

Lei Shi

List of Publications by Year in descending order

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96
papers

3,644
citations

186265
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138484
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times ranked

4841
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Novel Iron/Cobalt-Containing Polypyrrole Hydrogel-Derived Trifunctional Electrocatalyst for Self-Powered Overall Water Splitting. <i>Advanced Functional Materials</i> , 2017, 27, 1606497. | 14.9 | 320 |
| 2 | Engineering electrocatalytic activity in nanosized perovskite cobaltite through surface spin-state transition. <i>Nature Communications</i> , 2016, 7, 11510. | 12.8 | 316 |
| 3 | Ultra-long-life and highly reversible Zn metal anodes enabled by a desolvation and deanionization interface layer. <i>Energy and Environmental Science</i> , 2021, 14, 3120-3129. | 30.8 | 250 |
| 4 | Bimetallic nickel-molybdenum/tungsten nanoalloys for high-efficiency hydrogen oxidation catalysis in alkaline electrolytes. <i>Nature Communications</i> , 2020, 11, 4789. | 12.8 | 192 |
| 5 | Identification of Cu(100)/Cu(111) Interfaces as Superior Active Sites for CO Dimerization During CO ₂ Electroreduction. <i>Journal of the American Chemical Society</i> , 2022, 144, 259-269. | 13.7 | 171 |
| 6 | Noble-Metal-Free Janus-Like Structures by Cation Exchange for Z-Scheme Photocatalytic Water Splitting under Broadband Light Irradiation. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 4206-4210. | 13.8 | 166 |
| 7 | Structure Sensitivity of Au-TiO ₂ Strong Metal-Support Interactions. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 12074-12081. | 13.8 | 161 |
| 8 | Quadruple perovskite ruthenate as a highly efficient catalyst for acidic water oxidation. <i>Nature Communications</i> , 2019, 10, 3809. | 12.8 | 150 |
| 9 | Synthesis of Sub-2-nm Iron-Doped NiSe ₂ Nanowires and Their Surface-Confined Oxidation for Oxygen Evolution Catalysis. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 4020-4024. | 13.8 | 133 |
| 10 | Enhanced visible-light photocatalytic activity of Bi ₂ MoO ₆ nanoplates with heterogeneous Bi ₂ MoO _{6-x} @Bi ₂ MoO ₆ core-shell structure. <i>Applied Catalysis B: Environmental</i> , 2018, 224, 692-704. | 20.2 | 116 |
| 11 | The role of oxygen vacancies in water oxidation for perovskite cobalt oxide electrocatalysts: are more better?. <i>Chemical Communications</i> , 2019, 55, 1442-1445. | 4.1 | 100 |
| 12 | Size-dependent magnetic properties and Raman spectra of La ₂ NiMnO ₆ nanoparticles. <i>Journal of Applied Physics</i> , 2009, 106, . | 2.5 | 97 |
| 13 | Amorphous Molybdenum Sulfide/Carbon Nanotubes Hybrid Nanospheres Prepared by Ultrasonic Spray Pyrolysis for Electrocatalytic Hydrogen Evolution. <i>Small</i> , 2017, 13, 1700111. | 10.0 | 70 |
| 14 | Evidence of short-range magnetic ordering above TC in the double perovskite La ₂ NiMnO ₆ . <i>Applied Physics Letters</i> , 2007, 91, 172505. | 3.3 | 69 |
| 15 | Near room-temperature magnetoresistance effect in double perovskite La ₂ NiMnO ₆ . <i>Applied Physics Letters</i> , 2013, 102, . | 3.3 | 64 |
| 16 | Single crystalline quaternary sulfide nanobelts for efficient solar-to-hydrogen conversion. <i>Nature Communications</i> , 2020, 11, 5194. | 12.8 | 64 |
| 17 | Ferromagnetism in LaCoO ₃ nanoparticles. <i>Physical Review B</i> , 2007, 76, . | 3.2 | 62 |
| 18 | Noble-Metal-Free Janus-Like Structures by Cation Exchange for Z-Scheme Photocatalytic Water Splitting under Broadband Light Irradiation. <i>Angewandte Chemie</i> , 2017, 129, 4270-4274. | 2.0 | 62 |

