Lei Shi

List of Publications by Year
in descending order

96 papers	3,644 citations	186265 28 h-index	138484 58 g-index
96 all docs	96 docs citations	96 times ranked	4841 citing authors

#	Article	IF	Citations
1	Nature of Griffiths phase and ferromagnetic 3d-4f interaction in double-perovskite Dy2CoMnO6. Journal of Alloys and Compounds, 2022, 893, 162222.	5.5	7
2	Bio-inspired synthesis of transition-metal oxide hybrid ultrathin nanosheets for enhancing the cycling stability in lithium-ion batteries. Nano Research, 2022, 15, 5064-5071.	10.4	8
3	Identification of Cu(100)/Cu(111) Interfaces as Superior Active Sites for CO Dimerization During CO₂ Electroreduction. Journal of the American Chemical Society, 2022, 144, 259-269.	13.7	171
4	Reduction-Controlled Atomic Migration for Single Atom Alloy Library. Nano Letters, 2022, 22, 4232-4239.	9.1	20
5	Pt-Anchored CuCrO₂ for Low-Temperature-Operating High-Performance H₂S Chemiresistors. ACS Applied Materials & Interfaces, 2022, 14, 24536-24545.	8.0	17
6	The effect of composite configurations of Fe ionic spins on the dielectric properties in Sm-doped CeFeO3 ceramics. Ceramics International, 2021, 47, 5767-5775.	4.8	5
7	Regioselective Construction of Chemically Transformed Phosphideâ€“Metal Nanoheterostructures for Enhanced Hydrogen Evolution Catalysis. Inorganic Chemistry, 2021, 60, 7269-7275.	4.0	4
8	Structure Sensitivity of Auâ€TiO₂ Strong Metalâ€“Support Interactions. Angewandte Chemie - International Edition, 2021, 60, 12074-12081.	13.8	161
9	Structure Sensitivity of Auâ€TiO 2 Strong Metalâ€“Support Interactions. Angewandte Chemie, 2021, 133, 12181-12188.	2.0	11
10	Insight into the Magnetization Reversal and Exchange Bias in RFe_{0.5}Cr_{0.5}O₃ Ceramics. Journal of Physical Chemistry C, 2021, 125, 7950-7958.	3.1	11
11	Strain-controlled oxygen content and the cationic electronegativity in LaBaCo2O5.5+Î´ thin films. Journal of Applied Physics, 2021, 129, 175301.	2.5	2
12	Electrical transport properties driven by magnetic competition in hole-doped perovskite Pr1-xBaxMnO3 (0.25 â‰¤ x â‰¤ 0.36). Ceramics International, 2021, 47, 19464-19470.	4.8	4
13	Strongly Coupled Cobalt Diselenide Monolayers for Selective Electrocatalytic Oxygen Reduction to H₂O₂ under Acidic Conditions. Angewandte Chemie - International Edition, 2021, 60, 26922-26931.	13.8	61
14	Ultra-long-life and highly reversible Zn metal anodes enabled by a desolvation and deanionization interface layer. Energy and Environmental Science, 2021, 14, 3120-3129.	30.8	250
15	Frontispiece: Strongly Coupled Cobalt Diselenide Monolayers for Selective Electrocatalytic Oxygen Reduction to H₂O₂ under Acidic Conditions. Angewandte Chemie - International Edition, 2021, 60, .	13.8	2
16	Frontispiz: Strongly Coupled Cobalt Diselenide Monolayers for Selective Electrocatalytic Oxygen Reduction to H₂O₂ under Acidic Conditions. Angewandte Chemie, 2021, 133, .	2.0	0
17	High magnetoresistance in layered PrBaCo2O5+Î´ double perovskite. Journal of Alloys and Compounds, 2020, 819, 153001.	5.5	3
18	Single crystalline quaternary sulfide nanobelts for efficient solar-to-hydrogen conversion. Nature Communications, 2020, 11, 5194.	12.8	64

