

Liang Zhen

List of Publications by Year in descending order

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309
papers

10,968
citations

26630

56
h-index

51608

86
g-index

312
all docs

312
docs citations

312
times ranked

13303
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Formation of Uniform Fe ₃ O ₄ Hollow Spheres Organized by Ultrathin Nanosheets and Their Excellent Lithium Storage Properties. <i>Advanced Materials</i> , 2015, 27, 4097-4101. | 21.0 | 396 |
| 2 | Ternary Metal Phosphide with Triple-Layered Structure as a Low-Cost and Efficient Electrocatalyst for Bifunctional Water Splitting. <i>Advanced Functional Materials</i> , 2016, 26, 7644-7651. | 14.9 | 389 |
| 3 | Flow behavior and microstructures of superalloy 718 during high temperature deformation. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2008, 497, 479-486. | 5.6 | 227 |
| 4 | Monodisperse SnS ₂ Nanosheets for High-Performance Photocatalytic Hydrogen Generation. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 22370-22377. | 8.0 | 216 |
| 5 | Carrier Control of MoS ₂ Nanoflakes by Functional Self-Assembled Monolayers. <i>ACS Nano</i> , 2013, 7, 7795-7804. | 14.6 | 208 |
| 6 | Microstructure evolution during dynamic recrystallization of hot deformed superalloy 718. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2008, 486, 321-332. | 5.6 | 179 |
| 7 | Investigation of precipitation behavior and related hardening in AA 7055 aluminum alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2009, 500, 34-42. | 5.6 | 162 |
| 8 | Intrinsically Mn ²⁺ -Chelated Polydopamine Nanoparticles for Simultaneous Magnetic Resonance Imaging and Photothermal Ablation of Cancer Cells. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 16946-16952. | 8.0 | 153 |
| 9 | Photodiode-Like Behavior and Excellent Photoresponse of Vertical Si/Monolayer MoS ₂ Heterostructures. <i>Scientific Reports</i> , 2014, 4, 7186. | 3.3 | 141 |
| 10 | Deformation behavior and microstructure evolution of 7050 aluminum alloy during high temperature deformation. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2008, 488, 64-71. | 5.6 | 139 |
| 11 | Sulfurizing-Induced Hollowing of Co ₉ S ₈ Microplates with Nanosheet Units for Highly Efficient Water Oxidation. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 11634-11641. | 8.0 | 129 |
| 12 | Surface potential and interlayer screening effects of few-layer MoS ₂ nanoflakes. <i>Applied Physics Letters</i> , 2013, 102, . | 3.3 | 125 |
| 13 | Microwave absorption properties of FeNi ₃ submicrometre spheres and SiO ₂ @FeNi ₃ core-shell structures. <i>Journal Physics D: Applied Physics</i> , 2010, 43, 245003. | 2.8 | 116 |
| 14 | Carbon-Coated Nickel Phosphide Nanosheets as Efficient Dual-Electrocatalyst for Overall Water Splitting. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 27850-27858. | 8.0 | 113 |
| 15 | Precipitation behaviour of Al-Mg-Si alloys with high silicon content. <i>Journal of Materials Science</i> , 1997, 32, 1895-1902. | 3.7 | 111 |
| 16 | Co ₇ Fe ₃ and Co ₇ Fe ₃ @SiO ₂ Nanospheres with Tunable Diameters for High-Performance Electromagnetic Wave Absorption. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 21933-21941. | 8.0 | 109 |
| 17 | Synthesis of Single-Crystalline Niobate Nanorods via Ion-Exchange Based on Molten-Salt Reaction. <i>Journal of the American Chemical Society</i> , 2007, 129, 15444-15445. | 13.7 | 104 |
| 18 | Synthesis and characterization of single-crystalline MnFe ₂ O ₄ nanorods via a surfactant-free hydrothermal route. <i>Journal of Magnetism and Magnetic Materials</i> , 2008, 320, 2672-2675. | 2.3 | 104 |

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 19 | Hot deformation behavior of delta-processed superalloy 718. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2011, 528, 3218-3227. | 5.6 | 101 |
| 20 | Synthesis and Characterization of Single-Crystalline Alkali Titanate Nanowires. <i>Journal of the American Chemical Society</i> , 2005, 127, 11584-11585. | 13.7 | 99 |
| 21 | Room Temperature Synthesis of Hollow CdMoO ₄ Microspheres by a Surfactant-Free Aqueous Solution Route. <i>Journal of Physical Chemistry B</i> , 2006, 110, 23154-23158. | 2.6 | 97 |
| 22 | Hot working characteristics and dynamic recrystallization of delta-processed superalloy 718. <i>Journal of Alloys and Compounds</i> , 2009, 474, 341-346. | 5.5 | 97 |
| 23 | Ageing behavior and stress corrosion cracking resistance of a non-isothermally aged Al-Zn-Mg-Cu alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2014, 605, 167-175. | 5.6 | 97 |
| 24 | Encapsulating MnO nanoparticles within foam-like carbon nanosheet matrix for fast and durable lithium storage. <i>Nano Energy</i> , 2018, 50, 675-684. | 16.0 | 95 |
| 25 | Crystallization kinetics and phase transformation of poly(vinylidene fluoride) films incorporated with functionalized BaTiO ₃ nanoparticles. <i>Journal of Applied Polymer Science</i> , 2013, 129, 2940-2949. | 2.6 | 92 |
| 26 | Bifunctional WC-Supported RuO ₂ Nanoparticles for Robust Water Splitting in Acidic Media. <i>Angewandte Chemie - International Edition</i> , 2022, 61, . | 13.8 | 89 |
| 27 | Epitaxial Growth of Shape-Controlled Bi ₂ Te ₃ Te Heterogeneous Nanostructures. <i>Journal of the American Chemical Society</i> , 2010, 132, 17316-17324. | 13.7 | 87 |
| 28 | Room Temperature Synthesis, Growth Mechanism, Photocatalytic and Photoluminescence Properties of Cadmium Molybdate Core-Shell Microspheres. <i>Crystal Growth and Design</i> , 2009, 9, 1558-1568. | 3.0 | 86 |
| 29 | Giant electrocaloric effect in BaZr _{0.2} Ti _{0.8} O ₃ thick film. <i>Applied Physics Letters</i> , 2014, 105, . | 3.3 | 84 |
| 30 | Microstructure characterization of 7050 aluminum alloy during dynamic recrystallization and dynamic recovery. <i>Materials Characterization</i> , 2008, 59, 1185-1189. | 4.4 | 82 |
| 31 | Phase Transition Induced Synthesis of Layered/Spinel Heterostructure with Enhanced Electrochemical Properties. <i>Advanced Functional Materials</i> , 2017, 27, 1604349. | 14.9 | 80 |
| 32 | Controlled Synthesis of Calcium Tungstate Hollow Microspheres via Ostwald Ripening and Their Photoluminescence Property. <i>Journal of Physical Chemistry C</i> , 2008, 112, 19390-19398. | 3.1 | 79 |
| 33 | Synthesis of hexagonal Fe microflakes with excellent microwave absorption performance. <i>CrystEngComm</i> , 2012, 14, 6827. | 2.6 | 79 |
| 34 | A study on graphitization of diamond in copper-diamond composite materials. <i>Materials Letters</i> , 2004, 58, 146-149. | 2.6 | 77 |
| 35 | Effect of electroactive phase transformation on electron structure and dielectric properties of uniaxial stretching poly(vinylidene fluoride) films. <i>RSC Advances</i> , 2013, 3, 23730. | 3.6 | 76 |
| 36 | Resonance-antiresonance electromagnetic behavior in a disordered dielectric composite. <i>Applied Physics Letters</i> , 2007, 90, 142907. | 3.3 | 75 |

