# Yunbin He

List of Publications by Year
in descending order



| 206 | 6,583 | 66315 | 85498 |
|---|---|---|---|
| papers | citations | 42 h-index | 71 g-index |

| 208 | 208 | 208 | 7714 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Local ordering and electronic signatures of submonolayer water on anatase TiO2(101). Nature Materials, 2009, 8, 585-589. | 13.3 | 298 |
| 2 | Structural properties and bandgap bowing of ZnO1â^'xSx thin films deposited by reactive sputtering. Applied Physics Letters, 2004, 85, 4929-4931. | 1.5 | 235 |
| 3 | Evidence for the Predominance of Subsurface Defects on Reduced Anatase<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>TiO</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:mo stretchy="false">(</mml:mo><mml:mn>101</mml:mn><mml:mo) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 647 Td (stretchy="false | 2.9 | 232 |
| 4 | Self-Assembly of a Hexagonal Boron Nitride Nanomesh on Ru(0001). Langmuir, 2007, 23, 2928-2931. | 1.6 | 216 |
| 5 | Influence of Subsurface Defects on the Surface Reactivity of TiO<sub>2</sub>: Water on Anatase (101). Journal of Physical Chemistry C, 2010, 114, 1278-1284. | 1.5 | 206 |
| 6 | Recent advances in lead-free dielectric materials for energy storage. Materials Research Bulletin, 2019, 113, 190-201. | 2.7 | 189 |
| 7 | High recoverable energy density over a wide temperature range in Sr modified (Pb,La)(Zr,Sn,Ti)O3 antiferroelectric ceramics with an orthorhombic phase. Applied Physics Letters, 2016, 109, . | 1.5 | 149 |
| 8 | Gold nanoparticles directly modified glassy carbon electrode for non-enzymatic detection of glucose. Applied Surface Science, 2014, 288, 524-529. | 3.1 | 130 |
| 9 | Direct Electrodeposition of Gold Nanostructures onto Glassy Carbon Electrodes for Non-enzymatic Detection of Glucose. Electrochimica Acta, 2014, 132, 524-532. | 2.6 | 124 |
| 10 | Single-step electrochemical deposition of high performance Au-graphene nanocomposites for nonenzymatic glucose sensing. Sensors and Actuators B: Chemical, 2015, 220, 331-339. | 4.0 | 119 |
| 11 | Synthesis of highly dispersed Pt nanoclusters anchored graphene composites and their application for non-enzymatic glucose sensing. Electrochimica Acta, 2015, 157, 149-157. | 2.6 | 118 |
| 12 | Synthesis of Ptâ€“Pd bimetallic nanoparticles anchored on graphene for highly active methanol electro-oxidation. Journal of Power Sources, 2014, 262, 279-285. | 4.0 | 108 |
| 13 | Graphene-templated synthesis of palladium nanoplates as novel electrocatalyst for direct methanol fuel cell. Applied Surface Science, 2019, 466, 385-392. | 3.1 | 106 |
| 14 | Bottom-Up Synthesis of Metalated Carbyne. Journal of the American Chemical Society, 2016, 138, 1106-1109. | 6.6 | 104 |
| 15 | The 2Ã—1 reconstruction of the rutile TiO2(011) surface: A combined density functional theory, X-ray diffraction, and scanning tunneling microscopy study. Surface Science, 2009, 603, 138-144. | 0.8 | 99 |
| 16 | Ru(0001) Model Catalyst under Oxidizing and Reducing Reaction Conditions:Â In-Situ High-Pressure Surface X-ray Diffraction Study. Journal of Physical Chemistry B, 2005, 109, 21825-21830. | 1.2 | 89 |
| 17 | Effects of composition and temperature on energy storage properties of (Pb,La)(Zr,Sn,Ti)O3 antiferroelectric ceramics. Ceramics International, 2017, 43, 11428-11432. | 2.3 | 86 |
