

Yi Wang

List of Publications by Year in descending order

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80
papers

4,462
citations

94269

37
h-index

102304

66
g-index

80
all docs

80
docs citations

80
times ranked

6123
citing authors

#	ARTICLE	IF	CITATIONS
1	Construction of bifunctionalized Co-V mixed metal oxide nanosheets with Co ³⁺ -Rich surfaces and oxygen defect derived from LDHs as nanozyme for antibacterial application. <i>Journal of Industrial and Engineering Chemistry</i> , 2022, 105, 291-302.	2.9	13
2	In situ growth of photocatalytic Ag-decorated β -Bi ₂ O ₃ /Bi ₂ O _{2.7} heterostructure film on PVC polymer matrices with self-cleaning and antibacterial properties. <i>Chemical Engineering Journal</i> , 2022, 429, 131058.	6.6	13
3	Solar light-driven photocatalytic production of hypochlorous acid over Pt/WO ₃ in seawater for marine antifouling. <i>Research on Chemical Intermediates</i> , 2022, 48, 29-47.	1.3	6
4	A novel strategy of hydrothermal in-situ grown bismuth based film on epoxy resin as recyclable photocatalyst for photodegrading antibiotics and sterilizing microorganism. <i>Separation and Purification Technology</i> , 2022, 290, 120842.	3.9	5
5	316 stainless steel wire mesh for visual detection of H ₂ O ₂ , glutathione and glucose based on the peroxidase-like activity. <i>Analytical Sciences</i> , 2022, , .	0.8	1
6	Oxygen vacancy tuned oxidase mimic through selenium-doping ultrathin 2D Ni-V mixed metal oxide and antibacterial application. <i>Journal of Alloys and Compounds</i> , 2022, , 165446.	2.8	4
7	CoS ₂ /MoS ₂ Nanosheets with Enzymatic and Photocatalytic Properties for Bacterial Sterilization. <i>ACS Applied Nano Materials</i> , 2021, 4, 7698-7711.	2.4	24
8	Peroxidase-like and oxidase-like nanozyme activities of reusable Mn ²⁺ -Co ²⁺ -Se/Ni foam for antibacterial application. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2021, 626, 127010.	2.3	5
9	Sulfur-doping tuning oxygen vacancies in ultrathin 2D Ni ²⁺ -V mixed metal oxides for exceptional oxidase mimic and antibacterial applications. <i>Journal of Materials Chemistry C</i> , 2021, 9, 15445-15451.	2.7	7
10	Bifunctionalized novel Co-V MMO nanowires: Intrinsic oxidase and peroxidase like catalytic activities for antibacterial application. <i>Applied Catalysis B: Environmental</i> , 2020, 261, 118256.	10.8	67
11	Exploring the bactericidal performance and application of novel mimic enzyme Co ₄ S ₃ . <i>Journal of Colloid and Interface Science</i> , 2020, 561, 327-337.	5.0	15
12	Intrinsic Oxidase-like Nanoenzyme Co ₄ S ₃ /Co(OH) ₂ Hybrid Nanotubes with Broad-Spectrum Antibacterial Activity. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 29614-29624.	4.0	18
13	Bifunctional nanozyme activities of layered double hydroxide derived Co-Al-Ce mixed metal oxides for antibacterial application. <i>Journal of Oceanology and Limnology</i> , 2020, 38, 1233-1245.	0.6	13
14	In-situ green topotactic synthesis of a novel Z-scheme Ag@AgVO ₃ /BiVO ₄ heterostructure with highly enhanced visible-light photocatalytic activity. <i>Journal of Colloid and Interface Science</i> , 2020, 579, 431-447.	5.0	64
15	Dual response mimetic enzyme of novel Co ₄ S ₃ /Co ₃ O ₄ composite nanotube for antibacterial application. <i>Journal of Hazardous Materials</i> , 2020, 392, 122278.	6.5	27
16	Efficient water-mediated synthesis of bismuth oxyiodide with several distinct morphologies. <i>CrystEngComm</i> , 2020, 22, 1754-1761.	1.3	4
17	Layered double hydroxide derived ultrathin 2D Ni-V mixed metal oxide as a robust peroxidase mimic. <i>Chemical Engineering Journal</i> , 2019, 369, 161-169.	6.6	33
18	Peroxidase-like activity of vanadium tetrasulfide microspheres and its application to the colorimetric detection of hydrogen peroxide and L-cysteine. <i>Mikrochimica Acta</i> , 2019, 186, 784.	2.5	34

