

Sihui Zhan

List of Publications by Year in descending order

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83
papers

4,866
citations

126907

33
h-index

95266

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83
all docs

83
docs citations

83
times ranked

5018
citing authors

#	ARTICLE	IF	CITATIONS
1	Almost 100% Peroxymonosulfate Conversion to Singlet Oxygen on Single-Atom CoN ₂₊₂ Sites. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 4588-4593.	13.8	337
2	Efficient NH ₃ -SCR removal of NO _x with highly ordered mesoporous WO ₃ ($\hat{\text{T}}$)-CeO ₂ at low temperatures. <i>Applied Catalysis B: Environmental</i> , 2017, 203, 199-209.	20.2	249
3	Almost 100% Peroxymonosulfate Conversion to Singlet Oxygen on Single-Atom CoN ₂₊₂ Sites. <i>Angewandte Chemie</i> , 2021, 133, 4638-4643.	2.0	224
4	Fabrication of TiO ₂ -Bi ₂ WO ₆ Binasheet for Enhanced Solar Photocatalytic Disinfection of <i>E. coli</i> : Insights on the Mechanism. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 6841-6851.	8.0	200
5	Low-Temperature Selective Catalytic Reduction of NO with NH ₃ over Mn ₂ O ₃ -Doped Fe ₂ O ₃ Hexagonal Microsheets. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 5224-5233.	8.0	194
6	Highly Efficient Antibacterial and Pb(II) Removal Effects of Ag-CoFe ₂ O ₄ -GO Nanocomposite. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 10576-10586.	8.0	187
7	Superior Antibacterial Activity of Fe ₃ O ₄ -TiO ₂ Nanosheets under Solar Light. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 21875-21883.	8.0	170
8	Atomic Insights for Optimum and Excess Doping in Photocatalysis: A Case Study of Few-Layer Cu ₂ SnS ₄ . <i>Advanced Functional Materials</i> , 2019, 29, 1807013.	14.9	165
9	3D Graphene-Based Macrostructures for Water Treatment. <i>Advanced Materials</i> , 2020, 32, e1806843.	21.0	158
10	Regulating Local Electron Density of Iron Single Sites by Introducing Nitrogen Vacancies for Efficient Photo-Fenton Process. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 21261-21266.	13.8	158
11	Unraveling the Interfacial Charge Migration Pathway at the Atomic Level in a Highly Efficient Z-Scheme Photocatalyst. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 11329-11334.	13.8	152
12	Unravelling the Synergy between Oxygen Vacancies and Oxygen Substitution in BiO _{2-x} for Efficient Molecular Oxygen Activation. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 3685-3690.	13.8	147
13	Efficient Fenton-like Process for Pollutant Removal in Electron-Rich/Poor Reaction Sites Induced by Surface Oxygen Vacancy over Cobalt-Zinc Oxides. <i>Environmental Science & Technology</i> , 2020, 54, 8333-8343.	10.0	137
14	Recent advances in microfluidic platforms for single-cell analysis in cancer biology, diagnosis and therapy. <i>TrAC - Trends in Analytical Chemistry</i> , 2019, 117, 13-26.	11.4	121
15	Facile preparation of MnO ₂ -doped Fe ₂ O ₃ hollow nanofibers for low temperature SCR of NO with NH ₃ . <i>Journal of Materials Chemistry A</i> , 2014, 2, 20486-20493.	10.3	118
16	Efficient removal of pathogenic bacteria and viruses by multifunctional amine-modified magnetic nanoparticles. <i>Journal of Hazardous Materials</i> , 2014, 274, 115-123.	12.4	117
17	The Role of Alkali Metal in $\hat{\text{T}}$ -MnO ₂ Catalyzed Ammonia-Selective Catalysis. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 6351-6356.	13.8	110
18	Facile preparation of ordered mesoporous MnCo ₂ O ₄ for low-temperature selective catalytic reduction of NO with NH ₃ . <i>Nanoscale</i> , 2015, 7, 2568-2577.	5.6	109

