Hong-Ji Lin

List of Publications by Year
in descending order

96 papers	3,811 citations	136950 32 h-index	133252 59 g-index
96 all docs	96 docs citations	96 times ranked	4429 citing authors

#	Article	IF	Citations
1	Investigation of Co2FeSi: The Heusler compound with highest Curie temperature and magnetic moment. Applied Physics Letters, 2006, 88, 032503.	3.3	381
2	An Amorphous Nickelâ€"Ironâ€Based Electrocatalyst with Unusual Local Structures for Ultrafast Oxygen Evolution Reaction. Advanced Materials, 2019, 31, e1900883.	21.0	243
3	Boosting Oxygen Evolution Reaction by Creating Both Metal Ion and Latticeâ€Oxygen Active Sites in a Complex Oxide. Advanced Materials, 2020, 32, e1905025.	21.0	190
4	<i>Operando</i> X-ray spectroscopic tracking of self-reconstruction for anchored nanoparticles as high-performance electrocatalysts towards oxygen evolution. Energy and Environmental Science, 2018, 11, 2945-2953.	30.8	157
5	Origin of metallic behavior in NiCo2O4 ferrimagnet. Scientific Reports, 2015, 5, 15201.	3.3	137
6	Single-phase perovskite oxide with super-exchange induced atomic-scale synergistic active centers enables ultrafast hydrogen evolution. Nature Communications, 2020, 11, 5657.	12.8	134
7	Electronic structure and spectroscopy of the quaternary Heusler alloy Co2Cr1â^'xFexAl. Journal Physics D: Applied Physics, 2006, 39, 803-815.	2.8	130
8	Utilizing ion leaching effects for achieving high oxygen-evolving performance on hybrid nanocomposite with self-optimized behaviors. Nature Communications, 2020, 11, 3376.	12.8	122
9	Voltage- and time-dependent valence state transition in cobalt oxide catalysts during the oxygen evolution reaction. Nature Communications, 2020, 11, 1984.	12.8	120
10	A Complete High-to-Low spin state Transition of Trivalent Cobalt Ion in Octahedral Symmetry in SrCo_{0.5}Ru_{0.5}O_{3-Î´}. Journal of the American Chemical Society, 2014, 136, 1514-1519.	13.7	117
11	A Universal Strategy to Design Superior Waterâ€Splitting Electrocatalysts Based on Fast In Situ Reconstruction of Amorphous Nanofilm Precursors. Advanced Materials, 2018, 30, e1804333.	21.0	108
12	Design of magnetic materials: the electronic structure of the ordered, doped Heusler compound Co2Cr1â^'xFexAl. Journal of Physics Condensed Matter, 2005, 17, 7237-7252.	1.8	95
13	Searching General Sufficientâ€andâ€Necessary Conditions for Ultrafast Hydrogenâ€Evolving Electrocatalysis. Advanced Functional Materials, 2019, 29, 1900704.	14.9	94
14	Concentration Dependence of Oxygen Vacancy on the Magnetism of CeO₂ Nanoparticles. Journal of Physical Chemistry C, 2012, 116, 8707-8713.	3.1	82
15	Ultrahigh-performance tungsten-doped perovskites for the oxygen evolution reaction. Journal of Materials Chemistry A, 2018, 6, 9854-9859.	10.3	82
16	New Undisputed Evidence and Strategy for Enhanced Latticeâ€Oxygen Participation of Perovskite Electrocatalyst through Cation Deficiency Manipulation. Advanced Science, 2022, 9, e2200530.	11.2	75
17	Oxygen-Deficient Perovskite Sr_{0.7}Y_{0.3}CoO_{2.65â^'Î´} as a Cathode for Intermediate-Temperature Solid Oxide Fuel Cells. Chemistry of Materials, 2011, 23, 5037-5044.	6.7	64
18	Boosting the oxygen evolution reaction activity of a perovskite through introducing multi-element synergy and building an ordered structure. Journal of Materials Chemistry A, 2019, 7, 9924-9932.	10.3	62

