

# Hong-Ji Lin

## List of Publications by Year in descending order

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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  | Effect of vacancy-tailored Mn <sup>3+</sup> spinning on enhancing structural stability. Energy Storage Materials, 2022, 44, 231-238.  | 18.0 | 22        |
| 2  | A Ferrotoroidic Candidate with Well-Separated Spin Chains. Advanced Materials, 2022, 34, e2106728.  | 21.0 | 43        |
| 3  | <i>In Situ</i> Exploring of the Origin of the Enhanced Oxygen Evolution Reaction Efficiency of Metal(Co/Fe)-Organic Framework Catalysts Via Postprocessing. ACS Catalysis, 2022, 12, 3138-3148.   | 11.2 | 24        |
| 4  | Enhanced Electrocatalysts Fabricated via Quenched Ultrafast Sintering: Physicochemical Properties and Water Oxidation Applications. Advanced Materials Interfaces, 2022, 9, .   | 3.7  | 4         |
| 5  | New Undisputed Evidence and Strategy for Enhanced Lattice-Oxygen Participation of Perovskite Electrocatalyst through Cation Deficiency Manipulation. Advanced Science, 2022, 9, e2200530.   | 11.2 | 75        |
| 6  | Enhanced Magnetic Order and Reversed Magnetization Induced by Strong Antiferromagnetic Coupling at Hybrid Ferromagnetic-Organic Heterojunctions. ACS Applied Materials & Interfaces, 2022, .  | 8.0  | 1         |
| 7  | Photonic-Crafting of non-volatile and rewritable antiferromagnetic spin textures with drastic difference in electrical conductivity. Advanced Materials, 2022, , 2200610.   | 21.0 | 0         |
| 8  | 5f Covalency Synergistically Boosting Oxygen Evolution of UCoO <sub>4</sub> Catalyst. Journal of the American Chemical Society, 2022, 144, 416-423.   | 13.7 | 48        |
| 9  | High pressure phase of Ba <sub>2</sub> FeS <sub>3</sub> : An antiferromagnet with one-dimensional spin chains. Journal of Alloys and Compounds, 2021, 859, 157839.  | 5.5  | 14        |
| 10 | Observation of $A$ -site antiferromagnetic and $B$ -site ferrimagnetic orderings in the quadruple perovskite oxide $Ca_{2}Fe_{2}Co_{2}Nb_{2}O_{9}$ : a magnetoelectric honeycomb antiferromagnet. Journal of Materials Chemistry C, 2021, 9, 14236-14246. | 3.2  | 12        |
| 11 | Charge and spin degrees of freedom in $A$ -site ordered $YCu_{3}Mn_{3}O_{12}$ and $Os$ Doping Suppressed Cu-Fe Charge Transfer and Induced Structural and Magnetic Phase Transitions in $LaCu_{3}Fe_{4}O_{12}$ ( $x = 1$ ) and $TjErO_{12}$ ( $x = 1$ )   | 5.5  | 8         |
| 12 | 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.  | 3.2  | 8         |
| 13 | High-pressure synthesis, crystal structure, and properties of iron-based spin-chain compound Ba <sub>9</sub> Fe <sub>3</sub> Se <sub>15</sub> . Physical Review Materials, 2021, 5, .   | 10.1 | 110       |
| 14 | Boosting oxygen reduction activity and enhancing stability through structural transformation of layered lithium manganese oxide. Nature Communications, 2021, 12, 3136.   | 12.8 | 25        |
| 15 | Tailored Brownmillerite Oxide Catalyst with Multiple Electronic Functionalities Enables Ultrafast Water Oxidation. Chemistry of Materials, 2021, 33, 5233-5241.   | 6.7  | 32        |
| 16 | Enhancement of A-site Mn <sup>3+</sup> spin ordering by B-site Mn <sup>4+</sup> substitution in quadruple perovskite PbMn <sub>3</sub> Cr <sub>3</sub> MnO <sub>12</sub> . Applied Physics Letters, 2021, 118, 262403.                                    | 3.3  | 1         |

