

# Bin Qian

## List of Publications by Year in descending order

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81  
papers

1,754  
citations

279798

23  
h-index

330143

37  
g-index

81  
all docs

81  
docs citations

81  
times ranked

2631  
citing authors

#	ARTICLE	IF	CITATIONS
1	Significant Role of Al in Ternary Layered Double Hydroxides for Enhancing Electrochemical Performance of Flexible Asymmetric Supercapacitor. <i>Advanced Functional Materials</i> , 2019, 29, 1903879.	14.9	228
2	Topological Type-II Dirac Fermions Approaching the Fermi Level in a Transition Metal Dichalcogenide $\text{NiTe}_2$ . <i>Chemistry of Materials</i> , 2018, 30, 4823-4830.	6.7	101
3	Nano-sized $\text{FeSe}_2$ anchored on reduced graphene oxide as a promising anode material for lithium-ion and sodium-ion batteries. <i>Journal of Materials Science</i> , 2019, 54, 4225-4235.	3.7	74
4	Core-shell structured $\text{SnSe}@C$ microrod for Na-ion battery anode. <i>Journal of Energy Chemistry</i> , 2021, 55, 256-264.	12.9	61
5	Magnetic phase separation and exchange bias in off-stoichiometric Ni-Mn-Ga alloys. <i>Applied Physics Letters</i> , 2013, 103, .	3.3	59
6	Three-dimensional hollow spheres of the tetragonal-spinel $\text{MgMn}_2\text{O}_4$ cathode for high-performance magnesium ion batteries. <i>Journal of Materials Chemistry A</i> , 2018, 6, 8210-8214.	10.3	52
7	Facile Synthesis of Nanoporous Pt-Y alloy with Enhanced Electrocatalytic Activity and Durability. <i>Scientific Reports</i> , 2017, 7, 41826.	3.3	46
8	The tunable magnetostructural transition in MnNiSi-FeNiGe system. <i>Applied Physics Letters</i> , 2013, 103, 132411.	3.3	44
9	Nanoporous PdCe bimetallic nanocubes with high catalytic activity towards ethanol electro-oxidation and the oxygen reduction reaction in alkaline media. <i>Journal of Materials Chemistry A</i> , 2018, 6, 23560-23568.	10.3	38
10	Two-band and pauli-limiting effects on the upper critical field of 112-type iron pnictide superconductors. <i>Scientific Reports</i> , 2017, 7, 45943.	3.3	37
11	Encapsulating Carbon-Coated $\text{MoS}_2$ Nanosheets within a Nitrogen-Doped Graphene Network for High-Performance Potassium-Ion Storage. <i>Advanced Materials Interfaces</i> , 2019, 6, 1901066.	3.7	36
12	Phase stability and magnetic-field-induced martensitic transformation in Mn-rich NiMnSn alloys. <i>AIP Advances</i> , 2012, 2, .	1.3	35
13	MOFs derived $\text{Co}^{2+}$ nanoparticles embedded in N-doped carbon nanosheets with improved electrochemical performance for lithium ion batteries. <i>Applied Surface Science</i> , 2019, 479, 693-699.	6.1	35
14	Design and synthesis of dendritic $\text{Co}_3\text{O}_4@C_2(\text{CO}_3)(\text{OH})_2$ nanoarrays on carbon cloth for high-performance supercapacitors. <i>Journal of Materials Science</i> , 2020, 55, 12091-12102.	3.7	33
15	Extremely large magnetoresistance in the antiferromagnetic semimetal GdSb. <i>Journal of Materials Chemistry C</i> , 2018, 6, 3026-3033.	5.5	32
16	Porous $\text{CoP}/C@MCNTs$ hybrid composite derived from metal-organic frameworks for high-performance lithium-ion batteries. <i>Journal of Materials Science</i> , 2019, 54, 3273-3283.	3.7	29
17	Magnetostructural transformation and magnetocaloric effect in $\text{MnNiGe}_{1-x}\text{Ga}_x$ alloys. <i>Journal of Applied Physics</i> , 2013, 114, .	2.5	27
18	MnSe nanoparticles encapsulated into N-doped carbon fibers with a binder-free and free-standing structure for lithium ion batteries. <i>Ceramics International</i> , 2021, 47, 1429-1438.	4.8	27