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19	Strain induced Co/Mn ionization and magnetic properties in double-perovskite Nd2CoMnO6 thin films. Journal of Applied Physics, 2020, 128, 145305.	2.5	3
20	Bimetallic nickel-molybdenum/tungsten nanoalloys for high-efficiency hydrogen oxidation catalysis in alkaline electrolytes. Nature Communications, 2020, 11, 4789.	12.8	192
21	Catalytic asymmetric Câ€“Si bond activation via torsional strain-promoted Rh-catalyzed aryl-Narasaka acylation. Nature Communications, 2020, 11, 4449.	12.8	43
22	Anomalous magnetism in Al doped La2CoMnO6 ceramics. Journal of Magnetism and Magnetic Materials, 2020, 510, 166950.	2.3	11
23	Spin-Reorientation Transition Driven by Double Exchange in CeFeO₃ Ceramics. Journal of Physical Chemistry C, 2020, 124, 15399-15405.	3.1	12
24	Quadruple perovskite ruthenate as a highly efficient catalyst for acidic water oxidation. Nature Communications, 2019, 10, 3809.	12.8	150
25	Interfacial coupling, oxygen deficiency, and orbital reconstruction in oriented La0.7Ca0.3MnO3/DyMnO3 bilayers. Applied Physics A: Materials Science and Processing, 2019, 125, 1.	2.3	4
26	The role of oxygen vacancies in water oxidation for perovskite cobalt oxide electrocatalysts: are more better?. Chemical Communications, 2019, 55, 1442-1445.	4.1	100
27	Resonance Effect of Ionic Valences on the Structural and Magnetic Properties of Dy 2 NiMnO 6 Induced by Nonmagnetic Al Ion Doping. Physica Status Solidi (B): Basic Research, 2019, 256, 1900168.	1.5	2
28	Room-temperature multiferroicity in CeFeO3 ceramics. Journal of Alloys and Compounds, 2019, 797, 363-369.	5.5	34
29	Tunability of Bandgap and Magnetism in K and Pb Codoped BiFeO₃ Nanoparticles for Multiferroic Applications: The Role of Structural Transition and Fe Deficiency. ACS Applied Nano Materials, 2019, 2, 1995-2004.	5.0	10
30	Tuning Ferroelectric, Dielectric, and Magnetic Properties of BiFeO₃ Ceramics by Ca and Pb Coâ€Doping. Physica Status Solidi (B): Basic Research, 2019, 256, 1800499.	1.5	10
31	SrFe1â^'xMoxO2+Î´: parasitic ferromagnetism in an infinite-layer iron oxide with defect structures induced by interlayer oxygen. Materials Research Express, 2018, 5, 046106.	1.6	0
32	Synthesis of Subâ€2â€…nm Ironâ€Doped NiSe₂ Nanowires and Their Surfaceâ€Confined Oxidation for Oxygen Evolution Catalysis. Angewandte Chemie, 2018, 130, 4084-4088.	2.0	33
33	Synthesis of Subâ€2â€…nm Ironâ€Doped NiSe₂ Nanowires and Their Surfaceâ€Confined Oxidation for Oxygen Evolution Catalysis. Angewandte Chemie - International Edition, 2018, 57, 4020-4024.	13.8	133
34	Orientation-adjusted anomalous insulator-metal transition in NdNiO3/LaMnO3 bilayers. Applied Physics Letters, 2018, 112, .	3.3	5
35	Study of the Effects of Aâ€Site Laâ€Substition on the Electrical and Magnetic Properties of Dy_{0.5}Sr_{0.5}MnO₃ Ceramics. Physica Status Solidi (B): Basic Research, 2018, 255, 1700155.	1.5	1
36	Tunability of magnetization and bandgap in mullite-type Bi2Fe4O9 ceramics through non-magnetic ions. Scripta Materialia, 2018, 146, 55-59.	5.2	11

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37	Enhanced visible-light photocatalytic activity of Bi2MoO6 nanoplates with heterogeneous Bi2MoO6-x@Bi2MoO6 core-shell structure. Applied Catalysis B: Environmental, 2018, 224, 692-704.	20.2	116