| 18 | Bismuth ferrite materials for solar cells: Current status and prospects. Materials Research Bulletin, 2019, 110, 39-49. | 2.7 | 86 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Generalized Selfâ€Doping Engineering towards Ultrathin and Largeâ€Sized Twoâ€Dimensional Homologous Perovskites. Angewandte Chemie - International Edition, 2017, 56, 14893-14897. | 7.2 | 81 |
| 20 | Oxidation of Ir(111): From Oâ^'Irâ^'O Trilayer to Bulk Oxide Formation. Journal of Physical Chemistry C, 2008, 112, 11946-11953. | 1.5 | 77 |
| 21 | Energy storage characteristics of (Pb,La)(Zr,Sn,Ti)O3 antiferroelectric ceramics with high Sn content. Applied Physics Letters, 2018, 113, . | 1.5 | 77 |
| 22 | Facile synthesis of palladiumâ€“graphene nanocomposites and their catalysis for electro-oxidation of methanol and ethanol. Electrochimica Acta, 2013, 109, 570-576. | 2.6 | 75 |
| 23 | Mixed valence CoCuMnOx spinel nanoparticles by sacrificial template method with enhanced ORR performance. Applied Surface Science, 2019, 487, 1145-1151. | 3.1 | 75 |
| 24 | Hall effect and surface characterization of Cu2S and CuS films deposited by RF reactive sputtering. Physica B: Condensed Matter, 2001, 308-310, 1069-1073. | 1.3 | 73 |
| 25 | Influence of growth temperature on the characteristics of Î²-Ga2O3 epitaxial films and related solar-blind photodetectors. Applied Surface Science, 2019, 489, 101-109. | 3.1 | 73 |
| 26 | Electrochemical co-deposition synthesis of Au-ZrO2-graphene nanocomposite for a nonenzymatic methyl parathion sensor. Analytica Chimica Acta, 2019, 1072, 25-34. | 2.6 | 70 |
| 27 | Highly sensitive nitrite sensor based on AuNPs/RGO nanocomposites modified graphene electrochemical transistors. Biosensors and Bioelectronics, 2019, 146, 111751. | 5.3 | 69 |
| 28 | Generalized Selfâ€Doping Engineering towards Ultrathin and Largeâ€Sized Twoâ€Dimensional Homologous Perovskites. Angewandte Chemie, 2017, 129, 15089-15093. | 1.6 | 65 |
| 29 | Flexible dielectric nanocomposites with simultaneously large discharge energy density and high energy efficiency utilizing (Pb,La)(Zr,Sn,Ti)O<sub>3</sub> antiferroelectric nanoparticles as fillers. Journal of Materials Chemistry A, 2019, 7, 13473-13482. | 5.2 | 65 |
| 30 | Highly Sensitive and Tunable Self-Powered UV Photodetectors Driven Jointly by p-n Junction and Ferroelectric Polarization. ACS Applied Materials & Interfaces, 2020, 12, 53957-53965. | 4.0 | 65 |
| 31 | Surface structure of Sn-doped In<sub>2</sub>O<sub>3</sub>(111) thin films by STM. New Journal of Physics, 2008, 10, 125030. | 1.2 | 64 |
| 32 | Coaxialâ€Structured Weavable and Wearable Electroluminescent Fibers. Advanced Electronic Materials, 2017, 3, 1700401. | 2.6 | 63 |
| 33 | Efficient and clean synthesis of graphene supported platinum nanoclusters and its application in direct methanol fuel cell. Electrochimica Acta, 2012, 85, 84-89. | 2.6 | 58 |
| 34 | Multi-component ZnO alloys: Bandgap engineering, hetero-structures, and optoelectronic devices. Materials Science and Engineering Reports, 2022, 147, 100661. | 14.8 | 58 |
| 35 | Highly Flexible and Bright Electroluminescent Devices Based on Ag Nanowire Electrodes and Topâ€Emission Structure. Advanced Electronic Materials, 2017, 3, 1600535. | 2.6 | 54 |
| 36 | Raman studies of the intermediate tin-oxide phase. Physical Review Materials, 2017, 1, . | 0.9 | 54 |