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19	Efficient photocatalytic oxygen activation by oxygen-vacancy-rich CeO ₂ -based heterojunctions: Synergistic effect of photoexcited electrons transfer and oxygen chemisorption. <i>Applied Catalysis B: Environmental</i> , 2021, 289, 120020.	20.2	102
20	Efficient water disinfection with Ag ₂ WO ₄ -doped mesoporous g-C ₃ N ₄ under visible light. <i>Journal of Hazardous Materials</i> , 2017, 338, 33-46.	12.4	99
21	Atomically Dispersed Semimetallic Selenium on Porous Carbon Membrane as an Electrode for Hydrazine Fuel Cells. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 13466-13471.	13.8	99
22	Boosting the activation of molecular oxygen and the degradation of tetracycline over high loading Ag single atomic catalyst. <i>Water Research</i> , 2021, 201, 117314.	11.3	99
23	Highly Efficient Removal of Pathogenic Bacteria with Magnetic Graphene Composite. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 4290-4298.	8.0	98
24	Cationic structure inducing efficient peroxymonosulfate activation for pollutant degradation over atomically dispersed cobalt bonding graphene-like nanospheres. <i>Applied Catalysis B: Environmental</i> , 2021, 286, 119912.	20.2	71
25	Enhanced catalytic degradation by using RGO-Ce/WO ₃ nanosheets modified CF as electro-Fenton cathode: Influence factors, reaction mechanism and pathways. <i>Journal of Hazardous Materials</i> , 2019, 367, 365-374.	12.4	69
26	Facilitating Redox Cycles of Copper Species by Pollutants in Peroxymonosulfate Activation. <i>Environmental Science & Technology</i> , 2022, 56, 2637-2646.	10.0	67
27	Highly efficient removal of NO with ordered mesoporous manganese oxide at low temperature. <i>RSC Advances</i> , 2015, 5, 29353-29361.	3.6	62
28	Tailoring of electronic and surface structures boosts exciton-triggering photocatalysis for singlet oxygen generation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	61
29	Pt-Cu Interaction Induced Construction of Single Pt Sites for Synchronous Electron Capture and Transfer in Photocatalysis. <i>Advanced Functional Materials</i> , 2021, 31, 2104343.	14.9	50
30	Mesoporous Fe ₂ O ₃ -doped TiO ₂ nanostructured fibers with higher photocatalytic activity. <i>Journal of Colloid and Interface Science</i> , 2011, 355, 328-333.	9.4	47
31	Structure-performance relationships of MnO ₂ nanocatalyst for the low-temperature SCR removal of NO _x under ammonia. <i>RSC Advances</i> , 2016, 6, 54926-54937.	3.6	43
32	Mechanistic insights for efficient inactivation of antibiotic resistance genes: a synergistic interfacial adsorption and photocatalytic-oxidation process. <i>Science Bulletin</i> , 2020, 65, 2107-2119.	9.0	37
33	Towards single-atom photocatalysts for future carbon-neutral application. <i>SmartMat</i> , 2022, 3, 417-446.	10.7	35
34	The effects of copper oxide nanoparticles on dorsoventral patterning, convergent extension, and neural and cardiac development of zebrafish. <i>Aquatic Toxicology</i> , 2017, 188, 130-137.	4.0	34
35	Enhanced redox activity and oxygen vacancies of perovskite triggered by copper incorporation for the improvement of electro-Fenton activity. <i>Chemical Engineering Journal</i> , 2022, 428, 131352.	12.7	34
36	Energy-saving removal of methyl orange in high salinity wastewater by electrochemical oxidation via a novel Ti/SnO ₂ -Sb anode-Air diffusion cathode system. <i>Catalysis Today</i> , 2015, 258, 156-161.	4.4	33