38	Spin-polarized electron transport in highly reduced MgFe₂O_{4-Î´}. Materials Research Express, 2018, 5, 126301.	1.6	9
39	Spin-State Transition Enhanced Oxygen Evolving Activity in Misfit-Layered Cobalt Oxide Nanosheets. ACS Sustainable Chemistry and Engineering, 2018, 6, 12337-12342.	6.7	10
40	Direct Growth of CoFe₂ Alloy Strongly Coupling and Oxygenâ€Vacancyâ€Rich CoFe₂O₄ Porous Hollow Nanofibers: an Efficient Electrocatalyst for Oxygen Evolution Reaction. Energy Technology, 2018, 6, 2350-2357.	3.8	17
41	Sr and Pb co-doping effect on the crystal structure, dielectric and magnetic properties of BiFeO3 multiferroic compounds. Journal of Alloys and Compounds, 2017, 708, 93-98.	5.5	40
42	Amorphous Molybdenum Sulfide/Carbon Nanotubes Hybrid Nanospheres Prepared by Ultrasonic Spray Pyrolysis for Electrocatalytic Hydrogen Evolution. Small, 2017, 13, 1700111.	10.0	70
43	Insight into the enhancement of transport property for oriented La_{0.9}MnO₃ films. Journal Physics D: Applied Physics, 2017, 50, 205306.	2.8	8
44	Tuning the magnetic and transport properties of La0.8Ca0.2MnO3 films by Ba0.8Sr0.2TiO3 intercalated layers grown with polymer-assisted deposition. Applied Physics Letters, 2017, 110, 231602.	3.3	6
45	Nobleâ€Metalâ€Free Janusâ€like Structures by Cation Exchange for Zâ€Scheme Photocatalytic Water Splitting under Broadband Light Irradiation. Angewandte Chemie - International Edition, 2017, 56, 4206-4210.	13.8	166
46	Nobleâ€Metalâ€Free Janusâ€like Structures by Cation Exchange for Zâ€Scheme Photocatalytic Water Splitting under Broadband Light Irradiation. Angewandte Chemie, 2017, 129, 4270-4274.	2.0	62
47	Novel Iron/Cobaltâ€Containing Polypyrrole Hydrogelâ€Derived Trifunctional Electrocatalyst for Selfâ€Powered Overall Water Splitting. Advanced Functional Materials, 2017, 27, 1606497.	14.9	320
48	The effect of charge transfer on the transport and magnetic properties induced by Ca substitution in La0.3Ce0.2Sr0.5MnO3. Journal of Alloys and Compounds, 2017, 725, 349-354.	5.5	5
49	Strain effect on the transport properties of epitaxial PrNiO₃thin films grown by polymer-assisted deposition. Journal Physics D: Applied Physics, 2016, 49, 125301.	2.8	13
50	Spin-phonon coupling in R2CoMnO6 (Râ€‰=â€‰Pr, Nd, Sm) thin films under biaxial compressive strain. Journal of Applied Physics, 2016, 120, .	2.5	18
51	Tuning the metal-insulator transition via epitaxial strain and Co doping in NdNiO3 thin films grown by polymer-assisted deposition. Journal of Applied Physics, 2016, 119, .	2.5	11
52	Engineering electrocatalytic activity in nanosized perovskite cobaltite through surface spin-state transition. Nature Communications, 2016, 7, 11510.	12.8	316
53	Tuning of magnetic properties for epitaxial Y2NiMnO6 thin film: Substrate is crucial. Applied Surface Science, 2016, 384, 459-465.	6.1	14
54	Direct Observation of Magneticâ€Ion Offâ€Centeringâ€Induced Ferroelectricity in Multiferroic Manganite Pr(Sr_{0.1}Ca_{0.9})₂Mn₂O₇. Advanced Materials, 2015, 27, 6328-6332.	21.0	14

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55	Structural characteristics, magnetic properties of Re2NiMnO6 (Re=La, Pr, Nd, Sm, Y) thin films on (001) LaAlO3 by simple polymer assisted deposition. Surface and Coatings Technology, 2015, 277, 222-226.	4.8	8
