

# Bin Xiang

## List of Publications by Year in descending order

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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	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
2	Morphology transition of FeOOH induced by N-doped graphene for excellent pseudocapacitive energy storage. <i>Electrochimica Acta</i> , 2022, 403, 139676.	2.6	8
3	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
4	Nickel hydroxide/sulfide hybrids: halide ion controlled synthesis, structural characteristics, and electrochemical performance. <i>Dalton Transactions</i> , 2022, 51, 4153-4165.	1.6	3
5	Doping-driven electronic structure and conductivity modification of nickel sulfide. <i>Dalton Transactions</i> , 2022, 51, 8318-8326.	1.6	9
6	Design of Co(OH) <sub>2</sub> 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
7	Controlled synthesis of a high-performance $\pm$ -NiS/Ni <sub>3</sub> S <sub>4</sub> 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
8	Electrochemical activation fabrication towards high-capacity nickel hydroxide electrode. <i>Journal of Alloys and Compounds</i> , 2021, 855, 157332.	2.8	9
9	Papaya leaves extract as a novel eco-friendly corrosion inhibitor for Cu in H <sub>2</sub> SO <sub>4</sub> medium. <i>Journal of Colloid and Interface Science</i> , 2021, 582, 918-931.	5.0	275
10	Facile fabrication of core-shell structured Ni(OH) <sub>2</sub> /Ni(PO <sub>3</sub> ) <sub>2</sub> 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
11	A novel 3-D lead-iodide polymer based on the linkage of rare binuclear [Pb <sub>2</sub> ] <sup>3+</sup> cations and anionic bis(pyrazinyl)-triazole bridges. <i>Dalton Transactions</i> , 2021, 50, 4486-4489.	1.6	4
12	One-Dimensional Vanadium(III) Chalcogenidostannates Incorporating [V(tepa)] <sup>3+</sup> Complexes as Bridging Groups. <i>Inorganic Chemistry</i> , 2021, 60, 2127-2132.	1.9	5
13	A Copper(I)-Thioarsenate(III) Inorganic Framework Directed by [Ni(en) <sub>3</sub> ] <sup>2+</sup> . <i>Inorganic Chemistry</i> , 2021, 60, 6813-6819.	1.9	7
14	Selenium Defect Boosted Electrochemical Performance of Binder-Free VSe <sub>2</sub> Nanosheets for Aqueous Zinc-Ion Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 23230-23238.	4.0	55
15	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
16	Two common antihistamine drugs as high-efficiency corrosion inhibitors for copper in 0.5M H <sub>2</sub> SO <sub>4</sub> . <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2021, 123, 11-20.	2.7	18
17	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
18	Flexible high-energy and stable rechargeable vanadium-zinc battery based on oxygen defect modulated V <sub>2</sub> O <sub>5</sub> cathode. <i>Nano Energy</i> , 2021, 87, 106164.	8.2	64

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19	Chemically assembling chromium vanadate into an urchin-like porous rich matrix with ultrathin nanosheets for rapid Zn <sup>2+</sup> storage. <i>Journal of Colloid and Interface Science</i> , 2021, 597, 422-428.	5.0	13
20	Oxygen vacancy-rich, binder-free copper pyrovanadate for zinc ion storage. <i>Chemical Engineering Journal</i> , 2021, 420, 130474.	6.6	24
21	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
22	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
23	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
24	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
25	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
26	Mn <sub>3</sub> O <sub>4</sub> /Co(OH) <sub>2</sub> cactus-type nanoarrays for high-energy-density asymmetric supercapacitors. <i>Journal of Materials Science</i> , 2020, 55, 724-737.	1.7	39
27	Graphene oxide-drove transformation of NiS/Ni <sub>3</sub> S <sub>4</sub> microbars towards Ni <sub>3</sub> S <sub>4</sub> polyhedrons for supercapacitor. <i>Journal of Colloid and Interface Science</i> , 2020, 559, 115-123.	5.0	67
28	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
29	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
30	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
31	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
32	Synthesis of CuO@CoNi LDH on Cu foam for high-performance supercapacitors. <i>Chemical Engineering Journal</i> , 2020, 401, 126145.	6.6	122
33	Sulfur source-inspired synthesis of $\hat{I}^2$ -NiS with high specific capacity and tunable morphologies for hybrid supercapacitor. <i>Electrochimica Acta</i> , 2020, 337, 135826.	2.6	28
34	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
35	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
36	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