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19	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.	6.6	177
20	Optical, electrochemical and catalytic methods for in-vitro diagnosis using carbonaceous nanoparticles: a review. <i>Mikrochimica Acta</i> , 2019, 186, 50.	2.5	28
21	Heterojunctions of $\hat{\Gamma}^2$ -AgVO ₃ /BiVO ₄ composites for enhanced visible-light-driven photocatalytic antibacterial activity. <i>Journal of Alloys and Compounds</i> , 2019, 776, 266-275.	2.8	49
22	Fabrication of BiVO ₄ /BiOBr composite with enhanced photocatalytic activity by a CTAB-assisted polyol method. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2019, 368, 153-161.	2.0	41
23	A novel signal-on photoelectrochemical sensing platform based on biosynthesis of CdS quantum dots sensitizing ZnO nanorod arrays. <i>Sensors and Actuators B: Chemical</i> , 2018, 261, 515-521.	4.0	29
24	A novel ion-exchange strategy for the fabrication of high strong BiOI/BiOBr heterostructure film coated metal wire mesh with tunable visible-light-driven photocatalytic reactivity. <i>Journal of Hazardous Materials</i> , 2018, 351, 11-19.	6.5	68
25	Electrochemical sensor for arsenite detection using graphene oxide assisted generation of prussian blue nanoparticles as enhanced signal label. <i>Analytica Chimica Acta</i> , 2018, 1002, 82-89.	2.6	57
26	Metastable $\hat{\Gamma}^2$ -AgVO ₃ microrods as peroxidase mimetics for colorimetric determination of H ₂ O ₂ . <i>Mikrochimica Acta</i> , 2018, 185, 1.	2.5	386
27	Rational construction of bowl-like MnO ₂ nanosheets with excellent electrochemical performance for supercapacitor electrodes. <i>Chemical Engineering Journal</i> , 2018, 350, 79-88.	6.6	169
28	An integrated multifunctional photoelectrochemical platform for simultaneous capture, detection, and inactivation of pathogenic bacteria. <i>Sensors and Actuators B: Chemical</i> , 2018, 274, 228-234.	4.0	35
29	A sensitizing photoelectrochemical sensing platform strategy based on bio-etching preparation of Bi ₂ S ₃ /BiOCl $\hat{\Gamma}^2$ heterojunction. <i>Talanta</i> , 2018, 190, 357-362.	2.9	20
30	A novel solvent-free strategy for the synthesis of bismuth oxyhalides. <i>Journal of Materials Chemistry A</i> , 2018, 6, 13005-13011.	5.2	38
31	Facile <i>in situ</i> Growth of High Strong BiOI Network Films on Metal Wire Meshes with Photocatalytic Activity. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 2454-2462.	3.2	45
32	Facile in situ growth of photoactive $\hat{\Gamma}^2$ -Bi ₂ O ₃ films. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2017, 75, 183-188.	2.7	7
33	Facile fabrication of AgI/BiVO ₄ composites with enhanced visible photocatalytic degradation and antibacterial ability. <i>Journal of Alloys and Compounds</i> , 2017, 721, 622-627.	2.8	41
34	A novel multifunctional electrochemical platform for simultaneous detection, elimination, and inactivation of pathogenic bacteria based on the Vancomycin-functionalised AgNPs/3D-ZnO nanorod arrays. <i>Biosensors and Bioelectronics</i> , 2017, 98, 248-253.	5.3	64
35	Controlled Synthesis and Photocatalytic Antifouling Properties of BiVO ₄ with Tunable Morphologies. <i>Journal of Electronic Materials</i> , 2017, 46, 758-765.	1.0	13
36	Corrosion Resistance Research of ZnO/polyelectrolyte Composite Film. <i>International Journal of Electrochemical Science</i> , 2016, , 8512-8519.	0.5	12