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19	Morphological modulation of cobalt selenide on carbon cloth by Ni doping for high-performance electrodes in supercapacitors. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2021, 624, 126818.	4.7	27
20	Formation of graphene-encapsulated CoS <sub>2</sub> hybrid composites with hierarchical structures for high-performance lithium-ion batteries. <i>RSC Advances</i> , 2017, 7, 39427-39433.	3.6	26
21	Rational design of hierarchical FeSe <sub>2</sub> encapsulated with bifunctional carbon cuboids as an advanced anode for sodium-ion batteries. <i>Nanoscale</i> , 2020, 12, 22210-22216.	5.6	26
22	Hierarchical Co <sub>2</sub> P microspheres assembled from nanorods grown on reduced graphene oxide as anode material for Lithium-ion batteries. <i>Applied Surface Science</i> , 2018, 459, 665-671.	6.1	25
23	Electrocatalytically inactive copper improves the water adsorption/dissociation on Ni <sub>3</sub> S <sub>2</sub> for accelerated alkaline and neutral hydrogen evolution. <i>Nanoscale</i> , 2021, 13, 2456-2464.	5.6	25
24	Magnetic-field-induced Dielectric Anomaly and Electric Polarization in Co <sub>4</sub> Ta <sub>2</sub> O <sub>9</sub> . <i>Journal of the American Ceramic Society</i> , 2015, 98, 2005-2007.	3.8	24
25	MOF-derived ultrasmall CoSe <sub>2</sub> nanoparticles encapsulated by an N-doped carbon matrix and their superior lithium/sodium storage properties. <i>Chemical Communications</i> , 2020, 56, 9218-9221.	4.1	24
26	Multiwalled carbon nanotube-modified Nb <sub>2</sub> O <sub>5</sub> with enhanced electrochemical performance for lithium-ion batteries. <i>Ceramics International</i> , 2018, 44, 23226-23231.	4.8	23
27	Ultrafine Co <sub>3</sub> O <sub>4</sub> Nanoparticles within Nitrogen-Doped Carbon Matrix Derived from Metal-Organic Complex for Boosting Lithium Storage and Oxygen Evolution Reaction. <i>Small</i> , 2019, 15, e1904260.	10.0	23
28	Lithium storage mechanisms of CdSe nanoparticles with carbon modification for advanced lithium ion batteries. <i>Chemical Communications</i> , 2019, 55, 2996-2999.	4.1	23
29	Composite structure and properties of Mn <sub>3</sub> O <sub>4</sub> /graphene oxide and Mn <sub>3</sub> O <sub>4</sub> /graphene. <i>Journal of Materials Chemistry A</i> , 2013, , .	10.3	22
30	Formation of Nitrogen-Doped Carbon-Coated CoP Nanoparticles Embedded within Graphene Oxide for Lithium-ion Batteries Anode. <i>Energy Technology</i> , 2020, 8, 1901089.	3.8	22
31	Enhanced electron correlations in the binary selenide $\text{PdSn}_4$ : A homologue of the Dirac nodal arc semimetal $\text{PtSn}_4$ . <i>Physical Review Letters</i> , 2020, 125, 086401.	2.4	22
32	Anisotropic Transport and Quantum Oscillations in the Quasi-One-Dimensional TaNiTe <sub>5</sub> : Evidence for the Nontrivial Band Topology. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 7782-7789.	4.6	21
33	Evidence of s-wave superconductivity in the noncentrosymmetric La <sub>7</sub> Ir <sub>3</sub> . <i>Scientific Reports</i> , 2018, 8, 651.	3.3	19
34	Nonsaturating Magnetoresistance and Nontrivial Band Topology of Type-II Weyl Semimetal NbIrTe <sub>4</sub> . <i>Advanced Electronic Materials</i> , 2019, 5, 1900250.	5.1	19
35	Metal-organic framework-derived Ni <sub>2</sub> P/nitrogen-doped carbon porous spheres for enhanced lithium storage. <i>Science China Materials</i> , 2020, 63, 1672-1682.	6.3	18
36	Magnetic-field-induced nontrivial electronic state in the Kondo-lattice semimetal CeSb. <i>Physical Review B</i> , 2020, 101, .	3.2	18