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|----|---|------|-----------|
| 19 | Spin State and Spin- $\leftrightarrow$ State Transition of Co <sup>3+</sup> Ion in BiCoO <sub>3</sub> . <i>Physica Status Solidi (B): Basic Research</i> , 2021, 258, 2100117.  | 1.5  | 4         |
| 20 | In Situ/Operando Capturing Unusual Ir <sup>6+</sup> Facilitating Ultrafast Electrocatalytic Water Oxidation. <i>Advanced Functional Materials</i> , 2021, 31, 2104746.  | 14.9 | 29        |
| 21 | Atomic origin of room-temperature two-dimensional itinerant ferromagnetism in an oxide-monolayer heterostructure. <i>Applied Materials Today</i> , 2021, 24, 101101.  | 4.3  | 3         |
| 22 | Synergistic effects in ordered Co oxides for boosting catalytic activity in advanced oxidation processes. <i>Applied Catalysis B: Environmental</i> , 2021, 297, 120463.  | 20.2 | 30        |
| 23 | Exceptional lattice-oxygen participation on artificially controllable electrochemistry-induced crystalline-amorphous phase to boost oxygen-evolving performance. <i>Applied Catalysis B: Environmental</i> , 2021, 297, 120484. | 20.2 | 41        |
| 24 | Unexpected increasing Co valence state of an exsolved catalyst by Mo doping for enhanced oxygen evolution reaction. <i>Chemical Engineering Journal</i> , 2021, 425, 130681.  | 12.7 | 11        |
| 25 | Intersite Cooperation-Enhanced Water Splitting in Quadruple Perovskite Oxide CaCu <sub>3</sub> Ir <sub>4</sub> O <sub>12</sub> . <i>Chemistry of Materials</i> , 2021, 33, 9295-9305.   | 6.7  | 11        |
| 26 | Boosting Oxygen Evolution Reaction by Creating Both Metal Ion and Lattice-Oxygen Active Sites in a Complex Oxide. <i>Advanced Materials</i> , 2020, 32, e1905025.   | 21.0 | 190       |
| 27 | Quadruple perovskite oxide LaCu <sub>3</sub> Co <sub>2</sub> Re <sub>2</sub> O <sub>12</sub> : A ferrimagnetic half metal with nearly 100% B-site degree of order. <i>Applied Physics Letters</i> , 2020, 117, .                | 3.3  | 14        |
| 28 | Stacking Faults Hinder Lithium Insertion in Li <sub>2</sub> RuO <sub>3</sub> . <i>Advanced Energy Materials</i> , 2020, 10, 2002631.  | 19.5 | 22        |
| 29 | Superiority of native vacancies in activating anionic redox in P2-type Na <sub>2/3</sub> [Mn <sub>7/9</sub> Mg <sub>1/9</sub> ]-O <sub>2</sub> . <i>Nano Energy</i> , 2020, 78, 105172.   | 16.0 | 40        |
| 30 | High-Pressure Synthesis of a B-site Co <sup>2+</sup> /Mn <sup>4+</sup> Disordered Quadruple Perovskite LaMn <sub>3</sub> Co <sub>2</sub> Mn <sub>2</sub> O <sub>12</sub> . <i>Inorganic Chemistry</i> , 2020, 59, 12445-12452.  | 4.0  | 4         |
| 31 | Dynamical Strain-Driven Phase Separation in Flexible CoFe <sub>2</sub> O <sub>4</sub> /CoO Exchange Coupling System. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 46874-46882.                                     | 8.0  | 10        |
| 32 | Single-phase perovskite oxide with super-exchange induced atomic-scale synergistic active centers enables ultrafast hydrogen evolution. <i>Nature Communications</i> , 2020, 11, 5657.  | 12.8 | 134       |
