Bin Xiang

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Experimental and theoretical studies of four allyl imidazolium-based ionic liquids as green inhibitors for copper corrosion in sulfuric acid. Corrosion Science, 2017, 119, 68-78.	6.6	466
2	Papaya leaves extract as a novel eco-friendly corrosion inhibitor for Cu in H2SO4 medium. Journal of Colloid and Interface Science, 2021, 582, 918-931.	9.4	275
3	Corrosion control of copper in 3.5wt.% NaCl Solution by Domperidone: Experimental and Theoretical Study. Corrosion Science, 2014, 85, 77-86.	6.6	166
4	Synthesis of CuO@CoNi LDH on Cu foam for high-performance supercapacitors. Chemical Engineering Journal, 2020, 401, 126145.	12.7	122
5	Excellent corrosion inhibition performance of novel quinoline derivatives on mild steel in HCl media: Experimental and computational investigations. Journal of Molecular Liquids, 2018, 255, 53-63.	4.9	109
6	Polydopamine functionalized graphene oxide nanocomposites reinforced the corrosion protection and adhesion properties of waterborne polyurethane coatings. European Polymer Journal, 2019, 120, 109249.	5.4	100
7	Free-standing, layered graphene monoliths for long-life supercapacitor. Chemical Engineering Journal, 2018, 350, 386-394.	12.7	67
8	Graphene oxide-drove transformation of NiS/Ni3S4 microbars towards Ni3S4 polyhedrons for supercapacitor. Journal of Colloid and Interface Science, 2020, 559, 115-123.	9.4	67
9	Flexible high-energy and stable rechargeable vanadium-zinc battery based on oxygen defect modulated V2O5 cathode. Nano Energy, 2021, 87, 106164.	16.0	64
10	Selenium Defect Boosted Electrochemical Performance of Binder-Free VSe ₂ Nanosheets for Aqueous Zinc-Ion Batteries. ACS Applied Materials & Interfaces, 2021, 13, 23230-23238.	8.0	55
11	Sandwich Complex of TATB/Graphene: An Approach to Molecular Monolayers of Explosives. Journal of Physical Chemistry C, 2010, 114, 22684-22687.	3.1	54
12	Synthesis of Silane Functionalized Graphene Oxide and Its Application in Anti-Corrosion Waterborne Polyurethane Composite Coatings. Coatings, 2019, 9, 587.	2.6	44
13	Facile fabrication of core-shell structured Ni(OH)2/Ni(PO3)2 composite via one-step electrodeposition for high performance asymmetric supercapacitor. Journal of Colloid and Interface Science, 2021, 583, 243-254.	9.4	44
14	Rapid Production of Mn3O4/rGO as an Efficient Electrode Material for Supercapacitor by Flame Plasma. Materials, 2018, 11, 881.	2.9	43
15	CoO/rGO composite prepared by a facile direct-flame approach for high-power supercapacitors. Ceramics International, 2018, 44, 16900-16907.	4.8	39
16	Mn3O4/Co(OH)2 cactus-type nanoarrays for high-energy-density asymmetric supercapacitors. Journal of Materials Science, 2020, 55, 724-737.	3.7	39
17	Controlled synthesis of a high-performance α-NiS/Ni3S4 hybrid by a binary synergy of sulfur sources for supercapacitor. Journal of Colloid and Interface Science, 2021, 581, 56-65.	9.4	36
18	Synthesis and surface characterization of self-assembled monolayers of thiazoles incorporating hydrocarbon and fluorocarbon chains on copper substrates. Applied Surface Science, 2018, 456, 25-36.	6.1	35