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|----|---|------|-----------|
| 19 | Strongly Coupled Cobalt Diselenide Monolayers for Selective Electrocatalytic Oxygen Reduction to H_2 under Acidic Conditions. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 26922-26931. | 13.8 | 61 |
| 20 | Griffiths phase, spin-phonon coupling, and exchange bias effect in double perovskite Pr_2CoMnO_6 . <i>Journal of Applied Physics</i> , 2014, 116, . | 2.5 | 58 |
| 21 | Nature of short-range ferromagnetic ordered state above TC in double perovskite La_2NiMnO_6 . <i>Applied Physics Letters</i> , 2010, 96, . | 3.3 | 56 |
| 22 | Size-dependent exchange bias in half-doped manganite nanoparticles. <i>Applied Physics Letters</i> , 2008, 93, . | 3.3 | 52 |
| 23 | Catalytic asymmetric C-Si bond activation via torsional strain-promoted Rh-catalyzed aryl-Narasaka acylation. <i>Nature Communications</i> , 2020, 11, 4449. | 12.8 | 43 |
| 24 | Theoretical study of size-dependent properties of BN nanotubes with intrinsic defects. <i>Physical Review B</i> , 2007, 76, . | 3.2 | 42 |
| 25 | Sr and Pb co-doping effect on the crystal structure, dielectric and magnetic properties of $BiFeO_3$ multiferroic compounds. <i>Journal of Alloys and Compounds</i> , 2017, 708, 93-98. | 5.5 | 40 |
| 26 | Size-dependent structure and magnetic properties of $DyMnO_3$ nanoparticles. <i>Journal of Applied Physics</i> , 2014, 116, . | 2.5 | 34 |
| 27 | Room-temperature multiferroicity in $CeFeO_3$ ceramics. <i>Journal of Alloys and Compounds</i> , 2019, 797, 363-369. | 5.5 | 34 |
| 28 | Synthesis of Sub-2-nm Iron-Doped $NiSe_2$ Nanowires and Their Surface-Confined Oxidation for Oxygen Evolution Catalysis. <i>Angewandte Chemie</i> , 2018, 130, 4084-4088. | 2.0 | 33 |
| 29 | Controllable Synthesis of Cu_2O Microcrystals via a Complexant-Assisted Synthetic Route. <i>European Journal of Inorganic Chemistry</i> , 2010, 2010, 1103-1109. | 2.0 | 26 |
| 30 | Nature of ferromagnetic ordered state in $LaCoO_3$ epitaxial nano-thin film on $LaAlO_3$ substrate. <i>Journal of Alloys and Compounds</i> , 2014, 594, 158-164. | 5.5 | 23 |
| 31 | The influence of substrate orientation and annealing condition on the properties of $LaMnO_3$ thin films grown by polymer-assisted deposition. <i>Applied Surface Science</i> , 2015, 351, 188-192. | 6.1 | 23 |
| 32 | Synthesis, surface group modification of 3D MnV_2O_6 nanostructures and adsorption effect on Rhodamine B. <i>Materials Research Bulletin</i> , 2012, 47, 1725-1733. | 5.2 | 22 |
| 33 | Reduction-Controlled Atomic Migration for Single Atom Alloy Library. <i>Nano Letters</i> , 2022, 22, 4232-4239. | 9.1 | 20 |
| 34 | Local Valence and Hole-Doping Effect on Magnetic Properties in Double Perovskite La_2NiMnO_6 . <i>Journal of Superconductivity and Novel Magnetism</i> , 2013, 26, 3287-3292. | 1.8 | 19 |
| 35 | Effects of Co and Mn doping on the structure and superconductivity of. <i>Solid State Communications</i> , 2008, 147, 27-30. | 1.9 | 18 |
| 36 | Simple polymer assisted deposition and strain-induced ferromagnetism of $LaCoO_3$ epitaxial thin films. <i>Surface and Coatings Technology</i> , 2013, 226, 108-112. | 4.8 | 18 |

