

C-L Chen

List of Publications by Year in descending order

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58
papers

1,203
citations

430442

18
h-index

395343

33
g-index

60
all docs

60
docs citations

60
times ranked

1810
citing authors

#	ARTICLE	IF	CITATIONS
1	Epitaxial ferroelectric Ba _{0.5} Sr _{0.5} TiO ₃ thin films for room-temperature tunable element applications. Applied Physics Letters, 1999, 75, 412-414.	1.5	169
2	Heterojunction of Zinc Blende/Wurtzite in Zn _{1-x} Cd _x S Solid Solution for Efficient Solar Hydrogen Generation: X-ray Absorption/Diffraction Approaches. ACS Applied Materials & Interfaces, 2015, 7, 22558-22569.	4.0	74
3	Growth and Investigation of Crystals of the New Superconductor FeSe from KCl Solutions. Crystal Growth and Design, 2009, 9, 3260-3264.	1.4	62
4	Evolution of Visible Photocatalytic Properties of Cu-Doped CeO ₂ Nanoparticles: Role of Cu ²⁺ -Mediated Oxygen Vacancies and the Mixed-Valence States of Ce Ions. ACS Sustainable Chemistry and Engineering, 2018, 6, 8536-8546.	3.2	55
5	Doping-driven structural phase transition and loss of superconductivity in $\text{M}_{1-x}\text{Fe}_x\text{Te}$. Physical Review B, 2010, 82, .	1.1	35
6	Mesoporous Fe-doped TiO ₂ sub-microspheres with enhanced photocatalytic activity under visible light illumination. Applied Catalysis B: Environmental, 2012, 127, 175-181.	10.8	48
7	Electrochemical properties and mechanism of CoMoO ₄ @NiWO ₄ core-shell nanoplates for high-performance supercapacitor electrode application studied via in situ X-ray absorption spectroscopy. Nanoscale, 2020, 12, 13388-13397.	2.8	44
8	Electronic properties of free-standing TiO ₂ nanotube arrays fabricated by electrochemical anodization. Physical Chemistry Chemical Physics, 2015, 17, 22064-22071.	1.3	42
9	Investigations on structural, magnetic and electronic structure of Gd-doped ZnO nanostructures synthesized using sol-gel technique. Applied Physics A: Materials Science and Processing, 2016, 122, 1.	1.1	35
10	Atomic and electronic aspects of the coloration mechanism of gasochromic Pt/Mo-modified V ₂ O ₅ smart films: an in situ X-ray spectroscopic study. Physical Chemistry Chemical Physics, 2016, 18, 5203-5210.	1.3	33
11	An ultra-fast response gasochromic device for hydrogen gas detection. Sensors and Actuators B: Chemical, 2013, 186, 193-198.	4.0	31
12	Coexistence of intrinsic and extrinsic origins of room temperature ferromagnetism in as implanted and thermally annealed ZnO films probed by x-ray absorption spectroscopy. Journal of Applied Physics, 2013, 113, .	1.1	30
13	Tuning the Electrical and Thermoelectric Properties of N Ion Implanted SrTiO ₃ Thin Films and Their Conduction Mechanisms. Scientific Reports, 2019, 9, 14486.	1.6	30
14	Surface engineered CoP/Co ₃ O ₄ heterojunction for high-performance bi-functional water splitting electro-catalysis. Nanoscale, 2021, 13, 20281-20288.	2.8	26
15	Plasmon-Induced Visible-Light Photocatalytic Activity of Au Nanoparticle-Decorated Hollow Mesoporous TiO ₂ : A View by X-ray Spectroscopy. Journal of Physical Chemistry C, 2018, 122, 6955-6962.	1.5	25
16	X-Ray spectra and electronic correlations of FeSe _{1-x} Te _x . Physical Chemistry Chemical Physics, 2011, 13, 15666.	1.3	24
17	Enhancement of Ferromagnetism in CeO ₂ Nanoparticles by Nonmagnetic Cr ³⁺ Doping. Journal of Physical Chemistry C, 2012, 116, 26570-26576.	1.5	24
18	Regulating Pseudo-Jahn-Teller Effect and Superstructure in Layered Cathode Materials for Reversible Alkali-Ion Intercalation. Journal of the American Chemical Society, 2022, 144, 7929-7938.	6.6	22