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37	<i>In situ</i> synthesis of ultrasmall MnO nanoparticles encapsulated by a nitrogen-doped carbon matrix for high-performance lithium-ion batteries. <i>Chemical Communications</i> , 2019, 55, 9184-9187.	4.1	17
38	Extreme magnetoresistance and pressure-induced superconductivity in the topological semimetal candidate YBi. <i>Physical Review B</i> , 2019, 99, .	3.2	17
39	Metal-Organic Framework-Derived FeSe <sub>2</sub> @Carbon Embedded into Nitrogen-Doped Graphene Sheets with Binary Conductive Networks for Rechargeable Batteries. <i>ChemElectroChem</i> , 2019, 6, 2805-2811.	3.4	17
40	Bimetal phosphide Ni <sub>1.4</sub> Co <sub>0.6</sub> P nanoparticle/carbon@ nitrogen-doped graphene network as high-performance anode materials for lithium-ion batteries. <i>Applied Surface Science</i> , 2019, 485, 413-422.	6.1	17
41	Two-gap superconductivity and topological surface states in TaOsSi. <i>Physical Review B</i> , 2019, 100, .	3.2	16
42	CeO <sub>2</sub> nanoparticles embedded into one dimensional N doped carbon matrix as a high performance anode for lithium ion batteries. <i>Journal of Physics and Chemistry of Solids</i> , 2019, 134, 187-192.	4.0	16
43	MoO <sub>2</sub> nanosheets embedded into carbon nanofibers with a self-standing structure for lithium ion and sodium ion batteries. <i>Ceramics International</i> , 2021, 47, 26839-26846.	4.8	16
44	Intermartensitic Transformation and Enhanced Exchange Bias in Pd (Pt) -doped Ni-Mn-Sn alloys. <i>Scientific Reports</i> , 2016, 6, 25911.	3.3	15
45	Topological phase transition under pressure in the topological nodal-line superconductor $PbTaSe_{2}Mn_{2}$ . <i>Physical Review B</i> , 2017, 96, .	3.2	14
46	Graphite modified AlNbO <sub>4</sub> with enhanced lithium ion storage behaviors and its electrochemical mechanism. <i>Materials Research Bulletin</i> , 2018, 97, 405-410.	5.2	14
47	Critical behavior and magnetocaloric effect in the multiferroic double perovskite Lu <sub>2</sub> NiMnO <sub>6</sub> . <i>Journal of Alloys and Compounds</i> , 2018, 763, 613-621.	5.5	14
48	Extremely large magnetoresistance in the nonmagnetic semimetal YBi. <i>Journal of Materials Chemistry C</i> , 2018, 6, 10020-10029.	5.5	13
49	A Fe <sub>2</sub> O <sub>3</sub> @Fe <sub>3</sub> C heterostructure encapsulated into a carbon matrix for the anode of lithium-ion batteries. <i>Chemical Communications</i> , 2021, 57, 8818-8821.	4.1	13
50	Anisotropic and extreme magnetoresistance in the magnetic semimetal candidate erbium monobismuthide. <i>Physical Review B</i> , 2020, 102, .	3.2	12
51	Magnetic, dielectric and magnetoelectric properties of polycrystalline Nb <sub>2</sub> Co <sub>4</sub> O <sub>9</sub> . <i>Journal of Alloys and Compounds</i> , 2016, 679, 213-217.	5.5	10
52	Hierarchical Ni(HCO <sub>3</sub> ) <sub>2</sub> Nanosheets Anchored on Carbon Nanofibers as Binder-Free Anodes for Lithium-Ion Batteries. <i>Energy Technology</i> , 2019, 7, 1900094.	3.8	10
53	Kondo behavior and metamagnetic phase transition in the heavy-fermion compound $CeBi_{2}Mn_{2}$ . <i>Physical Review B</i> , 2018, 97, .	3.2	9
54	Facile synthesis of CdCO <sub>3</sub> cubic particles/graphene composite with enhanced electrochemical performance for lithium-ion batteries. <i>Materials Letters</i> , 2019, 236, 672-675.	2.6	9