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37	Conjugated π -Electrons of MOFs Drive Charge Separation at Heterostructures Interface for Enhanced Photoelectrochemical Water Oxidation. <i>Small</i> , 2021, 17, e2100367.	10.0	33
38	Fast degradation of methylene blue with electrospun hierarchical Fe^{2+} - Fe_2O_3 nanostructured fibers. <i>Journal of Sol-Gel Science and Technology</i> , 2011, 58, 716-723.	2.4	32
39	Ce-Directed Double-Layered Nanosheet Architecture of NiFe-Based Hydroxide as Highly Efficient Water Oxidation Electrocatalyst. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 15411-15418.	6.7	32
40	Photo-electro-Fenton-like process for rapid ciprofloxacin removal: The indispensable role of polyvalent manganese in Fe-free system. <i>Science of the Total Environment</i> , 2021, 768, 144368.	8.0	30
41	Efficient mineralization of ciprofloxacin using a 3D $\text{Ce}_{0.75}\text{Zr}_{1.25}\text{O}_2/\text{RGO}$ composite cathode. <i>Environmental Science: Nano</i> , 2017, 4, 425-436.	4.3	28
42	A novel Fe-free photo-electro-Fenton-like system for enhanced ciprofloxacin degradation: bifunctional Z-scheme $\text{WO}_3/\text{g-C}_3\text{N}_4$. <i>Environmental Science: Nano</i> , 2019, 6, 2850-2862.	4.3	27
43	Efficient removal for multiple pollutants via $\text{Ag}_2\text{O}/\text{BiOBr}$ heterojunction: A promoted photocatalytic process by valid electron transfer pathway. <i>Chinese Chemical Letters</i> , 2020, 31, 2698-2704.	9.0	26
44	Evaluation of ciprofloxacin destruction between ordered mesoporous and bulk $\text{NiMn}_2\text{O}_4/\text{CF}$ cathode: efficient mineralization in a heterogeneous electro-Fenton-like process. <i>Environmental Science: Nano</i> , 2019, 6, 661-671.	4.3	25
45	Highly Efficient Degradation of Polyacrylamide by an Fe-Doped $\text{Ce}_{0.75}\text{Zr}_{0.25}\text{O}_2$ Solid Solution/CF Composite Cathode in a Heterogeneous Electro-Fenton Process. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 30703-30712.	8.0	24
46	Modified carbon felt made using $\text{Ce}_x\text{A}_{1-x}\text{O}_2$ composites as a cathode in electro-Fenton system to degrade ciprofloxacin. <i>RSC Advances</i> , 2017, 7, 27065-27078.	3.6	23
47	Coaxial-Electrospun Magnetic Core-Shell Fe@TiSi Nanofibers for the Rapid Purification of Typical Dye Wastewater. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 16841-16850.	8.0	22
48	Unraveling the Interfacial Charge Migration Pathway at the Atomic Level in a Highly Efficient Z-scheme Photocatalyst. <i>Angewandte Chemie</i> , 2019, 131, 11451-11456.	2.0	22
49	Novel hollow microspheres $\text{Mn}_x\text{Co}_{3-x}\text{O}_4$ ($x \in 1, 2$) with remarkable performance for low-temperature selective catalytic reduction of NO with NH_3 . <i>Journal of Sol-Gel Science and Technology</i> , 2017, 81, 576-585.	2.4	20
50	Unravelling the Synergy between Oxygen Vacancies and Oxygen Substitution in BiO_{2-x} for Efficient Molecular Oxygen Activation. <i>Angewandte Chemie</i> , 2020, 132, 3714-3719.	2.0	19
51	Novel Flexible Self-Standing $\text{Pt}/\text{Al}_2\text{O}_3$ Nanofibrous Membranes: Synthesis and Multifunctionality for Environmental Remediation. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 26396-26404.	8.0	18
52	Enhanced electron transfer and hydrogen peroxide activation capacity with N, P-codoped carbon encapsulated CeO_2 in heterogeneous electro-Fenton process. <i>Chemosphere</i> , 2022, 287, 132154.	8.2	18
53	LiCoO_2 Hollow Nanofibers by Co-Electrospinning Sol-Gel Precursor. <i>Journal of Dispersion Science and Technology</i> , 2008, 29, 702-705.	2.4	17
54	Core-Shell Nanostructure of $\text{Fe}_{1-x}\text{Zn}_x\text{O}$ Synthesis and Photocatalysis for Methyl Orange. <i>Journal of Nanomaterials</i> , 2011, 2011, 1-5.		