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 37 | Accelerated precipitation and growth of phases in an Al-Zn-Mg-Cu alloy processed by surface abrasion. <i>Acta Materialia</i> , 2017, 131, 233-245. | 7.9 | 71 |
| 38 | Synthesis, characterization and electromagnetic properties of Fe _{1-x} Cox alloy flower-like microparticles. <i>Journal of Magnetism and Magnetic Materials</i> , 2011, 323, 515-520. | 2.3 | 70 |
| 39 | DSC analyses of the precipitation behavior of two Al-Mg-Si alloys naturally aged for different times. <i>Materials Letters</i> , 1998, 37, 349-353. | 2.6 | 69 |
| 40 | Electromagnetic properties of FeNi alloy nanoparticles prepared by hydrogen-thermal reduction method. <i>Journal of Applied Physics</i> , 2008, 104, . | 2.5 | 69 |
| 41 | MOF-Derived Cu ₂ O/Cu Nanospheres Anchored in Nitrogen-Doped Hollow Porous Carbon Framework for Increasing the Selectivity and Activity of Electrochemical CO ₂ -to-Formate Conversion. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 7030-7037. | 8.0 | 69 |
| 42 | Room Temperature Synthesis of Hierarchical SrCO ₃ Architectures by a Surfactant-Free Aqueous Solution Route. <i>Crystal Growth and Design</i> , 2008, 8, 1734-1740. | 3.0 | 68 |
| 43 | Construction of FeP Hollow Nanoparticles Densely Encapsulated in Carbon Nanosheet Frameworks for Efficient and Durable Electrocatalytic Hydrogen Production. <i>Advanced Science</i> , 2019, 6, 1801490. | 11.2 | 68 |
| 44 | Hydrothermal synthesis and characterization of single-crystalline Fe ₃ O ₄ nanowires with high aspect ratio and uniformity. <i>Materials Letters</i> , 2007, 61, 3159-3162. | 2.6 | 67 |
| 45 | Glucose-Derived Carbonaceous Nanospheres for Photoacoustic Imaging and Photothermal Therapy. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 15904-15910. | 8.0 | 67 |
| 46 | NiSe ₂ pyramids deposited on N-doped graphene encapsulated Ni foam for high-performance water oxidation. <i>Journal of Materials Chemistry A</i> , 2017, 5, 3981-3986. | 10.3 | 67 |
| 47 | Shape- and Size-Controlled Synthesis of Calcium Molybdate Doughnut-Shaped Microstructures. <i>Journal of Physical Chemistry C</i> , 2009, 113, 16414-16423. | 3.1 | 66 |
| 48 | The effect of pre-aging on microstructure and tensile properties of Al-Mg-Si alloys. <i>Scripta Materialia</i> , 1997, 36, 1089-1094. | 5.2 | 65 |
| 49 | Elastic properties of suspended black phosphorus nanosheets. <i>Applied Physics Letters</i> , 2016, 108, . | 3.3 | 65 |
| 50 | Internal Biasing in Relaxor Ferroelectric Polymer to Enhance the Electrocaloric Effect. <i>Advanced Functional Materials</i> , 2015, 25, 5134-5139. | 14.9 | 64 |
| 51 | In Situ Growth of Sn-Doped Ni ₃ S ₂ Nanosheets on Ni Foam as High-Performance Electrocatalyst for Hydrogen Evolution Reaction. <i>ChemElectroChem</i> , 2017, 4, 594-600. | 3.4 | 64 |
| 52 | The effect of Cu and Sc on the localized corrosion resistance of Al-Zn-Mg-X alloys. <i>Journal of Alloys and Compounds</i> , 2019, 799, 1-14. | 5.5 | 63 |
| 53 | Aqueous Solution Synthesis of Cd(OH) ₂ Hollow Microspheres via Ostwald Ripening and Their Conversion to CdO Hollow Microspheres. <i>Journal of Physical Chemistry C</i> , 2008, 112, 14360-14366. | 3.1 | 62 |
| 54 | Deformation localization and recrystallization in TC4 alloy under impact condition. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2005, 395, 98-101. | 5.6 | 60 |

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|----|--|------|-----------|
| 55 | Hydrothermal synthesis of well-dispersed LiMnPO ₄ plates for lithium ion batteries cathode. <i>Electrochimica Acta</i> , 2013, 87, 303-308. | 5.2 | 60 |
| 56 | Molten salt synthesis of Na ₂ Ti ₃ O ₇ and Na ₂ Ti ₆ O ₁₃ one-dimensional nanostructures and their photocatalytic and humidity sensing properties. <i>CrystEngComm</i> , 2013, 15, 3448. | 2.6 | 60 |
| 57 | Stress relaxation behavior of an Al–Zn–Mg–Cu alloy in simulated age-forming process. <i>Journal of Materials Processing Technology</i> , 2014, 214, 775-783. | 6.3 | 59 |
| 58 | Understanding the phase transitions in spinel-layered-rock salt system: Criterion for the rational design of LLO/spinel nanocomposites. <i>Nano Energy</i> , 2017, 40, 566-575. | 16.0 | 58 |
| 59 | Liquid Exfoliation of Colloidal Rhenium Disulfide Nanosheets as a Multifunctional Theranostic Agent for In Vivo Photoacoustic/CT Imaging and Photothermal Therapy. <i>Small</i> , 2018, 14, e1703789. | 10.0 | 58 |
| 60 | Characterization of adiabatic shear bands in AM60B magnesium alloy under ballistic impact. <i>Materials Characterization</i> , 2011, 62, 496-502. | 4.4 | 56 |
| 61 | Solvothermal synthesis of Bi ₂ WO ₆ hollow structures with excellent visible-light photocatalytic properties. <i>Materials Letters</i> , 2013, 95, 117-120. | 2.6 | 56 |
| 62 | Tuning the Excitonic States in MoS ₂ /Graphene van der Waals Heterostructures via Electrochemical Gating. <i>Advanced Functional Materials</i> , 2016, 26, 293-302. | 14.9 | 56 |
| 63 | Tuning the pore structure of porous tin foam electrodes for enhanced electrochemical reduction of carbon dioxide to formate. <i>Chemical Engineering Journal</i> , 2019, 375, 122024. | 12.7 | 56 |
| 64 | Enhancement of strength and electrical conductivity for a dilute Al-Sc-Zr alloy via heat treatments and cold drawing. <i>Journal of Materials Science and Technology</i> , 2019, 35, 962-971. | 10.7 | 56 |
| 65 | Aqueous Solution Synthesis of CaF ₂ Hollow Microspheres via the Ostwald Ripening Process at Room Temperature. <i>ACS Applied Materials & Interfaces</i> , 2009, 1, 780-788. | 8.0 | 55 |
| 66 | Effect of Cu Content and Aging Conditions on Pitting Corrosion Damage of 7xxx Series Aluminum Alloys. <i>Journal of the Electrochemical Society</i> , 2015, 162, C150-C160. | 2.9 | 55 |
| 67 | Ternary SnS ₂ -xSex Alloys Nanosheets and Nanosheet Assemblies with Tunable Chemical Compositions and Band Gaps for Photodetector Applications. <i>Scientific Reports</i> , 2015, 5, 17109. | 3.3 | 54 |
| 68 | Highly reversible oxygen redox in layered compounds enabled by surface polyanions. <i>Nature Communications</i> , 2020, 11, 3411. | 12.8 | 54 |
| 69 | Facile synthesis of porous Cu-Sn alloy electrode with prior selectivity of formate in a wide potential range for CO ₂ electrochemical reduction. <i>Applied Catalysis B: Environmental</i> , 2021, 292, 120119. | 20.2 | 54 |
| 70 | Preparation of CoFe alloy nanoparticles with tunable electromagnetic wave absorption performance. <i>Journal of Magnetism and Magnetic Materials</i> , 2009, 321, 3702-3705. | 2.3 | 53 |
| 71 | Self-organized sheaf-like Fe ₃ O ₄ /C hierarchical microrods with superior lithium storage properties. <i>Nanoscale</i> , 2015, 7, 4411-4414. | 5.6 | 53 |
| 72 | Microstructure evolution of adiabatic shear bands in AM60B magnesium alloy under ballistic impact. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2010, 527, 5728-5733. | 5.6 | 52 |

