

Qiang Li

List of Publications by Year in descending order

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108
papers

3,177
citations

159585
30
h-index

175258
52
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108
all docs

108
docs citations

108
times ranked

2860
citing authors

#	ARTICLE	IF	CITATIONS
1	Extra storage capacity in transition metal oxide lithium-ion batteries revealed by in situ magnetometry. <i>Nature Materials</i> , 2021, 20, 76-83.	27.5	432
2	A comprehensive review on the state of charge estimation for lithium-ion battery based on neural network. <i>International Journal of Energy Research</i> , 2022, 46, 5423-5440.	4.5	157
3	Waste Plastic Triboelectric Nanogenerators Using Recycled Plastic Bags for Power Generation. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 400-410.	8.0	116
4	State-of-charge estimation and remaining useful life prediction of supercapacitors. <i>Renewable and Sustainable Energy Reviews</i> , 2021, 150, 111408.	16.4	113
5	Improved Electrochemical Performance Based on Nanostructured SnS ₂ @CoS ₂ /rGO Composite Anode for Sodium-Ion Batteries. <i>Nano-Micro Letters</i> , 2018, 10, 46.	27.0	96
6	Intrinsic Defect-Rich Hierarchically Porous Carbon Architectures Enabling Enhanced Capture and Catalytic Conversion of Polysulfides. <i>ACS Nano</i> , 2020, 14, 6222-6231.	14.6	89
7	Photo-induced non-volatile VO ₂ phase transition for neuromorphic ultraviolet sensors. <i>Nature Communications</i> , 2022, 13, 1729.	12.8	88
8	Designing two-dimensional WS ₂ layered cathode for high-performance aluminum-ion batteries: From micro-assemblies to insertion mechanism. <i>Nano Today</i> , 2020, 32, 100870.	11.9	83
9	Operando Magnetometry Probing the Charge Storage Mechanism of CoO Lithium-ion Batteries. <i>Advanced Materials</i> , 2021, 33, e2006629.	21.0	80
10	Tunable Optical Mode Ferromagnetic Resonance in FeCoB/Ru/FeCoB Synthetic Antiferromagnetic Trilayers under Uniaxial Magnetic Anisotropy. <i>Advanced Functional Materials</i> , 2016, 26, 3738-3744.	14.9	75
11	Laser Irradiation of Electrode Materials for Energy Storage and Conversion. <i>Matter</i> , 2020, 3, 95-126.	10.0	74
12	Toward On- and Off Magnetism: Reversible Electrochemistry to Control Magnetic Phase Transitions in Spinel Ferrites. <i>Advanced Functional Materials</i> , 2016, 26, 7507-7515.	14.9	69
13	Constructing Three-Dimensional Porous Carbon Framework Embedded with FeSe ₂ Nanoparticles as an Anode Material for Rechargeable Batteries. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 38862-38871.	8.0	69
14	Reacquainting the Electrochemical Conversion Mechanism of FeS ₂ Sodium-Ion Batteries by Operando Magnetometry. <i>Journal of the American Chemical Society</i> , 2021, 143, 12800-12808.	13.7	69
15	Nonaqueous Aluminum Ion Batteries: Recent Progress and Prospects. , 2020, 2, 887-904.		57
16	CoO-Co nanocomposite anode with enhanced electrochemical performance for lithium-ion batteries. <i>Electrochimica Acta</i> , 2017, 224, 90-95.	5.2	56
17	Driving ferromagnetic resonance frequency of FeCoB/PZN-PT multiferroic heterostructures to Ku-band via two-step climbing: composition gradient sputtering and magnetoelectric coupling. <i>Scientific Reports</i> , 2014, 4, 7393.	3.3	55
18	Revealing the multiple cathodic and anodic involved charge storage mechanism in an FeSe ₂ cathode for aluminium-ion batteries by <i>in situ</i> magnetometry. <i>Energy and Environmental Science</i> , 2022, 15, 311-319.	30.8	53