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|---|---|---|---|
| 37 | Complex Growth of NanoAu on BN Nanomeshes Supported by Ru(0001). Journal of Physical Chemistry C, 2008, 112, 8147-8152. | 1.5 | 51 |
| 38 | Enhanced photocatalytic property of BiFeO3/N-doped graphene composites and mechanism insight. Applied Surface Science, 2017, 396, 879-887. | 3.1 | 50 |
| 39 | Enhanced photovoltaic effect in Ca and Mn co-doped BiFeO3 epitaxial thin films. Applied Surface Science, 2020, 530, 147194. | 3.1 | 50 |
| 40 | Platinum nanoparticles decorated dendrite-like gold nanostructure on glassy carbon electrodes for enhancing electrocatalysis performance to glucose oxidation. Applied Surface Science, 2016, 384, 58-64. | 3.1 | 49 |
| 41 | Superior energy-storage properties in (Pb,La)(Zr,Sn,Ti)O3 antiferroelectric ceramics with appropriate La content. Ceramics International, 2019, 45, 11375-11381. | 2.3 | 49 |
| 42 | Solubility limits and phase structures in epitaxial ZnOS alloy films grown by pulsed laser deposition. Journal of Alloys and Compounds, 2012, 534, 81-85. | 2.8 | 48 |
| 43 | Polycrystalline SnO2 films grown by chemical vapor deposition on quartz glass. Vacuum, 2015, 122, 347-352. | 1.6 | 47 |
| 44 | SnO2 epitaxial films with varying thickness on c-sapphire: Structure evolution and optical band gap modulation. Applied Surface Science, 2017, 423, 611-618. | 3.1 | 42 |
| 45 | Anatase TiO2 single crystals with dominant {0â€¯0â€¯1} facets: Synthesis, shape-control mechanism and photocatalytic activity. Applied Surface Science, 2018, 444, 267-275. | 3.1 | 42 |
| 46 | Lead-free In2O3-doped (Bi0.5Na0.5)0.93Ba0.07TiO3 ceramics synthesized by direct reaction sintering. Applied Physics Letters, 2007, 90, 182903. | 1.5 | 41 |
| 47 | Novel synthesis of core-shell Au-Pt dendritic nanoparticles supported on carbon black for enhanced methanol electro-oxidation. Applied Surface Science, 2018, 433, 840-846. | 3.1 | 39 |
| 48 | A numerical simulation study of CuInS2 solar cells. Thin Solid Films, 2014, 550, 649-653. | 0.8 | 38 |
| 49 | Highâ€Performance Smallâ€Amount Fe<sub>2</sub>O<sub>3</sub>â€Doped (K,Na)NbO<sub>3</sub>â€Based Leadâ€Free Piezoceramics with Irregular Phase Evolution. Journal of the American Ceramic Society, 2016, 99, 2341-2346. | 1.9 | 38 |
| 50 | High electrocatalytic performance of a graphene-supported PtAu nanoalloy for methanolÂoxidation. International Journal of Hydrogen Energy, 2018, 43, 12803-12810. | 3.8 | 37 |
| 51 | Insight into the structural evolution during TiN film growth via atomic resolution TEM. Journal of Alloys and Compounds, 2018, 754, 257-267. | 2.8 | 36 |
| 52 | Preparation and characterization of highly (112)-oriented CuInS2 films deposited by a one-stage RF reactive sputtering process. Thin Solid Films, 2003, 431-432, 231-236. | 0.8 | 35 |
| 53 | Heteroepitaxial growth of CuInS2 thin films on sapphire by radio frequency reactive sputtering. Applied Physics Letters, 2003, 83, 1743-1745. | 1.5 | 35 |
| 54 | Novel graphene electrochemical transistor with ZrO2/rGO nanocomposites functionalized gate electrode for ultrasensitive recognition of methyl parathion. Sensors and Actuators B: Chemical, 2021, 328, 128936. | 4.0 | 34 |

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|---|---|---|---|
