Zhi Luo

List of Publications by Year
in descending order

35 papers	474 citations	687363 13 h-index	677142 22 g-index
35 all docs	35 docs citations	35 times ranked	835 citing authors

#	Article	IF	Citations
1	Aggregated Silver Nanoparticles Based Surface-Enhanced Raman Scattering Enzyme-Linked Immunosorbent Assay for Ultrasensitive Detection of Protein Biomarkers and Small Molecules. Analytical Chemistry, 2015, 87, 5790-5796.	6.5	89
2	Nanoscale Insights into the Hydrogenation Process of Layered Î±-MoO₃. ACS Nano, 2016, 10, 1662-1670.	14.6	69
3	Rough surface Au@Ag coreâ€“shell nanoparticles to fabricating high sensitivity SERS immunochromatographic sensors. Journal of Nanobiotechnology, 2015, 13, 81.	9.1	46
4	Silver nanoparticle enhanced Raman scattering-based lateral flow immunoassays for ultra-sensitive detection of the heavy metal chromium. Nanotechnology, 2014, 25, 495501.	2.6	38
5	Photoelectric response of Schottky barrier in La0.7Ca0.3MnO3âˆ•Nb:SrTiO3 heterojunctions. Applied Physics Letters, 2008, 92, .	3.3	28
6	Effects of substrate on the dielectric and tunable properties of epitaxial SrTiO[sub 3] thin films. Journal of Applied Physics, 2006, 100, 114107.	2.5	23
7	Rectifying characteristics and photovoltaic effect in heterojunctions of La0.9Sr0.1MnO3âˆ•Nb-doped SrTiO3. Journal of Applied Physics, 2006, 100, 056104.	2.5	21
8	Insights into the Interfacial Properties of Low-Voltage CuPc Field-Effect Transistor. ACS Applied Materials & Interfaces, 2013, 5, 4960-4965.	8.0	21
9	First-order magnetic phase transition inLaFe11.7Si1.3studied using MÃ¶ssbauer spectroscopy. Physical Review B, 2004, 69, .	3.2	20
10	Simultaneous inverse design continuous and discrete parameters of nanophotonic structures via back-propagation inverse neural network. Optics Communications, 2021, 483, 126641.	2.1	18
11	A simple way to synthesize large-scale Cu₂O/Ag nanoflowers for ultrasensitive surface-enhanced Raman scattering detection. Nanotechnology, 2018, 29, 115703.	2.6	14
12	Rectifying characteristics and transport behavior of SrTiO3âˆ’Î´(110)âˆ•p-Si (100) heterojunctions. Applied Physics Letters, 2007, 91, 062105.	3.3	13
13	Au@Ag nanoparticle sensor for sensitive and rapid detection of glucose. New Journal of Chemistry, 2021, 45, 3059-3066.	2.8	13
14	Preparation of CuO Nanowires/Ag Composite Substrate and Study on SERS Activity. Plasmonics, 2021, 16, 1059-1070.	3.4	8
15	MÃ¶ssbauer effect probe of field-induced magnetic phase transitionin LaFe13âˆ’xSix intermetallic compounds. Applied Physics Letters, 2004, 85, 1745-1747.	3.3	7
16	Hybrid modelling routine for metalâ€oxide TFTs based on particle swarm optimisation and artificial neural network. Electronics Letters, 2020, 56, 453-456.	1.0	7
17	Compact modeling of metal-oxide TFTs based on artificial neural network and improved particle swarm optimization. Journal of Computational Electronics, 2021, 20, 1043-1049.	2.5	6
18	Rectifying characteristics and magnetoresistance in La0.9Sr0.1MnO3/Nb-doped SrTiO3 heterojunctions. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2007, 144, 109-112.	3.5	4

#	Article	IF	Citations
19	Boosted thermoelectric properties of molybdenum oxide thin films deposited on Si substrates. Modern Physics Letters B, 2019, 33, 1950016.	1.9	4
20	Fast inverse design of nanophotonics using differential evolution and back-propagation. Optics Communications, 2022, 514, 128155.	2.1	4
21	Magnetic properties of Nd 0.5 Pb 0.5- x Sr x MnO 3 materials. Chinese Physics B, 2003, 12, 789-791.	1.3	3
22	Abnormal electroresistance effect induced by electric currents in La0.9Ba0.1MnO3 thin films. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2007, 144, 113-116.	3.5	3
23	Transport properties of Pr0.7Ca0.3MnO3/Nb:SrTiO3 heterojunctions. Physica B: Condensed Matter, 2011, 406, 3104-3107.	2.7	3
24	Resistive Switching in Perovskite-Oxide Capacitor-Type Devices. IEEE Transactions on Magnetics, 2014, 50, 1-4.	2.1	3
25	Effect of applied magnetic field on the rectifying characteristics in self-doped La0.9MnO3âˆ•0.8wt%Nbâ€“SrTiO3 heteroepitaxial junctions. Journal of Applied Physics, 2008, 103, 07A913.	2.5	2
26	Anomalous temperature and magnetic field dependences of currentâ€“voltage characteristics in Pr0.6Ca0.4MnO3/Nb-doped SrTiO3heterojunctions. Journal Physics D: Applied Physics, 2010, 43, 175003.	2.8	2
27	Multi-level resistive switching characteristics of W/Co:TiO 2 /fluorine-doped tin oxide (FTO) structures. Solid-State Electronics, 2017, 131, 34-38.	1.4	2
28	Transmission of light through slits array in a metalâ€“insulatorâ€“metal structure. Optics Communications, 2017, 383, 165-168.	2.1	2
29	THE STRUCTURE AND TRANSPORT PROPERTIES OF La_{0.9}Sr_{0.1}MnO₃. Surface Review and Letters, 2007, 14, 813-816.	1.1	1
30	TEM STUDY OF THE MICROSTRUCTURE AND INTERFACES IN YBa₂Cu₃O_y THIN FILMS GROWN ON SILICON WITH A Eu₂CuO₄/Y-ZrO₂ BI-LAYER BUFFER. Surface Review and Letters, 2007, 14, 751-754.	1.1	0
31	SUPERCONDUCTIVITY AND CRYSTALLINITY IN EPITAXIAL THIN FILMS OF YBa2Cu3Oy GROWN ON Eu2CuO4/YSZ DOUBLE BUFFERED SILICON. International Journal of Modern Physics B, 2007, 21, 3263-3265.	2.0	0
32	Effect of Mn Doping on Structural and Optical Properties of ZnO Thin Films Prepared on Glass Substrates by Sol-Gel Method. Advanced Materials Research, 2013, 750-752, 1038-1043.	0.3	0
33	Investigating the Uneven Current Injection in Perovskite-Based Thin Film Bipolar Resistance Switching Devices by Thermal Imaging. IEEE Transactions on Magnetics, 2014, 50, 1-4.	2.1	0
34	The fabrication of large-area and uniform bilayer MoS2 thin films. , 2017, , .		0
35	Dependence of Mobility on the Temperature in Organic Thin Film Transistors. , 2019, , .		0