BIN XIANG

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19	A Universal Voltage Design for Triggering Manganese Dioxide Defects Construction to Significantly Boost the Pseudocapacitance. Advanced Functional Materials, 2021, 31, 2102693.	14.9	35
20	Hydrothermal synthesis of graphene-encapsulated 2D circular nanoplates of α-Fe2O3 towards enhanced electrochemical performance for supercapacitor. Journal of Alloys and Compounds, 2019, 775, 63-71.	5.5	33
21	Tuning the kinetics of binder-free ammonium vanadate cathode via defect modulation for ultrastable rechargeable zinc ion batteries. Nano Energy, 2021, 90, 106596.	16.0	29
22	Corrosion control of mild steel in 0.1ÂM H2SO4 solution by benzimidazole and its derivatives: an experimental and theoretical study. RSC Advances, 2017, 7, 23961-23969.	3.6	28
23	Sulfur source-inspired synthesis of β-NiS with high specific capacity and tunable morphologies for hybrid supercapacitor. Electrochimica Acta, 2020, 337, 135826.	5.2	28
24	New insights into Sr-O bonds enhances Co/Fe catalytic activity in SrCoFe perovskite for boosted peroxymonosulfate activation. Chemical Engineering Journal, 2021, 426, 131525.	12.7	28
25	Excellent inhibition performance of low-toxicity Dibenzyldithiocarbamic Acid Zinc Salt self-assembled nano-film for copper corrosion in sulfuric acid. Journal of Molecular Liquids, 2018, 271, 959-969.	4.9	25
26	Oxygen vacancy-rich, binder-free copper pyrovanadate for zinc ion storage. Chemical Engineering Journal, 2021, 420, 130474.	12.7	24
27	Ultrathin nickel manganese nanosheets with rich oxygen-vacancy as a durability electrode for aqueous Ni//Zn batteries. Journal of Colloid and Interface Science, 2020, 578, 677-684.	9.4	23
28	Engineering porous structure in Bi-component-active ZnO quantum dots anchored vanadium nitride boosts reaction kinetics for zinc storage. Nano Energy, 2021, 89, 106386.	16.0	23
29	Phenothiazine drugs as novel and eco-friendly corrosion inhibitors for copper in sulfuric acid solution. Journal of the Taiwan Institute of Chemical Engineers, 2020, 113, 253-263.	5.3	22
30	Conductive copper glue constructs a reversible and stable zinc metal anode interface for advanced aqueous zinc ion battery. Journal of Colloid and Interface Science, 2022, 608, 22-29.	9.4	22
31	Facile synthesis of α-Fe2O3 pyramid on reduced graphene oxide for supercapacitor and photo-degradation. Journal of Alloys and Compounds, 2018, 744, 412-420.	5.5	19
32	Phosphate ion functionalization of Co(OH)2 nanosheets by a simple immersion method. Journal of Alloys and Compounds, 2018, 768, 57-64.	5.5	19
33	Facile electrochemical phosphatization of Mn3O4 nanosheet arrays for supercapacitor with enhanced performance. Journal of Materials Science, 2019, 54, 625-637.	3.7	18
34	Two common antihistamine drugs as high-efficiency corrosion inhibitors for copper in 0.5M H2SO4. Journal of the Taiwan Institute of Chemical Engineers, 2021, 123, 11-20.	5.3	18
35	Combining electrochemical, surface topography analysis, and theoretical calculation methods to insight into the anti-corrosion property of Syzygium samarangense leaf extract. Journal of Industrial and Engineering Chemistry, 2021, 102, 302-311.	5.8	18
36	Synthesis of aqueous and hydroxy-terminated polyurethanes: Impacts of formulation parameters by orthogonal matrix design. Progress in Organic Coatings, 2016, 90, 1-9.	3.9	17

BIN XIANG

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37	Inhibition of Tryptophan on AA 2024 in Chloride-Containing Solutions. Journal of Materials Engineering and Performance, 2011, 20, 265-270.	2.5	15
38	Why is the crystal shape of TATB is so similar to its molecular shape? Understanding by only its root molecule. Journal of Molecular Modeling, 2012, 18, 2247-2256.	1.8	15
39	Two novel drugs as bio-functional inhibitors for copper performing excellent anticorrosion and antibacterial properties. Colloids and Surfaces B: Biointerfaces, 2020, 190, 110898.	5.0	15
40	Ultraviolet light absorber with low surface energy: synthesis and characterization. Tetrahedron, 2014, 70, 6585-6593.	1.9	13
41	Chemically assembling chromium vanadate into an urchin-like porous rich matrix with ultrathin nanosheets for rapid Zn2+ storage. Journal of Colloid and Interface Science, 2021, 597, 422-428.	9.4	13
42	Construction of three-dimensional ordered structure of crystalline bismuth for long life aqueous nickel-bismuth batteries. Applied Surface Science, 2020, 515, 145977.	6.1	12
43	Are amino groups advantageous to insensitive high explosives (IHEs)?. Journal of Molecular Modeling, 2012, 18, 4729-4738.	1.8	11
44	Inhibition of Zinc Corrosion by Fucoidan in Natural Sea water. Acta Metallurgica Sinica (English) Tj ETQq0 0 0 rgB	Г /Oyerloc 2.9	k 10 Tf 50 4
45	Surfactant-free synthesis of homogeneous nano-grade cadmium sulfide grafted reduced graphene oxide composite as a high-activity photocatalyst in visible light. Ceramics International, 2019, 45, 14376-14383.	4.8	10
46	Three piperazine compounds as corrosion inhibitors for copper in 0.5 M sulfuric acid medium. Journal of the Taiwan Institute of Chemical Engineers, 2021, 126, 231-243.	5.3	10
47	Preparation optimization of ATO particles by robust parameter design. Materials Science in Semiconductor Processing, 2016, 42, 354-358.	4.0	9

48	An intermittent microwave-exfoliated non-expansive graphite oxide process for highly-efficient production of high-quality graphene. Journal of Colloid and Interface Science, 2020, 565, 288-294.	9.4	9
49	Electrochemical activation fabrication towards high-capacity nickel hydroxide electrode. Journal of Alloys and Compounds, 2021, 855, 157332.	5.5	9
50	Doping-driven electronic structure and conductivity modification of nickel sulfide. Dalton Transactions, 2022, 51, 8318-8326.	3.3	9
51	Morphology transition of FeOOH induced by N-doped graphene for excellent pseudocapacitive energy storage. Electrochimica Acta, 2022, 403, 139676.	5.2	8
52	Corrosion of AM60B magnesium alloy in simulated acid rain. Anti-Corrosion Methods and Materials, 2010, 57, 244-248.	1.5	7
53	Understanding the desensitizing mechanism of olefin in explosives: shear slide of mixed HMX-olefin systems. Journal of Molecular Modeling, 2012, 18, 1503-1512.	1.8	7
54	Fabrication of ultra-closely graphene-wrapped Ni foam substrate for supercapacitor electrode by flame induction and electrostatic interaction. Journal of Alloys and Compounds, 2019, 791, 423-430.	5.5	7