| 55 | Nucleation and Growth of 1D Water Clusters on Rutile TiO<sub>2</sub>(011)-2Ã—1. Journal of Physical Chemistry C, 2009, 113, 10329-10332. | 1.5 | 33 |
| 56 | Ultrahigh Energy Efficiency and Large Discharge Energy Density in Flexible Dielectric Nanocomposites with Pb<sub>0.97</sub>La<sub>0.02</sub>(Zr<sub>0.5</sub>Sn<sub>x</sub>Ti<sub>0.5â€“x</sub>)O<sub>3</sub> Antiferroelectric Nanofillers. ACS Applied Materials & Interfaces, 2020, 12, 12847-12856. | 4.0 | 33 |
| 57 | Long-term stability of Ru-based protection layers in extreme ultraviolet lithography: A surface science approach. Journal of Vacuum Science & Technology B, 2007, 25, 1123. | 1.3 | 31 |
| 58 | Effects of crystallite structure and interface band alignment on the photocatalytic property of bismuth ferrite/ (N-doped) graphene composites. Journal of Alloys and Compounds, 2016, 672, 497-504. | 2.8 | 31 |
| 59 | Structural and optical characterization of RF reactively sputtered CuInS2 thin films. Thin Solid Films, 2002, 403-404, 62-65. | 0.8 | 30 |
| 60 | (Pb,Sm)(Zr,Sn,Ti)O<sub>3</sub> Multifunctional Ceramics with Large Electricâ€Fieldâ€Induced Strain and Highâ€Energy Storage Density. Journal of the American Ceramic Society, 2016, 99, 3853-3856. | 1.9 | 30 |
| 61 | A novel electrochemical sensor via Zr-based metal organic frameworkâ€“graphene for pesticide detection. Journal of Materials Science, 2021, 56, 19060-19074. | 1.7 | 30 |
| 62 | Greatly enhanced photocurrent in inorganic perovskite [KNbO<sub>3</sub>]<sub>0.9</sub>[BaNi<sub>0.5</sub>Nb<sub>0.5</sub>O<sub>3â€“δ</sub>]<sub>0.1</sub> ferroelectric thinâ€film solar cell. Journal of the American Ceramic Society, 2018, 101, 4892-4898. | 3.9 | 29 |
| 63 | On the composition dependence of ZnO1â^'x S x. Physica Status Solidi C: Current Topics in Solid State Physics, 2004, 1, 694-697. | 0.8 | 28 |
| 64 | Effects of the film thickness and poling electric field on photovoltaic performances of (Pb,La)(Zr,Ti)O3 ferroelectric thin film-based devices. Ceramics International, 2020, 46, 4148-4153. | 2.3 | 28 |
| 65 | High-performance Pt/Ti3C2Tx MXene based graphene electrochemical transistor for selective detection of dopamine. Analytica Chimica Acta, 2022, 1201, 339653. | 2.6 | 28 |
| 66 | Non-invasive detection of glucoseviaa solution-gated graphene transistor. Analyst, The, 2020, 145, 887-896. | 1.7 | 27 |
| 67 | Self-driven ultraviolet photodetectors based on ferroelectric depolarization field and interfacial potential. Sensors and Actuators A: Physical, 2020, 315, 112267. | 2.0 | 27 |
| 68 | High energy density and efficiency in (Pb,La)(Zr,Sn,Ti)O3 antiferroelectric ceramics with high La3+ content and optimized Sn4+ content. Ceramics International, 2019, 45, 24419-24424. | 2.3 | 26 |
| 69 | Excellent energy storage properties over a wide temperature range under low driving electric fields in NBT-BSN lead-free relaxor ferroelectric ceramics. Ceramics International, 2021, 47, 4715-4721. | 2.3 | 26 |
| 70 | Highâ€Performance Selfâ€Powered Ultraviolet Photodetector based on Coupled Ferroelectric Depolarization Field and Heterojunction Builtâ€In Potential. Advanced Electronic Materials, 2021, 7, 2100717. | 2.6 | 26 |
| 71 | Oxidation and Reduction of Ultrathin Nanocrystalline Ru Films on Silicon:â€‰ Model System for Ru-Capped Extreme Ultraviolet Lithography Optics. Journal of Physical Chemistry C, 2007, 111, 10988-10992. | 1.5 | 25 |
