CITATION REPORT List of articles citing

Observing crystal nucleation in four dimensions using atomic electron tomography

DOI: 10.1038/s41586-019-1317-x Nature, 2019, 570, 500-503.

Source: https://exaly.com/paper-pdf/72998202/citation-report.pdf

Version: 2024-04-28

This report has been generated based on the citations recorded by exaly.com for the above article. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

| # | Paper | IF | Citations |
|-----|--|------|-----------|
| 174 | Three-Dimensional Maps of Helium Nanobubbles To Probe the Mechanisms of Bubble Nucleation and Growth. 2019 , 123, 19142-19152 | | 7 |
| 173 | Compositional Changes at the Early Stages of Nanoparticles Growth in Glasses. 2019 , 123, 29008-29014 | ļ | 18 |
| 172 | Reaction coordinates and rate constants for liquid droplet nucleation: Quantifying the interplay between driving force and memory. 2019 , 151, 154106 | | 7 |
| 171 | Probing Nanoscale Phase Separation at Atomic Resolution within Type Ti-Mn Alloy: A Potential Candidate for Biomedical Implants. 2019 , 5, 5005-5014 | | 1 |
| 170 | Crystallization tracked atom by atom. <i>Nature</i> , 2019 , 570, 450-452 | 50.4 | 10 |
| 169 | Refocusing Electron Microscopy: Moving beyond Visualization of Nanoparticle Self-Assembly To Gain Practical Insights into Advanced Material Fabrication. 2019 , 13, 12272-12279 | | 8 |
| 168 | Divining the shape of nascent polymer crystal nuclei. 2019 , 151, 144901 | | 6 |
| 167 | Classical nucleation theory approach to two-step nucleation of crystals. <i>Journal of Crystal Growth</i> , 2020 , 530, 125300 | 1.6 | 26 |
| 166 | Modeling the interfacial energy of embedded metallic nanoparticles. 2020 , 138, 109261 | | 2 |
| 165 | Enantiomeric Control of Intrinsically Chiral Nanocrystals. Advanced Materials, 2020, 32, e1905594 | 24 | 11 |
| 164 | In-situ observation of an unusual phase transformation pathway with Guinier-Preston zone-like precipitates in Zr-based bulk metallic glasses. 2020 , 819, 153049 | | 5 |
| 163 | Three-Dimensional Atomic Structure of Grain Boundaries Resolved by Atomic-Resolution Electron Tomography. <i>Matter</i> , 2020 , 3, 1999-2011 | 12.7 | 16 |
| 162 | Electron tomography: An imaging method for materials deformation dynamics. 2020 , 24, 100850 | | 9 |
| 161 | Nonclassical Nucleation. 2020 , 19-46 | | 13 |
| 160 | Metal Nanoparticle Harvesting by Continuous Rotating Electrodeposition and Separation. <i>Matter</i> , 2020 , 3, 1294-1307 | 12.7 | 8 |
| 159 | Direct visualization of electromagnetic wave dynamics by laser-free ultrafast electron microscopy. <i>Science Advances</i> , 2020 , 6, | 14.3 | 9 |
| 158 | Broad-Spectral-Range Sustainability and Controllable Excitation of Hyperbolic Phonon Polaritons in B MoO. <i>Advanced Materials</i> , 2020 , 32, e2002014 | 24 | 19 |