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|----|---|------|-----------|
| 37 | Spin-phonon coupling in $R_2\text{CoMnO}_6$ ($R = \text{Pr, Nd, Sm}$) thin films under biaxial compressive strain. <i>Journal of Applied Physics</i> , 2016, 120, . | 2.5 | 18 |
| 38 | Interaction of Iron Atoms with Pristine and Defective (8, 0) Boron Nitride Nanotubes. <i>Journal of Physical Chemistry C</i> , 2008, 112, 13571-13578. | 3.1 | 17 |
| 39 | Facile synthesis of Ca-doped manganite nanoparticles by a nonaqueous sol-gel method and their magnetic properties. <i>Materials Chemistry and Physics</i> , 2010, 120, 75-78. | 4.0 | 17 |
| 40 | Radiation-Induced Inclusion Polymerization of Acrylonitrile in Urea Canals: Toward Synthesis of Completely Isotactic Polyacrylonitrile with Controlled Molecular Weight. <i>Macromolecules</i> , 2013, 46, 1765-1771. | 4.8 | 17 |
| 41 | Short-Range Magnetic Ordered State Above T_C in Double Perovskite $\text{Dy}_2\text{NiMnO}_6$. <i>Journal of Superconductivity and Novel Magnetism</i> , 2015, 28, 53-59. | 1.8 | 17 |
| 42 | Direct Growth of CoFe_2O_4 Alloy Strongly Coupling and Oxygen Vacancy Rich CoFe_2O_4 Porous Hollow Nanofibers: an Efficient Electrocatalyst for Oxygen Evolution Reaction. <i>Energy Technology</i> , 2018, 6, 2350-2357. | 3.8 | 17 |
| 43 | Pt-Anchored CuCrO_2 for Low-Temperature-Operating High-Performance H_2S Chemiresistors. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 24536-24545. | 8.0 | 17 |
| 44 | Direct Observation of Magnetic Ion Off-Centering-Induced Ferroelectricity in Multiferroic Manganite $\text{Pr}(\text{Sr}_{0.1}\text{Ca}_{0.9})_2\text{Mn}_2\text{O}_7$. <i>Advanced Materials</i> , 2015, 27, 6328-6332. | 21.0 | 14 |
| 45 | Tuning of magnetic properties for epitaxial Y_2NiMnO_6 thin film: Substrate is crucial. <i>Applied Surface Science</i> , 2016, 384, 459-465. | 6.1 | 14 |
| 46 | Strain effect on the transport properties of epitaxial PrNiO_3 thin films grown by polymer-assisted deposition. <i>Journal Physics D: Applied Physics</i> , 2016, 49, 125301. | 2.8 | 13 |
| 47 | Superconductivity and the disorder effect in Ag and Al double doped MgB_2 . <i>Journal of Applied Physics</i> , 2006, 100, 023905. | 2.5 | 12 |
| 48 | High-temperature thermoelectric characteristics of B-site substituted $\text{Yb}_{0.1}\text{Ca}_{0.9}\text{Mn}_{1-x}\text{Nb}_x\text{O}_3$ system ($0 \leq x \leq 0.1$). <i>Applied Physics A: Materials Science and Processing</i> , 2013, 112, 1003-1009. | 2.3 | 12 |
| 49 | Spin-Reorientation Transition Driven by Double Exchange in CeFeO_3 Ceramics. <i>Journal of Physical Chemistry C</i> , 2020, 124, 15399-15405. | 3.1 | 12 |
| 50 | Tuning the metal-insulator transition via epitaxial strain and Co doping in NdNiO_3 thin films grown by polymer-assisted deposition. <i>Journal of Applied Physics</i> , 2016, 119, . | 2.5 | 11 |
| 51 | Tunability of magnetization and bandgap in mullite-type $\text{Bi}_2\text{Fe}_4\text{O}_9$ ceramics through non-magnetic ions. <i>Scripta Materialia</i> , 2018, 146, 55-59. | 5.2 | 11 |
| 52 | Anomalous magnetism in Al doped $\text{La}_2\text{CoMnO}_6$ ceramics. <i>Journal of Magnetism and Magnetic Materials</i> , 2020, 510, 166950. | 2.3 | 11 |
| 53 | Structure Sensitivity of Au/TiO_2 Strong Metal-Support Interactions. <i>Angewandte Chemie</i> , 2021, 133, 12181-12188. | 2.0 | 11 |
| 54 | Insight into the Magnetization Reversal and Exchange Bias in $\text{RFe}_{0.5}\text{Cr}_{0.5}\text{O}_3$ Ceramics. <i>Journal of Physical Chemistry C</i> , 2021, 125, 7950-7958. | 3.1 | 11 |

