# Danmeng Shuai

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/9008637/publications.pdf

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|---|---|---|---|
| 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 | Antimicrobial Biocomposites Fiberâ€Welded with Lignocellulose Containing Silver Nanoparticles. Macromolecular Materials and Engineering, 2022, 307, . | 1.7 | 3 |
| 2 | Photosensitized Electrospun Nanofibrous Filters for Capturing and Killing Airborne Coronaviruses under Visible Light Irradiation. Environmental Science & Technology, 2022, 56, 4295-4304. | 4.6 | 10 |
| 3 | Electrospun Nanofibrous Membranes for Controlling Airborne Viruses: Present Status, Standardization of Aerosol Filtration Tests, and Future Development. ACS Environmental Au, 2022, 2, 290-309. | 3.3 | 12 |
| 4 | Waterborne Human Pathogenic Viruses in Complex Microbial Communities: Environmental Implication on Virus Infectivity, Persistence, and Disinfection. Environmental Science & Technology, 2022, 56, 5381-5389. | 4.6 | 12 |
| 5 | Vesicle-Cloaked Rotavirus Clusters are Environmentally Persistent and Resistant to Free Chlorine Disinfection. Environmental Science & Technology, 2022, 56, 8475-8484. | 4.6 | 8 |
| 6 | Environmental application of chlorine-doped graphitic carbon nitride: Continuous solar-driven photocatalytic production of hydrogen peroxide. Journal of Hazardous Materials, 2022, 436, 129251. | 6.5 | 8 |
| 7 | Simultaneous coupling of photocatalytic and biological processes: A promising synergistic alternative for enhancing decontamination of recalcitrant compounds in water. Chemical Engineering Journal, 2021, 403, 126365. | 6.6 | 39 |
| 8 | Photocatalytic graphitic carbon nitride-chitosan composites for pathogenic biofilm control under visible light irradiation. Journal of Hazardous Materials, 2021, 408, 124890. | 6.5 | 26 |
| 9 | Emerging Pathogenic Unit of Vesicle-Cloaked Murine Norovirus Clusters is Resistant to Environmental Stresses and UV<sub>254</sub> Disinfection. Environmental Science & Technology, 2021, 55, 6197-6205. | 4.6 | 17 |
| 10 | Development of Electrospun Nanofibrous Filters for Controlling Coronavirus Aerosols. Environmental Science and Technology Letters, 2021, 8, 545-550. | 3.9 | 30 |
| 11 | Radical-Driven Decomposition of Graphitic Carbon Nitride Nanosheets: Light Exposure Matters. Environmental Science & Technology, 2021, 55, 12414-12423. | 4.6 | 25 |
| 12 | Fe-based single-atom catalysis for oxidizing contaminants of emerging concern by activating peroxides. Journal of Hazardous Materials, 2021, 418, 126294. | 6.5 | 34 |
| 13 | Continuous photocatalysis via photo-charging and dark-discharging for sustainable environmental remediation: Performance, mechanism, and influencing factors. Journal of Hazardous Materials, 2021, 420, 126607. | 6.5 | 37 |
| 14 | 3D printed photoreactor with immobilized graphitic carbon nitride: A sustainable platform for solar water purification. Journal of Hazardous Materials, 2020, 399, 123097. | 6.5 | 37 |
| 15 | Preferential leaching of indium metal during room temperature ionic liquid processing of Pdâ€“In nanoparticle-biopolymer composites. Materials Chemistry and Physics, 2020, 249, 123179. | 2.0 | 2 |
| 16 | Photocatalytic degradation of trihalomethanes and haloacetonitriles on graphitic carbon nitride under visible light irradiation. Science of the Total Environment, 2019, 682, 200-207. | 3.9 | 20 |
| 17 | Acquisition of timeâ€“frequency localized mechanical properties of biofilms and single cells with high spatial resolution. Nanoscale, 2019, 11, 8918-8929. | 2.8 | 7 |
| 18 | Visible-light-driven photocatalytic disinfection of human adenovirus by a novel heterostructure of oxygen-doped graphitic carbon nitride and hydrothermal carbonation carbon. Applied Catalysis B: Environmental, 2019, 248, 11-21. | 10.8 | 101 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Looking at the overlooked hole oxidation: Photocatalytic transformation of organic contaminants on graphitic carbon nitride under visible light irradiation. Applied Catalysis B: Environmental, 2019, 240, 262-269. | 10.8 | 41 |
| 20 | Progress and challenges in photocatalytic disinfection of waterborne Viruses: A review to fill current knowledge gaps. Chemical Engineering Journal, 2019, 355, 399-415. | 6.6 | 207 |
| 21 | Visible-Light-Responsive Photocatalyst of Graphitic Carbon Nitride for Pathogenic Biofilm Control. ACS Applied Materials & Interfaces, 2019, 11, 373-384. | 4.0 | 25 |
| 22 | Graphitic carbon nitride (g-C3N4)-based photocatalysts for water disinfection and microbial control: A review. Chemosphere, 2019, 214, 462-479. | 4.2 | 304 |
| 23 | Sustainable and scalable natural fiber welded palladium-indium catalysts for nitrate reduction. Applied Catalysis B: Environmental, 2018, 221, 290-301. | 10.8 | 50 |
| 24 | Pd Nanoparticle Catalysts Supported on Nitrogen-Functionalized Activated Carbon for Oxyanion Hydrogenation and Water Purification. ACS Applied Nano Materials, 2018, 1, 6580-6586. | 2.4 | 10 |
| 25 | Visible-light-driven, water-surface-floating antimicrobials developed from graphitic carbon nitride and expanded perlite for water disinfection. Chemosphere, 2018, 208, 84-92. | 4.2 | 64 |
| 26 | Mechanism of humic acid fouling in a photocatalytic membrane system. Journal of Membrane Science, 2018, 563, 531-540. | 4.1 | 46 |
| 27 | Enhanced neural stem cell functions in conductive annealed carbon nanofibrous scaffolds with electrical stimulation. Nanomedicine: Nanotechnology, Biology, and Medicine, 2018, 14, 2485-2494. | 1.7 | 89 |
| 28 | Development of palladium-resin composites for catalytic hydrodechlorination of 4-chlorophenol. Applied Catalysis B: Environmental, 2017, 205, 576-586. | 10.8 | 53 |
| 29 | Catalytic reduction of 4-nitrophenol by palladium-resin composites. Applied Catalysis A: General, 2017, 543, 209-217. | 2.2 | 33 |
| 30 | Graphitic Carbon Nitride Supported Ultrafine Pd and Pdâ€“Cu Catalysts: Enhanced Reactivity, Selectivity, and Longevity for Nitrite and Nitrate Hydrogenation. ACS Applied Materials & Interfaces, 2017, 9, 27421-27426. | 4.0 | 54 |
| 31 | Emerging investigators series: advances and challenges of graphitic carbon nitride as a visible-light-responsive photocatalyst for sustainable water purification. Environmental Science: Water Research and Technology, 2017, 3, 982-1001. | 1.2 | 33 |
| 32 | Enhancement of Nitrite Reduction Kinetics on Electrospun Pd-Carbon Nanomaterial Catalysts for Water Purification. ACS Applied Materials & Interfaces, 2016, 8, 17739-17744. | 4.0 | 32 |
| 33 | Research highlights: applications of atomic force microscopy in natural and engineered water systems. Environmental Science: Water Research and Technology, 2016, 2, 415-420. | 1.2 | 3 |
| 34 | Visible-light-driven photocatalytic inactivation of MS2 by metal-free g-C3N4: Virucidal performance and mechanism. Water Research, 2016, 106, 249-258. | 5.3 | 145 |
| 35 | Lignocellulose Fiber- and Welded Fiber- Supports for Palladium-Based Catalytic Hydrogenation: A Natural Fiber Welding Application for Water Treatment. ACS Sustainable Chemistry and Engineering, 2016, 4, 5511-5522. | 3.2 | 29 |
| 36 | Visible-Light-Responsive Graphitic Carbon Nitride: Rational Design and Photocatalytic Applications for Water Treatment. Environmental Science & Technology, 2016, 50, 12938-12948. | 4.6 | 261 |