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19	Three-Dimensional Hierarchical Flowerlike FeP Wrapped with N-Doped Carbon Possessing Improved Li ⁺ Diffusion Kinetics and Cyclability for Lithium-Ion Batteries. ACS Applied Materials & Interfaces, 2019, 11, 39961-39969.	8.0	52
20	Construction of the POMOF@Polypyrrole Composite with Enhanced Ion Diffusion and Capacitive Contribution for High-Performance Lithium-Ion Batteries. ACS Applied Materials & Interfaces, 2021, 13, 6265-6275.	8.0	52
21	Temperature prediction of lithium-ion batteries based on electrochemical impedance spectrum: A review. International Journal of Energy Research, 2022, 46, 10372-10388.	4.5	51
22	Fast potassium storage in porous CoV ₂ O ₆ nanosphere@graphene oxide towards high-performance potassium-ion capacitors. Energy Storage Materials, 2021, 40, 250-258.	18.0	46
23	Self-Supported Amorphous SnO ₂ /TiO ₂ Nanocomposite Films with Improved Electrochemical Performance for Lithium-Ion Batteries. Journal of the Electrochemical Society, 2019, 166, A3072-A3078.	2.9	45
24	Applications of nanogenerators for biomedical engineering and healthcare systems. Informa & Materials, 2022, 4, .	17.3	45
25	SnO ₂ nanoflower arrays on an amorphous buffer layer as binder-free electrodes for flexible lithium-ion batteries. Applied Surface Science, 2020, 527, 146910.	6.1	42
26	Engineering optical mode ferromagnetic resonance in FeCoB films with ultrathin Ru insertion. Scientific Reports, 2016, 6, 33349.	3.3	39
27	Optimization of NiFe ₂ O ₄ /rGO composite electrode for lithium-ion batteries. Applied Surface Science, 2017, 416, 308-317.	6.1	36
28	Electric field manipulation of nonvolatile magnetization in Au/NiO/Pt heterostructure with resistive switching effect. Applied Physics Letters, 2014, 105, .	3.3	35
29	3D Heterogeneous Co ₃ O ₄ @Co ₃ S ₄ Nanoarrays Grown on Ni Foam as a Binder-Free Electrode for Lithium-Ion Batteries. ChemElectroChem, 2018, 5, 309-315.	3.4	35
30	Two-dimensionally porous cobalt sulfide nanosheets as a high-performance cathode for aluminum-ion batteries. Journal of Power Sources, 2019, 440, 227147.	7.8	33
31	Antimony Selenide Nanorods Decorated on Reduced Graphene Oxide with Excellent Electrochemical Properties for Li-Ion Batteries. Journal of the Electrochemical Society, 2017, 164, A2922-A2929.	2.9	30
32	Poly(vinylidene fluoride-trifluoroethylene)/cobalt ferrite composite films with a self-biased magnetoelectric effect for flexible AC magnetic sensors. Journal of Materials Science, 2021, 56, 9728-9740.	3.7	30
33	High electrochemical performance and structural stability of CoO nanosheets/CoO film as self-supported anodes for lithium-ion batteries. Ceramics International, 2021, 47, 5739-5746.	4.8	29
34	Evidence for dual anions co-insertion in a transition metal chalcogenide cathode material NiSe ₂ for high-performance rechargeable aluminum-ion batteries. Energy Storage Materials, 2022, 47, 336-344.	18.0	29
35	Investigation on the structure and dynamic magnetic properties of FeCo films with different thicknesses by vector network analyzer and electron spin resonance spectroscopy. Journal of Alloys and Compounds, 2016, 688, 917-922.	5.5	27
36	Ultra-wide detectable concentration range of GMR biosensors using Fe ₃ O ₄ microspheres. Journal of Magnetism and Magnetic Materials, 2016, 417, 25-29.	2.3	27