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|----|--|------|-----------|
| 55 | Theoretical Study of the Site-Dependent Stabilities of Intrinsic Defects in a Polar BN Nanotube with Finite Length. <i>Journal of Physical Chemistry C</i> , 2008, 112, 19353-19359. | 3.1 | 10 |
| 56 | Fabrication of Polyaniline/Silver Nanocomposite Under Gamma-ray Irradiation. <i>Chinese Journal of Chemical Physics</i> , 2010, 23, 701-706. | 1.3 | 10 |
| 57 | Size-induced transition from non-Griffiths-like to Griffiths-like clustered phase above the Curie temperature. <i>Europhysics Letters</i> , 2012, 98, 57004. | 2.0 | 10 |
| 58 | Spin-State Transition Enhanced Oxygen Evolving Activity in Misfit-Layered Cobalt Oxide Nanosheets. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 12337-12342. | 6.7 | 10 |
| 59 | Tunability of Bandgap and Magnetism in K and Pb Codoped BiFeO ₃ Nanoparticles for Multiferroic Applications: The Role of Structural Transition and Fe Deficiency. <i>ACS Applied Nano Materials</i> , 2019, 2, 1995-2004. | 5.0 | 10 |
| 60 | Tuning Ferroelectric, Dielectric, and Magnetic Properties of BiFeO ₃ Ceramics by Ca and Pb Co-Doping. <i>Physica Status Solidi (B): Basic Research</i> , 2019, 256, 1800499. | 1.5 | 10 |
| 61 | Susceptibility behaviour and specific heat anomaly in single crystals of alanine and valine. <i>Journal of Biological Physics</i> , 1996, 22, 65-71. | 1.5 | 9 |
| 62 | Optical Study of Nanosize Effects on Charge Ordering in Half-Doped Manganites. <i>Journal of Physical Chemistry C</i> , 2013, 117, 8989-8996. | 3.1 | 9 |
| 63 | Spin-polarized electron transport in highly reduced MgFe ₂ O ₄ . <i>Materials Research Express</i> , 2018, 5, 126301. | 1.6 | 9 |
| 64 | A-site ion-size effect on the transport and magnetic properties of Ce doping Pr _{0.3} Ce _{0.2} Ca _x Sr _{0.5-<i>x</i>} MnO ₃ (0 ≤ <i>x</i> ≤ 0.25). <i>Journal of Applied Physics</i> , 2011, 109, . | 2.5 | 8 |
| 65 | Structural characteristics, magnetic properties of Re ₂ NiMnO ₆ (Re=La, Pr, Nd, Sm, Y) thin films on (001) LaAlO ₃ by simple polymer assisted deposition. <i>Surface and Coatings Technology</i> , 2015, 277, 222-226. | 4.8 | 8 |
| 66 | Insight into the enhancement of transport property for oriented La _{0.9} MnO ₃ films. <i>Journal Physics D: Applied Physics</i> , 2017, 50, 205306. | 2.8 | 8 |
| 67 | Bio-inspired synthesis of transition-metal oxide hybrid ultrathin nanosheets for enhancing the cycling stability in lithium-ion batteries. <i>Nano Research</i> , 2022, 15, 5064-5071. | 10.4 | 8 |
| 68 | Electrorheological properties and structure of (BaTiO(C ₂ O ₄) ₂ /NH ₂ CONH ₂). <i>Journal of Solid State Chemistry</i> , 2006, 179, 1874-1878. | 2.9 | 7 |
| 69 | Characterization upon electrical hysteresis and thermal diffusion of TiAl ₃ O _x dielectric film. <i>Nanoscale Research Letters</i> , 2011, 6, 557. | 5.7 | 7 |
| 70 | Nature of Griffiths phase and ferromagnetic 3d-4f interaction in double-perovskite Dy ₂ CoMnO ₆ . <i>Journal of Alloys and Compounds</i> , 2022, 893, 162222. | 5.5 | 7 |
| 71 | Tuning the magnetic and transport properties of La _{0.8} Ca _{0.2} MnO ₃ films by Ba _{0.8} Sr _{0.2} TiO ₃ intercalated layers grown with polymer-assisted deposition. <i>Applied Physics Letters</i> , 2017, 110, 231602. | 3.3 | 6 |
| 72 | High-temperature metal-insulator transition in YxCa _{1-x} MnO ₃ (0.05 ≤ <i>x</i> ≤ 0.12): An electron-spin resonance study. <i>Journal of Alloys and Compounds</i> , 2014, 582, 37-42. | 5.5 | 5 |