| 72 | Controllable synthesis of palladium nanocubes/reduced graphene oxide composites and their enhanced electrocatalytic performance. Journal of Power Sources, 2015, 280, 422-429. | 4.0 | 25 |

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| 73 | Highly sensitive methyl parathion sensor based on Au-ZrO2 nanocomposites modified graphene electrochemical transistor. Electrochimica Acta, 2020, 357, 136836. | 2.6 | 25 |
| 74 | (001)-Textured Cu2S Thin Films Deposited by RF Reactive Sputtering. Japanese Journal of Applied Physics, 2002, 41, 4630-4634. | 0.8 | 24 |
| 75 | Structural, magnetic and nanomechanical properties in Ni-doped AlN films. Journal of Alloys and Compounds, 2014, 606, 55-60. | 2.8 | 24 |
| 76 | Versatile Model System for Studying Processes Ranging from Heterogeneous to Photocatalysis: Epitaxial RuO<sub>2</sub>(110) on TiO<sub>2</sub>(110). Journal of Physical Chemistry C, 2015, 119, 2692-2702. | 1.5 | 24 |
| 77 | A Freeâ€Standing and Selfâ€Healable 2D Supramolecular Material Based on Hydrogen Bonding: A Nanowire Array with Subâ€2â€nm Resolution. Small, 2017, 13, 1604077. | 5.2 | 24 |
| 78 | Structural and optical properties of single-phase ZnO1âˆ’S alloy films epitaxially grown by pulsed laser deposition. Journal of Alloys and Compounds, 2014, 587, 369-373. | 2.8 | 23 |
| 79 | Lead-free perovskite ferroelectric thin films with narrow direct band gap suitable for solar cell applications. Materials Research Bulletin, 2017, 95, 56-60. | 2.7 | 23 |
| 80 | Conjugated Ditertiary Ammonium Templated (100)-Oriented 2D Perovskite with Efficient Broad-Band Emission. Chemistry of Materials, 2021, 33, 4456-4464. | 3.2 | 23 |
| 81 | Pt nanoparticles modified Au dendritic nanostructures: Facile synthesis and enhanced electrocatalytic performance for methanol oxidation. International Journal of Hydrogen Energy, 2017, 42, 22100-22107. | 3.8 | 22 |
| 82 | High-temperature energy storage performances in (1-x)(Na0.50Bi0.50TiO3)-xBaZrO3 lead-free relaxor ceramics. Ceramics International, 2020, 46, 28652-28658. | 2.3 | 21 |
| 83 | Depolarization electric field and poling voltageâ€modulated Pb,La(Zr,Ti)O<sub>3</sub>â€based selfâ€powered ultraviolet photodetectors. Journal of the American Ceramic Society, 2021, 104, 928-935. | 1.9 | 21 |
| 84 | Enhancing visible-light transmittance while reducing phase transition temperature of VO2 by Hfâ€“W co-doping. Applied Physics Letters, 2021, 118, . | 1.5 | 21 |
| 85 | Monolayer SnX (X = O, S, Se): Two-Dimensional Materials with Low Lattice Thermal Conductivities and High Thermoelectric Figures of Merit. ACS Applied Energy Materials, 2022, 5, 7802-7812. | 2.5 | 20 |
| 86 | XTlO (XÂ=ÂK, Rb, Cs): Novel 2D semiconductors with high electron mobilities, ultra-low lattice thermal conductivities and high thermoelectric figures of merit at room temperature. Applied Surface Science, 2022, 599, 153924. | 3.1 | 20 |
| 87 | Influence of the preparation conditions on the properties of CuInS2 films deposited by one-stage RF reactive sputtering. Thin Solid Films, 2003, 431-432, 126-130. | 0.8 | 19 |
| 88 | Effects of the AlN buffer layer thickness on the properties of ZnO films grown on c-sapphire substrate by pulsed laser deposition. Journal of Alloys and Compounds, 2013, 554, 104-109. | 2.8 | 19 |
