin elimination: Optimization and kinetic study. Chemical Engineering Journal, 2019, 378, 122039.	12.7	75
105	Oxygen Vacancy-rich Porous Co₃O₄ Nanosheets toward Boosted NO Reduction by CO and CO Oxidation: Insights into the Structureâ€“Activity Relationship and Performance Enhancement Mechanism. ACS Applied Materials & Interfaces, 2019, 11, 41988-41999.	8.0	113
106	Adaptive observer based approach for the fault diagnosis in solid oxide fuel cells. Journal of Process Control, 2019, 84, 101-114.	3.3	22
107	Graphitic Carbon Nitride Decorated with CoP Nanocrystals for Enhanced Photocatalytic and Photoelectrochemical H₂ Evolution. Energy & Fuels, 2019, 33, 11663-11676.	5.1	31
108	Manganese oxide integrated catalytic ceramic membrane for degradation of organic pollutants using sulfate radicals. Water Research, 2019, 167, 115110.	11.3	165

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109	System Level Exergy Assessment of Strategies Deployed for Solid Oxide Fuel Cell Stack Temperature Regulation and Thermal Gradient Reduction. Industrial & Engineering Chemistry Research, 2019, 58, 2258-2267.	3.7	11
110	Functionalized nitrogen-doped carbon dot-modified yolkâ€“shell ZnFe₂O₄ nanospheres with highly efficient light harvesting and superior catalytic activity. Nanoscale, 2019, 11, 3877-3887.	5.6	37
111	Adsorption of cerium (III) by HKUST-1 metal-organic framework from aqueous solution. Journal of Colloid and Interface Science, 2019, 542, 421-428.	9.4	81
112	Nickel in hierarchically structured nitrogen-doped graphene for robust and promoted degradation of antibiotics. Journal of Cleaner Production, 2019, 218, 202-211.	9.3	43
113	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. Polymers, 2019, 11, 1031.	4.5	17
114	Origins of boron catalysis in peroxymonosulfate activation and advanced oxidation. Journal of Materials Chemistry A, 2019, 7, 23904-23913.	10.3	67
115	Interfacial-engineered cobalt@carbon hybrids for synergistically boosted evolution of sulfate radicals toward green oxidation. Applied Catalysis B: Environmental, 2019, 256, 117795.	20.2	117
116	Cuprous/Vanadium Sites on MIL-101 for Selective CO Adsorption from Gas Mixtures with Superior Stability. ACS Sustainable Chemistry and Engineering, 2019, 7, 11284-11292.	6.7	39
117	Facile Synthesis of Di-Mannitol Adipate Ester-Based Zinc Metal Alkoxide as a Bi-Functional Additive for Poly(Vinyl Chloride). Polymers, 2019, 11, 813.	4.5	15
118	Cobalt@nitrogen-doped bamboo-structured carbon nanotube to boost photocatalytic hydrogen evolution on carbon nitride. Applied Catalysis B: Environmental, 2019, 254, 443-451.	20.2	72
119	Efficient removal of organic pollutants by ceramic hollow fibre supported composite catalyst. Sustainable Materials and Technologies, 2019, 20, e00108.	3.3	30
120	Model based evaluation of the electrochemical reaction sites in solid oxide fuel cell electrodes. International Journal of Hydrogen Energy, 2019, 44, 8439-8459.	7.1	3
121	Design and engineering heterojunctions for the photoelectrochemical monitoring of environmental pollutants: A review. Applied Catalysis B: Environmental, 2019, 248, 405-422.	20.2	141
122	Seaweed-Derived Nitrogen-Rich Porous Biomass Carbon as Bifunctional Materials for Effective Electrocatalytic Oxygen Reduction and High-Performance Gaseous Toluene Absorbent. ACS Sustainable Chemistry and Engineering, 2019, 7, 5057-5064.	6.7	43
123	Editorial: Environmental Catalysis and the Corresponding Catalytic Mechanism. Frontiers in Chemistry, 2019, 7, 75.	3.6	4
124	The bioelectrochemical synthesis of high-quality carbon dots with strengthened electricity output and excellent catalytic performance. Nanoscale, 2019, 11, 4428-4437.	5.6	19
125	A steady-state and dynamic simulation tool for solid oxide fuel cell operation applications. Computer Aided Chemical Engineering, 2019, 46, 595-600.	0.5	1
126	Grand Challenges in Environmental Nanotechnology. Frontiers in Nanotechnology, 2019, 1, .	4.8	20