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19	Selfâ€Assembled Ruddlesdenâ€“Popper/Perovskite Hybrid with Latticeâ€Oxygen Activation as a Superior Oxygen Evolution Electrocatalyst. Small, 2020, 16, e2001204.	10.0	61
20	Boosting oxygen evolution reaction by activation of latticeâ€oxygen sites in layered Ruddlesdenâ€Popper oxide. EcoMat, 2020, 2, e12021.	11.9	58
21	Observation of the origin of d⁰magnetism in ZnO nanostructures using X-ray-based microscopic and spectroscopic techniques. Nanoscale, 2014, 6, 9166.	5.6	57
22	Defect Structure Guided Room Temperature Ferromagnetism of Y-Doped CeO₂ Nanoparticles. Journal of Physical Chemistry C, 2014, 118, 26359-26367.	3.1	57
23	5f Covalency Synergistically Boosting Oxygen Evolution of UCoO₄ Catalyst. Journal of the American Chemical Society, 2022, 144, 416-423.	13.7	48
24	Eliminating Transition Metal Migration and Anionic Redox to Understand Voltage Hysteresis of Lithiumâ€Rich Layered Oxides. Advanced Energy Materials, 2020, 10, 1903634.	19.5	45
25	Strong magnetic enhancement in self-assembled multiferroic-ferrimagnetic nanostructures. Nanoscale, 2013, 5, 4449.	5.6	44
26	High-Temperature Ferrimagnetic Half Metallicity with Wide Spin-up Energy Gap in NaCu₃Fe₂Os₂O₁₂. Inorganic Chemistry, 2019, 58, 320-326.	4.0	43
27	A Ferrotoroidic Candidate with Wellâ€Separated Spin Chains. Advanced Materials, 2022, 34, e2106728.	21.0	43
28	How Antiferromagnetism Drives the Magnetization of a Ferromagnetic Thin Film to Align Out of Plane. Physical Review Letters, 2013, 110, 117203.	7.8	41
29	Exceptional lattice-oxygen participation on artificially controllable electrochemistry-induced crystalline-amorphous phase to boost oxygen-evolving performance. Applied Catalysis B: Environmental, 2021, 297, 120484.	20.2	41
30	Superiority of native vacancies in activating anionic redox in P2-type Na2/3[Mn7/9Mg1/9â–¡1/9]O2. Nano Energy, 2020, 78, 105172.	16.0	40
31	Modified Surface Electronic and Magnetic Properties of La_{0.6}Sr_{0.4}MnO₃ Thin Films for Spintronics Applications. Journal of Physical Chemistry C, 2011, 115, 16947-16953.	3.1	36
32	Enhanced Magnetic Anisotropy via Quasi-Molecular Magnet at Organic-Ferromagnetic Contact. Journal of Physical Chemistry Letters, 2013, 4, 310-316.	4.6	36
33	Deciphering the Interface of a Highâ€Voltage (5 Vâ€Class) Liâ€Ion Battery Containing Additiveâ€Assisted Sulfolaneâ€Based Electrolyte. Small Methods, 2019, 3, 1900546.	8.6	33
34	Smart Control of Composition for Double Perovskite Electrocatalysts toward Enhanced Oxygen Evolution Reaction. ChemSusChem, 2019, 12, 5111-5116.	6.8	33
35	Boosting the oxygen evolution catalytic performance of perovskites <i>via</i> optimizing calcination temperature. Journal of Materials Chemistry A, 2020, 8, 6480-6486.	10.3	32
36	Bulk and Surface Properties Regulation of Single/Double Perovskites to Realize Enhanced Oxygen Evolution Reactivity. ChemSusChem, 2020, 13, 3045-3052.	6.8	32

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37	Tailored Brownmillerite Oxide Catalyst with Multiple Electronic Functionalities Enables Ultrafast Water Oxidation. Chemistry of Materials, 2021, 33, 5233-5241.	6.7	32
38	Synergistic effects in ordered Co oxides for boosting catalytic activity in advanced oxidation processes. Applied Catalysis B: Environmental, 2021, 297, 120463.	20.2	30
39	In Situ/Operando Capturing Unusual Ir⁶⁺ Facilitating Ultrafast Electrocatalytic Water Oxidation. Advanced Functional Materials, 2021, 31, 2104746.	14.9	29