56	The influence of substrate orientation and annealing condition on the properties of LaMnO3 thin films grown by polymer-assisted deposition. Applied Surface Science, 2015, 351, 188-192.	6.1	23
57	Short-Range Magnetic Ordered State Above T C in Double Perovskite Dy 2 NiMnO 6. Journal of Superconductivity and Novel Magnetism, 2015, 28, 53-59.	1.8	17
58	Griffiths phase, spin-phonon coupling, and exchange bias effect in double perovskite Pr2CoMnO6. Journal of Applied Physics, 2014, 116, .	2.5	58
59	Size-dependent structure and magnetic properties of DyMnO3 nanoparticles. Journal of Applied Physics, 2014, 116, .	2.5	34
60	Electronic Property of the C-Site Doped MgCNi. Journal of Superconductivity and Novel Magnetism, 2014, 27, 209-213.	1.8	1
61	Negative slope of resistivityâ€“temperature curve and positive magnetoresistance in antiperovskite ZnCNi3â^'x Mn x (1.15â‰xâ‰1.5). Applied Physics A: Materials Science and Processing, 2014, 114, 833-838.	2.3	0
62	High-temperature metalâ€“insulator transition in YxCa1â^'xMnO3 (0.05â©½xâ©½0.12): An electron-spin resonance study. Journal of Alloys and Compounds, 2014, 582, 37-42.	5.5	5
63	Nature of ferromagnetic ordered state in LaCoO3 epitaxial nano-thin film on LaAlO3 substrate. Journal of Alloys and Compounds, 2014, 594, 158-164.	5.5	23
64	Local Valence and Hole-Doping Effect on Magnetic Properties in Double Perovskite La2NiMnO6. Journal of Superconductivity and Novel Magnetism, 2013, 26, 3287-3292.	1.8	19
65	High-temperature thermoelectric characteristics of B-site substituted Yb0.1Ca0.9Mn1â^'x Nb x O3 system (0â‰xâ‰0.1). Applied Physics A: Materials Science and Processing, 2013, 112, 1003-1009.	2.3	12
66	Simple polymer assisted deposition and strain-induced ferromagnetism of LaCoO3 epitaxial thin films. Surface and Coatings Technology, 2013, 226, 108-112.	4.8	18
67	Change from electronlike to holelike carriers in MgCNi3 via doping with B or Zn. Materials Chemistry and Physics, 2013, 138, 743-746.	4.0	2
68	Near room-temperature magnetoresistance effect in double perovskite La2NiMnO6. Applied Physics Letters, 2013, 102, .	3.3	64
69	Optical Study of Nanosize Effects on Charge Ordering in Half-Doped Manganites. Journal of Physical Chemistry C, 2013, 117, 8989-8996.	3.1	9
70	Radiation-Induced Inclusion Polymerization of Acrylonitrile in Urea Canals: Toward Synthesis of Completely Isotactic Polyacrylonitrile with Controlled Molecular Weight. Macromolecules, 2013, 46, 1765-1771.	4.8	17
71	Formation and Characteristics of Acrylonitrile/Urea Inclusion Compound. Chinese Journal of Chemical Physics, 2013, 26, 198-202.	1.3	1
72	Size-induced transition from nonâ€“Griffiths-like to Griffiths-like clustered phase above the Curie temperature. Europhysics Letters, 2012, 98, 57004.	2.0	10

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73	Synthesis, surface group modification of 3D MnV2O6 nanostructures and adsorption effect on Rhodamine B. Materials Research Bulletin, 2012, 47, 1725-1733.	5.2	22
74	Characterization upon electrical hysteresis and thermal diffusion of TiAl3O x dielectric film. Nanoscale Research Letters, 2011, 6, 557.	5.7	7
