

Junjie Li

List of Publications by Year in descending order

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187
papers

6,318
citations

87888

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88630

70
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191
all docs

191
docs citations

191
times ranked

6632
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Trends in activity for the oxygen evolution reaction on transition metal (M = Fe, Co, Ni) phosphide pre-catalysts. <i>Chemical Science</i> , 2018, 9, 3470-3476. | 7.4 | 443 |
| 2 | Boosting the hydrogen evolution performance of ruthenium clusters through synergistic coupling with cobalt phosphide. <i>Energy and Environmental Science</i> , 2018, 11, 1819-1827. | 30.8 | 350 |
| 3 | Designing eutectic high entropy alloys of CoCrFeNiNb x. <i>Journal of Alloys and Compounds</i> , 2016, 656, 284-289. | 5.5 | 340 |
| 4 | High-Performance Flexible Solid-State Asymmetric Supercapacitors Based on Bimetallic Transition Metal Phosphide Nanocrystals. <i>ACS Nano</i> , 2019, 13, 10612-10621. | 14.6 | 214 |
| 5 | Phase separation of metastable CoCrFeNi high entropy alloy at intermediate temperatures. <i>Scripta Materialia</i> , 2017, 126, 15-19. | 5.2 | 212 |
| 6 | Few-layer Bismuthene with Anisotropic Expansion for High-Areal-Capacity Sodium-Ion Batteries. <i>Advanced Materials</i> , 2019, 31, e1807874. | 21.0 | 165 |
| 7 | Uncovering the eutectics design by machine learning in the Al-Co-Cr-Fe-Ni high entropy system. <i>Acta Materialia</i> , 2020, 182, 278-286. | 7.9 | 143 |
| 8 | Phase-field study of competitive dendritic growth of converging grains during directional solidification. <i>Acta Materialia</i> , 2012, 60, 1478-1493. | 7.9 | 131 |
| 9 | Li ₄ MgGe ₂ S ₇ : The First Alkali and Alkaline-Earth Diamond-Like Infrared Nonlinear Optical Material with Exceptional Large Band Gap. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 24131-24136. | 13.8 | 130 |
| 10 | Stability of lamellar structures in CoCrFeNiNb _x eutectic high entropy alloys at elevated temperatures. <i>Materials and Design</i> , 2016, 104, 259-264. | 7.0 | 128 |
| 11 | Manipulating the Interfacial Energetics of n-type Silicon Photoanode for Efficient Water Oxidation. <i>Journal of the American Chemical Society</i> , 2016, 138, 13664-13672. | 13.7 | 121 |
| 12 | Applying CRISPR-Cas12a as a Signal Amplifier to Construct Biosensors for Non-DNA Targets in Ultralow Concentrations. <i>ACS Sensors</i> , 2020, 5, 970-977. | 7.8 | 117 |
| 13 | A casting eutectic high entropy alloy with superior strength-ductility combination. <i>Materials Letters</i> , 2019, 253, 268-271. | 2.6 | 109 |
| 14 | Strengthening the CoCrFeNiNb _{0.25} high entropy alloy by FCC precipitate. <i>Journal of Alloys and Compounds</i> , 2016, 667, 53-57. | 5.5 | 106 |
| 15 | Hollow cobalt phosphide octahedral pre-catalysts with exceptionally high intrinsic catalytic activity for electro-oxidation of water and methanol. <i>Journal of Materials Chemistry A</i> , 2018, 6, 20646-20652. | 10.3 | 95 |
| 16 | Plant Esterase-Chitosan/Gold Nanoparticles-Graphene Nanosheet Composite-Based Biosensor for the Ultrasensitive Detection of Organophosphate Pesticides. <i>Journal of Agricultural and Food Chemistry</i> , 2015, 63, 10319-10326. | 5.2 | 88 |
| 17 | Atomic-layer-deposited ultrafine MoS ₂ nanocrystals on cobalt foam for efficient and stable electrochemical oxygen evolution. <i>Nanoscale</i> , 2017, 9, 2711-2717. | 5.6 | 88 |
| 18 | Atomic-Step Enriched Ruthenium-Iridium Nanocrystals Anchored Homogeneously on MOF-Derived Support for Efficient and Stable Oxygen Evolution in Acidic and Neutral Media. <i>ACS Catalysis</i> , 2021, 11, 3402-3413. | 11.2 | 87 |

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|----|--|------|-----------|
| 19 | Solid solution island of the Co-Cr-Fe-Ni high entropy alloy system. <i>Scripta Materialia</i> , 2017, 131, 42-46. | 5.2 | 81 |
| 20 | Finite element analysis and experimental validation of the thermomechanical behavior in laser solid forming of Ti-6Al-4V. <i>Additive Manufacturing</i> , 2018, 21, 30-40. | 3.0 | 81 |
| 21 | Stable overall water splitting in an asymmetric acid/alkaline electrolyzer comprising a bipolar membrane sandwiched by bifunctional cobalt-nickel phosphide nanowire electrodes. , 2020, 2, 646-655. | | 79 |