40	Magnetic Mesocrystal-Assisted Magnetoresistance in Manganite. Nano Letters, 2014, 14, 6073-6079.	9.1	26
41	Ternary Phase Diagram-Facilitated Rapid Screening of Double Perovskites As Electrocatalysts for the Oxygen Evolution Reaction. Chemistry of Materials, 2019, 31, 5919-5926.	6.7	26
42	Relation between the Co-O bond lengths and the spin state of Co in layered Cobaltates: a high-pressure study. Scientific Reports, 2017, 7, 3656.	3.3	25
43	Boosting oxygen reduction activity and enhancing stability through structural transformation of layered lithium manganese oxide. Nature Communications, 2021, 12, 3136.	12.8	25
44	Enhancement of Ferromagnetism in CeO₂ Nanoparticles by Nonmagnetic Cr³⁺ Doping. Journal of Physical Chemistry C, 2012, 116, 26570-26576.	3.1	24
45	<i>In Situ</i> Exploring of the Origin of the Enhanced Oxygen Evolution Reaction Efficiency of Metal(Co/Fe)â€"Organic Framework Catalysts Via Postprocessing. ACS Catalysis, 2022, 12, 3138-3148.	11.2	24
46	Stacking Faults Hinder Lithium Insertion in Li₂RuO₃. Advanced Energy Materials, 2020, 10, 2002631.	19.5	22
47	Effect of vacancy-tailored Mn3+ spinning on enhancing structural stability. Energy Storage Materials, 2022, 44, 231-238.	18.0	22
48	The Synthesis of a Quasi-One-Dimensional Iron-Based Telluride with Antiferromagnetic Chains and a Spin Glass State. Inorganic Chemistry, 2020, 59, 5377-5385.	4.0	18
49	Tuning the functionalities of a mesocrystal via structural coupling. Scientific Reports, 2015, 5, 12073.	3.3	17
50	High-pressure synthesis and spin glass behavior of a Mn/Ir disordered quadruple perovskite CaCu₃Mn₂Ir₂O₁₂. Journal of Physics Condensed Matter, 2020, 32, 075701.	1.8	15
51	Effectiveness of organic molecules for spin filtering in an organic spin valve: Reaction-induced spin polarization for Co atop<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi mathvariant="normal">Alq</mml:mi><mml:msub><mml:mrow /><mml:mn>3</mml:mn></mml:msub></mml:math>. Physical Review B, 2015, 91, .	3.2	14
52	Near-Room-Temperature Ferrimagnetic Ordering in a B-Site-Disordered 3dâ€"5d-Hybridized Quadruple Perovskite Oxide, CaCu₃Mn₂Os₂O₁₂. Inorganic Chemistry, 2019, 58, 15529-15535.	4.0	14
53	Quadruple perovskite oxide LaCu3Co2Re2O12: A ferrimagnetic half metal with nearly 100% B-site degree of order. Applied Physics Letters, 2020, 117, .	3.3	14
54	High pressure phase of Ba2FeS3: An antiferromagnet with one-dimensional spin chains. Journal of Alloys and Compounds, 2021, 859, 157839.	5.5	14

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55	Enhanced Magnetocaloric Effect Driven by Interfacial Magnetic Coupling in Self-Assembled Mn₃O₄â€“La_{0.7}Sr_{0.3}MnO₃ Nanocomposites. ACS Applied Materials & Interfaces, 2015, 7, 26504-26511.	8.0	13
56	Magnetic properties of electroless-deposited Ni and Niâ€“NiO coreâ€“shell nano-arrays. Journal of Magnetism and Magnetic Materials, 2011, 323, 1950-1953.	2.3	12
57	Observation of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>A</mml:mi></mml:mrow></mml:math> -site antiferromagnetic and <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>B</mml:mi></mml:mrow></mml:math> -site ferrimagnetic orderings in the quadruple perovskite oxide <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>Ca</mml:mi><mml:msub><mml:mi>Cu</mml:mi><mml:m	3.2	12