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19	Structural, magnetic and electronic properties of iron doped barium strontium titanate. RSC Advances, 2016, 6, 112363-112369.	1.7	21
20	Controlling Ni ²⁺ from the Surface to the Bulk by a New Cathode Electrolyte Interphase Formation on a Ni-Rich Layered Cathode in High-Safe and High-Energy-Density Lithium-Ion Batteries. ACS Applied Materials & Interfaces, 2021, 13, 7355-7369.	4.0	20
21	Magnetic and Superconducting Properties of Doped and Undoped Double Perovskite Sr ₂ YRuO ₆ . Journal of Superconductivity and Novel Magnetism, 2011, 24, 1249-1262.	0.8	19
22	Local geometric and electronic structures of gasochromic VO _x films. Physical Chemistry Chemical Physics, 2014, 16, 4699.	1.3	19
23	Role of 3d electrons in the rapid suppression of superconductivity in the dilute V doped spinel superconductor LiTi ₂ O ₄ . Superconductor Science and Technology, 2011, 24, 115007.	1.8	18
24	Structural, optical, and magnetic characterization of Co and N co-doped ZnO nanopowders. Journal of Materials Science, 2013, 48, 2618-2623.	1.7	18
25	Electronic and atomic structure of TiO ₂ anatase spines on sea-urchin-like microspheres by X-ray absorption spectroscopy. Applied Surface Science, 2020, 502, 144297.	3.1	18
26	Mechanism of light emission and electronic properties of a Eu ³⁺ -doped Bi ₂ SrTa ₂ O ₉ system determined by coupled X-ray absorption and emission spectroscopy. Journal of Materials Chemistry, 2011, 21, 17119.	6.7	17
27	Effect of Fe ion implantation on the thermoelectric properties and electronic structures of CoSb ₃ thin films. RSC Advances, 2019, 9, 36113-36122.	1.7	17
28	Synthesis of $\text{N}_x\text{S}_x\text{B}_2\text{O}_7$ thin films. Journal of Materials Chemistry, 2011, 21, 17119.	2.0	16
29	Tuning ferromagnetism in zinc oxide nanoparticles by chromium doping. Applied Nanoscience (Switzerland), 2015, 5, 975-981.	1.6	15
30	Orbital polarization of the unoccupied states in multiferroic LiCu_2O_2 . Physical Review B, 2008, 78, .	1.1	13
31	Electrochemical grinding-induced metallic assembly exploiting a facile conversion reaction route of metal oxides toward Li ions. Acta Materialia, 2021, 211, 116863.	3.8	12
32	Convective solution transport $\hat{a}\epsilon$ An improved technique for the growth of big crystals of the superconducting FeSe using KCl as solvent. Journal of Applied Physics, 2011, 110, 113919.	1.1	11
33	Operando X-ray spectroscopic observations of modulations of local atomic and electronic structures of color switching smart film. Physical Chemistry Chemical Physics, 2017, 19, 14224-14229.	1.3	11
34	Structural distortion and electronic states of Rb doped WO ₃ by X-ray absorption spectroscopy. RSC Advances, 2016, 6, 107871-107877.	1.7	10
35	Evolution of nanostructured single-phase CoSb ₃ thin films by low-energy ion beam induced mixing and their thermoelectric performance. Physical Chemistry Chemical Physics, 2017, 19, 24886-24895.	1.3	10
36	Soft X-ray absorption spectroscopic investigation of MnO ₂ /graphene nanocomposites used in supercapacitor. Catalysis Today, 2022, 388-389, 63-69.	2.2	9