| 89 | Superior energy storage performance in Pb0.97La0.02(Zr0.50 Sn0.43Ti0.07)O3 antiferroelectric ceramics. Journal of Materials Research and Technology, 2019, 8, 3291-3296. | 2.6 | 19 |
| 90 | Highâ€energy density of Pb<sub>0.97</sub>La<sub>0.02</sub>(Zr<sub>0.50</sub>Sn<sub>0.45</sub>Ti<sub>0.05</sub>)O<sub>3</sub> antiferroelectric ceramics prepared by solâ€gel method with lowâ€cost dibutyltin oxide. Journal of the American Ceramic Society, 2019, 102, 1776-1783. | 1.9 | 19 |

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| 91 | Effects of oxygen pressure on PLD-grown Be and Cd co-substituted ZnO alloy films for ultraviolet photodetectors. Journal of Alloys and Compounds, 2020, 833, 155032. | 2.8 | 19 |
| 92 | Exploration on the origin of enhanced piezoelectric properties in transition-metal ion doped KNN based lead-free ceramics. Ceramics International, 2018, 44, 16745-16750. | 2.3 | 18 |
| 93 | Improving electrical properties and toughening of PZT-based piezoelectric ceramics for high-power applications via doping rare-earth oxides. Journal of Materials Research and Technology, 2020, 9, 14254-14266. | 2.6 | 18 |
| 94 | Correlating point defects with mechanical properties in nanocrystalline TiN thin films. Materials and Design, 2021, 207, 109844. | 3.3 | 18 |
| 95 | Ultra-wide-bandgap (ScGa)2O3 alloy thin films and related sensitive and fast responding solar-blind photodetectors. Journal of Alloys and Compounds, 2020, 834, 155036. | 2.8 | 17 |
| 96 | Interface control of tetragonal ferroelectric phase in ultrathin Si-doped HfO2 epitaxial films. Acta Materialia, 2021, 207, 116696. | 3.8 | 17 |
| 97 | Ag nanocubes monolayer-modified PDMS as flexible SERS substrates for pesticides sensing. Mikrochimica Acta, 2022, 189, . | 2.5 | 17 |
| 98 | Post-growth treatment effects on properties of CuInS2thin films deposited by RF reactive sputtering. Semiconductor Science and Technology, 2005, 20, 685-692. | 1.0 | 16 |
| 99 | RF reactive sputter deposition and characterization of transparent CuAlO2 thin films. Physica Status Solidi C: Current Topics in Solid State Physics, 2006, 3, 2895-2898. | 0.8 | 16 |
| 100 | Room temperature multiferroic properties and magnetocapacitance effect of modified ferroelectric Bi<sub>4</sub>Ti<sub>3</sub>O<sub>12</sub> ceramic. Journal Physics D: Applied Physics, 2013, 46, 425001. | 1.3 | 16 |
| 101 | Combined Fe and O effects on microstructural evolution and strengthening in Cuâ€“Fe nanocrystalline alloys. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2020, 772, 138800. | 2.6 | 16 |
| 102 | High-temperature energy storage properties in polyimide-based nanocomposites filled with antiferroelectric nanoparticles. Journal of Materials Research and Technology, 2020, 9, 11344-11350. | 2.6 | 16 |
| 103 | Nb-doped VO2 thin films with enhanced thermal sensing performance for uncooled infrared detection. Materials Research Bulletin, 2022, 146, 111615. | 2.7 | 16 |
| 104 | MgO-Supported Rhodium Particles and Films: Size, Morphology, and Reactivity. Journal of Physical Chemistry C, 2008, 112, 9040-9044. | 1.5 | 15 |
| 105 | Tuning the composition and optical band gap of pulsed laser deposited ZnO1â^'S alloy films by controlling the substrate temperature. Journal of Alloys and Compounds, 2014, 617, 413-417. | 2.8 | 15 |