| 33 | High-pressure synthesis and spin glass behavior of a Mn/Ir disordered quadruple perovskite CaCu <sub>3</sub> Mn <sub>2</sub> Ir <sub>2</sub> O <sub>12</sub> . <i>Journal of Physics Condensed Matter</i> , 2020, 32, 075701.   | 1.8  | 15        |
| 34 | The Synthesis of a Quasi-One-Dimensional Iron-Based Telluride with Antiferromagnetic Chains and a Spin Glass State. <i>Inorganic Chemistry</i> , 2020, 59, 5377-5385.   | 4.0  | 18        |
| 35 | Boosting oxygen evolution reaction by activation of lattice-oxygen sites in layered Ruddlesden-Popper oxide. <i>EcoMat</i> , 2020, 2, e12021.   | 11.9 | 58        |
| 36 | High-pressure synthesis, crystal structure and physical properties of a new Cr-based arsenide La <sub>3</sub> CrAs <sub>5</sub> . <i>Science China Materials</i> , 2020, 63, 1750-1758.   | 6.3  | 7         |

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|----|---|------|-----------|
| 37 | Utilizing ion leaching effects for achieving high oxygen-evolving performance on hybrid nanocomposite with self-optimized behaviors. <i>Nature Communications</i> , 2020, 11, 3376.   | 12.8 | 122       |
| 38 | Boosting the oxygen evolution catalytic performance of perovskites <i>via</i> optimizing calcination temperature. <i>Journal of Materials Chemistry A</i> , 2020, 8, 6480-6486.   | 10.3 | 32        |
| 39 | Eliminating Transition Metal Migration and Anionic Redox to Understand Voltage Hysteresis of Lithium-Rich Layered Oxides. <i>Advanced Energy Materials</i> , 2020, 10, 1903634.   | 19.5 | 45        |
| 40 | Bulk and Surface Properties Regulation of Single/Double Perovskites to Realize Enhanced Oxygen Evolution Reactivity. <i>ChemSusChem</i> , 2020, 13, 3045-3052.  | 6.8  | 32        |
| 41 | Fast cation exchange of layered sodium transition metal oxides for boosting oxygen evolution activity and enhancing durability. <i>Journal of Materials Chemistry A</i> , 2020, 8, 8075-8083.   | 10.3 | 9         |
| 42 | Voltage- and time-dependent valence state transition in cobalt oxide catalysts during the oxygen evolution reaction. <i>Nature Communications</i> , 2020, 11, 1984.   | 12.8 | 120       |
| 43 | Self-Assembled Ruddlesden-Popper/Perovskite Hybrid with Lattice Oxygen Activation as a Superior Oxygen Evolution Electrocatalyst. <i>Small</i> , 2020, 16, e2001204.  | 10.0 | 61        |
| 44 | Ternary Phase Diagram-Facilitated Rapid Screening of Double Perovskites As Electrocatalysts for the Oxygen Evolution Reaction. <i>Chemistry of Materials</i> , 2019, 31, 5919-5926.   | 6.7  | 26        |
| 45 | Deciphering the Interface of a High-Voltage (5 V Class) Li-Ion Battery Containing Additive-Assisted Sulfonate-Based Electrolyte. <i>Small Methods</i> , 2019, 3, 1900546.   | 8.6  | 33        |
| 46 | Near-Room-Temperature Ferrimagnetic Ordering in a B-Site-Disordered 3d <sup>5</sup> -Hybridized Quadruple Perovskite Oxide, CaCu <sub>3</sub> Mn <sub>2</sub> Os <sub>2</sub> O <sub>12</sub> . <i>Inorganic Chemistry</i> , 2019, 58, 15529-15535.     | 4.0  | 14        |
| 47 | Smart Control of Composition for Double Perovskite Electrocatalysts toward Enhanced Oxygen Evolution Reaction. <i>ChemSusChem</i> , 2019, 12, 5111-5116.  | 6.8  | 33        |
| 48 | An Amorphous Nickel-Iron-Based Electrocatalyst with Unusual Local Structures for Ultrafast Oxygen Evolution Reaction. <i>Advanced Materials</i> , 2019, 31, e1900883.   | 21.0 | 243       |
