

Xiangkang Zeng

List of Publications by Year in descending order

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Version: 2024-02-01

34
papers

3,248
citations

218381

26
h-index

360668

35
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36
all docs

36
docs citations

36
times ranked

3581
citing authors

#	ARTICLE	IF	CITATIONS
1	Activation of peroxydisulfate by defect-rich CuO nanoparticles supported on layered MgO for organic pollutants degradation: An electron transfer mechanism. <i>Chemical Engineering Journal</i> , 2022, 431, 134026.	6.6	29
2	Monodispersed CuO nanoparticles supported on mineral substrates for groundwater remediation via a nonradical pathway. <i>Journal of Hazardous Materials</i> , 2022, 429, 128282.	6.5	17
3	Solar-Driven Photocatalytic Disinfection Over 2D Semiconductors: The Generation and Effects of Reactive Oxygen Species. <i>Solar Rrl</i> , 2021, 5, 2000594.	3.1	20
4	Oxygen vacant Co ₃ O ₄ in situ embedded on carbon spheres: cooperatively tuning electron transfer for boosted peroxydisulfate activation. <i>Journal of Materials Chemistry A</i> , 2021, 9, 16489-16499.	5.2	41
5	Photoredox catalysis over semiconductors for light-driven hydrogen peroxide production. <i>Green Chemistry</i> , 2021, 23, 1466-1494.	4.6	166
6	Engineering mesoporous semiconducting metal oxides from metal-organic frameworks for gas sensing. <i>Coordination Chemistry Reviews</i> , 2021, 445, 214086.	9.5	67
7	Production of Hydrogen Peroxide by Photocatalytic Processes. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 17356-17376.	7.2	615
8	Produktion von Wasserstoffperoxid durch photokatalytische Prozesse. <i>Angewandte Chemie</i> , 2020, 132, 17508-17529.	1.6	29
9	Nano-layer based 1T-rich MoS ₂ /g-C ₃ N ₄ co-catalyst system for enhanced photocatalytic and photoelectrochemical activity. <i>Applied Catalysis B: Environmental</i> , 2020, 268, 118466.	10.8	112
10	Accelerated alkaline activation of peroxydisulfate by reduced rubidium tungstate nanorods for enhanced degradation of bisphenol A. <i>Environmental Science: Nano</i> , 2020, 7, 3547-3556.	2.2	13
11	Carbon-based materials for photo- and electrocatalytic synthesis of hydrogen peroxide. <i>Nanoscale</i> , 2020, 12, 16008-16027.	2.8	63
12	Cooperatively modulating reactive oxygen species generation and bacteria-photocatalyst contact over graphitic carbon nitride by polyethylenimine for rapid water disinfection. <i>Applied Catalysis B: Environmental</i> , 2020, 274, 119095.	10.8	97
13	Modulating mesoporous Co ₃ O ₄ hollow nanospheres with oxygen vacancies for highly efficient peroxydisulfate activation. <i>Chemical Engineering Journal</i> , 2020, 400, 125869.	6.6	138
14	Simultaneously Tuning Charge Separation and Oxygen Reduction Pathway on Graphitic Carbon Nitride by Polyethylenimine for Boosted Photocatalytic Hydrogen Peroxide Production. <i>ACS Catalysis</i> , 2020, 10, 3697-3706.	5.5	275
15	2D/2D heterostructured photocatalyst: Rational design for energy and environmental applications. <i>Science China Materials</i> , 2020, 63, 2119-2152.	3.5	71
16	An in situ assembled WO ₃ /TiO ₂ vertical heterojunction for enhanced Z-scheme photocatalytic activity. <i>Nanoscale</i> , 2020, 12, 8775-8784.	2.8	47
17	Two-dimensional nanomaterials for photocatalytic water disinfection: recent progress and future challenges. <i>Journal of Chemical Technology and Biotechnology</i> , 2019, 94, 22-37.	1.6	76
18	Enhanced trimethoxypyrimidine degradation by piezophotocatalysis of BaTiO ₃ /Ag ₃ PO ₄ using mechanical vibration and visible light simultaneously. <i>Environmental Science: Nano</i> , 2019, 6, 554-564.	2.2	41

