# Hui Sun

List of Publications by Year
in descending order



| 47 | 665 | 471509 17 | 677142 22 |
|---|---|---|---|
| papers | citations | h-index | g-index |

| 47 | 47 | 47 | 658 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Effect of annealing temperature on the optoelectronic properties and structure of NiO films. Ceramics International, 2022, 48, 2820-2825. | 4.8 | 18 |
| 2 | Highly transparent and conductive p-type CuI films by optimized solid-iodination at room temperature. Nanotechnology, 2022, 33, 105706. | 2.6 | 6 |
| 3 | High power impulse magnetron sputtering growth processes for copper nitride thin film and its highly enhanced UV - visible photodetection properties. Journal of Alloys and Compounds, 2022, 896, 162924. | 5.5 | 8 |
| 4 | Periodic mesoporous organosilica coupled with chlorin e6 and catalase for enhanced photodynamic therapy to treat triple-negative breast cancer. Journal of Colloid and Interface Science, 2022, 610, 634-642. | 9.4 | 8 |
| 5 | Pico-molar level detection of copper ion with extraordinarily high response by Ti-doped copper nitride fabricated via high power impulse magnetron sputtering. Sensors and Actuators B: Chemical, 2022, 360, 131632. | 7.8 | 3 |
| 6 | Research Progress of p-Type Oxide Thin-Film Transistors. Materials, 2022, 15, 4781. | 2.9 | 11 |
| 7 | Review in optoelectronic properties of p-type CuCrO2 transparent conductive films. Surfaces and Interfaces, 2021, 22, 100824. | 3.0 | 18 |
| 8 | Optoelectronic properties of an AZO/Ag multilayer employed as a flexible electrode. Ceramics International, 2021, 47, 5671-5676. | 4.8 | 19 |
| 9 | Influence of carbon content on the mechanical properties of TiCNâ€“Cu nanocomposite coatings prepared by multi-arc ion plating. Vacuum, 2021, 187, 110139. | 3.5 | 18 |
| 10 | Tuning the Electrical Properties of NiO Thin Films by Stoichiometry and Microstructure. Coatings, 2021, 11, 697. | 2.6 | 1 |
| 11 | Influence of annealing temperature on the optoelectronic properties of ITZO thin films. Nanotechnology, 2021, 32, 405701. | 2.6 | 2 |
| 12 | Research Progress of Transparent Electrode Materials with Sandwich Structure. Materials, 2021, 14, 4097. | 2.9 | 6 |
| 13 | In-Sn-Zn Oxide Nanocomposite Films with Enhanced Electrical Properties Deposited by High-Power Impulse Magnetron Sputtering. Nanomaterials, 2021, 11, 2016. | 4.1 | 4 |
| 14 | Optoelectronic properties of p-type NiO films deposited by direct current magnetron sputtering versus high power impulse magnetron sputtering. Applied Surface Science, 2020, 508, 145106. | 6.1 | 30 |
| 15 | Structure, mechanical and tribological properties, and oxidation resistance of TaC/a-C:H films deposited by high power impulse magnetron sputtering. Ceramics International, 2020, 46, 24986-25000. | 4.8 | 14 |
| 16 | Mechanical properties, thermal stability and oxidation resistance of HfC/a-C:H films deposited by HiPIMS. Journal of Alloys and Compounds, 2020, 847, 156538. | 5.5 | 10 |
| 17 | p-type semi-transparent conductive NiO films with high deposition rate produced by superimposed high power impulse magnetron sputtering. Ceramics International, 2020, 46, 27695-27701. | 4.8 | 10 |
| 18 | Transparent Conductive p-Type Cuprous Oxide Films in Vis-NIR Region Prepared by Ion-Beam Assisted DC Reactive Sputtering. Coatings, 2020, 10, 473. | 2.6 | 9 |