| 49 | Searching General Sufficient and Necessary Conditions for Ultrafast Hydrogen-Evolving Electrocatalysis. <i>Advanced Functional Materials</i> , 2019, 29, 1900704.   | 14.9 | 94        |
| 50 | Boosting the oxygen evolution reaction activity of a perovskite through introducing multi-element synergy and building an ordered structure. <i>Journal of Materials Chemistry A</i> , 2019, 7, 9924-9932.  | 10.3 | 62        |
| 51 | Direct observation of the partial valence transition of Cu in the A-site ordered LaCu <sub>3</sub> Fe <sub>4</sub> O <sub>12</sub> by soft X-ray absorption spectroscopy. <i>Physica B: Condensed Matter</i> , 2019, 568, 92-95.                        | 2.7  | 6         |
| 52 | Defect induced ferromagnetic ordering in epitaxial Zn <sub>0.95</sub> Mn <sub>0.05</sub> O films on sapphire (001). <i>Journal of Physics Condensed Matter</i> , 2019, 31, 485708.  | 1.8  | 2         |
| 53 | High-pressure synthesis of A-site ordered perovskite CaMn <sub>3</sub> (Fe <sub>3</sub> Mn)O <sub>12</sub> and sequential long-range antiferromagnetic ordering and spin glass transition. <i>Journal of Solid State Chemistry</i> , 2019, 278, 120921. | 2.9  | 8         |
| 54 | Crystal Growth and Physical Properties of Sr <sub>4</sub> Co <sub>3</sub> O <sub>7.5+x</sub> Cl <sub>2</sub> Single Crystals (x ≈ ¼ 0.14). <i>Crystals</i> , 2019, 9, 623.  | 2.2  | 1         |

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|----|--|------|-----------|
| 55 | High-Temperature Ferrimagnetic Half Metallicity with Wide Spin-up Energy Gap in $\text{NaCu}_3\text{Fe}_2\text{Os}_2\text{O}_{12}$ . <i>Inorganic Chemistry</i> , 2019, 58, 320-326.   | 4.0  | 43        |
| 56 | Antiferromagnetic Interfacial Coupling and Giant Magnetic Hysteresis in $\text{La}_{0.5}\text{Ca}_{0.5}\text{MnO}_3$ Superlattices. <i>ACS Omega</i> , 2018, 3, 14266-14273.   | 3.5  | 2         |
| 57 | A Universal Strategy to Design Superior Water-Splitting Electrocatalysts Based on Fast In Situ Reconstruction of Amorphous Nanofilm Precursors. <i>Advanced Materials</i> , 2018, 30, e1804333.  | 21.0 | 108       |
| 58 | Synthesis and Characterization of $\text{BaLiRu}_5\text{O}_{11}$ , $\text{BaCu}_{1+x}\text{Ru}_5\text{O}_{11}$ , and $\text{BaLi}_1\text{Cu}_{x+1}\text{Ru}_5\text{O}_{11}$ . Crystal Structures and Valence States. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2018, 644, 1691-1696. | 4.2  | 4         |
| 59 | Operando X-ray spectroscopic tracking of self-reconstruction for anchored nanoparticles as high-performance electrocatalysts towards oxygen evolution. <i>Energy and Environmental Science</i> , 2018, 11, 2945-2953.  | 30.8 | 157       |
| 60 | Ultrahigh-performance tungsten-doped perovskites for the oxygen evolution reaction. <i>Journal of Materials Chemistry A</i> , 2018, 6, 9854-9859.  | 10.3 | 82        |
| 61 | Spin filtering of a termination-controlled $\text{LSMO}/\text{Alq}_3$ heterojunction for an organic spin valve. <i>Journal of Materials Chemistry C</i> , 2017, 5, 9128-9137.  | 5.5  | 9         |
| 62 | Relation between the Co-O bond lengths and the spin state of Co in layered Cobaltates: a high-pressure study. <i>Scientific Reports</i> , 2017, 7, 3656.   | 3.3  | 25        |
| 63 | Atomic origin of the spin-polarization of the $\text{Co}_2\text{FeAl}$ Heusler compound. <i>Journal Physics D: Applied Physics</i> , 2016, 49, 075005.   | 2.8  | 4         |
