

# Guoqin Cao

## List of Publications by Year in descending order

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32  
papers

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citations

430874

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501196

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32  
docs citations

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times ranked

719  
citing authors

#	ARTICLE	IF	CITATIONS
1	Dual Evolution in Defect and Morphology of Single-Atom Dispersed Carbon Based Oxygen Electrocatalyst. <i>Advanced Functional Materials</i> , 2021, 31, 2010472.	14.9	78
2	In Situ Fabrication of Nano Porous NiO-Capped Ni <sub>3</sub> P film as Anode for Li-Ion Battery with Different Lithiation Path and Significantly Enhanced Electrochemical Performance. <i>Electrochimica Acta</i> , 2016, 220, 258-266.	5.2	64
3	Molecular Beam Epitaxy Scalable Growth of Wafer-Scale Continuous Semiconducting Monolayer MoTe <sub>2</sub> on Inert Amorphous Dielectrics. <i>Advanced Materials</i> , 2019, 31, e1901578.	21.0	58
4	On the oxidation behavior of (Zr,Nb) <sub>2</sub> Fe under simulated nuclear reactor conditions. <i>Corrosion Science</i> , 2016, 112, 718-723.	6.6	55
5	Chemically anchoring of TiO <sub>2</sub> coating on OH-terminated Mg <sub>3</sub> (PO <sub>3</sub> ) <sub>2</sub> surface and its influence on the in vitro degradation resistance of Mg-Zn-Ca alloy. <i>Applied Surface Science</i> , 2014, 308, 38-42.	6.1	45
6	Enabling Argyrodite Sulfides as Superb Solid-State Electrolyte with Remarkable Interfacial Stability Against Electrodes. <i>Energy and Environmental Materials</i> , 2022, 5, 852-864.	12.8	43
7	A mechanism assessment for the anti-corrosion of zirconia coating under the condition of subcritical water corrosion. <i>Corrosion Science</i> , 2019, 152, 54-59.	6.6	38
8	The formation and stacking faults of Fe and Cr containing Laves phase in Zircaloy-4 alloy. <i>Materials Letters</i> , 2017, 191, 203-205.	2.6	32
9	Nano-porous hollow Li <sub>0.5</sub> La <sub>0.5</sub> TiO <sub>3</sub> spheres and electronic structure modulation for ultra-fast H <sub>2</sub> S detection. <i>Journal of Materials Chemistry A</i> , 2020, 8, 2376-2386.	10.3	32
10	Synergistic effect of cation ordered structure and grain boundary engineering on long-term cycling of Li <sub>0.35</sub> La <sub>0.55</sub> TiO <sub>3</sub> -based solid batteries. <i>Journal of the European Ceramic Society</i> , 2019, 39, 3332-3337.	5.7	31
11	Strong interplay between dopant and SnO <sub>2</sub> in amorphous transparent (Sn, Nb)O <sub>2</sub> anode with high conductivity in electrochemical cycling. <i>Journal of Alloys and Compounds</i> , 2018, 735, 2401-2409.	5.5	28
12	Surficial Structure Retention Mechanism for LiNi <sub>0.8</sub> Co <sub>0.15</sub> Al <sub>0.05</sub> O <sub>2</sub> in a Full Gradient Cathode. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 31991-31996.	8.0	28
13	A designer fast Li-ion conductor Li <sub>6.25</sub> PS <sub>5.25</sub> Cl <sub>0.75</sub> and its contribution to the polyethylene oxide based electrolyte. <i>Applied Surface Science</i> , 2019, 493, 1326-1333.	6.1	24
14	Formation of nanocrystalline $\hat{\gamma}$ -ZrH <sub>x</sub> in Zircaloy-4: Orientation relationship and twinning. <i>Journal of Alloys and Compounds</i> , 2016, 658, 494-499.	5.5	23
15	Near solution-level conductivity of polyvinyl alcohol based electrolyte and the application for fully compliant Al-air battery. <i>Chemical Engineering Journal</i> , 2022, 431, 134283.	12.7	23
16	Chemical diversity of iron species and structure evolution during the oxidation of C14 Laves phase Zr(Fe,Nb) <sub>2</sub> in subcritical environment. <i>Corrosion Science</i> , 2020, 162, 108218.	6.6	21
17	Formation and fine-structures of nano-precipitates in ZIRLO. <i>Journal of Alloys and Compounds</i> , 2016, 687, 451-457.	5.5	18
18	Suppression on allotropic transformation of Sn planar anode with enhanced electrochemical performance. <i>Applied Surface Science</i> , 2018, 435, 1150-1158.	6.1	18