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37	Facile synthesis of BiOI in hierarchical nanostructure preparation and its photocatalytic application to organic dye removal and biocidal effect of bacteria. <i>Journal of Colloid and Interface Science</i> , 2016, 481, 47-56.	5.0	57
38	Novel bifunctional $\text{V}_2\text{O}_5/\text{BiVO}_4$ nanocomposite materials with enhanced antibacterial activity. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2016, 68, 387-395.	2.7	35
39	BiOI/BiVO ₄ heterojunction with enhanced photocatalytic activity under visible-light irradiation. <i>Journal of Industrial and Engineering Chemistry</i> , 2016, 40, 83-92.	2.9	79
40	Controllable one-pot synthesis of a nest-like $\text{Bi}_2\text{WO}_6/\text{BiVO}_4$ composite with enhanced photocatalytic antifouling performance under visible light irradiation. <i>Dalton Transactions</i> , 2016, 45, 4588-4602.	1.6	118
41	Optical determination of hydrogen peroxide by exploiting the peroxidase-like activity of AgVO_3 nanobelts. <i>Mikrochimica Acta</i> , 2016, 183, 457-463.	2.5	64
42	Chemical etching preparation of the $\text{Bi}_2\text{WO}_6/\text{BiOI}$ heterojunction with enhanced photocatalytic antifouling activity under visible light irradiation. <i>Chemical Engineering Journal</i> , 2016, 288, 264-275.	6.6	217
43	Synthesis and intrinsic enzyme-like activity of MnOOH nanoplates. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2016, 59, 547-552.	2.7	11
44	Synthesis of MnSe crystal as a robust peroxidase mimic. <i>Materials Research Bulletin</i> , 2015, 67, 152-157.	2.7	15
45	Mg-Al mixed metal oxide film derived from layered double hydroxide precursor film: Fabrication and antibacterial properties. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2015, 57, 160-166.	2.7	8
46	Hydrophobic Mg-Al layered double hydroxide film on aluminum: Fabrication and microbiologically influenced corrosion resistance properties. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2015, 474, 44-51.	2.3	33
47	Layered double hydroxides as a nanocontainer for encapsulating marine natural product antifoulant: Intercalation and tunable controlled release of cinnamate. <i>Materials Research Bulletin</i> , 2015, 63, 205-210.	2.7	7
48	Photocatalytic activity of one-dimensional Ag_2VO_4 nanowires in the degradation of bisphenol A under visible-light irradiation. <i>Research on Chemical Intermediates</i> , 2015, 41, 3683-3697.	1.3	21
49	A novel calcined $\text{Bi}_2\text{WO}_6/\text{BiVO}_4$ heterojunction photocatalyst with highly enhanced photocatalytic activity. <i>Chemical Engineering Journal</i> , 2014, 236, 430-437.	6.6	249
50	Bioinspired assembly of layered double hydroxide/carboxymethyl chitosan bionanocomposite hydrogel films. <i>Journal of Materials Chemistry B</i> , 2014, 2, 1024-1030.	2.9	18
51	Hydrothermal self-assembly and supercapacitive behaviors of Co(II) ion-modified graphene aerogels in H_2SO_4 electrolyte. <i>Materials Research Bulletin</i> , 2014, 56, 92-97.	2.7	12
52	Electrocatalytic activity of nitrogen-doped graphene synthesized via a one-pot hydrothermal process towards oxygen reduction reaction. <i>Journal of Power Sources</i> , 2013, 227, 185-190.	4.0	166
53	Three-dimensional graphene/polyaniline composite material for high-performance supercapacitor applications. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2013, 178, 293-298.	1.7	104
54	Synthesis, characterization, and controlled release antibacterial behavior of antibiotic intercalated Mg-Al layered double hydroxides. <i>Materials Research Bulletin</i> , 2012, 47, 3185-3194.	2.7	39