| 22 | In Situ Atomic-Scale Study of Particle-Mediated Nucleation and Growth in Amorphous Bismuth to Nanocrystal Phase Transformation. <i>Advanced Science</i> , 2018, 5, 1700992. | 11.2 | 74 |
| 23 | Hg ₃ P ₂ S ₈ : A New Promising Infrared Nonlinear Optical Material with a Large Second-Harmonic Generation and a High Laser-Induced Damage Threshold. <i>Chemistry of Materials</i> , 2021, 33, 6514-6521. | 6.7 | 74 |
| 24 | A review on the recently developed promising infrared nonlinear optical materials. <i>Dalton Transactions</i> , 2021, 50, 3155-3160. | 3.3 | 59 |
| 25 | Toward the Rational Design of Mid-Infrared Nonlinear Optical Materials with Targeted Properties via a Multi-Level Data-Driven Approach. <i>Advanced Functional Materials</i> , 2022, 32, . | 14.9 | 58 |
| 26 | Kinetic Pathways and Mechanisms of Two-Step Nucleation in Crystallization. <i>Journal of Physical Chemistry Letters</i> , 2016, 7, 5008-5014. | 4.6 | 50 |
| 27 | Phase field modeling the selection mechanism of primary dendritic spacing in directional solidification. <i>Acta Materialia</i> , 2012, 60, 1957-1964. | 7.9 | 48 |
| 28 | The intrinsic mechanism of corrosion resistance for FCC high entropy alloys. <i>Science China Technological Sciences</i> , 2018, 61, 189-196. | 4.0 | 48 |
| 29 | Polyvinylpyrrolidone-Assisted Hydrothermal Synthesis of CuCoO ₂ Nanoplates with Enhanced Oxygen Evolution Reaction Performance. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 1493-1501. | 6.7 | 48 |
| 30 | Solid solubility, precipitates, and stacking fault energy of micro-alloyed CoCrFeNi high entropy alloys. <i>Journal of Alloys and Compounds</i> , 2018, 769, 490-502. | 5.5 | 46 |
| 31 | A review of the Al ₂ B ₁₁ C ₄ DVI ₄ family as infrared nonlinear optical materials: the effect of each site on the structure and optical properties. <i>Chemical Communications</i> , 2020, 56, 11565-11576. | 4.1 | 46 |
| 32 | Direct laser deposited bulk CoCrFeNiNbx high entropy alloys. <i>Intermetallics</i> , 2019, 114, 106592. | 3.9 | 45 |
| 33 | LncRNA H19-mediated M2 polarization of macrophages promotes myofibroblast differentiation in pulmonary fibrosis induced by arsenic exposure. <i>Environmental Pollution</i> , 2021, 268, 115810. | 7.5 | 44 |
| 34 | The Combination of Structure Prediction and Experiment for the Exploration of Alkali-Earth Metal-Contained Chalcopyrite-Like IR Nonlinear Optical Material. <i>Advanced Science</i> , 2022, 9, e2106120. | 11.2 | 44 |
| 35 | Effect of initial particle size distribution on the dynamics of transient Ostwald ripening: A phase field study. <i>Acta Materialia</i> , 2015, 90, 10-26. | 7.9 | 43 |
| 36 | Abnormal β - γ phase transformation in the CoCrFeNiNb _{0.25} high entropy alloy. <i>Scripta Materialia</i> , 2018, 146, 281-285. | 5.2 | 43 |

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|----|---|------|-----------|
| 37 | Non-isothermal crystallization kinetics and fragility of (Cu ₄₆ Zr ₄₇ Al ₇) ₉₇ Ti ₃ bulk metallic glass investigated by differential scanning calorimetry. <i>Thermochimica Acta</i> , 2013, 565, 132-136. | 2.7 | 42 |
| 38 | A Space Vector Pulse Width Modulation for Five-Level Nested Neutral Point Piloted Converter. <i>IEEE Transactions on Power Electronics</i> , 2017, 32, 5991-6004. | 7.9 | 42 |
| 39 | Tuning the defects in face centered cubic high entropy alloy via temperature-dependent stacking fault energy. <i>Scripta Materialia</i> , 2018, 155, 134-138. | 5.2 | 41 |
| 40 | Remelting induced fully-equiaxed microstructures with anomalous eutectics in the additive manufactured Ni ₃₂ Co ₃₀ Cr ₁₀ Fe ₁₀ Al ₁₈ eutectic high-entropy alloy. <i>Scripta Materialia</i> , 2021, 201, 113952. | 5.2 | 41 |
| 41 | microRNA-21, via the HIF-1 α /VEGF signaling pathway, is involved in arsenite-induced hepatic fibrosis through aberrant cross-talk of hepatocytes and hepatic stellate cells. <i>Chemosphere</i> , 2021, 266, 129177. | 8.2 | 39 |
| 42 | Phase-field-crystal simulation of nonequilibrium crystal growth. <i>Physical Review E</i> , 2014, 89, 012405. | 2.1 | 38 |
| 43 | Two-dimensional electron gas at the Ti-diffused BiFeO ₃ /SrTiO ₃ interface. <i>Applied Physics Letters</i> , 2015, 107, . | 3.3 | 38 |
| 44 | Rationally engineered amorphous TiO _x /Si/TiO _x nanomembrane as an anode material for high energy lithium ion battery. <i>Energy Storage Materials</i> , 2018, 12, 23-29. | 18.0 | 38 |
