

Fang Deng

List of Publications by Year in descending order

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56
papers

4,071
citations

126907

33
h-index

149698

56
g-index

56
all docs

56
docs citations

56
times ranked

3617
citing authors

#	ARTICLE	IF	CITATIONS
1	Identification and Regulation of Active Sites on Nanodiamonds: Establishing a Highly Efficient Catalytic System for Oxidation of Organic Contaminants. <i>Advanced Functional Materials</i> , 2018, 28, 1705295.	14.9	370
2	Potential Difference Driving Electron Transfer via Defective Carbon Nanotubes toward Selective Oxidation of Organic Micropollutants. <i>Environmental Science & Technology</i> , 2020, 54, 8464-8472.	10.0	288
3	Rapid toxicity elimination of organic pollutants by the photocatalysis of environment-friendly and magnetically recoverable step-scheme SnFe ₂ O ₄ /ZnFe ₂ O ₄ nano-heterojunctions. <i>Chemical Engineering Journal</i> , 2020, 379, 122264.	12.7	238
4	Removal of Antimonite (Sb(III)) and Antimonate (Sb(V)) from Aqueous Solution Using Carbon Nanofibers That Are Decorated with Zirconium Oxide (ZrO ₂). <i>Environmental Science & Technology</i> , 2015, 49, 11115-11124.	10.0	233
5	Exceptional adsorption of arsenic by zirconium metal-organic frameworks: Engineering exploration and mechanism insight. <i>Journal of Colloid and Interface Science</i> , 2019, 539, 223-234.	9.4	213
6	The facile fabrication of novel visible-light-driven Z-scheme CuInS ₂ /Bi ₂ WO ₆ heterojunction with intimate interface contact by in situ hydrothermal growth strategy for extraordinary photocatalytic performance. <i>Chemical Engineering Journal</i> , 2019, 356, 819-829.	12.7	177
7	Gradient Hydrogen Migration Modulated with Self-Adapting S Vacancy in Copper-Doped ZnIn ₂ S ₄ Nanosheet for Photocatalytic Hydrogen Evolution. <i>ACS Nano</i> , 2021, 15, 15238-15248.	14.6	173
8	Revisiting the Graphitized Nanodiamond-Mediated Activation of Peroxymonosulfate: Singlet Oxygenation versus Electron Transfer. <i>Environmental Science & Technology</i> , 2021, 55, 16078-16087.	10.0	155
9	Lattice-Defect-Enhanced Adsorption of Arsenic on Zirconia Nanospheres: A Combined Experimental and Theoretical Study. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 29736-29745.	8.0	121
10	Design and synthesis of robust Z-scheme ZnS-SnS ₂ n-n heterojunctions for highly efficient degradation of pharmaceutical pollutants: Performance, valence/conduction band offset photocatalytic mechanisms and toxicity evaluation. <i>Journal of Hazardous Materials</i> , 2020, 392, 122345.	12.4	121
11	Visible-light-driven Z-scheme rGO/Bi ₂ S ₃ @BiOBr heterojunctions with tunable exposed BiOBr (102) facets for efficient synchronous photocatalytic degradation of 2-nitrophenol and Cr(VI) reduction. <i>Environmental Science: Nano</i> , 2019, 6, 3670-3683.	4.3	113
12	Evaluating the adsorptivity of organo-functionalized silica nanoparticles towards heavy metals: Quantitative comparison and mechanistic insight. <i>Journal of Hazardous Materials</i> , 2020, 387, 121676.	12.4	111
13	Efficient Removal of Antimony (III, V) from Contaminated Water by Amino Modification of a Zirconium Metal-Organic Framework with Mechanism Study. <i>Journal of Chemical & Engineering Data</i> , 2017, 62, 1519-1529.	1.9	93
14	MOF-derived magnetic porous carbon-based sorbent: Synthesis, characterization, and adsorption behavior of organic micropollutants. <i>Advanced Powder Technology</i> , 2017, 28, 1769-1779.	4.1	92
15	The band structure control of visible-light-driven rGO/ZnS-MoS ₂ for excellent photocatalytic degradation performance and long-term stability. <i>Chemical Engineering Journal</i> , 2018, 350, 248-256.	12.7	92
16	Heterogeneous Fenton-like catalysis of Fe-MOF derived magnetic carbon nanocomposites for degradation of 4-nitrophenol. <i>RSC Advances</i> , 2017, 7, 49024-49030.	3.6	87
17	Building electrode with three-dimensional macroporous interface from biocompatible polypyrrole and conductive graphene nanosheets to achieve highly efficient microbial electrocatalysis. <i>Biosensors and Bioelectronics</i> , 2019, 141, 111444.	10.1	81
18	Electrochemical recovery and high value-added reutilization of heavy metal ions from wastewater: Recent advances and future trends. <i>Environment International</i> , 2021, 152, 106512.	10.0	81

