

Bin Xiang

List of Publications by Year in descending order

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Version: 2024-02-01

80
papers

2,510
citations

257357

24
h-index

206029

48
g-index

80
all docs

80
docs citations

80
times ranked

2134
citing authors

#	ARTICLE	IF	CITATIONS
1	Experimental and theoretical studies of four allyl imidazolium-based ionic liquids as green inhibitors for copper corrosion in sulfuric acid. <i>Corrosion Science</i> , 2017, 119, 68-78.	3.0	466
2	Papaya leaves extract as a novel eco-friendly corrosion inhibitor for Cu in H ₂ SO ₄ medium. <i>Journal of Colloid and Interface Science</i> , 2021, 582, 918-931.	5.0	275
3	Corrosion control of copper in 3.5wt.% NaCl Solution by Domperidone: Experimental and Theoretical Study. <i>Corrosion Science</i> , 2014, 85, 77-86.	3.0	166
4	Synthesis of CuO@CoNi LDH on Cu foam for high-performance supercapacitors. <i>Chemical Engineering Journal</i> , 2020, 401, 126145.	6.6	122
5	Excellent corrosion inhibition performance of novel quinoline derivatives on mild steel in HCl media: Experimental and computational investigations. <i>Journal of Molecular Liquids</i> , 2018, 255, 53-63.	2.3	109
6	Polydopamine functionalized graphene oxide nanocomposites reinforced the corrosion protection and adhesion properties of waterborne polyurethane coatings. <i>European Polymer Journal</i> , 2019, 120, 109249.	2.6	100
7	Free-standing, layered graphene monoliths for long-life supercapacitor. <i>Chemical Engineering Journal</i> , 2018, 350, 386-394.	6.6	67
8	Graphene oxide-drove transformation of NiS/Ni ₃ S ₄ microbars towards Ni ₃ S ₄ polyhedrons for supercapacitor. <i>Journal of Colloid and Interface Science</i> , 2020, 559, 115-123.	5.0	67
9	Flexible high-energy and stable rechargeable vanadium-zinc battery based on oxygen defect modulated V ₂ O ₅ cathode. <i>Nano Energy</i> , 2021, 87, 106164.	8.2	64
10	Selenium Defect Boosted Electrochemical Performance of Binder-Free VSe ₂ Nanosheets for Aqueous Zinc-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 23230-23238.	4.0	55
11	Sandwich Complex of TATB/Graphene: An Approach to Molecular Monolayers of Explosives. <i>Journal of Physical Chemistry C</i> , 2010, 114, 22684-22687.	1.5	54
12	Synthesis of Silane Functionalized Graphene Oxide and Its Application in Anti-Corrosion Waterborne Polyurethane Composite Coatings. <i>Coatings</i> , 2019, 9, 587.	1.2	44
13	Facile fabrication of core-shell structured Ni(OH) ₂ /Ni(PO ₃) ₂ composite via one-step electrodeposition for high performance asymmetric supercapacitor. <i>Journal of Colloid and Interface Science</i> , 2021, 583, 243-254.	5.0	44
14	Rapid Production of Mn ₃ O ₄ /rGO as an Efficient Electrode Material for Supercapacitor by Flame Plasma. <i>Materials</i> , 2018, 11, 881.	1.3	43
15	CoO/rGO composite prepared by a facile direct-flame approach for high-power supercapacitors. <i>Ceramics International</i> , 2018, 44, 16900-16907.	2.3	39
16	Mn ₃ O ₄ /Co(OH) ₂ cactus-type nanoarrays for high-energy-density asymmetric supercapacitors. <i>Journal of Materials Science</i> , 2020, 55, 724-737.	1.7	39
17	Controlled synthesis of a high-performance $\hat{\pm}$ -NiS/Ni ₃ S ₄ hybrid by a binary synergy of sulfur sources for supercapacitor. <i>Journal of Colloid and Interface Science</i> , 2021, 581, 56-65.	5.0	36
18	Synthesis and surface characterization of self-assembled monolayers of thiazoles incorporating hydrocarbon and fluorocarbon chains on copper substrates. <i>Applied Surface Science</i> , 2018, 456, 25-36.	3.1	35