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55	One dimensional SbO <sub>2</sub> /Sb <sub>2</sub> O <sub>3</sub> @NC microrod as anode for lithium-ion and sodium-ion batteries. Nano Select, 2021, 2, 425-432.	3.7	9
56	Influence of annealing temperature on the properties of polycrystalline silicon films formed by rapid thermal annealing of a-Si:H films. Journal of Materials Science: Materials in Electronics, 2013, 24, 4209-4212.	2.2	7
57	Magnetic manipulation of $Cu_xFe_{1-x}$ layers in $Fe_{1-x}Co_x$ multilayers. Physical Review B, 2015, 91, 044411.	3.2	7
58	Correlation between non-Fermi-liquid behavior and superconductivity in (Ca, La)(Fe,Co) iron arsenides: A high-pressure study. Physical Review B, 2017, 96, .	3.1	3
59	The lithium ion storage performance of ZnSe particles with stable electrochemical reaction interfaces improved by carbon coating. Journal of Physics and Chemistry of Solids, 2021, 152, 109987.	4.0	7
60	Pressure effect on the topologically nontrivial electronic state and transport of lutecium monobismuthide. Physical Review Materials, 2020, 4, .	2.4	7
61	Electrochemical and electrocatalytic performance of FeSe <sub>2</sub> nanoparticles improved by selenium matrix. Materials Letters, 2021, 284, 128947.	2.6	6
62	Effect of annealing on superconductivity in Fe <sub>1+y</sub> (Te <sup>1-x</sup> S <sup>x</sup> ) system. Science China: Physics, Mechanics and Astronomy, 2010, 53, 1216-1220.	5.1	5
63	Magnetic manipulation of electric orders in Co <sub>4</sub> NbTaO <sub>9</sub> . RSC Advances, 2016, 6, 95038-95043.	3.6	5
64	Modulated multiferroic properties of MnWO <sub>4</sub> via chemical doping. RSC Advances, 2016, 6, 3219-3223.	3.6	5
65	Synergistic Effect on the Improved Electrochemical Performance in the Case of Fe <sup>2+</sup> /Cd <sup>2+</sup> /CO <sub>3</sub> . Journal of Physical Chemistry C, 2019, 123, 19333-19339.	3.1	5
66	Pressure engineering of the Dirac fermions in quasi-one-dimensional Tl <sub>2</sub> Mo <sub>6</sub> Se <sub>6</sub> . Journal of Physics Condensed Matter, 2020, 32, 215402.	1.8	5
67	Anisotropic transport in a possible quasi-one-dimensional topological candidate: TaNi <sub>2</sub> Te <sub>3</sub> . Tungsten, 2023, 5, 325-331.	4.8	5
68	An Organic/Inorganic Synergistic Electrolysis for Overcharge Protection of Electric Vehicle Batteries. Industrial & Engineering Chemistry Research, 2019, 58, 1787-1793.	3.7	4
69	Topological quantum phase transition in the magnetic semimetal HoSb. Journal of Materials Chemistry C, 2021, 9, 6996-7004.	5.5	4
70	Tuning the Ground State and Its Relationship to Zero-Field-Cooled Exchange Bias in NiMnSnAl Alloys. Journal of Superconductivity and Novel Magnetism, 2019, 32, 3243-3249.	1.8	3
71	Anisotropic large magnetoresistance and Fermi surface topology of terbium monoantimonide. Materials Today Physics, 2022, 24, 100657.	6.0	3
72	Anisotropic giant magnetoresistance and Fermi surface topology in the layered compound YbBi <sub>2</sub> . Physical Review B, 2022, 105, .	3.1	3

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73	EFFECTS OF Sc SUBSTITUTING Y IN $\text{YBa}_2\text{Cu}_3\text{O}_{7-\delta}$ ON THE FLUX PINNING PROPERTIES. International Journal of Modern Physics B, 2007, 21, 3180-3182.	2.0	2
74	Studies on structural, optical, and photoelectric properties of $\text{CdS}_{1-x}\text{Se}_x$ films fabricated by selenization of chemical bath deposited CdS films. Physica Status Solidi (A) Applications and Materials Science, 2017, 214, 1600664.	1.8	2
75	EVOLUTION OF SPIN OF A QUANTUM DOT EMBEDDED IN A SUPERCONDUCTING RING. International Journal of Modern Physics B, 2007, 21, 3151-3155.	2.0	1
76	Synthesis and thermodynamic properties of superconducting $\text{NdPd}_{1-\text{Bi}_2}$ ( $\delta \approx 0.23$ ) single crystals. Journal of Alloys and Compounds, 2019, 782, 170-175.	5.5	1
77	Quantum oscillations and quasilinear magnetoresistance in the topological semimetal candidate $\text{ScSn}_3$ . Physical Review B, 2021, 104, .		
78	Microcrystalline silicon films fabricated by bias-assisted hot-wire chemical vapor deposition. Journal of Materials Science: Materials in Electronics, 2013, 24, 4574-4577.	2.2	0
79	Potassium-Ion Batteries: Encapsulating Carbon-Coated $\text{MoS}_2$ Nanosheets within a Nitrogen-Doped Graphene Network for High-Performance Potassium-Ion Storage (Adv. Mater. Interfaces) Tj E3Q1 1 0.784314		
80	Synthesis of an Antiferromagnet $\text{Ba}_7\text{Fe}_6\text{S}_{14}$ with One-dimensional Chains Constituted by $\text{FeS}_4$ Tetrahedra. Journal of Superconductivity and Novel Magnetism, 2021, 34, 1113-1118.	1.8	0
81	Coupled electronic and magnetic relaxation in $\text{Fe}_{1+y}\text{Te}$ : direct evidence for the interaction between itinerant carriers and local moments. Journal of Physics Condensed Matter, 2022, 34, 025601.	1.8	0