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55	Cobalt diselenide (001) surface with short-range Co-Co interaction triggering high-performance electrocatalytic oxygen evolution. <i>Nano Research</i> , 2021, 14, 4848-4856.	10.4	17
56	Enhanced localized dipole of Pt-Au single-site catalyst for solar water splitting. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, .	7.1	17
57	Preparation of novel CeMo(x) hollow microspheres for low-temperature SCR removal of NO _x with NH ₃ . <i>RSC Advances</i> , 2016, 6, 59185-59194.	3.6	15
58	AgBr/g-C ₃ N ₄ nanocomposites for enhanced visible-light-driven photocatalytic inactivation of <i>Escherichia coli</i> . <i>RSC Advances</i> , 2018, 8, 34428-34436.	3.6	15
59	Ordered Mesoporous Ni _y MnO _x Nanocatalysts for the Low-Temperature Selective Reduction of NO _x with NH ₃ . <i>ACS Applied Nano Materials</i> , 2019, 2, 505-516.	5.0	14
60	Oxygen-vacancy mediated acidity and redox properties on WO _x /Cu-doped CeO ₂ for the removal of NO _x . <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 106024.	6.7	13
61	Regulating Local Electron Density of Iron Single Sites by Introducing Nitrogen Vacancies for Efficient Photo-Fenton Process. <i>Angewandte Chemie</i> , 2021, 133, 21431-21436.	2.0	12
62	Accelerating Fe ^{III} -Aqua Complex Reduction in an Efficient Solid-Liquid-Interfacial Fenton Reaction over the Mn ^{II} /CNH Co-catalyst at Near-Neutral pH. <i>Environmental Science & Technology</i> , 2021, 55, 13326-13334.	10.0	12
63	Reinforced upconversion and charge separation via mid-gap states in WO ₃ nanosheet with infrared light driven tetracycline degradation. <i>Chemical Engineering Journal</i> , 2022, 431, 134134.	12.7	12
64	Co-Electrospun BaTiO ₃ Hollow Fibers Combined with Sol-Gel Method. <i>Journal of Dispersion Science and Technology</i> , 2008, 29, 1345-1348.	2.4	11
65	Sol-gel preparation of mesoporous cerium-doped FeTi nanocatalysts and its SCR activity of NO _x with NH ₃ at low temperature. <i>Journal of Sol-Gel Science and Technology</i> , 2015, 73, 443-451.	2.4	11
66	A Mini Review: Electrospun Hierarchical Nanofibers. <i>Journal of Dispersion Science and Technology</i> , 2010, 31, 760-769.	2.4	10
67	High-efficiency photocatalytic degradation of rhodamine 6G by organic semiconductor tetrathiafulvalene in weak acidic environment. <i>Chemical Communications</i> , 2022, 58, 4251-4254.	4.1	9
68	In-situ-formed red phosphorus nanosheet on bulk red phosphorus for boosting charge separation in photocatalysis: The role of multiple interfacial effects. <i>Applied Catalysis B: Environmental</i> , 2022, 312, 121373.	20.2	9
69	Facile fabrication of cerium niobate nano-crystalline fibers by electrospinning technology. <i>Journal of Sol-Gel Science and Technology</i> , 2011, 58, 394-399.	2.4	8
70	Constructing Cu ₂ O/Bi ₂ MoO ₆ p-n heterojunction towards boosted photo-assisted-electro-Fenton-like synergy degradation of ciprofloxacin. <i>Environmental Science: Nano</i> , 2021, 8, 3629-3642.	4.3	8
71	Enhanced carriers separation in novel in-plane amorphous carbon/g-C ₃ N ₄ nanosheets for photocatalytic environment remediation. <i>Chemosphere</i> , 2022, 294, 133581.	8.2	8
72	Mechanistic insight into the dynamic transformation of acid sites on ceria supported molybdenum oxide catalyst for NO _x reduction. <i>Journal of Environmental Chemical Engineering</i> , 2022, 10, 108114.	6.7	8

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73	Noncovalent Functionalization of Multiwalled Carbon Nanotubes by Anionic Polymer Poly(Sodium) Tj ETQq1 1 0.784314 rgBJ /Overlook	2.4	7
74	Electrospun Nickel Oxide Hollow Nanostructured Fibers. Journal of Dispersion Science and Technology, 2009, 30, 246-249.	2.4	7
75	Identification of the Stable Pt Single Sites in the Environment of Ions: From Mechanism to Design Principle. Advanced Materials, 2022, 34, e2108504.	21.0	6
76	The Role of Alkali Metal in LaMnO_2 Catalyzed Ammonia-Selective Catalysis. Angewandte Chemie, 2019, 131, 6417-6422.	2.0	4
77	Ultra-Thin Red Phosphor Nanosheets as an Efficient Photocatalyst for Hydrogen Evolution Under Visible Light. Topics in Catalysis, 2021, 64, 559-566.	2.8	3
78	Electroformed Giant Vesicles from a Binary Mixture of Phospholipids and Quaternary Ammonium Salts. Journal of Dispersion Science and Technology, 2014, 35, 672-676.	2.4	2
79	Electrochemical Behaviors of C60/TAL Films in Aqueous Solutions. Journal of Dispersion Science and Technology, 2009, 30, 313-317.	2.4	1
80	High Yield of Supergiant Vesicles on Glyoxylic Acid Modified Aluminum Electrode. Journal of Dispersion Science and Technology, 2014, 35, 1169-1173.	2.4	1
81	Removal of PCP-Na from aqueous systems using monodispersed pompon-like magnetic nanoparticles as adsorbents. Water Science and Technology, 2013, 68, 2704-2711.	2.5	0
82	Optimal Conditions for Existence of Vesicles Under Electric Field. Journal of Dispersion Science and Technology, 2015, 36, 1564-1568.	2.4	0
83	Rapid and Efficient Formation of Reverse Vesicle on Carbon Fibers. Journal of Dispersion Science and Technology, 2016, 37, 245-250.	2.4	0