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37	Stress-Enhanced Interlayer Exchange Coupling and Optical-Mode FMR Frequency in Self-Bias FeCoB/Ru/FeCoB Trilayers. ACS Applied Materials & Interfaces, 2018, 10, 8853-8859.	8.0	27
38	Layered Fe ₂ (MoO ₄) ₃ assemblies with pseudocapacitive properties as advanced materials for high-performance sodium-ion capacitors. Chemical Engineering Journal, 2022, 427, 131481.	12.7	26
39	Dendrite-structured FeF ₂ consisting of closely linked nanoparticles as cathode for high-performance lithium-ion capacitors. Journal of Energy Chemistry, 2021, 55, 517-523.	12.9	25
40	Large E-field tunability of magnetic anisotropy and ferromagnetic resonance frequency of co-sputtered Fe ₅₀ Co ₅₀ -B film. Journal of Applied Physics, 2015, 117, .	2.5	24
41	A Nanocrystalline Fe ₂ O ₃ Film Anode Prepared by Pulsed Laser Deposition for Lithium-Ion Batteries. Nanoscale Research Letters, 2018, 13, 60.	5.7	23
42	Revealing interfacial space charge storage of Li ⁺ /Na ⁺ /K ⁺ by operando magnetometry. Science Bulletin, 2022, 67, 1145-1153.	9.0	23
43	Spin memristive magnetic tunnel junctions with CoO-ZnO nano composite barrier. Scientific Reports, 2014, 4, 3835.	3.3	21
44	Electrical control of memristance and magnetoresistance in oxide magnetic tunnel junctions. Nanoscale, 2015, 7, 6334-6339.	5.6	21
45	Tuning high frequency magnetic properties and damping of FeGa, FeGaN and FeGaB thin films. AIP Advances, 2017, 7, .	1.3	19
46	Unraveling the Evolution of Transition Metals during Li Alloying&ldquoDealloying by In-Operando Magnetometry. Chemistry of Materials, 2022, 34, 5852-5859.	6.7	19
47	Large rectification magnetoresistance in nonmagnetic Al/Ge/Al heterojunctions. Scientific Reports, 2015, 5, 14249.	3.3	18
48	Li-ionic control of magnetism through spin capacitance and conversion. Matter, 2021, 4, 3605-3620.	10.0	18
49	Giant spontaneous exchange bias obtained by tuning magnetic compensation in samarium ferrite single crystals. Physical Chemistry Chemical Physics, 2018, 20, 3687-3693.	2.8	17
50	Thickness-dependent on the static magnetic properties and dynamic anisotropy of FeNi films with stripe domain structures. Journal Physics D: Applied Physics, 2018, 51, 025001.	2.8	17
51	Detection of the Concentration of MnFe ₂ O ₄ Magnetic Microparticles Using Giant Magnetoresistance Sensors. IEEE Transactions on Magnetics, 2016, 52, 1-4.	2.1	16
52	Applied magnetic field angle dependence of the static and dynamic magnetic properties in FeCo films during the deposition. Journal of Magnetism and Magnetic Materials, 2016, 416, 208-212.	2.3	15
53	Investigation on the structures and magnetic properties of carbon or nitrogen doped cobalt ferrite nanoparticles. Scientific Reports, 2018, 8, 7916.	3.3	15
54	The effect of the particle size and magnetic moment of the Fe ₃ O ₄ superparamagnetic beads on the sensitivity of biodetection. AIP Advances, 2019, 9, .	1.3	15

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55	Reversible control of magnetization in Fe ₃ O ₄ nanoparticles by a supercapacitor. Journal of Physics Condensed Matter, 2020, 32, 334001.	1.8	15
56	Spindle-like Fe ₃ O ₄ nanoparticles for improving sensitivity and repeatability of giant magnetoresistance biosensors. Journal of Applied Physics, 2019, 126, .	2.5	14
57	Enhanced ferromagnetism and conductivity in epitaxial LaMnO ₃ thin films by oxygen-atmosphere annealing. Journal of Magnetism and Magnetic Materials, 2020, 499, 166317.	2.3	14
58	One-Pot Synthesis and High Electrochemical Performance of CuS/Cu _{1.8} S Nanocomposites as Anodes for Lithium-Ion Batteries. Materials, 2020, 13, 3797.	2.9	13
59	High-temperature tunneling electroresistance in metal/ferroelectric/semiconductor tunnel junctions. Applied Physics Letters, 2017, 111, .	3.3	12
60	The influence of bias magnetization of nanoparticles on GMR sensor signal and sensitivity for the ultra-low concentration detection. Journal of Magnetism and Magnetic Materials, 2018, 453, 132-136.	2.3	12
61	Synaptic memory devices from CoO/Nb:SrTiO ₃ junction. Royal Society Open Science, 2019, 6, 181098.	2.4	12
62	Enhanced tunnel magnetoresistance in fully epitaxial ZnO:Co-based magnetic tunnel junctions with Mg-doped ZnO barrier. Applied Physics Letters, 2012, 100, .	3.3	11
63	Electrical control of exchange bias via oxygen migration across CoO-ZnO nanocomposite barrier. Applied Physics Letters, 2016, 109, .	3.3	11
64	Ultralow detection limit of giant magnetoresistance biosensor using Fe_3O_4 graphene composite nanoparticle label. Chinese Physics B, 2017, 26, 010701.	1.4	11
65	Fe, N co-doped amorphous carbon as efficient electrode materials for fast and stable Na/K-storage. Electrochimica Acta, 2021, 396, 139265.	5.2	11
66	Mechanistic understanding of the charge storage processes in FeF ₂ aggregates assembled with cylindrical nanoparticles as a cathode material for lithium-ion batteries by in situ magnetometry. , 2022, 4, 1011-1020.		11
67	Room-temperature magnetoelectric coupling in Bi ₄ LaFeTi ₃ O ₁₅ multiferroic films. Journal of Alloys and Compounds, 2018, 747, 1002-1007.	5.5	10
68	Ultrahigh Frequency and Anti-Interference Optical-Mode Resonance with Biquadratic Coupled FeCoB/Ru/FeCoB Trilayers. ACS Applied Materials & Interfaces, 2019, 11, 48230-48238.	8.0	10
69	Tunnel magnetoresistance in epitaxial (100)-oriented FeCo/LiF/FeCo magnetic tunnel junctions. Applied Physics Letters, 2016, 109, .	3.3	9
70	Interfacial Engineering of Self-Supported SnO ₂ Nanorod Arrays as Anode for Flexible Lithium-Ion Batteries. Journal of the Electrochemical Society, 2020, 167, 120515.	2.9	9
71	Influence of the phases structure on the acoustic and optical modes ferromagnetic resonance of FeNi stripe domain films. Journal of Magnetism and Magnetic Materials, 2019, 475, 103-107.	2.3	8
72	Evaluation of Metglas/polyvinylidene fluoride magnetoelectric bilayer composites for flexible in-plane resonant magnetic sensors. Journal Physics D: Applied Physics, 2021, 54, 095003.	2.8	8