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55	Electrocatalytic oxidation of kojic acid at a reduced graphene sheet modified glassy carbon electrode. <i>Journal of Electroanalytical Chemistry</i> , 2012, 664, 111-116.	1.9	24
56	Hetero-nanostructured film of titania nanosheets and lysozyme: Fabrication and synergistic antibacterial properties. <i>Surface and Coatings Technology</i> , 2012, 210, 71-77.	2.2	15
57	Controlled drug release characteristics and enhanced antibacterial effect of graphene oxide drug intercalated layered double hydroxide hybrid films. <i>Journal of Materials Chemistry</i> , 2012, 22, 23106.	6.7	58
58	A zinc/silicon dioxide composite film: Fabrication and anti-corrosion characterization. <i>Materials and Corrosion - Werkstoffe Und Korrosion</i> , 2012, 63, 416-420.	0.8	11
59	Electron transfer from sulfate-reducing bacteria biofilm promoted by reduced graphene sheets. <i>Chinese Journal of Oceanology and Limnology</i> , 2012, 30, 12-15.	0.7	5
60	Manganese oxide-graphene composite as an efficient catalyst for 4-electron reduction of oxygen in alkaline media. <i>Electrochimica Acta</i> , 2012, 75, 305-310.	2.6	40
61	Manganese oxide nanowire-mediated enzyme-linked immunosorbent assay. <i>Biosensors and Bioelectronics</i> , 2012, 33, 69-74.	5.3	161
62	Catalytic activity of graphene-cobalt hydroxide composite for oxygen reduction reaction in alkaline media. <i>Journal of Power Sources</i> , 2012, 198, 122-126.	4.0	94
63	Graphene Oxide Sheet-Mediated Silver Enhancement for Application to Electrochemical Biosensors. <i>Analytical Chemistry</i> , 2011, 83, 648-653.	3.2	169
64	Synthesis, characterization, and controlled release anticorrosion behavior of benzoate intercalated Zn-Al layered double hydroxides. <i>Materials Research Bulletin</i> , 2011, 46, 1963-1968.	2.7	65
65	Vancomycin-functionalised Ag@TiO ₂ phototoxicity for bacteria. <i>Journal of Hazardous Materials</i> , 2011, 186, 306-312.	6.5	50
66	Studies on the electrochemical reduction of oxygen catalyzed by reduced graphene sheets in neutral media. <i>Journal of Power Sources</i> , 2011, 196, 1141-1144.	4.0	58
67	Impedimetric immunosensor doped with reduced graphene sheets fabricated by controllable electrodeposition for the non-labelled detection of bacteria. <i>Biosensors and Bioelectronics</i> , 2011, 26, 1959-1964.	5.3	148
68	Direct immobilisation of antibodies on a bioinspired architecture as a sensing platform. <i>Biosensors and Bioelectronics</i> , 2011, 26, 2595-2600.	5.3	60
69	A study of the catalysis of cobalt hydroxide towards the oxygen reduction in alkaline media. <i>Journal of Power Sources</i> , 2010, 195, 3135-3139.	4.0	60
70	The electrochemical reduction reaction of dissolved oxygen on Q235 carbon steel in alkaline solution containing chloride ions. <i>Journal of Solid State Electrochemistry</i> , 2010, 14, 1667-1673.	1.2	14
71	Effect of high magnetic field annealing on the microstructure and magnetic properties of Co-Fe layered double hydroxide. <i>Journal of Magnetism and Magnetic Materials</i> , 2010, 322, 3023-3027.	1.0	20
72	Reduced graphene sheets modified glassy carbon electrode for electrocatalytic oxidation of hydrazine in alkaline media. <i>Electrochemistry Communications</i> , 2010, 12, 187-190.	2.3	167

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73	A 3D-impedimetric immunosensor based on foam Ni for detection of sulfate-reducing bacteria. <i>Electrochemistry Communications</i> , 2010, 12, 288-291.	2.3	51
74	Fabrication and electrochemical characterization of cobalt-based layered double hydroxide nanosheet thin-film electrodes. <i>Journal of Power Sources</i> , 2008, 184, 682-690.	4.0	85
75	Direct electrochemistry and electrocatalysis based on a film of horseradish peroxidase intercalated into Ni-Al layered double hydroxide nanosheets. <i>Biosensors and Bioelectronics</i> , 2008, 24, 356-361.	5.3	90
76	Facile fabrication of a nanosphere film from layered double hydroxide nanosheets using an electrophoretic deposition method. <i>Electrochemistry Communications</i> , 2008, 10, 1264-1267.	2.3	10
77	Fabrication and characterization of a novel inorganic MnO ₂ /LDHs multilayer thin film via a layer-by-layer self-assembly method. <i>Materials Letters</i> , 2008, 62, 1613-1616.	1.3	14
78	Liquid-phase Electrodeposition of Diamond-like Carbon Films on Conducting Glass Substrates Using a Low Deposition Voltage at Room Temperature. <i>Chemistry Letters</i> , 2008, 37, 636-637.	0.7	2
79	A Co-Al Layered Double Hydroxides Nanosheets Thin-Film Electrode. <i>Electrochemical and Solid-State Letters</i> , 2007, 10, A233.	2.2	37
80	Synthesis and Electrochemical Characterization of Co-Al Layered Double Hydroxides. <i>Journal of the Electrochemical Society</i> , 2005, 152, A2130.	1.3	69