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19	A Universal Voltage Design for Triggering Manganese Dioxide Defects Construction to Significantly Boost the Pseudocapacitance. <i>Advanced Functional Materials</i> , 2021, 31, 2102693.	7.8	35
20	Hydrothermal synthesis of graphene-encapsulated 2D circular nanoplates of Fe_2O_3 towards enhanced electrochemical performance for supercapacitor. <i>Journal of Alloys and Compounds</i> , 2019, 775, 63-71.	2.8	33
21	Tuning the kinetics of binder-free ammonium vanadate cathode via defect modulation for ultrastable rechargeable zinc ion batteries. <i>Nano Energy</i> , 2021, 90, 106596.	8.2	29
22	Corrosion control of mild steel in 0.1M H_2SO_4 solution by benzimidazole and its derivatives: an experimental and theoretical study. <i>RSC Advances</i> , 2017, 7, 23961-23969.	1.7	28
23	Sulfur source-inspired synthesis of NiS with high specific capacity and tunable morphologies for hybrid supercapacitor. <i>Electrochimica Acta</i> , 2020, 337, 135826.	2.6	28
24	New insights into Sr-O bonds enhances Co/Fe catalytic activity in SrCoFe perovskite for boosted peroxydisulfate activation. <i>Chemical Engineering Journal</i> , 2021, 426, 131525.	6.6	28
25	Excellent inhibition performance of low-toxicity Dibenzylthiocarbamic Acid Zinc Salt self-assembled nano-film for copper corrosion in sulfuric acid. <i>Journal of Molecular Liquids</i> , 2018, 271, 959-969.	2.3	25
26	Oxygen vacancy-rich, binder-free copper pyrovanadate for zinc ion storage. <i>Chemical Engineering Journal</i> , 2021, 420, 130474.	6.6	24
27	Ultrathin nickel manganese nanosheets with rich oxygen-vacancy as a durability electrode for aqueous Ni//Zn batteries. <i>Journal of Colloid and Interface Science</i> , 2020, 578, 677-684.	5.0	23
28	Engineering porous structure in Bi-component-active ZnO quantum dots anchored vanadium nitride boosts reaction kinetics for zinc storage. <i>Nano Energy</i> , 2021, 89, 106386.	8.2	23
29	Phenothiazine drugs as novel and eco-friendly corrosion inhibitors for copper in sulfuric acid solution. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2020, 113, 253-263.	2.7	22
30	Conductive copper glue constructs a reversible and stable zinc metal anode interface for advanced aqueous zinc ion battery. <i>Journal of Colloid and Interface Science</i> , 2022, 608, 22-29.	5.0	22
31	Facile synthesis of Fe_2O_3 pyramid on reduced graphene oxide for supercapacitor and photo-degradation. <i>Journal of Alloys and Compounds</i> , 2018, 744, 412-420.	2.8	19
32	Phosphate ion functionalization of $\text{Co}(\text{OH})_2$ nanosheets by a simple immersion method. <i>Journal of Alloys and Compounds</i> , 2018, 768, 57-64.	2.8	19
33	Facile electrochemical phosphatization of Mn_3O_4 nanosheet arrays for supercapacitor with enhanced performance. <i>Journal of Materials Science</i> , 2019, 54, 625-637.	1.7	18
34	Two common antihistamine drugs as high-efficiency corrosion inhibitors for copper in 0.5M H_2SO_4 . <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2021, 123, 11-20.	2.7	18
35	Combining electrochemical, surface topography analysis, and theoretical calculation methods to insight into the anti-corrosion property of <i>Syzygium samarangense</i> leaf extract. <i>Journal of Industrial and Engineering Chemistry</i> , 2021, 102, 302-311.	2.9	18
36	Synthesis of aqueous and hydroxy-terminated polyurethanes: Impacts of formulation parameters by orthogonal matrix design. <i>Progress in Organic Coatings</i> , 2016, 90, 1-9.	1.9	17

