

# Zhi Luo

## List of Publications by Year in descending order

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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	Fast inverse design of nanophotonics using differential evolution and back-propagation. Optics Communications, 2022, 514, 128155.	2.1	4
2	Simultaneous inverse design continuous and discrete parameters of nanophotonic structures via back-propagation inverse neural network. Optics Communications, 2021, 483, 126641.	2.1	18
3	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
4	Preparation of CuO Nanowires/Ag Composite Substrate and Study on SERS Activity. Plasmonics, 2021, 16, 1059-1070.	3.4	8
5	Au@Ag nanoparticle sensor for sensitive and rapid detection of glucose. New Journal of Chemistry, 2021, 45, 3059-3066.	2.8	13
6	Hybrid modelling routine for metal-oxide TFTs based on particle swarm optimisation and artificial neural network. Electronics Letters, 2020, 56, 453-456.	1.0	7
7	Dependence of Mobility on the Temperature in Organic Thin Film Transistors. , 2019, , .		0
8	Boosted thermoelectric properties of molybdenum oxide thin films deposited on Si substrates. Modern Physics Letters B, 2019, 33, 1950016.	1.9	4
9	A simple way to synthesize large-scale Cu <sub>2</sub> O/Ag nanoflowers for ultrasensitive surface-enhanced Raman scattering detection. Nanotechnology, 2018, 29, 115703.	2.6	14
10	Multi-level resistive switching characteristics of W/Co:TiO <sub>2</sub> /fluorine-doped tin oxide (FTO) structures. Solid-State Electronics, 2017, 131, 34-38.	1.4	2
11	Transmission of light through slits array in a metal-insulator-metal structure. Optics Communications, 2017, 383, 165-168.	2.1	2
12	The fabrication of large-area and uniform bilayer MoS <sub>2</sub> thin films. , 2017, , .		0
13	Nanoscale Insights into the Hydrogenation Process of Layered $\pm$ -MoO <sub>3</sub> . ACS Nano, 2016, 10, 1662-1670.	14.6	69
14	Rough surface Au@Ag core-shell nanoparticles to fabricating high sensitivity SERS immunochromatographic sensors. Journal of Nanobiotechnology, 2015, 13, 81.	9.1	46
15	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
16	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
17	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
18	Resistive Switching in Perovskite-Oxide Capacitor-Type Devices. IEEE Transactions on Magnetics, 2014, 50, 1-4.	2.1	3

#	ARTICLE	IF	CITATIONS
19	Insights into the Interfacial Properties of Low-Voltage CuPc Field-Effect Transistor. ACS Applied Materials & Interfaces, 2013, 5, 4960-4965.	8.0	21
20	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
21	Transport properties of Pr <sub>0.7</sub> Ca <sub>0.3</sub> MnO <sub>3</sub> /Nb:SrTiO <sub>3</sub> heterojunctions. Physica B: Condensed Matter, 2011, 406, 3104-3107.	2.7	3
22	Anomalous temperature and magnetic field dependences of current-voltage characteristics in Pr <sub>0.6</sub> Ca <sub>0.4</sub> MnO <sub>3</sub> /Nb-doped SrTiO <sub>3</sub> heterojunctions. Journal Physics D: Applied Physics, 2010, 43, 175003.	2.8	2
23	Effect of applied magnetic field on the rectifying characteristics in self-doped La <sub>0.9</sub> MnO <sub>3</sub> ~0.8wt%Nb~SrTiO <sub>3</sub> heteroepitaxial junctions. Journal of Applied Physics, 2008, 103, 07A913.	2.5	2
24	Photoelectric response of Schottky barrier in La <sub>0.7</sub> Ca <sub>0.3</sub> MnO <sub>3</sub> ~Nb:SrTiO <sub>3</sub> heterojunctions. Applied Physics Letters, 2008, 92, .	3.3	28
25	TEM STUDY OF THE MICROSTRUCTURE AND INTERFACES IN YBa <sub>2</sub> Cu <sub>3</sub> O <sub>y</sub> THIN FILMS GROWN ON SILICON WITH A Eu <sub>2</sub> CuO <sub>4</sub> /Y-ZrO <sub>2</sub> DOUBLE BUFFER. Surface Review and Letters, 2007, 14, 751-754.	1.1	0
26	SUPERCONDUCTIVITY AND CRYSTALLINITY IN EPITAXIAL THIN FILMS OF YBa <sub>2</sub> Cu <sub>3</sub> O <sub>y</sub> GROWN ON Eu <sub>2</sub> CuO <sub>4</sub> /YSZ DOUBLE BUFFERED SILICON. International Journal of Modern Physics B, 2007, 21, 3263-3265.	2.0	0
27	Rectifying characteristics and transport behavior of SrTiO <sub>3</sub> ~(110)~p-Si (100) heterojunctions. Applied Physics Letters, 2007, 91, 062105.	3.3	13
28	THE STRUCTURE AND TRANSPORT PROPERTIES OF La <sub>0.9</sub> Sr <sub>0.1</sub> MnO <sub>3</sub> . Surface Review and Letters, 2007, 14, 813-816.	1.1	1
29	Abnormal electroresistance effect induced by electric currents in La <sub>0.9</sub> Ba <sub>0.1</sub> MnO <sub>3</sub> thin films. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2007, 144, 113-116.	3.5	3
30	Rectifying characteristics and magnetoresistance in La <sub>0.9</sub> Sr <sub>0.1</sub> MnO <sub>3</sub> /Nb-doped SrTiO <sub>3</sub> heterojunctions. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2007, 144, 109-112.	3.5	4
31	Effects of substrate on the dielectric and tunable properties of epitaxial SrTiO <sub>3</sub> thin films. Journal of Applied Physics, 2006, 100, 114107.	2.5	23
32	Rectifying characteristics and photovoltaic effect in heterojunctions of La <sub>0.9</sub> Sr <sub>0.1</sub> MnO <sub>3</sub> ~Nb-doped SrTiO <sub>3</sub> . Journal of Applied Physics, 2006, 100, 056104.	2.5	21
33	First-order magnetic phase transition in LaFe <sub>11.7</sub> Si <sub>1.3</sub> studied using Mössbauer spectroscopy. Physical Review B, 2004, 69, .	3.2	20
34	Mössbauer effect probe of field-induced magnetic phase transition in LaFe <sub>13</sub> ~Six intermetallic compounds. Applied Physics Letters, 2004, 85, 1745-1747.	3.3	7
35	Magnetic properties of Nd <sub>0.5</sub> Pb <sub>0.5-x</sub> Sr <sub>x</sub> MnO <sub>3</sub> materials. Chinese Physics B, 2003, 12, 789-791.	1.3	3