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19	Enhanced photocatalytic degradation and H ₂ evolution performance of N CDs/S-C ₃ N ₄ S-scheme heterojunction constructed by π - π conjugate self-assembly. <i>Journal of Materials Science and Technology</i> , 2022, 114, 222-232.	10.7	71
20	Recovery of Silver from Wastewater Using a New Magnetic Photocatalytic Ion-Imprinted Polymer. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 2090-2097.	6.7	70
21	Porous Z-scheme MnO ₂ /Mn-modified alkalized g-C ₃ N ₄ heterojunction with excellent Fenton-like photocatalytic activity for efficient degradation of pharmaceutical pollutants. <i>Separation and Purification Technology</i> , 2020, 246, 116890.	7.9	69
22	Solvothermal synthesis of Z-scheme AgIn ₅ S ₈ /Bi ₂ WO ₆ nano-heterojunction with excellent performance for photocatalytic degradation and Cr(VI) reduction. <i>Journal of Alloys and Compounds</i> , 2019, 805, 41-49.	5.5	68
23	Removal of Cadmium(II) from Wastewater Using Novel Cadmium Ion-Imprinted Polymers. <i>Journal of Chemical & Engineering Data</i> , 2015, 60, 3253-3261.	1.9	66
24	Defect-rich porous carbon with anti-interference capability for adsorption of bisphenol A via long-range hydrophobic interaction synergized with short-range dispersion force. <i>Journal of Hazardous Materials</i> , 2021, 403, 123705.	12.4	66
25	Protonation of rhodanine polymers for enhancing the capture and recovery of Ag ⁺ from highly acidic wastewater. <i>Environmental Science: Nano</i> , 2019, 6, 3307-3315.	4.3	62
26	Thiol-rich, porous carbon for the efficient capture of silver: Understanding the relationship between the surface groups and transformation pathways of silver. <i>Chemical Engineering Journal</i> , 2022, 427, 131470.	12.7	60
27	A comparison of SMX degradation by persulfate activated with different nanocarbons: Kinetics, transformation pathways, and toxicity. <i>Applied Catalysis B: Environmental</i> , 2022, 310, 121345.	20.2	59
28	Activated biochar derived from pomelo peel as a high-capacity sorbent for removal of carbamazepine from aqueous solution. <i>RSC Advances</i> , 2017, 7, 54969-54979.	3.6	58
29	Double-defect-induced polarization enhanced OV-BiOBr/Cu ^x S high-low junction for boosted photoelectrochemical hydrogen evolution. <i>Applied Catalysis B: Environmental</i> , 2022, 314, 121502.	20.2	58
30	Nd ₂ (S, Se, Te) ₃ Colloidal Quantum Dots: Synthesis, Energy Level Alignment, Charge Transfer Dynamics, and Their Applications to Solar Cells. <i>Advanced Functional Materials</i> , 2016, 26, 254-266.	14.9	53
31	Rationally designed conjugated microporous polymers for contaminants adsorption. <i>Science of the Total Environment</i> , 2021, 750, 141683.	8.0	45
32	Efficient antimony removal by self-assembled core-shell nanocomposite of Co ₃ O ₄ @rGO and the analysis of its adsorption mechanism. <i>Environmental Research</i> , 2020, 187, 109657.	7.5	39
33	Synthesis of magnetic ion-imprinted fluorescent CdTe quantum dots by chemical etching and their visualization application for selective removal of Cd(II) from water. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2014, 462, 186-193.	4.7	36
34	High exposure effect of the adsorption site significantly enhanced the adsorption capacity and removal rate: A case of adsorption of hexavalent chromium by quaternary ammonium polymers (QAPs). <i>Journal of Hazardous Materials</i> , 2021, 416, 125829.	12.4	36
35	New insight on the adsorption capacity of metallogels for antimonite and antimonate removal: From experimental to theoretical study. <i>Journal of Hazardous Materials</i> , 2018, 346, 218-225.	12.4	35
36	Carbon quantum dot-sensitized and tunable luminescence of Ca ₁₉ Mg ₂ (PO ₄) ₁₄ :Ln ³⁺ (Ln ³⁺ = Tj, ET, Qq, O, O, rg, BT /Ove <i>via</i> a sol-gel process. <i>Journal of Materials Chemistry C</i> , 2019, 7, 2361-2375.	5.5	29