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Bin Xiang

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55	Scalable modulation of reduced graphene oxide properties via regulating graphite oxide precursors. Journal of Alloys and Compounds, 2019, 782, 17-27.	5.5	7
56	A Copper(I)-Thioarsenate(III) Inorganic Framework Directed by [Ni(en)3]2+. Inorganic Chemistry, 2021, 60, 6813-6819.	4.0	7
57	Corrosion Behavior of 35CrMn and Q235 Steel in Simulated Acid Rain Conditions. Journal of Materials Engineering and Performance, 2012, 21, 524-529.	2.5	6
58	Anticorrosion potential of domperidone on copper in different concentration of hydrochloric acid solution. Journal of Adhesion Science and Technology, 2018, 32, 1485-1502.	2.6	6
59	Functional triazine ultraviolet absorbers for sunlight protection of polymer materials surface. Materials Letters, 2019, 236, 743-746.	2.6	5
60	One-Dimensional Vanadium(III) Chalcogenidostannates Incorporating [V(tepa)] ³⁺ Complexes as Bridging Groups. Inorganic Chemistry, 2021, 60, 2127-2132.	4.0	5
61	Design of Co(OH)2 composite electrode with high active surface area by sulfur control and graphene encapsulation strategies. Applied Surface Science, 2022, 596, 153612.	6.1	5
62	An ultra-effective pathway for fully removing the oxygen components of graphene oxide by a flame-assisted microwave process. Dalton Transactions, 2020, 49, 6964-6968.	3.3	4
63	A novel 3-D lead-iodide polymer based on the linkage of rare binuclear [Pb ₂ 1] ³⁺ cations and anionic bis(pyrazinyl)-trizole bridges. Dalton Transactions, 2021, 50, 4486-4489.	3.3	4
64	Effect of Heavy Metals on Brownfield Quality in Different Industries. Advanced Materials Research, 0, 414, 284-288.	0.3	3
65	Nickel hydroxide/sulfide hybrids: halide ion controlled synthesis, structural characteristics, and electrochemical performance. Dalton Transactions, 2022, 51, 4153-4165.	3.3	3
66	Soil Environmental Quality Assessment on an Abandoned Industrial Land. Advanced Materials Research, 2011, 356-360, 726-729.	0.3	2
67	Photo-Aging of Polyurethane Coating Based on TDI-TMP and N3390. Advanced Materials Research, 0, 189-193, 1100-1104.	0.3	2
68	Effects of formulation on set-to-touch time of waterborne alkyd resin by uniform design. Progress in Organic Coatings, 2015, 87, 189-196.	3.9	2
69	Synthesis and exploration of triazine ultraviolet absorbers with surface enrichment property. Tetrahedron, 2017, 73, 4566-4572.	1.9	2
70	Different Curing Agents on the Photoaging of Polyurethane Coatings. Advanced Materials Research, 2011, 189-193, 1109-1112.	0.3	1
71	Effect of Additives on Photo-Aging Performance of Polyurethane Coating. Advanced Materials Research, 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. Frontiers in Oncology, 2021, 11, 747305.	2.8	1

Bin Xiang

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73	Corrosion-controlled surface engineering improves the adhesion of materials for stable free-standing electrodes. Journal of Colloid and Interface Science, 2022, 614, 617-628.	9.4	1
74	Effect of nanoâ€TiO ₂ on MPâ€⊋5 resin. Journal of Applied Polymer Science, 2008, 107, 1598-1603.	2.6	0
75	Computer Simulation of an Synthetic Ultraviolet Absorbent in the Interface of DMB and DMF. Advanced Materials Research, 0, 146-147, 966-971.	0.3	0
76	Heavy Metal Research on Sites of Former Machining Industry in Chongqing. Advanced Materials Research, 2011, 414, 301-305.	0.3	0
77	Scaling Mechanism of Heat Exchanger for Spent Sulfuric Acid Concentrating in Titania Production. Advanced Materials Research, 2012, 560-561, 678-681.	0.3	0
78	Photo-Aging of Coating Based on Mixture of TDI and N75. Advanced Materials Research, 2014, 1035, 453-457.	0.3	0
79	Electric Field Calculation of Pipe with Cathodic Protection in Seawater by BEM. Applied Mechanics and Materials, 2014, 621, 230-234.	0.2	0
80	Synthesis and Characterization of a New Fluorine-Containing Ultraviolet Light Absorber Based on BTA. Advanced Materials Research, 2015, 1096, 204-208.	0.3	0