| 64 | Electrically enhanced magnetization in highly strained $\text{BiFeO}_3$ films. <i>NPG Asia Materials</i> , 2016, 8, e269-e269.   | 7.9  | 9         |
| 65 | Origin of metallic behavior in $\text{NiCo}_2\text{O}_4$ ferrimagnet. <i>Scientific Reports</i> , 2015, 5, 15201.  | 3.3  | 137       |
| 66 | Tuning the functionalities of a mesocrystal via structural coupling. <i>Scientific Reports</i> , 2015, 5, 12073.   | 3.3  | 17        |
| 67 | Self-Assembled Epitaxial Core-Shell Nanocrystals with Tunable Magnetic Anisotropy. <i>Small</i> , 2015, 11, 4117-4122.   | 10.0 | 5         |
| 68 | Interfacial symmetry of $\text{Co}/\text{Alq}_3/\text{Co}$ hybrid structures for effective spin filtering. <i>Applied Surface Science</i> , 2015, 354, 90-94.  | 6.1  | 8         |
| 69 | Effectiveness of organic molecules for spin filtering in an organic spin valve: Reaction-induced spin polarization for Co atop $\text{Alq}_3$ . <i>Physical Review B</i> , 2015, 91, .   | 3.2  | 14        |
| 70 | Enhanced Magnetocaloric Effect Driven by Interfacial Magnetic Coupling in Self-Assembled $\text{Mn}_3\text{O}_4$ $\text{La}_{0.7}\text{Sr}_{0.3}\text{MnO}_3$ Nanocomposites. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 26504-26511.  | 8.0  | 13        |
| 71 | Probing magnetoelastic effects of ultrathin antiferromagnets via magnetic domain imaging in ferromagnetic-antiferromagnetic bilayers. <i>Physical Review B</i> , 2014, 90, .   | 3.2  | 7         |
| 72 | A Complete High-to-Low spin state Transition of Trivalent Cobalt Ion in Octahedral Symmetry in $\text{SrCo}_{0.5}\text{Ru}_{0.5}\text{O}_3$ . <i>Journal of the American Chemical Society</i> , 2014, 136, 1514-1519.  | 13.7 | 117       |

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|----|---|-----|-----------|
| 73 | Observation of the origin of d <sup>0</sup> magnetism in ZnO nanostructures using X-ray-based microscopic and spectroscopic techniques. <i>Nanoscale</i> , 2014, 6, 9166.   | 5.6 | 57        |
| 74 | Defect Structure Guided Room Temperature Ferromagnetism of Y-Doped CeO <sub>2</sub> Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2014, 118, 26359-26367.   | 3.1 | 57        |
| 75 | Understanding and Tuning Electronic Structure in Modified Ceria Nanocrystals by Defect Engineering. <i>Langmuir</i> , 2014, 30, 10430-10439.  | 3.5 | 10        |
| 76 | Magnetic Mesocrystal-Assisted Magnetoresistance in Manganite. <i>Nano Letters</i> , 2014, 14, 6073-6079.  | 9.1 | 26        |
| 77 | Enhanced Magnetic Anisotropy via Quasi-Molecular Magnet at Organic-Ferromagnetic Contact. <i>Journal of Physical Chemistry Letters</i> , 2013, 4, 310-316.  | 4.6 | 36        |
| 78 | How Antiferromagnetism Drives the Magnetization of a Ferromagnetic Thin Film to Align Out of Plane. <i>Physical Review Letters</i> , 2013, 110, 117203.   | 7.8 | 41        |
| 79 | Element-specific study of the coupled magneto-structural and magneto-electronic properties of CoNi nanoarrays. <i>Journal of Nanoparticle Research</i> , 2013, 15, 1.   | 1.9 | 1         |
| 80 | Strong magnetic enhancement in self-assembled multiferroic-ferrimagnetic nanostructures. <i>Nanoscale</i> , 2013, 5, 4449.  | 5.6 | 44        |