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|----|---|------|-----------|
| 73 | The effect of charge transfer on the transport and magnetic properties induced by Ca substitution in La _{0.3} Ce _{0.2} Sr _{0.5} MnO ₃ . <i>Journal of Alloys and Compounds</i> , 2017, 725, 349-354. | 5.5 | 5 |
| 74 | Orientation-adjusted anomalous insulator-metal transition in NdNiO ₃ /LaMnO ₃ bilayers. <i>Applied Physics Letters</i> , 2018, 112, . | 3.3 | 5 |
| 75 | The effect of composite configurations of Fe ionic spins on the dielectric properties in Sm-doped CeFeO ₃ ceramics. <i>Ceramics International</i> , 2021, 47, 5767-5775. | 4.8 | 5 |
| 76 | Electronic property and structure of double-doping Y _{1-x} Pr _x CaxBa ₂ Cu ₃ O _{7-δ} with 0 ≤ x ≤ 0.14. <i>Physica C: Superconductivity and Its Applications</i> , 2010, 470, 607-610. | 1.2 | 4 |
| 77 | Interfacial coupling, oxygen deficiency, and orbital reconstruction in oriented La _{0.7} Ca _{0.3} MnO ₃ /DyMnO ₃ bilayers. <i>Applied Physics A: Materials Science and Processing</i> , 2019, 125, 1. | 2.3 | 4 |
| 78 | Regioselective Construction of Chemically Transformed Phosphide-Metal Nanoheterostructures for Enhanced Hydrogen Evolution Catalysis. <i>Inorganic Chemistry</i> , 2021, 60, 7269-7275. | 4.0 | 4 |
| 79 | Electrical transport properties driven by magnetic competition in hole-doped perovskite Pr _{1-x} BaxMnO ₃ (0.25 ≤ x ≤ 0.36). <i>Ceramics International</i> , 2021, 47, 19464-19470. | 4.8 | 4 |
| 80 | Particle size effects on stripe ordering and magnetic properties in nanosized La _{5/3} Sr _{1/3} NiO ₄ . <i>Solid State Communications</i> , 2008, 147, 258-261. | 1.9 | 3 |
| 81 | High magnetoresistance in layered PrBaCo ₂ O _{5+δ} double perovskite. <i>Journal of Alloys and Compounds</i> , 2020, 819, 153001. | 5.5 | 3 |
| 82 | Strain induced Co/Mn ionization and magnetic properties in double-perovskite Nd ₂ CoMnO ₆ thin films. <i>Journal of Applied Physics</i> , 2020, 128, 145305. | 2.5 | 3 |
| 83 | Strongly Coupled Cobalt Diselenide Monolayers Selectively Catalyze Oxygen Reduction to H ₂ O ₂ in an Acidic Environment. <i>Angewandte Chemie</i> , 0, , . | 2.0 | 3 |
| 84 | Effects on transition temperature and Raman spectra of substitution of Cr and Al for Mg in MgB ₂ . <i>Physica Status Solidi (B): Basic Research</i> , 2007, 244, 3244-3253. | 1.5 | 2 |
| 85 | Change from electronlike to holelike carriers in MgCNi ₃ via doping with B or Zn. <i>Materials Chemistry and Physics</i> , 2013, 138, 743-746. | 4.0 | 2 |
| 86 | Resonance Effect of Ionic Valences on the Structural and Magnetic Properties of Dy ₂ NiMnO ₆ Induced by Nonmagnetic Al Ion Doping. <i>Physica Status Solidi (B): Basic Research</i> , 2019, 256, 1900168. | 1.5 | 2 |
| 87 | Strain-controlled oxygen content and the cationic electronegativity in LaBaCo ₂ O _{5.5+δ} thin films. <i>Journal of Applied Physics</i> , 2021, 129, 175301. | 2.5 | 2 |
| 88 | Frontispiece: Strongly Coupled Cobalt Diselenide Monolayers for Selective Electrocatalytic Oxygen Reduction to H ₂ O ₂ under Acidic Conditions. <i>Angewandte Chemie - International Edition</i> , 2021, 60, . | 13.8 | 2 |
| 89 | Formation and Characteristics of Acrylonitrile/Urea Inclusion Compound. <i>Chinese Journal of Chemical Physics</i> , 2013, 26, 198-202. | 1.3 | 1 |
| 90 | Electronic Property of the C-Site Doped MgCNi. <i>Journal of Superconductivity and Novel Magnetism</i> , 2014, 27, 209-213. | 1.8 | 1 |