| 45 | Branching-induced grain boundary evolution during directional solidification of columnar dendritic grains. <i>Acta Materialia</i> , 2017, 136, 148-163. | 7.9 | 37 |
| 46 | Two-way design of alloys for advanced ultra supercritical plants based on machine learning. <i>Computational Materials Science</i> , 2018, 155, 331-339. | 3.0 | 37 |
| 47 | Andrographolide antagonizes the cigarette smoke-induced epithelial-mesenchymal transition and pulmonary dysfunction through anti-inflammatory inhibiting HOTAIR. <i>Toxicology</i> , 2019, 422, 84-94. | 4.2 | 36 |
| 48 | Active Capacitor Voltage-Balancing Methods Based on the Dynamic Model for a Five-Level Nested Neutral-Point Piloted Converter. <i>IEEE Transactions on Power Electronics</i> , 2018, 33, 6567-6581. | 7.9 | 35 |
| 49 | Phase-field simulation of microstructure development involving nucleation and crystallographic orientations in alloy solidification. <i>Journal of Crystal Growth</i> , 2007, 309, 65-69. | 1.5 | 34 |
| 50 | On the stagnation of grain growth in nanocrystalline materials. <i>Scripta Materialia</i> , 2009, 60, 945-948. | 5.2 | 34 |
| 51 | Synthesis, crystal structure and optical properties of the new lead fluoride borate—Pb ₂ BO ₃ F. <i>Journal of Solid State Chemistry</i> , 2011, 184, 2849-2853. | 2.9 | 34 |
| 52 | <i>In Situ</i> Atomic-Scale Observation of Droplet Coalescence Driven Nucleation and Growth at Liquid/Solid Interfaces. <i>ACS Nano</i> , 2017, 11, 5590-5597. | 14.6 | 34 |
| 53 | Atomic packing and size effect on the Hume-Rothery rule. <i>Intermetallics</i> , 2019, 109, 139-144. | 3.9 | 33 |
| 54 | An enzyme-powered, three-dimensional lame DNA walker. <i>Biosensors and Bioelectronics</i> , 2021, 177, 112981. | 10.1 | 33 |

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|----|--|------|-----------|
| 55 | Wet chemical route to the synthesis of kesterite Cu ₂ ZnSnS ₄ nanocrystals and their applications in lithium ion batteries. <i>Materials Letters</i> , 2013, 92, 330-333. | 2.6 | 30 |
| 56 | The phase stability of Ni ₂ CrFeMox multi-principal-component alloys with medium configurational entropy. <i>Materials and Design</i> , 2015, 85, 1-6. | 7.0 | 29 |
| 57 | Kinetic ways of tailoring phases in high entropy alloys. <i>Scientific Reports</i> , 2016, 6, 34628. | 3.3 | 29 |
| 58 | Magnetic Phase Transition in Spark-Produced Ternary LaFeSi Nanoalloys. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 6073-6078. | 8.0 | 29 |
| 59 | Molecular dynamics investigation of the local structure in iron melts and its role in crystal nucleation during rapid solidification. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 4122-4135. | 2.8 | 29 |
| 60 | miR-21-regulated M2 polarization of macrophage is involved in arsenicosis-induced hepatic fibrosis through the activation of hepatic stellate cells. <i>Journal of Cellular Physiology</i> , 2021, 236, 6025-6041. | 4.1 | 29 |
| 61 | Anomalous overgrowth of converging dendrites during directional solidification. <i>Journal of Crystal Growth</i> , 2014, 402, 210-214. | 1.5 | 28 |
| 62 | Interfacial undercooling in solidification of colloidal suspensions: analyses with quantitative measurements. <i>Scientific Reports</i> , 2016, 6, 28434. | 3.3 | 28 |
| 63 | An integrated fluorescence biosensor for microRNA detection based on exponential amplification reaction-triggered three-dimensional bipedal DNA walkers. <i>Analytica Chimica Acta</i> , 2021, 1143, 157-165. | 5.4 | 28 |
| 64 | Atomic-Scale Observation of Migration and Coalescence of Au Nanoclusters on YSZ Surface by Aberration-Corrected STEM. <i>Scientific Reports</i> , 2014, 4, 5521. | 3.3 | 27 |
| 65 | In Situ Atomic-Scale Observation of Kinetic Pathways of Sublimation in Silver Nanoparticles. <i>Advanced Science</i> , 2019, 6, 1802131. | 11.2 | 27 |
| 66 | Grouping strategy in eutectic multi-principal-component alloys. <i>Materials Chemistry and Physics</i> , 2019, 221, 138-143. | 4.0 | 27 |
| 67 | Ultrafine-Grained Porous Ir-Based Catalysts for High-Performance Overall Water Splitting in Acidic Media. <i>ACS Applied Energy Materials</i> , 2020, 3, 3736-3744. | 5.1 | 26 |
| 68 | Revealing the Selection of $\sqrt{3}$ and $\sqrt{11}$ Phases in CoCrFeNiMox High Entropy Alloys by CALPHAD. <i>Journal of Phase Equilibria and Diffusion</i> , 2018, 39, 446-453. | 1.4 | 25 |