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37	Simultaneous heavy metals removal via in situ construction of multivariate metal-organic gels in actual wastewater and the reutilization for Sb(V) capture. <i>Chemical Engineering Journal</i> , 2020, 400, 125359.	12.7	23
38	Reduced graphene oxide enhanced magnetic nanocomposites for removal of carbamazepine. <i>Journal of Materials Science</i> , 2018, 53, 15474-15486.	3.7	22
39	Insights into ion imprinted membrane with a delayed permeation mechanism for enhancing Cd ²⁺ selective separation. <i>Journal of Hazardous Materials</i> , 2021, 416, 125772.	12.4	20
40	Electrodeposited graphene hybridized graphitic carbon nitride anchoring ultrafine palladium nanoparticles for remarkable methanol electrooxidation. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 21483-21492.	7.1	19
41	Conducting polymer hydrogels as a sustainable platform for advanced energy, biomedical and environmental applications. <i>Science of the Total Environment</i> , 2021, 786, 147430.	8.0	19
42	Random Terpolymer Designed with Tunable Fluorescence Lifetime for Efficient Organic/Inorganic Hybrid Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 17408-17415.	8.0	17
43	Revisiting the adsorption of antimony on manganese dioxide: The overlooked dissolution of manganese. <i>Chemical Engineering Journal</i> , 2022, 429, 132468.	12.7	16
44	Facile solvothermal fabrication of cubic-like reduced graphene oxide/AgIn ₅ S ₈ nanocomposites with anti-photocorrosion and high visible-light photocatalytic performance for highly-efficient treatment of nitrophenols and real pharmaceutical wastewater. <i>Applied Catalysis A: General</i> , 2018, 565, 170-180.	4.3	15
45	Monodisperse spherical sandwiched core-shell structured SiO ₂ Au Ta ₂ O ₅ and SiO ₂ Au Ta ₃ N ₅ composites as visible-light plasmonic photocatalysts. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 20546-20562.	7.1	13
46	Engineering paths of sustainable and green photocatalytic degradation technology for pharmaceuticals and organic contaminants of emerging concern. <i>Current Opinion in Green and Sustainable Chemistry</i> , 2021, 29, 100465.	5.9	13
47	Bandgap engineering of hierarchical network-like SnIn ₄ S ₈ microspheres through preparation temperature for excellent photocatalytic performance and high stability. <i>Green Energy and Environment</i> , 2019, 4, 264-269.	8.7	12
48	Tuning the performance of the non-fullerene organic solar cells by the polarizability. <i>RSC Advances</i> , 2018, 8, 3809-3815.	3.6	10
49	Insights into the binding manners of an Fe doped MOF-808 in high-performance adsorption: a case of antimony adsorption. <i>Environmental Science: Nano</i> , 2022, 9, 254-264.	4.3	10
50	Efficient heterojunction solar cells based on the synergy between planarity and dipole moment in fluorinated-thienothiophenes-based donor-acceptor polymers. <i>Synthetic Metals</i> , 2018, 245, 42-50.	3.9	9
51	Tandem type PRBs-like technology implanted with targeted functional materials for efficient resourceful treatment of heavy metal ions from mining wastewater. <i>Chemical Engineering Journal</i> , 2021, 420, 130506.	12.7	9
52	Synthesis of anatase TiO ₂ in a vinyl-containing ionic liquid and its enhanced photocatalytic activity. <i>Research on Chemical Intermediates</i> , 2013, 39, 2857-2865.	2.7	7
53	Bacteria-affinity aminated carbon nanotubes bridging reduced graphene oxide for highly efficient microbial electrocatalysis. <i>Environmental Research</i> , 2020, 191, 110212.	7.5	7
54	Perfluorinated conjugated microporous polymer for targeted capture of Ag(I) from contaminated water. <i>Environmental Research</i> , 2022, 211, 113007.	7.5	5

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55	Rapid and selective recycling of Ag(I) from wastewater through an allylrhodanine functionalized micro-filtration membrane. <i>Chemical Engineering Journal</i> , 2022, , 136376.	12.7	4
56	Tuning the fluorescence lifetime of donor polymers containing different proportion of electron withdrawing groups in hybrid solar cells. <i>Synthetic Metals</i> , 2016, 221, 19-24.	3.9	2