58	Unexpected increasing Co valence state of an exsolved catalyst by Mo doping for enhanced oxygen evolution reaction. Chemical Engineering Journal, 2021, 425, 130681.	12.7	11
59	<i>A</i>â€™â€“<i>B</i> Intersite Cooperation-Enhanced Water Splitting in Quadruple Perovskite Oxide CaCu₃Ir₄O₁₂. Chemistry of Materials, 2021, 33, 9295-9305.	6.7	11
60	Understanding and Tuning Electronic Structure in Modified Ceria Nanocrystals by Defect Engineering. Langmuir, 2014, 30, 10430-10439.	3.5	10
61	Dynamical Strain-Driven Phase Separation in Flexible CoFe₂O₄/CoO Exchange Coupling System. ACS Applied Materials & Interfaces, 2020, 12, 46874-46882.	8.0	10
62	Electrically enhanced magnetization in highly strained BiFeO3 films. NPG Asia Materials, 2016, 8, e269-e269.	7.9	9
63	Spin filtering of a termination-controlled LSMO/Alq₃ heterojunction for an organic spin valve. Journal of Materials Chemistry C, 2017, 5, 9128-9137.	5.5	9
64	Fast cation exchange of layered sodium transition metal oxides for boosting oxygen evolution activity and enhancing durability. Journal of Materials Chemistry A, 2020, 8, 8075-8083.	10.3	9
65	(001) FePt graded media with PtMn underlayers. Applied Physics Letters, 2011, 99, 212504.	3.3	8
66	Interfacial symmetry of Coâ€“Alq3â€“Co hybrid structures for effective spin filtering. Applied Surface Science, 2015, 354, 90-94.	6.1	8
67	High-pressure synthesis of A-site ordered perovskite CaMn3(Fe3Mn)O12 and sequential long-range antiferromagnetic ordering and spin glass transition. Journal of Solid State Chemistry, 2019, 278, 120921.	2.9	8
68	Fe₂Co₂Nb₂O₉: a magnetoelectric honeycomb antiferromagnet. Journal of Materials Chemistry C, 2021, 9, 14236-14246.	5.5	8
69	Charge and spin degrees of freedom in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>A</mml:mi></mml:math> -site ordered <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi mathvariant="normal">Y</mml:mi><mml:msub><mml:mi>Cu</mml:mi><mml:mn>3</mml:mn></mml:msub><mml:msub><mml:mi>Co mathvariant="normal">O</mml:mi><mml:mn>12</mml:mn></mml:msub></mml:mrow></mml:math> and <mml:math xmlns:mml="http://www.w3.org/19. Physical Review B, 2021, 103, .	3.2	8
70	Effects of laminated soft layer on magnetization reversal of exchange coupled composite media. Journal of Applied Physics, 2009, 105, 07B729.	2.5	7
71	Phase evolution of magnetite nanocrystals on oxide supports via template-free bismuth ferrite precursor approach. Journal of Applied Physics, 2012, 112, .	2.5	7
72	Probing magnetoelastic effects of ultrathin antiferromagnets via magnetic domain imaging in ferromagnetic-antiferromagnetic bilayers. Physical Review B, 2014, 90, .	3.2	7

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73	High-pressure synthesis, crystal structure and physical properties of a new Cr-based arsenide La3CrAs5. Science China Materials, 2020, 63, 1750-1758.	6.3	7
74	Polarized XANES study of the importance of inter-block vis-$agrave$-vis intra-block coupling in evolution of Tc in halide-molecule-intercalated Bi2Sr2CaCu2O8$minus$$delta$ single crystals. Journal of Physics Condensed Matter, 2002, 14, 6675-6688.	1.8	6
75	Optimization of exchange coupled composite media by tuning the anisotropy in a laminated soft layer. Journal of Applied Physics, 2011, 109, 07C104.	2.5	6
76	Direct observation of the partial valence transition of Cu in the A-site ordered LaCu3Fe4O12-Î´ by soft X-ray absorption spectroscopy. Physica B: Condensed Matter, 2019, 568, 92-95.	2.7	6