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|----|--|------|-----------|
| 73 | Microstructures and mechanical properties of age-formed 7050 aluminum alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2012, 539, 115-123. | 5.6 | 52 |
| 74 | Epitaxial Growth of 1D Atomic Chain Based Se Nanoplates on Monolayer ReS ₂ for High-Performance Photodetectors. <i>Advanced Functional Materials</i> , 2018, 28, 1806254. | 14.9 | 52 |
| 75 | Biocompatible Fe ³⁺ -TA coordination complex with high photothermal conversion efficiency for ablation of cancer cells. <i>Colloids and Surfaces B: Biointerfaces</i> , 2018, 167, 183-190. | 5.0 | 50 |
| 76 | High photocatalytic activity and photoluminescence property of hollow CdMoO ₄ microspheres. <i>Scripta Materialia</i> , 2008, 58, 461-464. | 5.2 | 49 |
| 77 | A facile hydrothermal route to the large-scale synthesis of CoWO ₄ nanorods. <i>Materials Letters</i> , 2008, 62, 1740-1742. | 2.6 | 49 |
| 78 | Synthesis and microwave electromagnetic properties of CoFe alloy nanoflakes prepared with hydrogen-thermal reduction method. <i>Journal of Applied Physics</i> , 2009, 106, . | 2.5 | 49 |
| 79 | Dopamine-Induced Formation of Ultrasmall Few-Layer MoS ₂ Homogeneously Embedded in N-Doped Carbon Framework for Enhanced Lithium-Ion Storage. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 33741-33748. | 8.0 | 49 |
| 80 | Non-isothermal ageing of an Al ⁸ Zn ² Mg ² Cu alloy for enhanced properties. <i>Journal of Materials Processing Technology</i> , 2016, 227, 110-116. | 6.3 | 49 |
| 81 | Ca(II) doped β -In ₂ S ₃ hierarchical structures for photocatalytic hydrogen generation and organic dye degradation under visible light irradiation. <i>Journal of Colloid and Interface Science</i> , 2017, 491, 230-237. | 9.4 | 49 |
| 82 | Distribution characterization of boundary misorientation angle of 7050 aluminum alloy after high-temperature compression. <i>Journal of Materials Processing Technology</i> , 2009, 209, 754-761. | 6.3 | 47 |
| 83 | Electrical and photocatalytic properties of Na ₂ Ti ₆ O ₁₃ nanobelts prepared by molten salt synthesis. <i>Applied Surface Science</i> , 2009, 255, 4149-4152. | 6.1 | 47 |
| 84 | Electric Field Tunable Interlayer Relaxation Process and Interlayer Coupling in WSe ₂ /Graphene Heterostructures. <i>Advanced Functional Materials</i> , 2016, 26, 4319-4328. | 14.9 | 47 |
| 85 | Strong dual-frequency electromagnetic absorption in Ku-band of C@FeNi ₃ core/shell structured microchains with negative permeability. <i>Journal of Magnetism and Magnetic Materials</i> , 2014, 349, 159-164. | 2.3 | 46 |
| 86 | Constructing yolk-shell MnO@C nanodiscs through a carbothermal reduction process for highly stable lithium storage. <i>Chemical Engineering Journal</i> , 2018, 336, 427-435. | 12.7 | 45 |
| 87 | Fractal growth of single-crystal β -Fe ₂ O ₃ : From dendritic micro-pines to hexagonal micro-snowflakes. <i>Materials Letters</i> , 2008, 62, 739-742. | 2.6 | 44 |
| 88 | Sulfur vacancies promoting Fe-doped Ni ₃ S ₂ nanopyramid arrays as efficient bifunctional electrocatalysts for overall water splitting. <i>Sustainable Energy and Fuels</i> , 2020, 4, 3326-3333. | 4.9 | 44 |
| 89 | Carbon-coated CoFe ₂ O ₄ composite particles with high and dual-band electromagnetic wave absorbing properties. <i>Nanotechnology</i> , 2018, 29, 305604. | 2.6 | 43 |
| 90 | Influence of Mg content on ageing precipitation behavior of Al-Cu-Li-x alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019, 742, 138-149. | 5.6 | 43 |

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|-----|--|------|-----------|
| 91 | Anisotropic Signal Processing with Trigonal Selenium Nanosheet Synaptic Transistors. ACS Nano, 2020, 14, 10018-10026. | 14.6 | 43 |
| 92 | Tensile deformation behavior of superalloy 718 at elevated temperatures. Journal of Alloys and Compounds, 2009, 471, 331-335. | 5.5 | 42 |
| 93 | Tetradecylphosphonic acid modified BaTiO ₃ nanoparticles and its nanocomposite. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2013, 427, 19-25. | 4.7 | 42 |
| 94 | Deformation and fracture behavior of two Al-Mg-Si alloys. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 1997, 28, 1489-1497. | 2.2 | 41 |
| 95 | A pressure sensor based on the orientational dependence of plasmonic properties of gold nanorods. Nanoscale, 2015, 7, 14483-14488. | 5.6 | 41 |
| 96 | Microwave absorption properties of FeSi flaky particles prepared via a ball-milling process. Journal of Magnetism and Magnetic Materials, 2015, 395, 152-158. | 2.3 | 41 |
| 97 | Particle-stimulated nucleation and recrystallization texture initiated by coarsened Al ₂ CuLi phase in Al-Cu-Li alloy. Journal of Materials Research and Technology, 2021, 10, 643-650. | 5.8 | 41 |
| 98 | Synthesis of Fe-ferrite composite nanotubes with excellent microwave absorption performance. CrystEngComm, 2011, 13, 6839. | 2.6 | 40 |
| 99 | Formation of CdMoO ₄ porous hollow nanospheres via a self-assembly accompanied with Ostwald ripening process and their photocatalytic performance. CrystEngComm, 2013, 15, 8014. | 2.6 | 39 |
| 100 | Development of La _{0.6} Sr _{0.4} Co _{0.2} Fe _{0.8} O _{3-δ} cathode with an improved stability via La _{0.8} Sr _{0.2} MnO ₃ -film impregnation. International Journal of Hydrogen Energy, 2013, 38, 5375-5382. | 7.1 | 39 |
| 101 | In-situ growth of graphene decorated Ni ₃ S ₂ pyramids on Ni foam for high-performance overall water splitting. Applied Surface Science, 2019, 465, 772-779. | 6.1 | 39 |
| 102 | Synthesis of Fe/SiO ₂ composite particles and their superior electromagnetic properties in microwave band. Materials Letters, 2010, 64, 57-60. | 2.6 | 38 |
| 103 | Microstructure and magnetic properties of SiC/Co composite particles prepared by electroless plating. Surface and Coatings Technology, 2006, 201, 3139-3146. | 4.8 | 37 |
| 104 | Effects of precipitates on fatigue crack growth rate of AA 7055 aluminum alloy. Transactions of Nonferrous Metals Society of China, 2010, 20, 2209-2214. | 4.2 | 37 |
| 105 | Formation of FeMoO ₄ hollow microspheres via a chemical conversion-induced Ostwald ripening process. CrystEngComm, 2012, 14, 7025. | 2.6 | 37 |
| 106 | Mechanism of Localized Breakdown of 7000 Series Aluminum Alloys. Journal of the Electrochemical Society, 2013, 160, C493-C502. | 2.9 | 37 |
| 107 | Effects of coarse Al ₂ CuLi phase on the hot deformation behavior of Al-Cu-Li alloy. Journal of Alloys and Compounds, 2020, 815, 152469. | 5.5 | 37 |
| 108 | Ultrathin Co ₉ S ₈ nanosheets vertically aligned on N,S/rGO for low voltage electrolytic water in alkaline media. Scientific Reports, 2019, 9, 1951. | 3.3 | 36 |