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37	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
38	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
39	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
40	Facile electrochemical phosphatization of Mn <sub>3</sub> O <sub>4</sub> nanosheet arrays for supercapacitor with enhanced performance. <i>Journal of Materials Science</i> , 2019, 54, 625-637.	1.7	18
41	Functional triazine ultraviolet absorbers for sunlight protection of polymer materials surface. <i>Materials Letters</i> , 2019, 236, 743-746.	1.3	5
42	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
43	Hydrothermal synthesis of graphene-encapsulated 2D circular nanoplates of $\text{Fe}_2\text{O}_3$ towards enhanced electrochemical performance for supercapacitor. <i>Journal of Alloys and Compounds</i> , 2019, 775, 63-71.	2.8	33
44	Facile synthesis of $\text{Fe}_2\text{O}_3$ pyramid on reduced graphene oxide for supercapacitor and photo-degradation. <i>Journal of Alloys and Compounds</i> , 2018, 744, 412-420.	2.8	19
45	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
46	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
47	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
48	Free-standing, layered graphene monoliths for long-life supercapacitor. <i>Chemical Engineering Journal</i> , 2018, 350, 386-394.	6.6	67
49	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
50	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
51	Rapid Production of Mn <sub>3</sub> O <sub>4</sub> /rGO as an Efficient Electrode Material for Supercapacitor by Flame Plasma. <i>Materials</i> , 2018, 11, 881.	1.3	43
52	Phosphate ion functionalization of Co(OH) <sub>2</sub> nanosheets by a simple immersion method. <i>Journal of Alloys and Compounds</i> , 2018, 768, 57-64.	2.8	19
53	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
54	Corrosion control of mild steel in 0.1M H <sub>2</sub> SO <sub>4</sub> solution by benzimidazole and its derivatives: an experimental and theoretical study. <i>RSC Advances</i> , 2017, 7, 23961-23969.	1.7	28

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55	Inhibition of Zinc Corrosion by Fucoidan in Natural Sea water. Acta Metallurgica Sinica (English) Tj ETQq1 1 0.784314 rgBT /Overlock 10	1.5	10
56	Synthesis and exploration of triazine ultraviolet absorbers with surface enrichment property. Tetrahedron, 2017, 73, 4566-4572.	1.0	2
57	Preparation optimization of ATO particles by robust parameter design. Materials Science in Semiconductor Processing, 2016, 42, 354-358.	1.9	9
58	Synthesis of aqueous and hydroxy-terminated polyurethanes: Impacts of formulation parameters by orthogonal matrix design. Progress in Organic Coatings, 2016, 90, 1-9.	1.9	17
59	Synthesis and Characterization of a New Fluorine-Containing Ultraviolet Light Absorber Based on BTA. Advanced Materials Research, 2015, 1096, 204-208.	0.3	0
60	Effects of formulation on set-to-touch time of waterborne alkyd resin by uniform design. Progress in Organic Coatings, 2015, 87, 189-196.	1.9	2
61	Photo-Aging of Coating Based on Mixture of TDI and N75. Advanced Materials Research, 2014, 1035, 453-457.	0.3	0
62	Electric Field Calculation of Pipe with Cathodic Protection in Seawater by BEM. Applied Mechanics and Materials, 2014, 621, 230-234.	0.2	0
63	Corrosion control of copper in 3.5wt.% NaCl Solution by Domperidone: Experimental and Theoretical Study. Corrosion Science, 2014, 85, 77-86.	3.0	166
64	Ultraviolet light absorber with low surface energy: synthesis and characterization. Tetrahedron, 2014, 70, 6585-6593.	1.0	13
65	Scaling Mechanism of Heat Exchanger for Spent Sulfuric Acid Concentrating in Titania Production. Advanced Materials Research, 2012, 560-561, 678-681.	0.3	0
66	Are amino groups advantageous to insensitive high explosives (IHEs)?. Journal of Molecular Modeling, 2012, 18, 4729-4738.	0.8	11
67	Corrosion Behavior of 35CrMn and Q235 Steel in Simulated Acid Rain Conditions. Journal of Materials Engineering and Performance, 2012, 21, 524-529.	1.2	6
68	Understanding the desensitizing mechanism of olefin in explosives: shear slide of mixed HMX-olefin systems. Journal of Molecular Modeling, 2012, 18, 1503-1512.	0.8	7
69	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.	0.8	15
70	Inhibition of Tryptophan on AA 2024 in Chloride-Containing Solutions. Journal of Materials Engineering and Performance, 2011, 20, 265-270.	1.2	15
71	Soil Environmental Quality Assessment on an Abandoned Industrial Land. Advanced Materials Research, 2011, 356-360, 726-729.	0.3	2
72	Different Curing Agents on the Photoaging of Polyurethane Coatings. Advanced Materials Research, 2011, 189-193, 1109-1112.	0.3	1

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73	Heavy Metal Research on Sites of Former Machining Industry in Chongqing. <i>Advanced Materials Research</i> , 2011, 414, 301-305.	0.3	0
74	Effect of Additives on Photo-Aging Performance of Polyurethane Coating. <i>Advanced Materials Research</i> , 2011, 291-294, 211-214.	0.3	1
75	Corrosion of AM60B magnesium alloy in simulated acid rain. <i>Anti-Corrosion Methods and Materials</i> , 2010, 57, 244-248.	0.6	7
76	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
77	Effect of nano-TiO <sub>2</sub> on MP25 resin. <i>Journal of Applied Polymer Science</i> , 2008, 107, 1598-1603.	1.3	0
78	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
79	Effect of Heavy Metals on Brownfield Quality in Different Industries. <i>Advanced Materials Research</i> , 0, 414, 284-288.	0.3	3
80	Photo-Aging of Polyurethane Coating Based on TDI-TMP and N3390. <i>Advanced Materials Research</i> , 0, 189-193, 1100-1104.	0.3	2