77	Direct probing magnetization reversal of exchange-coupled-composite media by x-ray magnetic circular dichroism. Applied Physics Letters, 2011, 98, 262507.	3.3	5
78	Selfâ€Assembled Epitaxial Coreâ€“Shell Nanocrystals with Tunable Magnetic Anisotropy. Small, 2015, 11, 4117-4122.	10.0	5
79	High-pressure synthesis, crystal structure, and properties of iron-based spin-chain compound Ba9Fe3Se15. Physical Review Materials, 2021, 5, .	2.4	5
80	Coupled microstructural and magnetic transition in Co-doped Ni nano-arrays. Journal of Applied Physics, 2011, 110, .	2.5	4
81	Atomic origin of the spin-polarization of the Co₂FeAl Heusler compound. Journal Physics D: Applied Physics, 2016, 49, 075005.	2.8	4
82	Synthesis and Characterization of BaLiRu₅O₁₁, BaCu₁₊<i>_x</i>Ru_{5â€“}<i>_x</i>O₁₁, and BaLi_{1â€“}<i>_x</i>Cu<i>_x</i>₊<i>_{Î´}</i>Ru_{5â€“}<i><sub>Î´</ Crystal Structures and Valence States. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2018, 644, 1691-1696.	1.2	4
83	High-Pressure Synthesis of a B-site Co²⁺/Mn⁴⁺ Disordered Quadruple Perovskite LaMn₃Co₂Mn₂O₁₂. Inorganic Chemistry, 2020, 59, 12445-12452.	4.0	4
84	Spin State and Spinâ€State Transition of Co 3+ Ion in BiCoO 3. Physica Status Solidi (B): Basic Research, 2021, 258, 2100117.	1.5	4
85	Enhanced Electrocatalysts Fabricated via Quenched Ultrafast Sintering: Physicochemical Properties and Water Oxidation Applications. Advanced Materials Interfaces, 2022, 9, .	3.7	4
86	Os Doping Suppressed Cuâ€“Fe Charge Transfer and Induced Structural and Magnetic Phase Transitions in LaCu₃Fe_{4â€“<i>x</i>}Os<i>_x</i>O₁₂ (<i>x</i> = 1 and) Tj ETQq0 0 0 rgBT /Overl	4.0	3
87	Atomic origin of room-temperature two-dimensional itinerant ferromagnetism in an oxide-monolayer heterostructure. Applied Materials Today, 2021, 24, 101101.	4.3	3
88	XANES study of oxycarbonates Hg1â^'xMxSr4Cu2(CO3)O6+Î´ (M=Mo, Cr). Radiation Physics and Chemistry, 2006, 75, 1630-1634.	2.8	2
89	Antiferromagnetic Interfacial Coupling and Giant Magnetic Hysteresis in La0.5Ca0.5MnO3â€“SrRuO3 Superlattices. ACS Omega, 2018, 3, 14266-14273.	3.5	2
90	Defect induced ferromagnetic ordering in epitaxial Zn_{0.95}Mn_{0.05}O films on sapphire (0â€‰0â€‰0â€‰1). Journal of Physics Condensed Matter, 2019, 31, 485708.	1.8	2

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91	Element-specific study of the coupled magneto-structural and magneto-electronic properties of CoNi nanoarrays. Journal of Nanoparticle Research, 2013, 15, 1.	1.9	1
92	Crystal Growth and Physical Properties of Sr4Co3O7.5+xCl2 Single Crystals (x âˆ¼ 0.14). Crystals, 2019, 9, 623.	2.2	1
93	Enhancement of Aâ€²-site Mn3+ spin ordering by B-site Mn4+ substitution in quadruple perovskite PbMn3Cr3MnO12. Applied Physics Letters, 2021, 118, 262403.	3.3	1
94	Enhanced Magnetic Order and Reversed Magnetization Induced by Strong Antiferromagnetic Coupling at Hybrid Ferromagneticâ€"Organic Heterojunctions. ACS Applied Materials & Interfaces, 2022, , .	8.0	1
95	Modulating the Magnetic Coupling in Paramagnetic Co Nanoparticles Embedded in Tris(8-hydroxyquinoline)aluminum for Spintronics Applications. ACS Applied Nano Materials, 2021, 4, 5240-5249.	5.0	0
96	Photonicâ€crafting of nonâ€volatile and rewritable antiferromagnetic spin textures with drastic difference in electrical conductivity. Advanced Materials, 2022, , 2200610.	21.0	0