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|-----|---|------|-----------|
| 109 | Deformed microstructure evolution in AM60B Mg alloy under hypervelocity impact at a velocity of 5kms ⁻¹ . <i>Materials & Design</i> , 2010, 31, 3708-3715. | 5.1 | 35 |
| 110 | Eu ³⁺ -doped CdMoO ₄ red phosphor synthesized through an aqueous solution route at room temperature. <i>Journal of Alloys and Compounds</i> , 2012, 529, 17-20. | 5.5 | 35 |
| 111 | Low temperature electrochemical performance of Li^+ -Li V ₂ O ₅ cathode for lithium-ion batteries. <i>Electrochimica Acta</i> , 2015, 169, 440-446. | 5.2 | 35 |
| 112 | Work function modulation of bilayer MoS ₂ nanoflake by backgate electric field effect. <i>Applied Physics Letters</i> , 2013, 103, . | 3.3 | 34 |
| 113 | Synthesis of Bi ₂ WO ₆ hierarchical structures constructed by porous nanoplates and their associated photocatalytic properties under visible light irradiation. <i>Ceramics International</i> , 2014, 40, 11689-11698. | 4.8 | 34 |
| 114 | Hybrid dual-channel phototransistor based on 1D t-Se and 2D ReS ₂ mixed-dimensional heterostructures. <i>Nano Research</i> , 2019, 12, 669-674. | 10.4 | 34 |
| 115 | Micro-damage behaviors of Al ⁶ Mg alloy impacted by projectiles with velocities of 1 ³ 3.2km/s. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2005, 391, 354-366. | 5.6 | 33 |
| 116 | Deformed microstructure and mechanical properties of AM60B magnesium alloy under hypervelocity impact at a velocity of 4kms ⁻¹ . <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2010, 527, 3323-3328. | 5.6 | 33 |
| 117 | Synthesis of LiMnPO ₄ microspheres assembled by plates, wedges and prisms with different crystallographic orientations and their electrochemical performance. <i>CrystEngComm</i> , 2012, 14, 6412. | 2.6 | 33 |
| 118 | Segregation of the major alloying elements to Al ₃ (Sc,Zr) precipitates in an Al ⁴ Zn ⁴ Mg ⁴ Cu ⁴ Sc ⁴ Zr alloy. <i>Materials Characterization</i> , 2019, 157, 109898. | 4.4 | 33 |
| 119 | Microstructure and magnetic properties of Fe ²⁵ Cr ¹² Co ¹ Si alloy thermo-magnetically treated in intense magnetic field. <i>Journal of Magnetism and Magnetic Materials</i> , 2004, 283, 231-237. | 2.3 | 32 |
| 120 | Chelate-induced formation of Li ₂ MnSiO ₄ nanorods as a high capacity cathode material for Li-ion batteries. <i>Journal of Materials Chemistry A</i> , 2016, 4, 9447-9454. | 10.3 | 32 |
| 121 | Correlation between precipitates evolution and mechanical properties of Al-Sc-Zr alloy with Er additions. <i>Journal of Materials Science and Technology</i> , 2022, 99, 61-72. | 10.7 | 32 |
| 122 | FeNi ₃ /indium tin oxide (ITO) composite nanoparticles with excellent microwave absorption performance and low infrared emissivity. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2013, 178, 225-230. | 3.5 | 31 |
| 123 | Photoresponse Enhancement in Monolayer ReS ₂ Phototransistor Decorated with CdSe ⁴ Cd ⁴ ZnS Quantum Dots. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 39456-39463. | 8.0 | 31 |
| 124 | Rational Construction of Uniform CoNi-Based Core-Shell Microspheres with Tunable Electromagnetic Wave Absorption Properties. <i>Scientific Reports</i> , 2018, 8, 3196. | 3.3 | 31 |
| 125 | Natural Humic ⁴ Acid ⁴ -Based Phototheranostic Agent. <i>Advanced Healthcare Materials</i> , 2018, 7, e1701202. | 7.6 | 31 |
| 126 | Reviving reversible anion redox in 3d-transition-metal Li rich oxides by introducing surface defects. <i>Nano Energy</i> , 2020, 71, 104644. | 16.0 | 31 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|------|-----------|
| 127 | Through-thickness texture gradient in AA 7055 aluminum alloy. <i>Materials Letters</i> , 2008, 62, 88-90. | 2.6 | 30 |
| 128 | Chemical Vapor Deposition Growth of Degenerate p-Type Mo-Doped ReS_2 Films and Their Homojunction. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 15583-15591. | 8.0 | 30 |
| 129 | Minimization of Residual Stress in an Al-Cu Alloy Forged Plate by Different Heat Treatments. <i>Journal of Materials Engineering and Performance</i> , 2015, 24, 2256-2265. | 2.5 | 29 |
| 130 | van der Waals epitaxy of large-area continuous ReS_2 films on mica substrate. <i>RSC Advances</i> , 2017, 7, 24188-24194. | 3.6 | 29 |
| 131 | High capacity and enhanced structural reversibility of $\text{Li}_2\text{V}_2\text{O}_5$ nanorods as the lithium battery cathode. <i>Journal of Materials Chemistry A</i> , 2013, 1, 5361. | 10.3 | 28 |
| 132 | Solvothermal synthesis of orthorhombic Sb_2WO_6 hierarchical structures and their visible-light-driven photocatalytic activity. <i>Dalton Transactions</i> , 2014, 43, 8439-8445. | 3.3 | 27 |
| 133 | PEGylated Tantalum Nanoparticles: A Metallic Photoacoustic Contrast Agent for Multiwavelength Imaging of Tumors. <i>Small</i> , 2019, 15, e1903596. | 10.0 | 27 |
| 134 | Development of microstructures and texture during cold rolling in AA 7055 aluminum alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2009, 504, 55-63. | 5.6 | 26 |
| 135 | Large-scale synthesis of single-crystalline KNb_3O_8 nanobelts via a simple molten salt method. <i>Ceramics International</i> , 2010, 36, 679-682. | 4.8 | 25 |
| 136 | Electromagnetic properties of flake-shaped Fe_3Si alloy particles prepared by ball milling. <i>Journal of Magnetism and Magnetic Materials</i> , 2014, 368, 295-299. | 2.3 | 25 |
| 137 | Solution-phase synthesis of In_2Se_3 nanoparticles for highly efficient photocatalytic hydrogen generation under simulated sunlight irradiation. <i>RSC Advances</i> , 2016, 6, 106671-106675. | 3.6 | 25 |
| 138 | Improvement on electromagnetic absorbing performance of $\text{Al}_{18}\text{B}_4\text{O}_{33}\text{w}/\text{Co}$ composite particles through heat treatment. <i>Scripta Materialia</i> , 2008, 59, 967-970. | 5.2 | 24 |
| 139 | Fractal Analysis of Disordered Conductor-Insulator Composites with Different Conductor Backbone Structures near Percolation Threshold. <i>Journal of Physical Chemistry C</i> , 2012, 116, 19517-19525. | 3.1 | 24 |
| 140 | Ferroelectric resistive switching behavior in two-dimensional materials/ BiFeO_3 hetero-junctions. <i>Nanoscale</i> , 2018, 10, 23080-23086. | 5.6 | 24 |
| 141 | Selective CO_2 -to-formate electrochemical conversion with core-shell structured $\text{Cu}_2\text{O}/\text{Cu}@C$ composites immobilized on nitrogen-doped graphene sheets. <i>Journal of Materials Chemistry A</i> , 2020, 8, 18302-18309. | 10.3 | 24 |
| 142 | Shape-controlled synthesis of zinc phosphate nanostructures by an aqueous solution route at room temperature. <i>Materials Letters</i> , 2012, 82, 26-28. | 2.6 | 23 |
| 143 | Sandwich-like cobalt/reduced graphene oxide/cobalt composite structure presenting synergetic electromagnetic loss effect. <i>Journal of Colloid and Interface Science</i> , 2020, 561, 687-695. | 9.4 | 23 |
| 144 | Macro- and microdamage behaviors of the 30CrMnSiA steel impacted by hypervelocity projectiles. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2000, 282, 177-182. | 5.6 | 22 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|------|-----------|
| 145 | Disket-Nanorings of $K_2Ti_6O_{13}$ Formed by Self-Spiraling of a Nanobelt. <i>Journal of Physical Chemistry C</i> , 2008, 112, 7547-7551. | 3.1 | 22 |
| 146 | Portevin-Le Chatelier effect in Al-Zn-Mg-Cu-Zr aluminum alloy. <i>Transactions of Nonferrous Metals Society of China</i> , 2009, 19, 1071-1075. | 4.2 | 22 |