| 69 | LiBa ₄ Ga ₅ Q ₁₂ (Q = S, Se): Noncentrosymmetric Metal Chalcogenides with a Cesium Chloride Topological Structure Displaying a Remarkable Laser Damage Threshold. <i>Inorganic Chemistry</i> , 2020, 59, 5674-5682. | 4.0 | 25 |
| 70 | Boosting acidic water oxidation performance by constructing arrays-like nanoporous Ir _x Ru _{1-x} O ₂ with abundant atomic steps. <i>Nano Research</i> , 2022, 15, 5933-5939. | 10.4 | 25 |
| 71 | AgAl alloy electrode for efficient perovskite solar cells. <i>RSC Advances</i> , 2015, 5, 56037-56044. | 3.6 | 23 |
| 72 | Non-uniplanar competitive growth of columnar dendritic grains during directional solidification in quasi-2D and 3D configurations. <i>Materials and Design</i> , 2018, 151, 141-153. | 7.0 | 23 |

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|----|--|------|-----------|
| 73 | High Entropy Alloys: From Bulk Metallic Materials to Nanoparticles. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2018, 49, 4986-4990. | 2.2 | 23 |
| 74 | Atomic-scale observation of dynamical fluctuation and three-dimensional structure of gold clusters. Journal of Applied Physics, 2015, 117, . | 2.5 | 22 |
| 75 | Direct Atomic-Scale Observation of Intermediate Pathways of Melting and Crystallization in Supported Bi Nanoparticles. Journal of Physical Chemistry Letters, 2018, 9, 961-969. | 4.6 | 22 |
| 76 | Coupling eutectic nucleation mechanism investigated by phase field crystal model. Acta Materialia, 2018, 145, 175-185. | 7.9 | 22 |
| 77 | The incredible excess entropy in high entropy alloys. Scripta Materialia, 2019, 168, 19-22. | 5.2 | 22 |
| 78 | Development of low-Young's modulus Ti-Nb-based alloys with Cr addition. Journal of Materials Science, 2019, 54, 8675-8683. | 3.7 | 22 |
| 79 | miR-21 in EVs from pulmonary epithelial cells promotes myofibroblast differentiation via glycolysis in arsenic-induced pulmonary fibrosis. Environmental Pollution, 2021, 286, 117259. | 7.5 | 22 |
| 80 | Synthesis, crystal structure and optical properties of a new lead fluoride borate with isolated [B9O21]15- unit. Inorganic Chemistry Communication, 2011, 14, 566-568. | 3.9 | 21 |
| 81 | In situ observation the interface undercooling of freezing colloidal suspensions with differential visualization method. Review of Scientific Instruments, 2015, 86, 084901. | 1.3 | 21 |
| 82 | Predicting growth direction of tilted dendritic arrays during directional solidification. Journal of Crystal Growth, 2011, 328, 108-113. | 1.5 | 20 |
| 83 | Preparation of poly (L-lactic acid) with aligned structures by unidirectional freezing. Polymers for Advanced Technologies, 2015, 26, 606-612. | 3.2 | 20 |
| 84 | Interfacial free energy adjustable phase field crystal model for homogeneous nucleation. Soft Matter, 2016, 12, 4666-4673. | 2.7 | 20 |
| 85 | Photodegradation of Some Dyes Over Ce/FSM-16 Catalyst Under Solar Light. Catalysis Letters, 2007, 119, 245-251. | 2.6 | 19 |
| 86 | Crystal structure and electronic structure of quaternary semiconductors Cu ₂ ZnTiSe ₄ and Cu ₂ ZnTiS ₄ for solar cell absorber. Journal of Applied Physics, 2012, 112, . | 2.5 | 19 |
| 87 | Synthesis and photocatalysis of mesoporous titania templated by natural rubber latex. RSC Advances, 2015, 5, 21480-21486. | 3.6 | 19 |
| 88 | Real-Time Dynamical Observation of Lattice Induced Nucleation and Growth in Interfacial Solid-Solid Phase Transitions. Crystal Growth and Design, 2016, 16, 7256-7262. | 3.0 | 19 |
| 89 | Mn-Cr-like Metal Phosphide Nanocrystals/Carbon Nanotube Film Composites as High-Capacitance Negative Electrodes in Asymmetric Supercapacitors. ACS Applied Energy Materials, 2020, 3, 4580-4588. | 5.1 | 19 |
| 90 | Fabrication and Evaluation of Low-cost Cu ₂ ZnSn(S,Se) ₄ Counter Electrodes for Dye-sensitized Solar Cells. Nano-Micro Letters, 2013, 5, 281-288. | 27.0 | 18 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|------|-----------|
| 91 | Atomic-Scale Understanding of Gold Cluster Growth on Different Substrates and Adsorption-Induced Structural Change. <i>Journal of Physical Chemistry C</i> , 2018, 122, 1753-1760. | 3.1 | 18 |
| 92 | Ba ₂ BS ₃ Cl and Ba ₅ B ₂ S ₈ Cl ₂ : First alkaline-earth metal thioborate halides with [BS ₃] units. <i>Chemical Communications</i> , 2021, 57, 6440-6443. | 4.1 | 18 |
| 93 | Synthesis, crystal structure and properties of a new lead fluoride borate, Pb ₃ OBO ₃ F. <i>Materials Research Bulletin</i> , 2012, 47, 947-951. | 5.2 | 17 |