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37	Inhibition of Tryptophan on AA 2024 in Chloride-Containing Solutions. <i>Journal of Materials Engineering and Performance</i> , 2011, 20, 265-270.	1.2	15
38	Why is the crystal shape of TATB is so similar to its molecular shape? Understanding by only its root molecule. <i>Journal of Molecular Modeling</i> , 2012, 18, 2247-2256.	0.8	15
39	Two novel drugs as bio-functional inhibitors for copper performing excellent anticorrosion and antibacterial properties. <i>Colloids and Surfaces B: Biointerfaces</i> , 2020, 190, 110898.	2.5	15
40	Ultraviolet light absorber with low surface energy: synthesis and characterization. <i>Tetrahedron</i> , 2014, 70, 6585-6593.	1.0	13
41	Chemically assembling chromium vanadate into an urchin-like porous rich matrix with ultrathin nanosheets for rapid Zn ²⁺ storage. <i>Journal of Colloid and Interface Science</i> , 2021, 597, 422-428.	5.0	13
42	Construction of three-dimensional ordered structure of crystalline bismuth for long life aqueous nickel-bismuth batteries. <i>Applied Surface Science</i> , 2020, 515, 145977.	3.1	12
43	Are amino groups advantageous to insensitive high explosives (IHEs)?. <i>Journal of Molecular Modeling</i> , 2012, 18, 4729-4738.	0.8	11
44	Inhibition of Zinc Corrosion by Fucoidan in Natural Sea water. <i>Acta Metallurgica Sinica (English)</i> Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 46	1.5	10
45	Surfactant-free synthesis of homogeneous nano-grade cadmium sulfide grafted reduced graphene oxide composite as a high-activity photocatalyst in visible light. <i>Ceramics International</i> , 2019, 45, 14376-14383.	2.3	10
46	Three piperazine compounds as corrosion inhibitors for copper in 0.5 M sulfuric acid medium. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2021, 126, 231-243.	2.7	10
47	Preparation optimization of ATO particles by robust parameter design. <i>Materials Science in Semiconductor Processing</i> , 2016, 42, 354-358.	1.9	9
48	An intermittent microwave-exfoliated non-expansive graphite oxide process for highly-efficient production of high-quality graphene. <i>Journal of Colloid and Interface Science</i> , 2020, 565, 288-294.	5.0	9
49	Electrochemical activation fabrication towards high-capacity nickel hydroxide electrode. <i>Journal of Alloys and Compounds</i> , 2021, 855, 157332.	2.8	9
50	Doping-driven electronic structure and conductivity modification of nickel sulfide. <i>Dalton Transactions</i> , 2022, 51, 8318-8326.	1.6	9
51	Morphology transition of FeOOH induced by N-doped graphene for excellent pseudocapacitive energy storage. <i>Electrochimica Acta</i> , 2022, 403, 139676.	2.6	8
52	Corrosion of AM60B magnesium alloy in simulated acid rain. <i>Anti-Corrosion Methods and Materials</i> , 2010, 57, 244-248.	0.6	7
53	Understanding the desensitizing mechanism of olefin in explosives: shear slide of mixed HMX-olefin systems. <i>Journal of Molecular Modeling</i> , 2012, 18, 1503-1512.	0.8	7
54	Fabrication of ultra-closely graphene-wrapped Ni foam substrate for supercapacitor electrode by flame induction and electrostatic interaction. <i>Journal of Alloys and Compounds</i> , 2019, 791, 423-430.	2.8	7