| 147 | Structural transformations in Li_2MnSiO_4 : evidence that a Li intercalation material can reversibly cycle through a disordered phase. <i>Journal of Materials Chemistry A</i> , 2017, 5, 16722-16731. | 10.3 | 22 |
| 148 | Cu_2O/Cu Cermet as a Candidate Inert Anode for Al Production. <i>International Journal of Applied Ceramic Technology</i> , 2007, 4, 453-462. | 2.1 | 21 |
| 149 | A facile molten salt route to $K_2Nb_8O_{21}$ nanoribbons. <i>Ceramics International</i> , 2008, 34, 435-437. | 4.8 | 21 |
| 150 | Conductivity critical exponents lower than the universal value in continuum percolation systems. <i>Journal of Physics Condensed Matter</i> , 2008, 20, 395235. | 1.8 | 21 |
| 151 | Phase field simulation of microstructure evolution in Fe-Cr-Co alloy during thermal magnetic treatment and step aging. <i>Journal of Magnetism and Magnetic Materials</i> , 2010, 322, 987-995. | 2.3 | 21 |
| 152 | Microstructure evolution in abrasion-induced surface layer on an Al-Zn-Mg-Cu alloy. <i>Materials Characterization</i> , 2014, 98, 18-25. | 4.4 | 21 |
| 153 | Electrochemical reduction of carbon dioxide to formate via nano-prism assembled CuO microspheres. <i>Chemosphere</i> , 2019, 237, 124527. | 8.2 | 21 |
| 154 | Electrochemical Intercalation in Atomically Thin van der Waals Materials for Structural Phase Transition and Device Applications. <i>Advanced Materials</i> , 2021, 33, e2000581. | 21.0 | 21 |
| 155 | Synthesis of CoFe/Al ₂ O ₃ composite nanoparticles as the impedance matching layer of wideband multilayer absorber. <i>Journal of Applied Physics</i> , 2011, 109, 07A332. | 2.5 | 20 |
| 156 | Experimental study on modulated structure in Alnico alloys under high magnetic field and comparison with phase-field simulation. <i>Journal of Magnetism and Magnetic Materials</i> , 2013, 348, 27-32. | 2.3 | 20 |
| 157 | Large-scale Synthesis of SrCrO ₄ Nanowires and PbCrO ₄ Nanorods by a Solution-phase Method at Room Temperature. <i>Chemistry Letters</i> , 2006, 35, 268-269. | 1.3 | 19 |
| 158 | Effect of β -ray irradiation on the magnetic properties of NdFeB and Fe-Cr-Co permanent magnets. <i>Journal of Magnetism and Magnetic Materials</i> , 2006, 302, 156-159. | 2.3 | 18 |
| 159 | Microstructure evolution of cobalt coating electroless plated on SiC whisker during electroless plating and heat treatment. <i>Surface and Coatings Technology</i> , 2007, 201, 6059-6062. | 4.8 | 18 |
| 160 | Evolution of modulated structure in Fe-Cr-Co alloy during isothermal ageing with different external magnetic field conditions. <i>Journal of Magnetism and Magnetic Materials</i> , 2007, 312, 342-346. | 2.3 | 18 |
| 161 | Characterization of the deformed microstructure in 1Cr18NiTi stainless steel under ballistic impact. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2008, 489, 213-219. | 5.6 | 18 |
| 162 | Hydrothermal synthesis, magnetic and electromagnetic properties of hexagonal Fe ₃ O ₄ microplates. <i>Journal of Magnetism and Magnetic Materials</i> , 2014, 361, 161-165. | 2.3 | 18 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|------|-----------|
| 163 | Synthesis of self-stacked CuFe ₂ O ₄ porous nanosheets as a high performance Li-ion battery anode. Journal of Materials Chemistry A, 2014, 2, 19330-19337. | 10.3 | 18 |
| 164 | Study of γ -ray irradiation effect on permanent magnets. Journal of Applied Physics, 2008, 103, 07E136. | 2.5 | 17 |
| 165 | Co/SiO ₂ composite particles with high electromagnetic wave absorbing performance and weather resistance. Journal of Magnetism and Magnetic Materials, 2013, 334, 111-118. | 2.3 | 17 |
| 166 | Effect of Surface Roughness on Breakdown Behavior of Al-Zn-Mg-Cu Alloy. Journal of the Electrochemical Society, 2014, 161, C433-C440. | 2.9 | 17 |
| 167 | Self-standing flexible cathode of V ₂ O ₅ nanobelts with high cycling stability for lithium-ion batteries. Ceramics International, 2016, 42, 14595-14600. | 4.8 | 17 |
| 168 | Microstructure Evolution and the Resulted Influence on Localized Corrosion in Al-Zn-Mg-Cu Alloy during Non-Isothermal Ageing. Materials, 2018, 11, 720. | 2.9 | 17 |
| 169 | Effects of interfacial wettability on arc erosion behavior of Zn ₂ SnO ₄ /Cu electrical contacts. Journal of Materials Science and Technology, 2022, 109, 64-75. | 10.7 | 17 |
| 170 | In situ tensile deformation and fracture behavior of Ti-24Al-14Nb-3V-0.5Mo alloy with various microstructures. Intermetallics, 2004, 12, 43-53. | 3.9 | 16 |
| 171 | Magnetic anisotropy in Fe-25Cr-12Co-1Si alloy induced by external magnetic field. Transactions of Nonferrous Metals Society of China, 2007, 17, 346-350. | 4.2 | 16 |
| 172 | Thermal expansion behavior of Cu/Cu ₂ O cermets with different Cu structures. Ceramics International, 2009, 35, 2803-2807. | 4.8 | 16 |
| 173 | The influence of Fe content on the magnetic and electromagnetic characteristics for Fe _x (CoNi) _{1-x} ternary alloy nanoparticles. Journal of Applied Physics, 2011, 109, 07A320. | 2.5 | 16 |
| 174 | The influence of hollow structure on the magnetic characteristics for Fe ₃ O ₄ submicron spheres. Journal of Applied Physics, 2011, 109, 07B535. | 2.5 | 16 |
| 175 | Effect of ageing on corrosion properties of an Al _{0.5} Zn _{0.5} Mg _{0.5} Cu alloy. Materials and Corrosion - Werkstoffe Und Korrosion, 2014, 65, 670-677. | 1.5 | 16 |
| 176 | Electrochemical Lithium Insertion Behavior of Li _x V ₂ O ₅ (0 < x < 3) as the Cathode Material for Secondary Lithium Batteries. Journal of the Electrochemical Society, 2014, 161, A75-A83. | 2.9 | 16 |
| 177 | Air arc erosion behavior of CuZr/Zn ₂ SnO ₄ electrical contact materials. Journal of Alloys and Compounds, 2018, 743, 697-706. | 5.5 | 16 |
| 178 | TEM observation of the interface in a Ti ₃ Al-Nb alloy. Materials Letters, 1997, 32, 319-323. | 2.6 | 15 |
| 179 | Study of deformed microstructures near the impact crater in pure copper targets. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2004, 384, 12-18. | 5.6 | 15 |
| 180 | Dielectric and electrocaloric responses of Ba(Zr _{0.2} Ti _{0.8})O ₃ bulk ceramics and thick films with sintering aids. IEEE Transactions on Dielectrics and Electrical Insulation, 2015, 22, 1501-1505. | 2.9 | 15 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|------|-----------|
| 181 | Large-scale synthesis and characterization of fan-shaped rutile TiO ₂ nanostructures. <i>Materials Letters</i> , 2008, 62, 3404-3406. | 2.6 | 14 |
| 182 | Microstructure evolution and electromagnetic properties improvement of Al ₁₈ B ₄ O ₃₃ w/Co composite powders through heat-treatment. <i>Journal of Magnetism and Magnetic Materials</i> , 2009, 321, 1290-1294. | 2.3 | 14 |
| 183 | Synthesis and formation process of SrSO ₄ -like hierarchical structures at room temperature. <i>CrystEngComm</i> , 2011, 13, 620-625. | 2.6 | 14 |
| 184 | Electromagnetic properties of Co flaky particles prepared via ball-milling method. <i>Journal of Magnetism and Magnetic Materials</i> , 2016, 416, 53-60. | 2.3 | 14 |
| 185 | Spinodal decomposition in Fe ₂₅ Cr ₁₂ Co ₁ Si alloy under a 100kOe magnetic field. <i>Journal of Magnetism and Magnetic Materials</i> , 2006, 306, 69-72. | 2.3 | 13 |
| 186 | Microstructural characterization of single-crystalline potassium hollandite nanowires. <i>Materials Characterization</i> , 2008, 59, 1805-1808. | 4.4 | 13 |
| 187 | Strain rate sensitivity of a high strain rate superplastic TiNp/2014 Al composite. <i>Journal of Materials Processing Technology</i> , 2010, 210, 734-740. | 6.3 | 13 |