75	A-site ion-size effect on the transport and magnetic properties of Ce doping Pr0.3Ce0.2CaxSr0.5â‾xMnO3 (0â‰¤xâ‰¤0.25). Journal of Applied Physics, 2011, 109, .	2.5	8
76	Ferromagnetism Enhanced by Lattice Distortion in Fine La5/3Sr1/3NiO4 Particles. Journal of Superconductivity and Novel Magnetism, 2010, 23, 411-415.	1.8	0
77	Facile synthesis of Ca-doped manganite nanoparticles by a nonaqueous solâ€“gel method and their magnetic properties. Materials Chemistry and Physics, 2010, 120, 75-78.	4.0	17
78	Controllable Synthesis of Cu₂O Microcrystals via a Complexantâ€Assisted Synthetic Route. European Journal of Inorganic Chemistry, 2010, 2010, 1103-1109.	2.0	26
79	Electronic property and structure of double-doping Y1â‾2xPrxCaxBa2Cu3O7â‾Î´ with 0â©½xâ©½0.14. Physica C: Superconductivity and Its Applications, 2010, 470, 607-610.	1.2	4
80	Fabrication of Polyaniline/Silver Nanocomposite Under Gamma-ray Irradiation. Chinese Journal of Chemical Physics, 2010, 23, 701-706.	1.3	10
81	Nature of short-range ferromagnetic ordered state above TC in double perovskite La2NiMnO6. Applied Physics Letters, 2010, 96, .	3.3	56
82	Size-dependent magnetic properties and Raman spectra of La2NiMnO6 nanoparticles. Journal of Applied Physics, 2009, 106, .	2.5	97
83	Effects of Co and Mn doping on the structure and superconductivity of. Solid State Communications, 2008, 147, 27-30.	1.9	18
84	Particle size effects on stripe ordering and magnetic properties in nanosized La5/3Sr1/3NiO4. Solid State Communications, 2008, 147, 258-261.	1.9	3
85	Size-dependent exchange bias in half-doped manganite nanoparticles. Applied Physics Letters, 2008, 93, .	3.3	52
86	Interaction of Iron Atoms with Pristine and Defective (8, 0) Boron Nitride Nanotubes. Journal of Physical Chemistry C, 2008, 112, 13571-13578.	3.1	17
87	Theoretical Study of the Site-Dependent Stabilities of Intrinsic Defects in a Polar BN Nanotube with Finite Length. Journal of Physical Chemistry C, 2008, 112, 19353-19359.	3.1	10
88	Synthesis and Electrorheological Properties of LTNO-PS Composites. Chinese Journal of Chemical Physics, 2007, 20, 319-323.	1.3	0
89	Theoretical study of size-dependent properties of BN nanotubes with intrinsic defects. Physical Review B, 2007, 76, .	3.2	42
90	Evidence of short-range magnetic ordering above TC in the double perovskite La2NiMnO6. Applied Physics Letters, 2007, 91, 172505.	3.3	69

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91	Ferromagnetism inLaCoO3nanoparticles. Physical Review B, 2007, 76, .	3.2	62
92	Effects on transition temperature and Raman spectra of substitution of Cr and Al for Mg in MgB2. Physica Status Solidi (B): Basic Research, 2007, 244, 3244-3253.	1.5	2
93	Electrorheological properties and structure of (BaTiO(C2O4)2/NH2CONH2). Journal of Solid State Chemistry, 2006, 179, 1874-1878.	2.9	7
94	Superconductivity and the disorder effect in Ag and Al double doped MgB2. Journal of Applied Physics, 2006, 100, 023905.	2.5	12
95	Susceptibility behaviour and specific heat anomaly in single crystals of alanine and valine. Journal of Biological Physics, 1996, 22, 65-71.	1.5	9
96	Strongly Coupled Cobalt Diselenide Monolayers Selectively Catalyze Oxygen Reduction to H2O2 in an Acidic Environment. Angewandte Chemie, 0, , .	2.0	3