| 94 | Atomic-scale dynamic observation reveals temperature-dependent multistep nucleation pathways in crystallization. <i>Nanoscale Horizons</i> , 2019, 4, 1302-1309. | 8.0 | 17 |
| 95 | MircoRNA-143-3p regulating ARL6 is involved in the cadmium-induced inhibition of osteogenic differentiation in human bone marrow mesenchymal stem cells. <i>Toxicology Letters</i> , 2020, 331, 159-166. | 0.8 | 17 |
| 96 | Quantitative investigation of cellular growth in directional solidification by phase-field simulation. <i>Physical Review E</i> , 2011, 84, 041604. | 2.1 | 16 |
| 97 | Modified phase-field-crystal model for solid-liquid phase transitions. <i>Physical Review E</i> , 2015, 92, 013309. | 2.1 | 16 |
| 98 | Ba ₄ (BS ₃ S) ₂ S ₄ : a new thioborate with unprecedented [BS ₃ -S] and [S ₄] fundamental building blocks. <i>Chemical Communications</i> , 2019, 55, 14793-14796. | 4.1 | 16 |
| 99 | A fluorometric assay for rapid enrichment and determination of bacteria by using zirconium-metal organic frameworks as both capture surface and signal amplification tag. <i>Mikrochimica Acta</i> , 2020, 187, 188. | 5.0 | 16 |
| 100 | Na ₆ MQ ₄ (M=Zn, Cd; Q=S, Se): Promising New Ternary Infrared Nonlinear Optical Materials. <i>Chemistry - A European Journal</i> , 2021, 27, 6538-6544. | 3.3 | 16 |
| 101 | Simulation-assisted investigation on the formation of layer bands and the microstructural evolution in directed energy deposition of Ti6Al4V blocks. <i>Virtual and Physical Prototyping</i> , 2021, 16, 387-403. | 10.4 | 16 |
| 102 | Dynamic particle packing in freezing colloidal suspensions. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2017, 531, 93-98. | 4.7 | 15 |
| 103 | Effect of Nb Content on Microstructures and Mechanical Properties of Ti-xNb-2Fe Alloys. <i>Journal of Materials Engineering and Performance</i> , 2019, 28, 5501-5508. | 2.5 | 15 |
| 104 | A nanoprobe for fluorescent monitoring of microRNA and targeted delivery of drugs. <i>RSC Advances</i> , 2021, 11, 8871-8878. | 3.6 | 15 |
| 105 | Selective Oxidation of Diphenylmethane Over Cobalt Doped Mesoporous Titania-Silica Catalyst with High Ti Content. <i>Catalysis Letters</i> , 2008, 121, 63-69. | 2.6 | 14 |
| 106 | Discrimination of Lung Cancer Related Volatile Organic Compounds with a Colorimetric Sensor Array. <i>Analytical Letters</i> , 2013, 46, 2048-2059. | 1.8 | 14 |
| 107 | Large-Scale Fabrication of Hollow Pt ₃ Al Nanoboxes and Their Electrocatalytic Performance for Hydrogen Evolution Reaction. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 9842-9847. | 6.7 | 14 |
| 108 | Li ₄ MgGe ₂ S ₇ : The First Alkali and Alkaline-Earth Diamond-Like Infrared Nonlinear Optical Material with Exceptional Large Band Gap. <i>Angewandte Chemie</i> , 2021, 133, 24333-24338. | 2.0 | 14 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|------|-----------|
| 109 | Synthesis and crystal structure of a novel boratotungstate: Pb ₆ B ₂ WO ₁₂ . Solid State Sciences, 2011, 13, 966-969. | 3.2 | 13 |
| 110 | FOXO1A promotes neuropeptide FF transcription subsequently regulating the expression of feeding-related genes in spotted sea bass (<i>Lateolabrax maculatus</i>). Molecular and Cellular Endocrinology, 2020, 517, 110871. | 3.2 | 13 |
| 111 | The formation of quasiregular microstructure in highly undercooled Ni _{70.2} Si _{29.8} eutectic alloy. Journal of Applied Physics, 2008, 104, 013535. | 2.5 | 11 |
| 112 | Interfacial defect complex at the MgO/SrTiO ₃ heterojunction and its electronic impact. RSC Advances, 2014, 4, 51002-51007. | 3.6 | 11 |
| 113 | Strain mapping in nanocrystalline grains simulated by phase field crystal model. Philosophical Magazine, 2015, 95, 973-984. | 1.6 | 11 |
| 114 | <i>In situ</i> generation of sub-10 nm silver nanowires under electron beam irradiation in a TEM. Chemical Communications, 2020, 56, 4765-4768. | 4.1 | 11 |
| 115 | A colorimetric multilayer sensor for discriminating red wine and green tea by measurement of antioxidant activity. Analytical Methods, 2016, 8, 3345-3352. | 2.7 | 10 |
| 116 | LiBa ₂ M ^{III} Q ₄ (M ^{III} = Al, Ga, In; Q = S, Se): A Series of Metal Chalcogenides with a Structural Transition. Inorganic Chemistry, 2019, 58, 12859-12866. | 4.0 | 10 |
