

Danmeng Shuai

List of Publications by Year in descending order

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Version: 2024-02-01

50
papers

2,472
citations

201385

27
h-index

197535

49
g-index

52
all docs

52
docs citations

52
times ranked

3302
citing authors

#	ARTICLE	IF	CITATIONS
1	Graphitic carbon nitride (g-C ₃ N ₄)-based photocatalysts for water disinfection and microbial control: A review. <i>Chemosphere</i> , 2019, 214, 462-479.	4.2	304
2	Visible-Light-Responsive Graphitic Carbon Nitride: Rational Design and Photocatalytic Applications for Water Treatment. <i>Environmental Science & Technology</i> , 2016, 50, 12938-12948.	4.6	261
3	Progress and challenges in photocatalytic disinfection of waterborne Viruses: A review to fill current knowledge gaps. <i>Chemical Engineering Journal</i> , 2019, 355, 399-415.	6.6	207
4	Visible-light-driven photocatalytic inactivation of MS2 by metal-free g-C ₃ N ₄ : Virucidal performance and mechanism. <i>Water Research</i> , 2016, 106, 249-258.	5.3	145
5	Visible-light-driven photocatalytic disinfection of human adenovirus by a novel heterostructure of oxygen-doped graphitic carbon nitride and hydrothermal carbonation carbon. <i>Applied Catalysis B: Environmental</i> , 2019, 248, 11-21.	10.8	101
6	Enhanced Activity and Selectivity of Carbon Nanofiber Supported Pd Catalysts for Nitrite Reduction. <i>Environmental Science & Technology</i> , 2012, 46, 2847-2855.	4.6	98
7	Tailored Synthesis of Photoactive TiO ₂ Nanofibers and Au/TiO ₂ Nanofiber Composites: Structure and Reactivity Optimization for Water Treatment Applications. <i>Environmental Science & Technology</i> , 2015, 49, 1654-1663.	4.6	98
8	Enhanced neural stem cell functions in conductive annealed carbon nanofibrous scaffolds with electrical stimulation. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2018, 14, 2485-2494.	1.7	89
9	Elucidation of Nitrate Reduction Mechanisms on a Pd–Ni Bimetallic Catalyst using Isotope Labeled Nitrogen Species. <i>ChemCatChem</i> , 2013, 5, 313-321.	1.8	83
10	Structure Sensitivity Study of Waterborne Contaminant Hydrogenation Using Shape- and Size-Controlled Pd Nanoparticles. <i>ACS Catalysis</i> , 2013, 3, 453-463.	5.5	74
11	Electrocatalytic hydrodechlorination of 4-chlorobiphenyl in aqueous solution using palladized nickel foam cathode. <i>Chemosphere</i> , 2007, 67, 1361-1367.	4.2	66
12	Visible-light-driven, water-surface-floating antimicrobials developed from graphitic carbon nitride and expanded perlite for water disinfection. <i>Chemosphere</i> , 2018, 208, 84-92.	4.2	64
13	Graphitic Carbon Nitride Supported Ultrafine Pd and Pd–Cu Catalysts: Enhanced Reactivity, Selectivity, and Longevity for Nitrite and Nitrate Hydrogenation. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 27421-27426.	4.0	54
14	Development of palladium-resin composites for catalytic hydrodechlorination of 4-chlorophenol. <i>Applied Catalysis B: Environmental</i> , 2017, 205, 576-586.	10.8	53
15	Sustainable and scalable natural fiber welded palladium-indium catalysts for nitrate reduction. <i>Applied Catalysis B: Environmental</i> , 2018, 221, 290-301.	10.8	50
16	Mechanism of humic acid fouling in a photocatalytic membrane system. <i>Journal of Membrane Science</i> , 2018, 563, 531-540.	4.1	46
17	Looking at the overlooked hole oxidation: Photocatalytic transformation of organic contaminants on graphitic carbon nitride under visible light irradiation. <i>Applied Catalysis B: Environmental</i> , 2019, 240, 262-269.	10.8	41
18	Simultaneous coupling of photocatalytic and biological processes: A promising synergistic alternative for enhancing decontamination of recalcitrant compounds in water. <i>Chemical Engineering Journal</i> , 2021, 403, 126365.	6.6	39