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19	Rapid disinfection of <i>E. coli</i> by a ternary BiVO ₄ /Ag/g-C ₃ N ₄ composite under visible light: photocatalytic mechanism and performance investigation in authentic sewage. <i>Environmental Science: Nano</i> , 2019, 6, 610-623.	2.2	59
20	Reusable magnetic Ag/Fe, N-TiO ₂ /Fe ₃ O ₄ @SiO ₂ composite for simultaneous photocatalytic disinfection of <i>E. coli</i> and degradation of bisphenol A in sewage under visible light. <i>Chemosphere</i> , 2019, 217, 869-878.	4.2	57
21	Two-dimensional g-C ₃ N ₄ /TiO ₂ nanocomposites as vertical Z-scheme heterojunction for improved photocatalytic water disinfection. <i>Catalysis Today</i> , 2019, 335, 243-251.	2.2	93
22	Vertically-heterostructured TiO ₂ -Ag-rGO ternary nanocomposite constructed with {001} faceted TiO ₂ nanosheets for enhanced Pt-free hydrogen production. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 1508-1515.	3.8	25
23	A low-pressure GO nanofiltration membrane crosslinked via ethylenediamine. <i>Journal of Membrane Science</i> , 2018, 548, 363-371.	4.1	88
24	Development of g-C ₃ N ₄ /TiO ₂ /Fe ₃ O ₄ @SiO ₂ heterojunction via sol-gel route: A magnetically recyclable direct contact Z-scheme nanophotocatalyst for enhanced photocatalytic removal of ibuprofen from real sewage effluent under visible light. <i>Chemical Engineering Journal</i> , 2018, 353, 645-656.	6.6	123
25	Highly dispersed TiO ₂ nanocrystals and WO ₃ nanorods on reduced graphene oxide: Z-scheme photocatalysis system for accelerated photocatalytic water disinfection. <i>Applied Catalysis B: Environmental</i> , 2017, 218, 163-173.	10.8	233
26	Graphene-based antimicrobial nanomaterials: rational design and applications for water disinfection and microbial control. <i>Environmental Science: Nano</i> , 2017, 4, 2248-2266.	2.2	65
27	Highly dispersed TiO ₂ nanocrystals and carbon dots on reduced graphene oxide: Ternary nanocomposites for accelerated photocatalytic water disinfection. <i>Applied Catalysis B: Environmental</i> , 2017, 202, 33-41.	10.8	155
28	Constructing ultrathin film with memory photocatalytic activity from monolayered tungstate nanodots. <i>Chemical Communications</i> , 2016, 52, 6985-6988.	2.2	15
29	Ultrathin titanium oxide nanosheets film with memory bactericidal activity. <i>Nanoscale</i> , 2016, 8, 18050-18056.	2.8	24
30	Highly recoverable TiO ₂ -rGO nanocomposites for stormwater disinfection. <i>Water Research</i> , 2016, 94, 363-370.	5.3	66
31	Silver/Reduced Graphene Oxide Hydrogel as Novel Bactericidal Filter for Point-of-Use Water Disinfection. <i>Advanced Functional Materials</i> , 2015, 25, 4344-4351.	7.8	174
32	Anthraquinone dye assisted the decolorization of azo dyes by a novel <i>Trametes trogii</i> laccase. <i>Process Biochemistry</i> , 2012, 47, 160-163.	1.8	43
33	<i>Serratia marcescens</i> SYBC08 catalase isolated from sludge containing hydrogen peroxide shows increased catalase production by regulation of carbon metabolism. <i>Engineering in Life Sciences</i> , 2011, 11, 37-43.	2.0	7
34	Decolorization of synthetic dyes by crude laccase from a newly isolated <i>Trametes trogii</i> strain cultivated on solid agro-industrial residue. <i>Journal of Hazardous Materials</i> , 2011, 187, 517-525.	6.5	102