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127	Photo-driven bioelectrochemical photocathode with polydopamine-coated TiO2 nanotubes for self-sustaining MoS2 synthesis to facilitate hydrogen evolution. Journal of Power Sources, 2019, 413, 310-317.	7.8	49
128	Resemblance in Corrosion Behavior of Selective Laser Melted and Traditional Monolithic Î² Ti-24Nb-4Zr-8Sn Alloy. ACS Biomaterials Science and Engineering, 2019, 5, 1141-1149.	5.2	75
129	Enhancing interfacial charge transfer on novel 3D/1D multidimensional MoS2/TiO2 heterojunction toward efficient photoelectrocatalytic removal of levofloxacin. Electrochimica Acta, 2019, 295, 810-821.	5.2	38
130	Magnetic Ni-Co alloy encapsulated N-doped carbon nanotubes for catalytic membrane degradation of emerging contaminants. Chemical Engineering Journal, 2019, 362, 251-261.	12.7	164
131	Pyrolysis of palm kernel shell with internal recycling of heavy oil. Bioresource Technology, 2019, 272, 77-82.	9.6	51
132	Statistical methodâ€based calibration and validation of a solid oxide fuel cell model. International Journal of Energy Research, 2019, 43, 2478-2500.	4.5	3
133	Application of Biochar Derived From Pyrolysis of Waste Fiberboard on Tetracycline Adsorption in Aqueous Solution. Frontiers in Chemistry, 2019, 7, 943.	3.6	39
134	B-Site Cation-Ordered Double-Perovskite Oxide as an Outstanding Electrode Material for Supercapacitive Energy Storage Based on the Anion Intercalation Mechanism. ACS Applied Materials & Interfaces, 2018, 10, 9415-9423.	8.0	69
135	Worm-like FeS₂/TiO₂ Nanotubes for Photoelectrocatalytic Reduction of CO₂ to Methanol under Visible Light. Energy & Fuels, 2018, 32, 4357-4363.	5.1	37
136	Heterostructured WO₃@CoWO₄ bilayer nanosheets for enhanced visible-light photo, electro and photoelectro-chemical oxidation of water. Journal of Materials Chemistry A, 2018, 6, 6265-6272.	10.3	79
137	Metal-Free Carbocatalysis in Advanced Oxidation Reactions. Accounts of Chemical Research, 2018, 51, 678-687.	15.6	968
138	One-step synthesis of flour-derived functional nanocarbons with hierarchical pores for versatile environmental applications. Chemical Engineering Journal, 2018, 347, 432-439.	12.7	56
139	0D (MoS2)/2D (g-C3N4) heterojunctions in Z-scheme for enhanced photocatalytic and electrochemical hydrogen evolution. Applied Catalysis B: Environmental, 2018, 228, 64-74.	20.2	298
140	Enhanced photoeletrocatalytic reduction dechlorinations of PCP by Ru-Pd BQDs anchored Titania NAEs composites with double Schottky junctions: First-principles evidence and experimental verifications. Applied Catalysis B: Environmental, 2018, 227, 499-511.	20.2	25
141	High performance heterojunction photocatalytic membranes formed by embedding Cu₂O and TiO₂nanowires in reduced graphene oxide. Catalysis Science and Technology, 2018, 8, 1704-1711.	4.1	23
142	Cascade applications of robust MIL-96 metal organic frameworks in environmental remediation: Proof of concept. Chemical Engineering Journal, 2018, 341, 262-271.	12.7	26
143	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
144	Enhanced CO₂ Adsorption and Selectivity of CO₂/N₂ on Amino-MIL-53(Al) Synthesized by Polar Co-solvents. Energy & Fuels, 2018, 32, 4502-4510.	5.1	39

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145	Numerical study of fog formation around ambient air vaporizers. Chemical Engineering Science, 2018, 183, 37-46.	3.8	12
146	Highly Defective Layered Double Perovskite Oxide for Efficient Energy Storage via Reversible Pseudocapacitive Oxygenâ€Anion Intercalation. Advanced Energy Materials, 2018, 8, 1702604.	19.5	99
147	Inherently Catalyzed Boudouard Reaction of Bamboo Biochar for Solid Oxide Fuel Cells with Improved Performance. Energy & Fuels, 2018, 32, 4559-4568.	5.1	14
148	Submicron sized water-stable metal organic framework (bio-MOF-11) for catalytic degradation of pharmaceuticals and personal care products. Chemosphere, 2018, 196, 105-114.	8.2	96
149	Direct Operation of Solid Oxide Fuel Cells on Low-Concentration Oxygen-Bearing Coal-Bed Methane with High Stability. Energy & Fuels, 2018, 32, 4547-4558.	5.1	16
150	Pt-Free microengines at extremely low peroxide levels. Chemical Communications, 2018, 54, 4653-4656.	4.1	24
151	Sustainability assessment of symbiotic processes for the reuse of phosphogypsum. Journal of Cleaner Production, 2018, 188, 497-507.	9.3	56
152	Co@C/CoOx coupled with N-doped layer-structured carbons for excellent CO2 capture and oxygen reduction reaction. Carbon, 2018, 133, 306-315.	10.3	34
153	Effects of -NO2 and -NH2 functional groups in mixed-linker Zr-based MOFs on gas adsorption of CO2 and CH4. Progress in Natural Science: Materials International, 2018, 28, 160-167.	4.4	72
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