| 106 | The influence of oxygen flow rate on properties of SnO2 thin films grown epitaxially on c-sapphire by chemical vapor deposition. Thin Solid Films, 2015, 594, 270-276. | 0.8 | 15 |
| 107 | Suppressed tanÎ´ and enhanced Qm in KCT and Ni2O3 co-modified [(K0.43Na0.57)0.94Li0.06][(Nb0.94Sb0.06)0.95Ta0.05O3 lead-free piezoelectric ceramics. Ceramics International, 2017, 43, 2537-2540. | 2.3 | 15 |
| 108 | Energy density and efficiency of scalable polymer nanocomposites utilizing core-shell PLZST@Al2O3 antiferroelectric fillers with dielectric gradient. Chemical Engineering Journal, 2022, 446, 136925. | 6.6 | 15 |

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| 109 | The S concentration dependence of lattice parameters and optical band gap of a-plane ZnOS grown epitaxially on r-plane sapphire. Journal of Alloys and Compounds, 2015, 630, 106-109. | 2.8 | 14 |
| 110 | In situ atomic-scale observation of oxidation and decomposition processes in nanocrystalline alloys. Nature Communications, 2018, 9, 946. | 5.8 | 14 |
| 111 | Nickel Adatoms Induced Tautomeric Dehydrogenation of Thymine Molecules on Au(111). ACS Nano, 2018, 12, 9033-9039. | 7.3 | 14 |
| 112 | Synthesis of a 2D phosphorus material in a MOF-based 2D nano-reactor. Chemical Science, 2018, 9, 5912-5918. | 3.7 | 14 |
| 113 | A gold electrode modified with a gold-graphene oxide nanocomposite for non-enzymatic sensing of glucose at near-neutral pH values. Mikrochimica Acta, 2019, 186, 722. | 2.5 | 14 |
| 114 | Superior ferroelectric photovoltaic properties in Fe -modified (Pb,La) (Zr,Ti)O3 thin film by improving the remnant polarization and reducing the band gap. Ceramics International, 2020, 46, 15061-15065. | 2.3 | 14 |
| 115 | Diamine tailored smooth and continuous perovskite single crystal with enhanced photoconductivity. Journal of Materials Chemistry C, 2021, 9, 1303-1309. | 2.7 | 14 |
| 116 | Formation of a Stable Guanidiniumâ€“Formamidinium Phase in Bismuth Chloride Perovskites with Broadband Emission. Chemistry of Materials, 2021, 33, 3258-3265. | 3.2 | 14 |
| 117 | Enhancing the properties of high-temperature BiScO3â€“PbTiO3 piezoceramics via Bi addition. Materials Research Bulletin, 2013, 48, 3072-3076. | 2.7 | 13 |
| 118 | The Effects of Ta Substitution and K/Na Ratio Variation on the Microstructure and Properties of (K,Na)NbO3-Based Lead Free Piezoelectric Ceramics. Journal of Electronic Materials, 2014, 43, 1424-1431. | 1.0 | 13 |
| 119 | Two-dimensional Ruddlesden-Popper perovskite nanosheets: Synthesis, optoelectronic properties and miniaturized optoelectronic devices. FlatChem, 2019, 17, 100116. | 2.8 | 13 |
| 120 | Carbon encapsulation of MoS2 nanosheets to tune their interfacial polarization and dielectric properties for electromagnetic absorption applications. Journal of Materials Chemistry C, 2021, 9, 537-546. | 2.7 | 13 |
| 121 | Intermolecular Hydrogen-Bonding Correlated Structure Distortion and Broadband White-Light Emission in 5-Ammonium Valeric Acid Templated Lead Chloride Perovskites. Crystal Growth and Design, 2021, 21, 5731-5739. | 1.4 | 13 |
| 122 | Au-PEDOT/rGO nanocomposites functionalized graphene electrochemical transistor for ultra-sensitive detection of acetaminophen in human urine. Analytica Chimica Acta, 2022, 1191, 339306. | 2.6 | 13 |