| 81 | Phase evolution of magnetite nanocrystals on oxide supports via template-free bismuth ferrite precursor approach. <i>Journal of Applied Physics</i> , 2012, 112, .  | 2.5 | 7         |
| 82 | Enhancement of Ferromagnetism in CeO <sub>2</sub> Nanoparticles by Nonmagnetic Cr <sup>3+</sup> Doping. <i>Journal of Physical Chemistry C</i> , 2012, 116, 26570-26576.  | 3.1 | 24        |
| 83 | Concentration Dependence of Oxygen Vacancy on the Magnetism of CeO <sub>2</sub> Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2012, 116, 8707-8713.   | 3.1 | 82        |
| 84 | (001) FePt graded media with PtMn underlayers. <i>Applied Physics Letters</i> , 2011, 99, 212504.   | 3.3 | 8         |
| 85 | Modified Surface Electronic and Magnetic Properties of La <sub>0.6</sub> Sr <sub>0.4</sub> MnO <sub>3</sub> Thin Films for Spintronics Applications. <i>Journal of Physical Chemistry C</i> , 2011, 115, 16947-16953. | 3.1 | 36        |
| 86 | Oxygen-Deficient Perovskite Sr <sub>0.7</sub> Y <sub>0.3</sub> Co <sub>2.65</sub> as a Cathode for Intermediate-Temperature Solid Oxide Fuel Cells. <i>Chemistry of Materials</i> , 2011, 23, 5037-5044.              | 6.7 | 64        |
| 87 | Coupled microstructural and magnetic transition in Co-doped Ni nano-arrays. <i>Journal of Applied Physics</i> , 2011, 110, .  | 2.5 | 4         |
| 88 | Magnetic properties of electroless-deposited Ni and Ni@NiO core-shell nano-arrays. <i>Journal of Magnetism and Magnetic Materials</i> , 2011, 323, 1950-1953.   | 2.3 | 12        |
| 89 | Optimization of exchange coupled composite media by tuning the anisotropy in a laminated soft layer. <i>Journal of Applied Physics</i> , 2011, 109, 07C104.   | 2.5 | 6         |
| 90 | Direct probing magnetization reversal of exchange-coupled-composite media by x-ray magnetic circular dichroism. <i>Applied Physics Letters</i> , 2011, 98, 262507.  | 3.3 | 5         |

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|----|--|-----|-----------|
| 91 | Effects of laminated soft layer on magnetization reversal of exchange coupled composite media. Journal of Applied Physics, 2009, 105, 07B729.  | 2.5 | 7         |
| 92 | Investigation of Co <sub>2</sub> FeSi: The Heusler compound with highest Curie temperature and magnetic moment. Applied Physics Letters, 2006, 88, 032503.   | 3.3 | 381       |
| 93 | XANES study of oxycarbonates Hg <sub>1-x</sub> M <sub>x</sub> Sr <sub>4</sub> Cu <sub>2</sub> (CO <sub>3</sub> )O <sub>6</sub> (M=Mo, Cr). Radiation Physics and Chemistry, 2006, 75, 1630-1634.   | 2.8 | 2         |
| 94 | Electronic structure and spectroscopy of the quaternary Heusler alloy Co <sub>2</sub> Cr <sub>1-x</sub> Fe <sub>x</sub> Al. Journal Physics D: Applied Physics, 2006, 39, 803-815.   | 2.8 | 130       |
| 95 | Design of magnetic materials: the electronic structure of the ordered, doped Heusler compound Co <sub>2</sub> Cr <sub>1-x</sub> Fe <sub>x</sub> Al. Journal of Physics Condensed Matter, 2005, 17, 7237-7252.  | 1.8 | 95        |
| 96 | Polarized XANES study of the importance of inter-block vis-à-vis intra-block coupling in evolution of T <sub>c</sub> in halide-molecule-intercalated Bi <sub>2</sub> Sr <sub>2</sub> CaCu <sub>2</sub> O <sub>8-<math>\delta</math></sub> single crystals. Journal of Physics Condensed Matter, 2002, 14, 6675-6688. | 1.8 | 6         |