| 117 | Heterogeneous microstructure of the bonding zone and its dependence on preheating in hybrid manufactured Ti-6Al-4V. Materials Research Letters, 2021, 9, 422-428. | 8.7 | 10 |
| 118 | Proximity ligation assay mediated rolling circle amplification strategy for in situ amplified imaging of glycosylated PD-L1. Analytical and Bioanalytical Chemistry, 2021, 413, 6929-6939. | 3.7 | 10 |
| 119 | HSP90 and HSP70 Families in <i>Lateolabrax maculatus</i> : Genome-Wide Identification, Molecular Characterization, and Expression Profiles in Response to Various Environmental Stressors. Frontiers in Physiology, 2021, 12, 784803. | 2.8 | 10 |
| 120 | Interfacial defects induced electronic property transformation at perovskite SrVO ₃ /SrTiO ₃ and LaCrO ₃ /SrTiO ₃ heterointerfaces. Physical Chemistry Chemical Physics, 2017, 19, 6945-6951. | 2.8 | 9 |
| 121 | Tuning the specificity of DNA probes using bulge-loops for low-abundance SNV detection. Biosensors and Bioelectronics, 2020, 154, 112092. | 10.1 | 9 |
| 122 | Synthesis, characterization and theoretical investigation of a new chalcogenide, Ba ₄ GaS ₄ F ₃ . Dalton Transactions, 2021, 50, 6315-6320. | 3.3 | 9 |
| 123 | Two new tellurite halides with cationic layers: syntheses, structures, and characterizations of CdPb ₂ Te ₃ O ₈ Cl ₂ and Cd ₁₃ Pb ₈ Te ₁₄ O ₄₂ Cl ₁₄ . Inorganic Chemistry Frontiers, 2022, 9, 1023-1030. | 6.0 | 9 |
| 124 | Investigation into microsegregation during solidification of a binary alloy by phase-field simulations. Journal of Crystal Growth, 2009, 311, 1217-1222. | 1.5 | 8 |
| 125 | Unique visualization of multiply oriented lattice structures using a continuous wavelet transform. Computer Physics Communications, 2013, 184, 2489-2493. | 7.5 | 8 |
| 126 | Effects of surfactant on capillary evaporation process with thick films. International Journal of Heat and Mass Transfer, 2015, 88, 406-410. | 4.8 | 8 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|------|-----------|
| 127 | Yielding and jerky plasticity of tilt grain boundaries in high-temperature graphene. Carbon, 2019, 153, 242-256. | 10.3 | 8 |
| 128 | Phase-field-crystal investigation of the morphology of a steady-state dendrite tip on the atomic scale. Physical Review E, 2017, 95, 062803. | 2.1 | 7 |
| 129 | In situ observation of the unstable lens growth in freezing colloidal suspensions. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2018, 553, 681-688. | 4.7 | 7 |
| 130 | Polymorphic Pb ₁₄ O ₈ I ₁₂ and Pb ₇ O ₄ I ₆ oxyhalides featuring unprecedented [O ₈ Pb ₁₄] clusters with broad IR transparency. Science China Materials, 2022, 65, 773-779. | 6.3 | 7 |
| 131 | Interactions between grain boundary and compositional domain boundary during spinodal decomposition in nanocrystalline alloys. Philosophical Magazine, 2013, 93, 2122-2132. | 1.6 | 6 |
| 132 | Understanding alloy structure and composition in sinter-resistant AgPd@SiO ₂ encapsulated catalysts and their effect on catalytic properties. New Journal of Chemistry, 2017, 41, 14652-14658. | 2.8 | 6 |
| 133 | Low Young's Modulus and High Strength Obtained in Ti-Nb-Zr-Cr Alloys by Optimizing Zr Content. Journal of Materials Engineering and Performance, 2020, 29, 2871-2878. | 2.5 | 6 |
| 134 | Evolutionary Generative Adversarial Networks with Crossover Based Knowledge Distillation. , 2021, , . | | 6 |
| 135 | Syntheses, Structures and Properties of Alkali and Alkaline Earth Metal Diamond-Like Compounds Li ₂ MgMSe ₄ (M = Ge, Sn). Materials, 2021, 14, 6166. | 2.9 | 6 |
| 136 | Microstructure, mechanical properties, and cytotoxicity of low Young's modulus Ti-Nb-Fe-Sn alloys. Journal of Materials Science, 2022, 57, 5634-5644. | 3.7 | 6 |
| 137 | Phase field simulation of the interface morphology evolution and its stability during directional solidification of binary alloys. Science in China Series D: Earth Sciences, 2008, 51, 362-370. | 0.9 | 5 |
| 138 | Phase field simulation of grain growth with grain boundary segregation. International Journal of Materials Research, 2010, 101, 555-559. | 0.3 | 5 |
| 139 | GPU-accelerated phase field simulation of directional solidification. Science China Technological Sciences, 2014, 57, 1191-1197. | 4.0 | 5 |
| 140 | Microstructure Evolution of Mg–4.3Zn–0.7Y–0.6Zr Alloy during Solution Heat Treatment. Materials Transactions, 2014, 55, 264-269. | 1.2 | 5 |
| 141 | A dewetting route to grow heterostructured nanoparticles based on thin film heterojunctions. Nanoscale, 2015, 7, 19977-19984. | 5.6 | 5 |