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19	Selective sorption of perfluorooctane sulfonate on molecularly imprinted polymer adsorbents. <i>Frontiers of Environmental Science and Engineering in China</i> , 2009, 3, 171-177.	0.8	38
20	Effects of anodic oxidation of a substoichiometric titanium dioxide reactive electrochemical membrane on algal cell destabilization and lipid extraction. <i>Bioresource Technology</i> , 2016, 203, 112-117.	4.8	37
21	3D printed photoreactor with immobilized graphitic carbon nitride: A sustainable platform for solar water purification. <i>Journal of Hazardous Materials</i> , 2020, 399, 123097.	6.5	37
22	Continuous photocatalysis via photo-charging and dark-discharging for sustainable environmental remediation: Performance, mechanism, and influencing factors. <i>Journal of Hazardous Materials</i> , 2021, 420, 126607.	6.5	37
23	Fe-based single-atom catalysis for oxidizing contaminants of emerging concern by activating peroxides. <i>Journal of Hazardous Materials</i> , 2021, 418, 126294.	6.5	34
24	Enhancement of Oxyanion and Diatrizoate Reduction Kinetics Using Selected Azo Dyes on Pd-Based Catalysts. <i>Environmental Science & Technology</i> , 2010, 44, 1773-1779.	4.6	33
25	Catalytic reduction of 4-nitrophenol by palladium-resin composites. <i>Applied Catalysis A: General</i> , 2017, 543, 209-217.	2.2	33
26	Emerging investigators series: advances and challenges of graphitic carbon nitride as a visible-light-responsive photocatalyst for sustainable water purification. <i>Environmental Science: Water Research and Technology</i> , 2017, 3, 982-1001.	1.2	33
27	Enhancement of Nitrite Reduction Kinetics on Electrospun Pd-Carbon Nanomaterial Catalysts for Water Purification. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 17739-17744.	4.0	32
28	Development of Electrospun Nanofibrous Filters for Controlling Coronavirus Aerosols. <i>Environmental Science and Technology Letters</i> , 2021, 8, 545-550.	3.9	30
29	Lignocellulose Fiber- and Welded Fiber- Supports for Palladium-Based Catalytic Hydrogenation: A Natural Fiber Welding Application for Water Treatment. <i>ACS Sustainable Chemistry and Engineering</i> , 2016, 4, 5511-5522.	3.2	29
30	Photocatalytic graphitic carbon nitride-chitosan composites for pathogenic biofilm control under visible light irradiation. <i>Journal of Hazardous Materials</i> , 2021, 408, 124890.	6.5	26
31	Visible-Light-Responsive Photocatalyst of Graphitic Carbon Nitride for Pathogenic Biofilm Control. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 373-384.	4.0	25
32	Radical-Driven Decomposition of Graphitic Carbon Nitride Nanosheets: Light Exposure Matters. <i>Environmental Science & Technology</i> , 2021, 55, 12414-12423.	4.6	25
33	Photocatalytic degradation of trihalomethanes and haloacetonitriles on graphitic carbon nitride under visible light irradiation. <i>Science of the Total Environment</i> , 2019, 682, 200-207.	3.9	20
34	Emerging Pathogenic Unit of Vesicle-Cloaked Murine Norovirus Clusters is Resistant to Environmental Stresses and UV ₂₅₄ Disinfection. <i>Environmental Science & Technology</i> , 2021, 55, 6197-6205.	4.6	17
35	Research highlights: antibiotic resistance genes: from wastewater into the environment. <i>Environmental Science: Water Research and Technology</i> , 2015, 1, 264-267.	1.2	15
36	Electrospun Nanofibrous Membranes for Controlling Airborne Viruses: Present Status, Standardization of Aerosol Filtration Tests, and Future Development. <i>ACS Environmental Au</i> , 2022, 2, 290-309.	3.3	12

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37	Waterborne Human Pathogenic Viruses in Complex Microbial Communities: Environmental Implication on Virus Infectivity, Persistence, and Disinfection. <i>Environmental Science & Technology</i> , 2022, 56, 5381-5389.	4.6	12
38	Pd Nanoparticle Catalysts Supported on Nitrogen-Functionalized Activated Carbon for Oxyanion Hydrogenation and Water Purification. <i>ACS Applied Nano Materials</i> , 2018, 1, 6580-6586.	2.4	10
39	Photosensitized Electrospun Nanofibrous Filters for Capturing and Killing Airborne Coronaviruses under Visible Light Irradiation. <i>Environmental Science & Technology</i> , 2022, 56, 4295-4304.	4.6	10
40	Vesicle-Cloaked Rotavirus Clusters are Environmentally Persistent and Resistant to Free Chlorine Disinfection. <i>Environmental Science & Technology</i> , 2022, 56, 8475-8484.	4.6	8
41	Environmental application of chlorine-doped graphitic carbon nitride: Continuous solar-driven photocatalytic production of hydrogen peroxide. <i>Journal of Hazardous Materials</i> , 2022, 436, 129251.	6.5	8
42	Acquisition of time- and frequency localized mechanical properties of biofilms and single cells with high spatial resolution. <i>Nanoscale</i> , 2019, 11, 8918-8929.	2.8	7
43	Research highlights: functions of the drinking water microbiome "from treatment to tap. <i>Environmental Science: Water Research and Technology</i> , 2016, 2, 245-249.	1.2	6
44	Research highlights: advances and challenges in developing mainstream anammox treatment. <i>Environmental Science: Water Research and Technology</i> , 2015, 1, 546-549.	1.2	5
45	Research highlights: visible light driven photocatalysis and photoluminescence and their applications in water treatment. <i>Environmental Science: Water Research and Technology</i> , 2016, 2, 13-16.	1.2	4
46	A New Geometric Method Based on Two-Dimensional Transmission Electron Microscopy for Analysis of Interior versus Exterior Pd Loading on Hollow Carbon Nanofibers. <i>Journal of Physical Chemistry Letters</i> , 2011, 2, 1082-1087.	2.1	3
47	Research highlights: applications of atomic force microscopy in natural and engineered water systems. <i>Environmental Science: Water Research and Technology</i> , 2016, 2, 415-420.	1.2	3
48	Antimicrobial Biocomposites Fiber-Welded with Lignocellulose Containing Silver Nanoparticles. <i>Macromolecular Materials and Engineering</i> , 2022, 307, .	1.7	3
49	Research highlights: under-recognized precursors and sources for disinfection byproduct formation. <i>Environmental Science: Water Research and Technology</i> , 2015, 1, 405-407.	1.2	2
50	Preferential leaching of indium metal during room temperature ionic liquid processing of Pd-In nanoparticle-biopolymer composites. <i>Materials Chemistry and Physics</i> , 2020, 249, 123179.	2.0	2