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73	Transition metal catalysis in lithium-ion batteries studied by operando magnetometry. Chinese Journal of Catalysis, 2022, 43, 158-166.	14.0	8
74	Multiferroic properties of aurivillius structure Bi ₄ SmFeTi ₃ O ₁₅ thin films. Journal of Materials Science: Materials in Electronics, 2019, 30, 9945-9954.	2.2	7
75	Influence of surface pinning in the domain on the magnetization dynamics in permalloy striped domain films. Journal of Alloys and Compounds, 2021, 869, 159327.	5.5	7
76	High Cycle Stability of Hybridized Co(OH) ₂ Nanomaterial Structures Synthesized by the Water Bath Method as Anodes for Lithium-Ion Batteries. Micromachines, 2022, 13, 149.	2.9	7
77	Effect of hydrogenation on transport and magnetic properties in homogeneous amorphous Mn _x Ge _{1-x} H films. Journal of Applied Physics, 2011, 109, 083906.	2.5	6
78	Substantially enhancing ferromagnetic resonance frequency via superposition of composition gradient sputtering and magnetoelectric coupling in FeCoAlO/PZN/PT heterostructures. Journal of Alloys and Compounds, 2015, 642, 136-139.	5.5	6
79	Evolutions of acoustic and optical mode resonances in the spin reorientation Permalloy film. Journal of Applied Physics, 2019, 126, .	2.5	6
80	Enhanced high-frequency electromagnetic properties of FeCoB/SiO ₂ /SiO ₂ multilayered granular films. Physica B: Condensed Matter, 2012, 407, 1108-1113.	2.7	5
81	Estimating the In-Plane Magnetic Anisotropy and Saturation Magnetization of Magnetic Films. IEEE Transactions on Magnetics, 2017, 53, 1-6.	2.1	5
82	Magnetization precession by short-wavelength magnon excitations and spin-transfer torque. Physical Review B, 2018, 97, .	3.2	5
83	Inverse tunnel magnetoresistance in epitaxial FeCo/MgO/Fe tunnel junctions patterned by in situ shadow-masks. Journal of Alloys and Compounds, 2016, 662, 79-83.	5.5	4
84	Stress-controllable microwave ferromagnetic performances of amorphous Fe ₅₆ Co ₂₄ B ₂₀ films prepared by pulsed laser deposition. Thin Solid Films, 2017, 636, 15-19.	1.8	4
85	The abnormal damping behavior due to the combination between spin pumping and spin back flow in Ni ₈₀ Fe ₂₀ /Ru bilayers. Journal of Magnetism and Magnetic Materials, 2020, 502, 166495.	2.3	4
86	Orientation control of optical mode ferromagnetic resonance: From uniaxial to omni-directional. Applied Physics Letters, 2021, 118, .	3.3	3
87	Interfacial Control via Reversible Ionic Motion in Battery-Like Magnetic Tunnel Junctions. Advanced Electronic Materials, 2021, 7, 2100512.	5.1	3
88	One-Pot Synthesized Amorphous Cobalt Sulfide With Enhanced Electrochemical Performance as Anodes for Lithium-Ion Batteries. Frontiers in Chemistry, 2021, 9, 818255.	3.6	3
89	Electrical control of ON/OFF magnetism and exchange bias via reversible ionic motion. Applied Physics Letters, 2022, 120, 082405.	3.3	3
90	X-Ray Absorption Spectra and Self-Bias Ferromagnetic Resonance of FeCoB Films Prepared by Composition Gradient Sputtering. IEEE Transactions on Magnetics, 2015, 51, 1-4.	2.1	2