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37	Conversion of methane to acetonitrile over GaN catalysts derived from gallium nitrate hydrate co-pyrolyzed with melamine, melem, or g-C ₃ N ₄ : the influence of nitrogen precursors. <i>Catalysis Science and Technology</i> , 2022, 12, 320-331.	2.1	9
38	Origin of intense blue-green emission in SrTiO_3 thin films with implanted nitrogen ions: An investigation by synchrotron-based experimental techniques. <i>Physical Review B</i> , 2021, 103, .	1.1	8
39	In Situ Co ²⁺ O Bond Reinforcement of the Artificial Cathode Electrolyte Interphase in Highly Delithiated LiCoO ₂ for High-Energy-Density Applications. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 46703-46716.	4.0	8
40	Structural evolution and Au nanoparticles enhanced photocatalytic activity of sea-urchin-like TiO ₂ microspheres: An X-ray absorption spectroscopy study. <i>Applied Surface Science</i> , 2021, 562, 150127.	3.1	8
41	Electronic structures associated with enhanced photocatalytic activity in nanogap-engineered g-C ₃ N ₄ /Ag@SiO ₂ hybrid nanostructures. <i>Applied Surface Science</i> , 2020, 514, 145907.	3.1	7
42	Irreversible Transition from GaO ₆ Octahedra to GaO ₄ Tetrahedra for Improved Electrochemical Stability in Ga-Doped Li(Ni _{0.9} Co _{0.1})O ₂ . <i>Inorganic Chemistry</i> , 2021, 60, 3015-3024.	1.9	7
43	Significant role of substrate temperature on the morphology, electronic structure and thermoelectric properties of SrTiO ₃ films deposited by pulsed laser deposition. <i>Surface and Coatings Technology</i> , 2021, 407, 126740.	2.2	6
44	Depressed lattice oxygen and improved thermoelectric performance in N-type Mg ₃ Bi ₂ -Sb via La-doping. <i>Materials Today Physics</i> , 2021, 21, 100485.	2.9	6
45	Photo generated charge transport studies of defects-induced shuttlecock-shaped ZnO/Ag hybrid nanostructures. <i>Nanotechnology</i> , 2021, 32, 305708.	1.3	5
46	Direct Cation ²⁺ Cation Interactions Induced by Mg Dopants for Electron ²⁺ Gas Behavior in Fe_2O_3 . <i>Journal of Physical Chemistry C</i> , 2021, 125, 12893-12902.	1.5	5
47	Excitation induced enhancement of spectral response and energy transfer mechanisms in Fe/Sm modified ZnO phosphors. <i>Journal of Applied Physics</i> , 2020, 128, 143104.	1.1	4
48	Reducing the thermal deformation of InSb crystal by using double-bounce HHRMs in the TPS tender X-ray absorption spectroscopy beamline. <i>Journal of Synchrotron Radiation</i> , 2021, 28, 1202-1209.	1.0	4
49	Sequential tunability of red and white light emissions in Sm-activated ZnO phosphors by up- and downconversion mechanisms. <i>Journal of Applied Physics</i> , 2021, 129, .	1.1	4
50	Selective doping for bond relaxation towards enhanced structural reversibility in Ni-rich layered cathodes. <i>Materials Today Chemistry</i> , 2022, 24, 100926.	1.7	4
51	Magnetic and electronic properties of CeCo ₂ studied by synchrotron radiation. <i>Physica Status Solidi (B): Basic Research</i> , 2007, 244, 4526-4529.	0.7	3
52	Nonstoichiometry of Li _x Cu ₂ O ₂ + $\hat{\Gamma}$ single crystal and its relation to magnetic ordering. <i>Journal of Applied Physics</i> , 2010, 108, .	1.1	3
53	Bandgap engineering in SrTiO ₃ thin films by electronic excitations: A synchrotron-based spectroscopic study. <i>Scripta Materialia</i> , 2021, 195, 113725.	2.6	3
54	Effect of Pb on the properties of Sr ₂ YRu _{1-x} Cu _x O ₆ crystals grown from PbO-PbF ₂ solutions at high temperatures. <i>Crystal Research and Technology</i> , 2007, 42, 558-561.	0.6	2

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55	Carbon encapsulation of magnetite nanoparticles enhances magnetism at room-temperature due to spin-polarized charge transfer. Applied Physics Letters, 2021, 118, .	1.5	2
56	Evidence of a structural phase transition in the triangular-lattice compound CuIr ₂ Te ₄ . Physical Review B, 2021, 103, .	1.1	1
57	Understanding the role of structural distortions on the transport properties of Ar ion irradiated SrTiO ₃ thin films: X-ray absorption investigation. Journal of Applied Physics, 2021, 130, .	1.1	1
58	On the local atomic structure for swift coloration of chromogenic thin film. Applied Surface Science, 2022, 593, 153351.	3.1	1