| 142 | Uncoupling Growth Mechanisms of Binary Eutectics during Rapid Solidification. Journal of Physical Chemistry C, 2017, 121, 8204-8210. | 3.1 | 5 |
| 143 | Elastic strain response in the modified phase-field-crystal model. Chinese Physics B, 2017, 26, 090702. | 1.4 | 5 |
| 144 | Size effects of shear deformation response for nano-single crystals examined by the phase-field-crystal model. Computational Materials Science, 2017, 127, 121-127. | 3.0 | 5 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|-----|-----------|
| 145 | Detection of Carbendazim Residues in Aqueous Samples by Fluorescent Quenching of Plant Esterase. <i>Journal of Applied Spectroscopy</i> , 2018, 85, 535-542. | 0.7 | 5 |
| 146 | Interactions between Nanoparticles and Polymers in the Diffusion Boundary Layer during Freezing Colloidal Suspensions. <i>Langmuir</i> , 2019, 35, 10446-10452. | 3.5 | 5 |
| 147 | Low Springback and Low Young's Modulus in Ti-29Nb-13Ta-4.6Zr Alloy Modified by Mo Addition. <i>Materials Transactions</i> , 2019, 60, 1755-1762. | 1.2 | 5 |
| 148 | Effects of Fe on Microstructures and Mechanical Properties of Ti-15Nb-25Zr-(0, 2, 4, 8)Fe Alloys Prepared by Spark Plasma Sintering. <i>Materials Transactions</i> , 2019, 60, 1763-1768. | 1.2 | 5 |
| 149 | Partial congener substitution induced centrosymmetric to noncentrosymmetric structural transformation and nonlinear optical properties of PbSnSiS ₄ . <i>Journal of Alloys and Compounds</i> , 2022, 899, 163366. | 5.5 | 5 |
| 150 | Synthesis, structure and properties of Pb ₂ Bi ₂ AlB ₃ O ₁₁ . <i>Journal of Molecular Structure</i> , 2011, 994, 321-324. | 3.6 | 4 |
| 151 | Material microstructures analyzed by using gray level Co-occurrence matrices. <i>Chinese Physics B</i> , 2017, 26, 098104. | 1.4 | 4 |
| 152 | Speed-dependent ice bandings in freezing colloidal suspensions. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2018, 543, 126-132. | 4.7 | 4 |
| 153 | RbPb ₈ O ₄ Cl ₉ : the first alkali metal lead oxyhalide with distorted [PbO ₃ Cl ₃] and [PbOCl ₅] mixed-anion groups. <i>Dalton Transactions</i> , 2021, 50, 14038-14043. | 3.3 | 4 |
| 154 | The planar instability during unidirectional freezing of a macromolecular polymer solution: Diffusion-controlled or not?. <i>Physica B: Condensed Matter</i> , 2021, 610, 412923. | 2.7 | 4 |
| 155 | A new broad-band infrared window material CdPbOCl ₂ with excellent comprehensive properties. <i>Dalton Transactions</i> , 2021, 50, 16401-16405. | 3.3 | 4 |
| 156 | Three-dimensional multi-phase field simulation of the lamellar growth stability in a directionally solidified hypereutectic CBr ₄ -C ₂ Cl ₆ alloy. <i>Journal of Crystal Growth</i> , 2009, 311, 2496-2500. | 1.5 | 3 |
| 157 | Effects of a disconnection dipole on the shear-coupled grain boundary migration. <i>Computational Materials Science</i> , 2015, 109, 253-257. | 3.0 | 3 |
| 158 | Precisely detecting atomic position of atomic intensity images. <i>Ultramicroscopy</i> , 2015, 150, 74-78. | 1.9 | 3 |
| 159 | Existence and forming mechanism of metastable phase in crystallization. <i>Computational Materials Science</i> , 2016, 122, 167-176. | 3.0 | 3 |
| 160 | Advanced Electron Microscopy Techniques Toward the Understanding of Metal Nanoparticles and Clusters. , 2018, , 219-287. | | 3 |
| 161 | Effect of secondary arm orientation on unusual overgrowth at converging grain boundary during directional solidification in 3D. <i>Computational Materials Science</i> , 2020, 176, 109531. | 3.0 | 3 |
| 162 | Quantitative determination of tip undercooling of faceted sea ice with in situ experiments. <i>Journal of Physics Condensed Matter</i> , 2021, 33, 36LT01. | 1.8 | 3 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|------|-----------|
| 163 | Atomic structures and migration mechanisms of interphase boundaries during body- to face-centered cubic phase transformations. <i>Journal of Applied Crystallography</i> , 2019, 52, 1176-1188. | 4.5 | 3 |
| 164 | Phase field modeling for dendritic morphology transition and micro-segregation in multi-component alloys. <i>Science in China Series D: Earth Sciences</i> , 2009, 52, 344-351. | 0.9 | 2 |
| 165 | Description of order-disorder transitions based on the phase-field-crystal model. <i>Physical Review E</i> , 2017, 95, 043307. | 2.1 | 2 |