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91	Electric Field Tuning Ferromagnetic Resonance Frequency Shift in Oblique Sputtered Fe ₄₂ Co ₄₆ Hf ₁₂ /PZN-PT Multiferroic Heterostructures. IEEE Transactions on Magnetics, 2017, 53, 1-4.	2.1	2
92	Perpendicular magnetization anisotropy induced dynamical coherence reduction in stripe domain film. Journal of Physics Condensed Matter, 2022, 34, 155802.	1.8	2
93	Hydrothermal Preparation and High Electrochemical Performance of NiS Nanospheres as Anode for Lithium-Ion Batteries. Frontiers in Chemistry, 2021, 9, 812274.	3.6	2
94	Annealing enhanced ferromagnetic resonance of thickness-dependent FeGa films. Applied Physics Letters, 2022, 120, 202402.	3.3	2
95	Electric and Magnetic Field Tunable Rectification and Magnetoresistance in Fe _x /Ge _{1-x} /Ge Heterojunction Diodes. Chinese Physics Letters, 2011, 28, 107501.	3.3	1
96	Multi-polar resistance switching and memory effect in copper phthalocyanine junctions. Chinese Physics B, 2014, 23, 058501.	1.4	1
97	Spin-transfer torque oscillator in magnetic tunneling junction with short-wavelength magnon excitation. AIP Advances, 2018, 8, .	1.3	1
98	Co ₃ S ₄ Nanosheets on Carbon Cloth as Free-Standing Anode with Improved Pseudocapacitive Storage for High-Performance Li-Ion Batteries. Nano, 2021, 16, 2150007.	1.0	1
99	Coherent GHz lattice and magnetization excitations in thin epitaxial Ag/Fe/Cr/Fe films. Physical Review B, 2021, 104, .	3.2	1
100	Electrochemical Role of Transition Metals in Sn-Fe Alloy Revealed by Operando Magnetometry. Chinese Physics Letters, 2022, 39, 028202.	3.3	1
101	Hollow CoS/C Structures for High-Performance Li, Na, K Ion Batteries. Frontiers in Chemistry, 2022, 10, 845742.	3.6	1
102	Epitaxial growth of NaCl on Fe (100) and characterization of Fe/NaCl/Fe magnetic tunnel junctions. , 2014, , .		0
103	Self-bias ferromagnetic resonance and quasi magnetic isotropy of [FeCoB/MgO] ₆ multilayers prepared by composition gradient sputtering. , 2015, , .		0
104	Self-Bias Ferromagnetic Resonance and Quasi-Magnetic Isotropy of (FeCoB/MgO) ₆ Multilayers Prepared by Composition Gradient Sputtering. IEEE Transactions on Magnetics, 2015, 51, 1-3.	2.1	0
105	The Model for Linear Magnetoresistance of Two-Dimensional Metal-Semiconductor Composites with Interfacial Shells. Chinese Physics Letters, 2015, 32, 097501.	3.3	0
106	Large inverse magnetoresistance induced by annealing effect in fully epitaxial FeCo/MgO/ Fe magnetic tunnel junctions. , 2015, , .		0
107	Oxygen vacancies control of the electrical optical and magnetic properties of Fe _{0.05} Ti _{0.95} O ₂ epitaxial films. Chinese Physics B, 0, , .	1.4	0
108	Multiple order spin-wave resonance in composition gradient sputtering FeCoB thin films. AIP Advances, 2021, 11, 075207.	1.3	0