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|---|---|---|---|
| 19 | The Optoelectronic Properties of p-Type Cr-Deficient Cu[Cr0.95â^'xMg0.05]O2 Films Deposited by Reactive Magnetron Sputtering. Materials, 2020, 13, 2376. | 2.9 | 6 |
| 20 | Research on adhesion strength and optical properties of SiC films obtained via RF magnetron sputtering. Chinese Journal of Physics, 2020, 64, 79-86. | 3.9 | 10 |
| 21 | Influence of power frequency on the performance of SiC thin films deposited by pulsed DC magnetron sputtering. Journal of Adhesion Science and Technology, 2019, 33, 2181-2190. | 2.6 | 7 |
| 22 | Influence of Sputtering Power on the Electrical Properties of In-Sn-Zn Oxide Thin Films Deposited by High Power Impulse Magnetron Sputtering. Coatings, 2019, 9, 715. | 2.6 | 6 |
| 23 | Contribution of enhanced ionization to the optoelectronic properties of p-type NiO films deposited by high power impulse magnetron sputtering. Journal of the European Ceramic Society, 2019, 39, 5285-5291. | 5.7 | 17 |
| 24 | Comparison of microstructural and optoelectronic properties of NiO:Cu thin films deposited by ion-beam assisted rf sputtering in different gas atmospheres. Thin Solid Films, 2019, 677, 103-108. | 1.8 | 8 |
| 25 | Optoelectronic properties of Cu3N thin films deposited by reactive magnetron sputtering and its diode rectification characteristics. Journal of Alloys and Compounds, 2019, 789, 428-434. | 5.5 | 29 |
| 26 | Enhanced photocatalytic activity by photo-Fenton reaction: towards TiO<sub>2</sub> nanotubes sensitized by Fe(III)-tartrate. Journal Physics D: Applied Physics, 2019, 52, 175302. | 2.8 | 2 |
| 27 | Light enhanced moisture degradation of perovskite solar cell material CH<sub>3</sub>NH<sub>3</sub>PbI<sub>3</sub>. Journal of Materials Chemistry A, 2019, 7, 27469-27474. | 10.3 | 37 |
| 28 | Electrical and magnetic properties of (Al, Co) co-doped ZnO films deposited by RF magnetron sputtering. Surface and Coatings Technology, 2019, 359, 390-395. | 4.8 | 20 |
| 29 | The adhesion strength and mechanical properties of SiC films deposited on SiAlON buffer layer by magnetron sputtering. Surface and Coatings Technology, 2019, 360, 116-120. | 4.8 | 10 |
| 30 | Synthesis and characterization of n-type NiO:Al thin films for fabrication of p-n NiO homojunctions. Journal Physics D: Applied Physics, 2018, 51, 105109. | 2.8 | 13 |
| 31 | High transmittance in IR region of conductive ITO/AZO multilayers deposited by RF magnetron sputtering. Ceramics International, 2018, 44, 6769-6774. | 4.8 | 27 |
| 32 | Impact of active layer thickness of nitrogen-doped Inâ€“Snâ€“Znâ€“O films on materials and thin film transistor performances. Journal Physics D: Applied Physics, 2018, 51, 175101. | 2.8 | 13 |
| 33 | p-type conductive NiOx: Cu thin films with high carrier mobility deposited by ion beam assisted deposition. Ceramics International, 2018, 44, 3291-3296. | 4.8 | 18 |
| 34 | The Influence of Oxygen Flow Ratio on the Optoelectronic Properties of p-Type Ni1â^'xO Films Deposited by Ion Beam Assisted Sputtering. Coatings, 2018, 8, 168. | 2.6 | 12 |
| 35 | p-type cuprous oxide thin films with high conductivity deposited by high power impulse magnetron sputtering. Ceramics International, 2017, 43, 6214-6220. | 4.8 | 25 |
| 36 | Microstructures and optoelectronic properties of nickel oxide films deposited by reactive magnetron sputtering at various working pressures of pure oxygen environment. Ceramics International, 2017, 43, S369-S375. | 4.8 | 30 |

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|---|---|---|---|
| 37 | Thickness-dependent optoelectronic properties of CuCr0.93Mg0.07O2 thin films deposited by reactive magnetron sputtering. Materials Science in Semiconductor Processing, 2017, 63, 295-302. | 4.0 | 12 |
| 38 | The electrical stability of In-doped ZnO thin films deposited by RF sputtering. Journal Physics D: Applied Physics, 2017, 50, 045102. | 2.8 | 10 |
| 39 | Ag composition gradient CuCr0.93Mg0.07O2/Ag/CuCr0.93Mg0.07O2 coatings with improved p-type optoelectronic performances. Journal of Materials Science, 2017, 52, 11537-11546. | 3.7 | 14 |
| 40 | Absorption Amelioration of Amorphous Si Film by Introducing Metal Silicide Nanoparticles. Nanoscale Research Letters, 2017, 12, 224. | 5.7 | 5 |
| 41 | High photodegradation ability of dyes by Fe(III)-tartrate/TiO2 nanotubular photocatalyst supported via photo-Fenton reaction. Journal of Photochemistry and Photobiology A: Chemistry, 2017, 334, 20-25. | 3.9 | 18 |
| 42 | Optoelectronic Properties and the Electrical Stability of Ga-Doped ZnO Thin Films Prepared via Radio Frequency Sputtering. Materials, 2016, 9, 987. | 2.9 | 14 |
| 43 | Optoelectronic properties of delafossite structure CuCr<sub>0.93</sub>Mg<sub>0.07</sub>O<sub>2</sub>sputter deposited coatings. Journal Physics D: Applied Physics, 2016, 49, 185105. | 2.8 | 26 |
| 44 | Microstructures and optoelectronic properties of CuxO films deposited by high-power impulse magnetron sputtering. Journal of Alloys and Compounds, 2016, 688, 672-678. | 5.5 | 22 |
| 45 | Towards delafossite structure of Cuâ€“Crâ€“O thin films deposited by reactive magnetron sputtering: Influence of substrate temperature onÂoptoelectronics properties. Vacuum, 2015, 114, 101-107. | 3.5 | 22 |
| 46 | Modification of TiO2 nanotubes by WO3 species for improving their photocatalytic activity. Applied Surface Science, 2015, 343, 181-187. | 6.1 | 37 |
| 47 | Design of flexible resistance sensor based on mesh convex microstructure. Journal Physics D: Applied Physics, 0, , . | 2.8 | 0 |