| 188 | Effect of electron irradiation on electroactive phase and dielectric properties of PVDF films. <i>RSC Advances</i> , 2014, 4, 13525-13532. | 3.6 | 13 |
| 189 | Highly localized shear deformation in a Mg-Al-Mn alloy subjected to ballistic impact. <i>Vacuum</i> , 2019, 169, 108868. | 3.5 | 13 |
| 190 | Transformed shearing bands in strongly impact loaded 30CrMnSiA steel. <i>Journal of Materials Science Letters</i> , 1998, 17, 391-393. | 0.5 | 12 |
| 191 | Electrical Conductivity of Inhomogeneous Cu ₂ O-10CuAlO ₂ -xCu Cermets. <i>Journal of the American Ceramic Society</i> , 2005, 88, 2589-2593. | 3.8 | 12 |
| 192 | Numerical Simulation of Residual Stress in an Al-Cu Alloy Block During Quenching and Aging. <i>Journal of Materials Engineering and Performance</i> , 2015, 24, 4928-4940. | 2.5 | 12 |
| 193 | Mechanistic insights into interfaces and nitrogen vacancies in cobalt hydroxide/tungsten nitride catalysts to enhance alkaline hydrogen evolution. <i>Journal of Materials Chemistry A</i> , 2021, 9, 11323-11330. | 10.3 | 12 |
| 194 | Tuning the Energy Storage Efficiency in PVDF Nanocomposites Incorporated with Crumpled Core-Shell BaTiO ₃ @Graphene Oxide Nanoparticles. <i>ACS Applied Energy Materials</i> , 2021, 4, 9553-9562. | 5.1 | 12 |
| 195 | Mechanical Anisotropy in Two-Dimensional Selenium Atomic Layers. <i>Nano Letters</i> , 2021, 21, 8043-8050. | 9.1 | 12 |
| 196 | Correlation between Structural Evolution and Device Performance of CH ₃ NH ₃ PbI ₃ Solar Cells under Proton Irradiation. <i>ACS Applied Energy Materials</i> , 0, , . | 5.1 | 12 |
| 197 | Room temperature synthesis of BaCrO ₄ nanoplates through a NaCl-assisted aqueous solution method. <i>Materials Letters</i> , 2007, 61, 3146-3149. | 2.6 | 11 |
| 198 | Electrical and microwave dielectric properties of K ₂ Nb ₈ O ₂₁ microwires. <i>Ceramics International</i> , 2009, 35, 3021-3025. | 4.8 | 11 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|------|-----------|
| 199 | Superparamagnetic nickel ferrite colloidal spheres for constructing magnetically responsive photonic crystals. <i>Materials Letters</i> , 2012, 81, 62-64. | 2.6 | 11 |
| 200 | Exploring Cu ₂ O/Cu cermet as a partially inert anode to produce aluminum in a sustainable way. <i>Journal of Alloys and Compounds</i> , 2014, 610, 214-223. | 5.5 | 11 |
| 201 | Thickness-controllable coating of SiO ₂ on Co microspheres with tunable electromagnetic properties and enhanced oxidation resistance. <i>RSC Advances</i> , 2016, 6, 107653-107658. | 3.6 | 11 |
| 202 | Effects of dopants on the adhesion and electronic structure of a SnO ₂ /Cu interface: a first-principles study. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 15618-15625. | 2.8 | 11 |
| 203 | Controlled Movement of a Smart Miniature Submarine at Various Interfaces. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 24899-24904. | 8.0 | 11 |
| 204 | Microstructure evolution of polyimide films induced by electron beam irradiation-load coupling treatment. <i>Polymer Degradation and Stability</i> , 2018, 155, 230-237. | 5.8 | 11 |
| 205 | Texture evolution and recrystallization mechanism in a Mg ³ Al ¹ Zn alloy under ballistic impact. <i>Journal of Alloys and Compounds</i> , 2020, 816, 152599. | 5.5 | 11 |
| 206 | Bifunctional WC ₆ -Supported RuO ₂ Nanoparticles for Robust Water Splitting in Acidic Media. <i>Angewandte Chemie</i> , 2022, 134, . | 2.0 | 11 |
| 207 | Single-crystalline PbCrO ₄ nanorods: Room temperature, surfactant free synthesis, characterization and optical property. <i>Journal of Crystal Growth</i> , 2007, 299, 86-93. | 1.5 | 10 |
| 208 | Magnetic microstructures of a high coercivity Nd ² Fe ¹ B sintered magnet in remanent and incomplete thermal demagnetization states. <i>Journal of Magnetism and Magnetic Materials</i> , 2010, 322, 3720-3723. | 2.3 | 10 |
| 209 | Thermal conductivity determination of conductor/insulator composites by fractal: Geometrical tortuosity and percolation. <i>Composites Part B: Engineering</i> , 2016, 92, 377-383. | 12.0 | 10 |
| 210 | Solvothermal Synthesis of Bi ₂ O ₂ CO ₃ Nanoplates for Efficient Photodegradation of RhB and Phenol under Simulated Solar Light Irradiation. <i>Bulletin of the Korean Chemical Society</i> , 2014, 35, 2935-2940. | 1.9 | 10 |
| 211 | Deformation and fracture behavior of a RSP Al ³ Li alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2002, 336, 135-142. | 5.6 | 9 |
| 212 | Investigation on Dynamic Recrystallization Behavior in Hot Deformed Superalloy Inconel 718. <i>Materials Science Forum</i> , 2007, 546-549, 1297-1300. | 0.3 | 9 |
| 213 | Relationship between boundary misorientation angle and true strain during high temperature deformation of 7050 aluminum alloy. <i>Transactions of Nonferrous Metals Society of China</i> , 2008, 18, 795-798. | 4.2 | 9 |
| 214 | Influence of annealing on the structure and ferroelectric properties of Sr _{0.13} Na _{0.37} Bi _{0.50} TiO ₃ thin films prepared by metalorganic solution deposition. <i>Journal of Alloys and Compounds</i> , 2010, 504, 155-158. | 5.5 | 9 |
| 215 | Effects of proton irradiation on structure of NdFeB permanent magnets studied by X-ray diffraction and X-ray absorption fine structure. <i>Journal of Magnetism and Magnetic Materials</i> , 2011, 323, 4-6. | 2.3 | 9 |
| 216 | Colloidal synthesis and formation mechanism of calcium molybdate notched microspheres. <i>CrystEngComm</i> , 2014, 16, 2598. | 2.6 | 9 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|------|-----------|
| 217 | Effect of Annealing Temperatures and Time on Structural Evolution and Dielectric Properties of PVDF Films. <i>Polymers and Polymer Composites</i> , 2016, 24, 167-172. | 1.9 | 9 |
| 218 | Electrochemical behavior and structural stability of LiV ₃ O ₈ microrods as cathode for lithium-ion batteries. <i>Ceramics International</i> , 2016, 42, 18747-18755. | 4.8 | 9 |
| 219 | In situ soft-chemistry synthesis of $\text{Na}_{0.33}\text{V}_2\text{O}_5$ nanorods as high-performance cathode for lithium-ion batteries. <i>RSC Advances</i> , 2016, 6, 105833-105839. | 3.6 | 9 |
| 220 | Solvothermal Synthesis of InOOH Nanospheres with Enhanced Photocatalytic Activity. <i>Bulletin of the Korean Chemical Society</i> , 2016, 37, 522-528. | 1.9 | 9 |
| 221 | Designing $\text{Co}_7\text{Fe}_3@ \text{TiO}_2$ Core-Shell Nanospheres for Electromagnetic Wave Absorption in S and C Bands. <i>Electronic Materials Letters</i> , 2020, 16, 413-423. | 2.2 | 9 |
| 222 | Tailoring the Energy Funneling across the Interface in InSe/MoS_2 Heterostructures by Electrostatic Gating and Strain Engineering. <i>Advanced Optical Materials</i> , 2021, 9, 2100438. | 7.3 | 9 |
| 223 | Strain engineering of quasi-1D layered TiS_3 nanosheets toward giant anisotropic Raman and piezoresistance responses. <i>Applied Physics Letters</i> , 2021, 119, . | 3.3 | 9 |
| 224 | 2D Indium Phosphorus Sulfide ($\text{In}_2\text{P}_3\text{S}_9$): An Emerging van der Waals High-Dielectrics. <i>Small</i> , 2022, 18, e2104401. | 10.0 | 9 |
| 225 | Environmentally Friendly Aqueous Solution Synthesis of Hierarchical CaWO_4 Microspheres at Room Temperature. <i>Journal of Nanoscience and Nanotechnology</i> , 2008, 8, 1288-1294. | 0.9 | 8 |
| 226 | Preparation and characterization of $\text{Ca}_{0.18}\text{Na}_{0.32}\text{Bi}_{0.50}\text{TiO}_3$ ferroelectric thin films by metalorganic solution deposition. <i>Journal of Alloys and Compounds</i> , 2010, 489, 136-139. | 5.5 | 8 |