| 123 | Pulsed laser deposition of single-phase lead-free NKLNST thin films with K- and Na-excess targets. Journal of Alloys and Compounds, 2013, 567, 97-101. | 2.8 | 12 |
| 124 | Resistive switching in epitaxial BaTiO3 films grown on Nb-doped SrTiO3 by PLD. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2014, 188, 84-88. | 1.7 | 12 |
| 125 | Electronic-structure and thermodynamic properties of ZnS1âˆ’Se ternary alloys from the first-principles calculations. Computational Materials Science, 2018, 149, 386-396. | 1.4 | 12 |
| 126 | Accounting for the thermo-stability of PdHx (xÂ=Â1â€“3) by density functional theory. International Journal of Hydrogen Energy, 2018, 43, 18372-18381. | 3.8 | 12 |

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| 127 | High-performance amorphous BeZnO-alloy-based solar-blind ultraviolet photodetectors on rigid and flexible substrates. Journal of Alloys and Compounds, 2020, 831, 154819. | 2.8 | 12 |
| 128 | Achieving p-type conductivity in wide-bandgap SnO2 by a two-step process. Applied Physics Letters, 2021, 118, . | 1.5 | 12 |
| 129 | Structural properties and enhanced bandgap tunability of quaternary CdZnOS epitaxial films grown by pulsed laser deposition. Journal of Alloys and Compounds, 2015, 650, 748-752. | 2.8 | 11 |
| 130 | Facile synthesis of CuInS2 nanoparticles using different alcohol amines as solvent. Chemical Physics Letters, 2016, 647, 51-54. | 1.2 | 11 |
| 131 | Electronic structure and dynamic properties of two-dimensional W Mo1â^'S2 ternary alloys from first-principles calculations. Computational Materials Science, 2020, 182, 109797. | 1.4 | 11 |
| 132 | Evaporation crystallization of zero-dimensional guanidinium bismuth iodide perovskite single crystal for X-ray detection. Inorganic Chemistry Frontiers, 2022, 9, 494-500. | 3.0 | 11 |
| 133 | Polymer composites with high energy density and chargeâ€“discharge efficiency at high temperature using aluminum oxide particles. Journal of Materials Research and Technology, 2022, 18, 4367-4374. | 2.6 | 11 |
| 134 | Characterization of RF reactively sputtered Cuâ€“Inâ€“S thin films. Physica B: Condensed Matter, 2001, 308-310, 1074-1077. | 1.3 | 10 |
| 135 | Facile and Rapid Synthesis of Ultrafine PtPd Bimetallic Nanoparticles and Their High Performance toward Methanol Electrooxidation. Journal of Nanomaterials, 2014, 2014, 1-7. | 1.5 | 10 |
| 136 | Mild solution-based method for synthesizing wurtzite CuInS2 nanoplates at low temperature. Materials Letters, 2014, 123, 169-171. | 1.3 | 10 |
| 137 | Good conductivity of a single component polydiacetylene film. Organic Electronics, 2017, 49, 174-178. | 1.4 | 10 |
| 138 | Theoretical investigation of the structural, electronic, and thermodynamic properties of CdS1-xSex alloys. Journal of Applied Physics, 2018, 123, . | 1.1 | 10 |
| 139 | Pulsed laser deposited Be x Zn 1-x O 1-y S y quaternary alloy films: structure, composition, and band gap bowing. Applied Surface Science, 2018, 433, 674-679. | 3.1 | 10 |
| 140 | Pulsed laser deposition and characteristics of epitaxial non-polar m-plane ZnO1-xSx alloy films. Journal of Alloys and Compounds, 2019, 773, 443-448. | 2.8 | 10 |
| 141 | Codeposition of Platinum and Gold on Nickel Wire Electrodes via Galvanic Replacement Reactions for Electrocatalytic Oxidation of Alcohols. ACS Omega, 2021, 6, 18395-18403. | 1.6 | 10 |
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