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55	Scalable modulation of reduced graphene oxide properties via regulating graphite oxide precursors. <i>Journal of Alloys and Compounds</i> , 2019, 782, 17-27.	2.8	7
56	A Copper(I)-Thioarsenate(III) Inorganic Framework Directed by [Ni(en) ₃] ²⁺ . <i>Inorganic Chemistry</i> , 2021, 60, 6813-6819.	1.9	7
57	Corrosion Behavior of 35CrMn and Q235 Steel in Simulated Acid Rain Conditions. <i>Journal of Materials Engineering and Performance</i> , 2012, 21, 524-529.	1.2	6
58	Anticorrosion potential of domperidone on copper in different concentration of hydrochloric acid solution. <i>Journal of Adhesion Science and Technology</i> , 2018, 32, 1485-1502.	1.4	6
59	Functional triazine ultraviolet absorbers for sunlight protection of polymer materials surface. <i>Materials Letters</i> , 2019, 236, 743-746.	1.3	5
60	One-Dimensional Vanadium(III) Chalcogenidostannates Incorporating [V(tepa)] ³⁺ Complexes as Bridging Groups. <i>Inorganic Chemistry</i> , 2021, 60, 2127-2132.	1.9	5
61	Design of Co(OH) ₂ composite electrode with high active surface area by sulfur control and graphene encapsulation strategies. <i>Applied Surface Science</i> , 2022, 596, 153612.	3.1	5
62	An ultra-effective pathway for fully removing the oxygen components of graphene oxide by a flame-assisted microwave process. <i>Dalton Transactions</i> , 2020, 49, 6964-6968.	1.6	4
63	A novel 3-D lead-iodide polymer based on the linkage of rare binuclear [Pb ₂] ³⁺ cations and anionic bis(pyrazinyl)-triazole bridges. <i>Dalton Transactions</i> , 2021, 50, 4486-4489.	1.6	4
64	Effect of Heavy Metals on Brownfield Quality in Different Industries. <i>Advanced Materials Research</i> , 0, 414, 284-288.	0.3	3
65	Nickel hydroxide/sulfide hybrids: halide ion controlled synthesis, structural characteristics, and electrochemical performance. <i>Dalton Transactions</i> , 2022, 51, 4153-4165.	1.6	3
66	Soil Environmental Quality Assessment on an Abandoned Industrial Land. <i>Advanced Materials Research</i> , 2011, 356-360, 726-729.	0.3	2
67	Photo-Aging of Polyurethane Coating Based on TDI-TMP and N3390. <i>Advanced Materials Research</i> , 0, 189-193, 1100-1104.	0.3	2
68	Effects of formulation on set-to-touch time of waterborne alkyd resin by uniform design. <i>Progress in Organic Coatings</i> , 2015, 87, 189-196.	1.9	2
69	Synthesis and exploration of triazine ultraviolet absorbers with surface enrichment property. <i>Tetrahedron</i> , 2017, 73, 4566-4572.	1.0	2
70	Different Curing Agents on the Photoaging of Polyurethane Coatings. <i>Advanced Materials Research</i> , 2011, 189-193, 1109-1112.	0.3	1
71	Effect of Additives on Photo-Aging Performance of Polyurethane Coating. <i>Advanced Materials Research</i> , 2011, 291-294, 211-214.	0.3	1
72	Visualization of microRNA-21 Dynamics in Neuroblastoma Using Magnetic Resonance Imaging Based on a microRNA-21-Responsive Reporter Gene. <i>Frontiers in Oncology</i> , 2021, 11, 747305.	1.3	1

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73	Corrosion-controlled surface engineering improves the adhesion of materials for stable free-standing electrodes. <i>Journal of Colloid and Interface Science</i> , 2022, 614, 617-628.	5.0	1
74	Effect of nano-TiO ₂ on MP25 resin. <i>Journal of Applied Polymer Science</i> , 2008, 107, 1598-1603.	1.3	0
75	Computer Simulation of an Synthetic Ultraviolet Absorbent in the Interface of DMB and DMF. <i>Advanced Materials Research</i> , 0, 146-147, 966-971.	0.3	0
76	Heavy Metal Research on Sites of Former Machining Industry in Chongqing. <i>Advanced Materials Research</i> , 2011, 414, 301-305.	0.3	0
77	Scaling Mechanism of Heat Exchanger for Spent Sulfuric Acid Concentrating in Titania Production. <i>Advanced Materials Research</i> , 2012, 560-561, 678-681.	0.3	0
78	Photo-Aging of Coating Based on Mixture of TDI and N75. <i>Advanced Materials Research</i> , 2014, 1035, 453-457.	0.3	0
79	Electric Field Calculation of Pipe with Cathodic Protection in Seawater by BEM. <i>Applied Mechanics and Materials</i> , 2014, 621, 230-234.	0.2	0
80	Synthesis and Characterization of a New Fluorine-Containing Ultraviolet Light Absorber Based on BTA. <i>Advanced Materials Research</i> , 2015, 1096, 204-208.	0.3	0