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|---|---|---|---|
| 37 | Research highlights: functions of the drinking water microbiome â€“ from treatment to tap. Environmental Science: Water Research and Technology, 2016, 2, 245-249. | 1.2 | 6 |
| 38 | Effects of anodic oxidation of a substoichiometric titanium dioxide reactive electrochemical membrane on algal cell destabilization and lipid extraction. Bioresource Technology, 2016, 203, 112-117. | 4.8 | 37 |
| 39 | Research highlights: visible light driven photocatalysis and photoluminescence and their applications in water treatment. Environmental Science: Water Research and Technology, 2016, 2, 13-16. | 1.2 | 4 |
| 40 | Tailored Synthesis of Photoactive TiO<sub>2</sub> Nanofibers and Au/TiO<sub>2</sub> Nanofiber Composites: Structure and Reactivity Optimization for Water Treatment Applications. Environmental Science & Technology, 2015, 49, 1654-1663. | 4.6 | 98 |
| 41 | Research highlights: antibiotic resistance genes: from wastewater into the environment. Environmental Science: Water Research and Technology, 2015, 1, 264-267. | 1.2 | 15 |
| 42 | Research highlights: under-recognized precursors and sources for disinfection byproduct formation. Environmental Science: Water Research and Technology, 2015, 1, 405-407. | 1.2 | 2 |
| 43 | Research highlights: advances and challenges in developing mainstream anammox treatment. Environmental Science: Water Research and Technology, 2015, 1, 546-549. | 1.2 | 5 |
| 44 | Structure Sensitivity Study of Waterborne Contaminant Hydrogenation Using Shape- and Size-Controlled Pd Nanoparticles. ACS Catalysis, 2013, 3, 453-463. | 5.5 | 74 |
| 45 | Elucidation of Nitrate Reduction Mechanisms on a Pdâ€In Bimetallic Catalyst using Isotope Labeled Nitrogen Species. ChemCatChem, 2013, 5, 313-321. | 1.8 | 83 |
| 46 | Enhanced Activity and Selectivity of Carbon Nanofiber Supported Pd Catalysts for Nitrite Reduction. Environmental Science & Technology, 2012, 46, 2847-2855. | 4.6 | 98 |
| 47 | A New Geometric Method Based on Two-Dimensional Transmission Electron Microscopy for Analysis of Interior versus Exterior Pd Loading on Hollow Carbon Nanofibers. Journal of Physical Chemistry Letters, 2011, 2, 1082-1087. | 2.1 | 3 |
| 48 | Enhancement of Oxyanion and Diatrizoate Reduction Kinetics Using Selected Azo Dyes on Pd-Based Catalysts. Environmental Science & Technology, 2010, 44, 1773-1779. | 4.6 | 33 |
| 49 | Selective sorption of perfluorooctane sulfonate on molecularly imprinted polymer adsorbents. Frontiers of Environmental Science and Engineering in China, 2009, 3, 171-177. | 0.8 | 38 |
| 50 | Electrocatalytic hydrodechlorination of 4-chlorobiphenyl in aqueous solution using palladized nickel foam cathode. Chemosphere, 2007, 67, 1361-1367. | 4.2 | 66 |