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19	Amorphous carbon shell on Si particles fabricated by carbonizing of polyphosphazene and enhanced performance as lithium ion battery anode. <i>Materials Letters</i> , 2016, 171, 63-67.	2.6	15
20	In situ atomic-scale engineering of the chemistry and structure of the grain boundaries region of $\text{Li}_3\text{La}_2/3\text{-TiO}_3$ . <i>Scripta Materialia</i> , 2020, 185, 134-139.	5.2	15
21	Two-pronged approach to regulate Li etching for a stable anode. <i>Journal of Power Sources</i> , 2020, 455, 227988.	7.8	14
22	Evolution of "Spinodal decomposition"-like structures during the oxidation of $\text{Zr}(\text{Fe,Nb})_2$ under subcritical environment. <i>Scripta Materialia</i> , 2020, 187, 107-112.	5.2	13
23	Mechanism of enhanced $\text{H}_2\text{S}$ sensor ability based on emerging $\text{Li}_0.5\text{La}_0.5\text{TiO}_3\text{-SnO}_2$ core-shell structure. <i>Sensors and Actuators B: Chemical</i> , 2022, 352, 131054.	7.8	13
24	Size effect on the electrochemical reaction path and performance of nano size phosphorus rich skutterudite nickel phosphide. <i>Journal of Alloys and Compounds</i> , 2019, 781, 1059-1068.	5.5	11
25	Dominant growth of higher manganese silicide film on Si substrate by introducing a Si oxide capping layer. <i>Journal of Alloys and Compounds</i> , 2018, 740, 541-544.	5.5	10
26	"Mechanical" electrochemical coupling structure and the application as a three-dimensional current collector for lithium metal anode. <i>Applied Surface Science</i> , 2021, 563, 150247.	6.1	10
27	Oxidation behavior and chemical evolution of architecturally arranged Zr/Si multilayer at high temperature. <i>Surface and Coatings Technology</i> , 2020, 399, 126205.	4.8	9
28	Planar Li growth on $\text{Li}_{21}\text{Si}_5$ modified Li metal for the stabilization of anode. <i>Journal of Materials Science and Technology</i> , 2021, 76, 156-165.	10.7	6
29	Enabling High Performance Sodium Battery Anodes by Complete Reduction of Graphene Oxide and Cooperative In Situ Crystallization of Ultrafine $\text{SnO}_2$ Nanocrystals. <i>Energy and Environmental Materials</i> , 2023, 6, .	12.8	6
30	Microstructural and mechanical evolution of amorphous Zr-Si with irradiation induced atomic reconfiguration and free volume variation. <i>Surfaces and Interfaces</i> , 2022, 30, 101890.	3.0	2
31	Zif-derived Electrocatalysis: Dual Evolution in Defect and Morphology of Single-Atom Dispersed Carbon Based Oxygen Electrocatalyst ( <i>Adv. Funct. Mater.</i> 19/2021). <i>Advanced Functional Materials</i> , 2021, 31, 2170132.	14.9	1
32	On the thermal stability and oxidation resistance of Zr/X(Cr, Ni, Si) multilayer structure. <i>Surface and Coatings Technology</i> , 2022, 440, 128500.	4.8	1