| 227 | Single-crystal $\text{Na}_2\text{Ti}_6\text{O}_{13}$ nanorings formed by self-coiling of a nanobelt. <i>CrystEngComm</i> , 2011, 13, 2674. | 2.6 | 8 |
| 228 | Synthesis of Zn(II)-Doped Magnetite Leaf-Like Nanorings for Efficient Electromagnetic Wave Absorption. <i>Scientific Reports</i> , 2017, 7, 45480. | 3.3 | 8 |
| 229 | Hierarchical Mn_3O_4 Microplates Composed of Stacking Porous Nanosheets for High-Performance Lithium Storage. <i>ChemElectroChem</i> , 2017, 4, 2703-2708. | 3.4 | 8 |
| 230 | Salt-templated synthesis of Co_9S_8 nanoparticles anchored on N, S co-doped carbon nanosheets towards high-performance water oxidation. <i>Journal of Electroanalytical Chemistry</i> , 2019, 835, 67-72. | 3.8 | 8 |
| 231 | Self-Assembly of 2D Nanosheets into 1D Nanostructures for Sensing NO_2 . <i>Small Structures</i> , 2021, 2, 2100067. | 12.0 | 8 |
| 232 | Effects of proton irradiation on electronic structure of NdFeB permanent magnets. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2009, 267, 3084-3086. | 1.4 | 7 |
| 233 | Crystal plasticity simulation of polycrystalline aluminum and the effect of mesh refinement on mechanical responses. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2011, 528, 6673-6679. | 5.6 | 7 |
| 234 | Topochemical synthesis and magnetic properties of $\text{BaFe}_{12}\text{O}_{19}$ nanorods using FeOOH nanowires as templates. <i>Ceramics International</i> , 2014, 40, 8593-8597. | 4.8 | 7 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|------|-----------|
| 235 | Mechanical properties of cermet composites with various geometrical tortuosity of metal phase: Fractal characterization. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2014, 607, 236-244. | 5.6 | 7 |
| 236 | Self-supported construction of 3D CdMoO ₄ hierarchical structures from nanoplates with enhanced photocatalytic properties. <i>RSC Advances</i> , 2014, 4, 38527-38534. | 3.6 | 7 |
| 237 | Sodium chloride induced formation of square-shaped cadmium molybdate nanoplates. <i>Materials Letters</i> , 2014, 131, 292-294. | 2.6 | 7 |
| 238 | Effects of long-term natural aging on the altered surface layer on an Al-Zn-Mg-Cu alloy and on corrosion properties. <i>Electrochimica Acta</i> , 2018, 266, 34-42. | 5.2 | 7 |
| 239 | Folded sheet resonators that aim at low frequency attenuation of surface elastic waves in solids. <i>Journal of Applied Physics</i> , 2020, 127, 164904. | 2.5 | 7 |
| 240 | Lowering the Contact Barriers of 2D Organic F ₁₆ CuPc Field-Effect Transistors by Introducing Van der Waals Contacts. <i>Small</i> , 2021, 17, e2007739. | 10.0 | 7 |
| 241 | 2D-1D mixed-dimensional heterostructures: progress, device applications and perspectives. <i>Journal of Physics Condensed Matter</i> , 2021, 33, 493001. | 1.8 | 7 |
| 242 | Encapsulating atomic molybdenum into hierarchical nitrogen-doped carbon nanoboxes for efficient oxygen reduction. <i>Journal of Colloid and Interface Science</i> , 2022, 620, 67-76. | 9.4 | 7 |
| 243 | Microstructure and mechanical property of Cu ₂ O-Cu cermet prepared by in-situ reduction-hot pressing method. <i>Materials Letters</i> , 2008, 62, 3121-3123. | 2.6 | 6 |
| 244 | Microstructure evolution in hot deformation of 7050 aluminium alloy with coarse elongated grains. <i>Materials Science and Technology</i> , 2008, 24, 281-286. | 1.6 | 6 |
| 245 | Mössbauer spectrometry study of early stage spinodal decomposition in Fe-Cr-Co alloy under high magnetic field. <i>Materials Letters</i> , 2009, 63, 64-65. | 2.6 | 6 |
| 246 | Surfactant-free hydrothermal synthesis and characterization of single-crystal K ₂ V ₈ O ₂₁ nanobelts. <i>Ceramics International</i> , 2010, 36, 1825-1829. | 4.8 | 6 |
| 247 | Phase field simulation of spinodal decomposition under external magnetic field. <i>Journal of Magnetism and Magnetic Materials</i> , 2010, 322, 978-986. | 2.3 | 6 |
| 248 | Effect of microstructure on the electromagnetic properties of Al ₁₈ B ₄ O ₃₃ w/Co and Al ₁₈ B ₄ O ₃₃ w/FeCo composite particles. <i>Journal of Applied Physics</i> , 2012, 112, 053917. | 2.5 | 6 |
| 249 | Synthesis and electromagnetic properties of Fe/SiO ₂ yolk/shell nanospheres with improved oxidation resistance. <i>Micro and Nano Letters</i> , 2013, 8, 349-352. | 1.3 | 6 |
| 250 | Adhesion and electronic structures of Cu/Zn ₂ SnO ₄ interfaces: A first-principles study. <i>Journal of Applied Physics</i> , 2019, 125, . | 2.5 | 6 |
| 251 | Flaky FeSi particles with tunable size, morphology and microstructure developing for high-efficiency and broadband absorbing materials. <i>Journal of Magnetism and Magnetic Materials</i> , 2021, 527, 167800. | 2.3 | 6 |
| 252 | Jerky flow behavior in a rapid solidification processed Al-Li alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 1998, 248, 221-229. | 5.6 | 5 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|------|-----------|
| 253 | Permeability calculation in composite media with low filler concentration: A new method of effective media theory application. <i>Journal of Applied Physics</i> , 2009, 105, 07A526. | 2.5 | 5 |
| 254 | Effect of Bi ₂ Ti ₂ O ₇ Seeding Layer on Capacitance-voltage Properties of Bi _{3.54} Nd _{0.46} Ti ₃ O ₁₂ Films. <i>Journal of Materials Science and Technology</i> , 2010, 26, 206-210. | 10.7 | 5 |
| 255 | Aqueous solution synthesis and photoluminescence properties of two-dimensional dendritic PbWO ₄ nanostructures. <i>Materials Research Bulletin</i> , 2014, 56, 1-7. | 5.2 | 5 |
| 256 | Topochemical synthesis of ultrathin nanosheet-constructed Fe ₃ O ₄ hierarchical structures as high-performance anode for Li-ion batteries. <i>Journal of Materials Science: Materials in Electronics</i> , 2018, 29, 7805-7810. | 2.2 | 5 |
| 257 | Few-layer WSe ₂ lateral homo- and hetero-junctions with superior optoelectronic performance by laser manufacturing. <i>Science China Technological Sciences</i> , 2020, 63, 1531-1537. | 4.0 | 5 |
| 258 | Charge Transfer at the Hetero-interface of WSe ₂ /InSe Induces Efficient Doping to Achieve Multi-functional Lateral Homo-junctions. <i>Advanced Electronic Materials</i> , 2021, 7, 2100584. | 5.1 | 5 |
| 259 | Impact fracture of rapid solidification processed Al-Li alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 1996, 207, 87-96. | 5.6 | 4 |
| 260 | Effect of quenching rate on microstructures of a NiAl alloy. <i>Materials Letters</i> , 2001, 48, 121-126. | 2.6 | 4 |
| 261 | Through-Thickness Microstructure, Texture and Strength Gradients in AA 7055 Rolled Plate. <i>Materials Science Forum</i> , 2007, 546-549, 957-960. | 0.3 | 4 |
| 262 | High Temperature Deformation Mechanism of 7075 Aluminum Alloy. <i>Key Engineering Materials</i> , 2007, 353-358, 691-694. | 0.4 | 4 |
| 263 | Template-free Hydrothermal Preparation of Mesoporous TiO ₂ Microspheres on a Large Scale. <i>Chemistry Letters</i> , 2008, 37, 938-939. | 1.3 | 4 |
| 264 | Microstructure and electromagnetic properties of Al ₁₈ B ₄ O ₃₃ w/Co composite particles prepared by electroless plating method. <i>Surface and Coatings Technology</i> , 2009, 203, 2221-2228. | 4.8 | 4 |
| 265 | Hyperfine structure variations in an Fe-Cr-Co alloy exposed to electron irradiation: Mössbauer spectroscopy characterization. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2014, 338, 52-55. | 1.4 | 4 |