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|----|--|-----|-----------|
| 91 | Study of the Effects of A-site La Substitution on the Electrical and Magnetic Properties of $\text{Dy}_{0.5}\text{Sr}_{0.5}\text{MnO}_3$ Ceramics. <i>Physica Status Solidi (B): Basic Research</i> , 2018, 255, 1700155. | 1.5 | 1 |
| 92 | Synthesis and Electrorheological Properties of LTNO-PS Composites. <i>Chinese Journal of Chemical Physics</i> , 2007, 20, 319-323. | 1.3 | 0 |
| 93 | Ferromagnetism Enhanced by Lattice Distortion in Fine $\text{La}_{5/3}\text{Sr}_{1/3}\text{NiO}_4$ Particles. <i>Journal of Superconductivity and Novel Magnetism</i> , 2010, 23, 411-415. | 1.8 | 0 |
| 94 | Negative slope of resistivity-temperature curve and positive magnetoresistance in antiperovskite ZnNi_3Mn_x ($1.15 \leq x \leq 1.5$). <i>Applied Physics A: Materials Science and Processing</i> , 2014, 114, 833-838. | 2.3 | 0 |
| 95 | $\text{SrFe}_{1-x}\text{MoxO}_{2+\delta}$: parasitic ferromagnetism in an infinite-layer iron oxide with defect structures induced by interlayer oxygen. <i>Materials Research Express</i> , 2018, 5, 046106. | 1.6 | 0 |
| 96 | Frontispiz: Strongly Coupled Cobalt Diselenide Monolayers for Selective Electrocatalytic Oxygen Reduction to H_2O under Acidic Conditions. <i>Angewandte Chemie</i> , 2021, 133, . | 2.0 | 0 |