| 166 | Fast finite control set model predictive control for three-phase five-level nested neutral point piloted converter. , 2017, , . | | 2 |
| 167 | Migration mechanisms of interphase boundaries with irrational orientation relationships in massive transformations: A phase-field crystal study. <i>Computational Materials Science</i> , 2019, 159, 420-427. | 3.0 | 2 |
| 168 | A neural-network based framework of developing cross interaction in alloy embedded-atom method potentials: application to Zrâ€“Nb alloy. <i>Journal of Physics Condensed Matter</i> , 2021, 33, 084004. | 1.8 | 2 |
| 169 | Synergistic effect of highâ€“intensity ultrasound and Î²â€“cyclodextrin treatments on browning control in apple juice. <i>International Journal of Food Science and Technology</i> , 0, , . | 2.7 | 2 |
| 170 | Site-specific insertion of endonuclease recognition sites into amplicons to improve post-PCR analysis sensitivity of gene mutation. <i>Biosensors and Bioelectronics</i> , 2022, 208, 114191. | 10.1 | 2 |
| 171 | Three-Dimensional Multiphase Field Modeling of the Effect of Lamellar Thickness on the Eutectic Growth. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2009, 40, 1670-1674. | 2.2 | 1 |
| 172 | Competitive grain growth in directional solidification investigated by phase field simulation. <i>IOP Conference Series: Materials Science and Engineering</i> , 2012, 33, 012098. | 0.6 | 1 |
| 173 | Dipotassium sodium niobium dioxide tetrafluoride, K ₂ NaNbO ₂ F ₄ , crystal structure and characterization. <i>Journal of Physics and Chemistry of Solids</i> , 2012, 73, 136-138. | 4.0 | 1 |
| 174 | Quasi-two-dimensional equilibrium solid/liquid interface of colloids at low osmotic pressure. <i>Journal of Crystal Growth</i> , 2014, 385, 106-110. | 1.5 | 1 |
| 175 | Atomic investigation of steady-state dendrite tips by using phase-field crystal method. <i>IOP Conference Series: Materials Science and Engineering</i> , 2015, 84, 012070. | 0.6 | 1 |
| 176 | Highly Selective and Sensitive Colorimetric Sensor for Aminotriazole Residues in Vegetables and Fruits Using Glutathione Functionalized Gold Nanoparticles. <i>Journal of Nanoscience and Nanotechnology</i> , 2017, 17, 4733-4739. | 0.9 | 1 |
| 177 | On the roughening transition of solid/liquid interface in multicomponent alloys. <i>Journal of Crystal Growth</i> , 2018, 502, 30-34. | 1.5 | 1 |
| 178 | Microstructure, Mechanical Properties, and Springback of Ti-Nb Alloys Modified by Mo Addition. <i>Journal of Materials Engineering and Performance</i> , 2020, 29, 5366-5373. | 2.5 | 1 |
| 179 | RESEARCH ON DIVERGED BI-CRYSTAL COMPETITIVE GROWTH IN DIRECTIONAL SOLIDIFICATION. <i>Jinshu Xuebao/Acta Metallurgica Sinica</i> , 2013, 49, 58. | 0.3 | 1 |
| 180 | Phase-field study on the effect of initial particle aggregation on the transient coarsening behaviors. <i>Modelling and Simulation in Materials Science and Engineering</i> , 2020, 28, 075007. | 2.0 | 1 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|----------|-----------|
| 181 | Microstructure, Mechanical Properties, and Cytotoxicity of β -Type Ti-Nb-Cr Alloys Designed by Electron Parameter. Journal of Materials Engineering and Performance, 0, , 1. | 2.5 | 1 |
| 182 | Phase field investigation on the selection of initial sidebranch spacing in directional solidification. IOP Conference Series: Materials Science and Engineering, 2012, 27, 012009. | 0.6 | 0 |
| 183 | Atomistic investigation of homogeneous nucleation in undercooled liquid. Philosophical Magazine, 2017, 97, 2255-2267. | 1.6 | 0 |
| 184 | In-Situ Atomic-Scale Observation of Intermediate Pathways of Melting and Crystallization of Supported Bi-Nanoparticles in the TEM. Microscopy and Microanalysis, 2018, 24, 1654-1655. | 0.4 | 0 |
| 185 | Strengthening Porous PVA with TiO_2 Structure by an Ice-Templating Method. Chinese Physics Letters, 2018, 35, 088101. | 3.3 | 0 |
| 186 | Direct Atomic-Scale Observation of Droplets Coalescence Driven Nucleation and Growth of Supported Bismuth Nanocrystal in the TEM. Microscopy and Microanalysis, 2018, 24, 1702-1703. | 0.4 | 0 |
| 187 | InnenrÃ¼cktitelbild: $\text{Li}_4\text{MgGe}_2\text{S}_7$: The First Alkali and Alkaline-Earth Diamond-Like Infrared Nonlinear Optical Material with Exceptional Large Band Gap (Angew. Chem.) Tj ETQq1 1 0.284314 rgBT /Over | 0.284314 | 0 |