| 266 | Vertical aligned V ₂ O ₅ nanoneedle arrays grown on Ti substrate as binder-free cathode for lithium-ion batteries. <i>Ionics</i> , 2017, 23, 2961-2967. | 2.4 | 4 |
| 267 | Topotactic Growth of Free-Standing Two-Dimensional Perovskite Niobates with Low Symmetry Phase. <i>Nano Letters</i> , 2021, 21, 4700-4707. | 9.1 | 4 |
| 268 | Data mining and design of electromagnetic properties of Co/FeSi filled coatings based on genetic algorithms optimized artificial neural networks (GA-ANN). <i>Composites Part B: Engineering</i> , 2021, 226, 109383. | 12.0 | 4 |
| 269 | Effects of Ga on the structural stability of Sm ₂ (Fe,Ga) ₁₇ compounds. <i>Materials Letters</i> , 2002, 57, 146-150. | 2.6 | 3 |
| 270 | Effect of porosity and copper content on compressive strength of Cu/Cu ₂ O cermet. <i>Journal of Materials Science</i> , 2004, 39, 731-732. | 3.7 | 3 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|-----|-----------|
| 271 | Design of a two-layer ultra-wideband microwave absorber. , 2010, , . | | 3 |
| 272 | Synthesis of lamellar niobic acid nanorods via proton-exchange and their conversion to T-Nb ₂ O ₅ nanorods. <i>Ceramics International</i> , 2012, 38, 861-865. | 4.8 | 3 |
| 273 | THE NEGATIVE EFFECT OF NON-NBT PHASE ON THE FERROELECTRIC PROPERTIES OF SR-DOPED NBT THIN FILM AND THE SOLUTIONS. <i>Surface Review and Letters</i> , 2013, 20, 1350012. | 1.1 | 3 |
| 274 | Design, Fabrication and Characterization of Pressure-Responsive Films Based on The Orientation Dependence of Plasmonic Properties of Ag@Au Nanoplates. <i>Scientific Reports</i> , 2017, 7, 1676. | 3.3 | 3 |
| 275 | Enhanced photocatalytic activity and photoelectrochemical performance of InOOH nanosheets prepared via a facile solvothermal route. <i>Journal of Materials Science: Materials in Electronics</i> , 2017, 28, 1869-1876. | 2.2 | 3 |
| 276 | Charge Transport Behavior and Ultrasensitive Photoresponse Performance of Exfoliated F 16 CuPc Nanoflakes. <i>Advanced Optical Materials</i> , 2019, 7, 1901097. | 7.3 | 3 |
| 277 | Boosting the rate and cycling performance of \hat{I}^2 -Li V ₂ O ₅ nanorods for Li ion battery by electrode surface decoration. <i>Applied Surface Science</i> , 2020, 512, 145622. | 6.1 | 3 |
| 278 | Effect of Pre-Stretch on the Precipitation Behavior and the Mechanical Properties of 2219 Al Alloy. <i>Materials</i> , 2021, 14, 2101. | 2.9 | 3 |
| 279 | Microstructure Analysis and the Effect of Cr Additive on Electrical Performance of (Cp-Nb)/Cu-Cd Electrical Contact Materials. , 2006, , . | | 2 |
| 280 | Mechanical properties and oxidation behavior of the Ti \hat{e} “24Al \hat{e} “14Nb \hat{e} “3V \hat{e} “0.5Mo alloy sheet. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2006, 427, 42-50. | 5.6 | 2 |
| 281 | The Contact Resistance and Arc Erosion Behavior of Separable C _P -Nb-Cr/Cu-Cd Electrical Contact Material. <i>Key Engineering Materials</i> , 2007, 353-358, 886-889. | 0.4 | 2 |
| 282 | Grain characterization of nanostructured TiN coatings prepared by reactive plasma spraying. <i>Surface and Interface Analysis</i> , 2007, 39, 832-835. | 1.8 | 2 |
| 283 | Deformed Microstructure of AZ91 Magnesium Alloy Impacted by Projectiles with Velocities of 2-3 km/s. <i>Journal of Solid Mechanics and Materials Engineering</i> , 2010, 4, 720-726. | 0.5 | 2 |
| 284 | High strain rate superplasticity of TiN/2014Al composite. <i>Materials Science and Technology</i> , 2011, 27, 670-675. | 1.6 | 2 |
| 285 | Edge treatment for sidelobe reduction of parabolic reflector antenna with a two-layer absorber. , 2011, , . | | 2 |
| 286 | Formation of tubular BaTiO ₃ nanoparticle assembly through the Kirkendall effect using Na ₂ Ti ₃ O ₇ nanowires as template. <i>Materials Research Bulletin</i> , 2013, 48, 4565-4569. | 5.2 | 2 |
| 287 | Preparation of LSM-Nano-Film via a Water-Based Impregnation Process and Its Application onto Porous LSCF Cathode. <i>Journal of the Electrochemical Society</i> , 2013, 160, F905-F909. | 2.9 | 2 |
| 288 | STUDY OF THE NON-NBT PHASE IN Sr DOPED NBT THIN FILMS. <i>Surface Review and Letters</i> , 2013, 20, 1350056. | 1.1 | 2 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|-----|-----------|
| 289 | 9 Percolation in disordered conductor/insulator composites. , 2017, , 440-467. | | 2 |
| 290 | Precipitation during Quenching in 2A97 Aluminum Alloy and the Influences from Grain Structure. Materials, 2021, 14, 2802. | 2.9 | 2 |
| 291 | Influence of aging on the impact fracture behavior of a RSP Al-Li alloy. Scripta Metallurgica Et Materialia, 1994, 30, 529-533. | 1.0 | 1 |
| 292 | Hydrogen induced fracture in a RSP Al _i -Li alloy. Scripta Metallurgica Et Materialia, 1994, 31, 595-599. | 1.0 | 1 |
| 293 | Effect of Original Microstructure on the Hot Compression Behavior of Superalloy 718. Key Engineering Materials, 2007, 353-358, 515-518. | 0.4 | 1 |
| 294 | XMCD study of Fe-Cr-Co alloy under electron irradiation. Journal of Electron Spectroscopy and Related Phenomena, 2010, 180, 34-38. | 1.7 | 1 |
| 295 | Preparation, microstructure, and electromagnetic properties of Al ₁₈ B ₄ O ₃₃ w/CoxFeyBz composite powders. Surface and Coatings Technology, 2012, 212, 14-19. | 4.8 | 1 |
| 296 | Decorated membrane resonators as underground seismic wave barriers against high magnitude earthquakes. Journal of Applied Physics, 2020, 128, 084902. | 2.5 | 1 |
| 297 | An underground barrier of locally resonant metamaterial to attenuate surface elastic waves in solids. AIP Advances, 2020, 10, 075121. | 1.3 | 1 |
| 298 | In-situ tensile observation of a RSP Al-Li alloy in transmission electron microscope. Scripta Metallurgica Et Materialia, 1994, 30, 457-461. | 1.0 | 0 |
| 299 | Synthesis and Characterization of Single-Crystalline Alkali Titanate Nanowires.. ChemInform, 2005, 36, no. | 0.0 | 0 |
| 300 | Study of a Ceramic Thermocouple for Al Production. Materials Science Forum, 2007, 546-549, 2195-2198. | 0.3 | 0 |
| 301 | Dynamic Restoration Process of 7050 Aluminum Alloy during Superplastic Deformation. Key Engineering Materials, 2007, 353-358, 643-646. | 0.4 | 0 |
| 302 | DRX in 7050 Aluminum Alloy during Constraint Deformation Processing at High Temperature. Key Engineering Materials, 2007, 353-358, 647-650. | 0.4 | 0 |
| 303 | Texture Development during Cold and Cryogenic Rolling in AA 7055 Aluminum Alloy. Key Engineering Materials, 0, 353-358, 639-642. | 0.4 | 0 |
| 304 | High Strain Rate Superplastic Deformation Behavior of TiN ₂ /P ₂ /2014Al Composite. Advanced Materials Research, 0, 97-101, 1633-1636. | 0.3 | 0 |
| 305 | Effect of microstructure on electromagnetic properties of ferromagnetic/dielectric composite particles. , 2010, , . | | 0 |
| 306 | Effect of Hot Rolling Deformation on Superplastic Deformation Behavior of TiN ₂ /P ₂ /2014Al Composite. Advanced Materials Research, 0, 264-265, 90-95. | 0.3 | 0 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|------|-----------|
| 307 | A Novel Ceramic Thermocouple Used in High-Temperature Measurement. <i>Advanced Materials Research</i> , 2011, 197-198, 328-332. | 0.3 | 0 |
| 308 | 2D Materials: Electrochemical Intercalation in Atomically Thin van der Waals Materials for Structural Phase Transition and Device Applications (<i>Adv. Mater.</i> 6/2021). <i>Advanced Materials</i> , 2021, 33, 2170043. | 21.0 | 0 |
| 309 | Microstructures and Magnetic Properties of Single-Step Deposited Ce:YIG/YIG Bilayer Films With Different Layer Thickness Ratios. <i>IEEE Transactions on Magnetics</i> , 2022, 58, 1-5. | 2.1 | 0 |