| 157 | A Perspective on Multistep Pathways of Nucleation. 2020 , 1-17 | 10 |
|-----|--|-----------------|
| 156 | Exploiting the Surface Properties of Graphene for Polymorph Selectivity. 2020 , 14, 10394-10401 | 10 |
| 155 | Crystal growth by ordered coalescence of lattice arrays in ZrO2-based nanocomposites at the early stage of crystallization. <i>Materials Characterization</i> , 2020 , 168, 110573 | 2 |
| 154 | Using Atom Dynamics to Map the Defect Structure Around an Impurity in Nano-Hematite. 2020 , 11, 10396-10 | 0400 |
| 153 | Capturing the Atomic Coordinates of Surface and Subsurface Structure in 4D with Atomic Electron Tomography. <i>Microscopy and Microanalysis</i> , 2020 , 26, 1794-1796 | |
| 152 | Hierarchical Assembly of Gold Nanoparticles on Graphene Nanoplatelets by Spontaneous Reduction: Implications for Smart Composites and Biosensing. <i>ACS Applied Nano Materials</i> , 2020 , 3, 8753 ⁵ 876 | s2 ⁴ |
| 151 | Imaging Nucleation, Growth and Disorder at the Single-atom Level by Atomic Electron Tomography (AET). <i>Microscopy and Microanalysis</i> , 2020 , 26, 1848-1850 | |
| 150 | 3D Tomography for Multiple-scattering Samples Using Phase Contrast Electron Microscopy. Microscopy and Microanalysis, 2020 , 26, 932-933 | |
| 149 | Interpretable molecular models for molybdenum disulfide and insight into selective peptide recognition. 2020 , 11, 8708-8722 | 10 |
| 148 | Ptychographic atomic electron tomography: Towards three-dimensional imaging of individual light atoms in materials. 2020 , 102, | 2 |
| 147 | Thermal Stability of Hollow Porous Gold Nanoparticles: A Molecular Dynamics Study. 2020 , 60, 6204-6210 | 3 |
| 146 | A conceptual change in crystallisation mechanisms of oxide materials from solutions in closed systems. <i>Scientific Reports</i> , 2020 , 10, 18414 | 1 |
| 145 | Exploding the Repeat Length Paradigm while Exploring Amyloid Toxicity in Huntington's Disease. 2020 , 53, 2347-2357 | 5 |
| 144 | Circularly polarized luminescence of nanoassemblies via multi-dimensional chiral architecture control. 2020 , 12, 19497-19515 | 25 |
| 143 | Real-time atomistic simulation of the Ostwald ripening of TiO supported Au nanoparticles. 2020 , 12, 19142-19148 | 4 |
| 142 | Rate Prediction for Homogeneous Nucleation of Methane Hydrate at Moderate Supersaturation Using Transition Interface Sampling. 2020 , 124, 8099-8109 | 11 |
| 141 | Isothermal and Isoconversional Modeling of Solid-State Nitroso Polymerization. 2020 , 124, 10726-10735 | 1 |
| 140 | 0.7 Resolution Electron Tomography Enabled by Deep-Learning-Aided Information Recovery. 2020 , 2, 2000152 | 12 |

| 139 | Novel Mode of Noncrystallographic Branching in the Initial Stages of Polymer Fibril Growth. 2020 , 125, 247801 | 0 |
|-----|---|----|
| 138 | Enabling near-atomic-scale analysis of frozen water. <i>Science Advances</i> , 2020 , 6, 14.3 | 20 |
| 137 | Atomic Electron Tomography: Past, Present and Future. <i>Microscopy and Microanalysis</i> , 2020 , 26, 652-6540.5 | 1 |
| 136 | Detection of Ring and Adatom Defects in Activated Disordered Carbon via Fluctuation Nanobeam Electron Diffraction. 2020 , 16, e2000828 | 5 |
| 135 | Polymer Lamellae as Reaction Intermediates in the Formation of Copper Nanospheres as Evidenced by In Situ X-ray Studies. 2020 , 132, 11724-11730 | 1 |
| 134 | Shape inducer-free polygonal angle platinum nanoparticles in graphene oxide as oxygen reduction catalyst derived from gamma irradiation. 2020 , 575, 1-15 | 12 |
| 133 | Structural and thermal stabilities of Au@Ag core-shell nanoparticles and their arrays: A molecular dynamics simulation. 2020 , 29, 048701 | 4 |
| 132 | Characterization of Pd and Pd@Au core-shell nanoparticles using atom probe tomography and field evaporation simulation. 2020 , 831, 154721 | 7 |
| 131 | Correlating the three-dimensional atomic defects and electronic properties of two-dimensional transition metal dichalcogenides. <i>Nature Materials</i> , 2020 , 19, 867-873 | 58 |
| 130 | Thermal reactions involving solids: a personal view of selected features of decompositions, thermal analysis and heterogeneous catalysis. 2020 , 142, 1123-1144 | 7 |
| 129 | Measuring Dynamic Structural Changes of Nanoparticles at the Atomic Scale Using Scanning Transmission Electron Microscopy. 2020 , 124, 106105 | 13 |
| 128 | Modification of glycerol force Field for simulating silver nucleation under a diffusion limited condition. 2020 , 592, 124574 | O |
| 127 | Electron tomography imaging methods with diffraction contrast for materials research. 2020 , 69, 141-155 | 9 |
| 126 | The displacement field associated with the freezing of a melt and its role in determining crystal growth kinetics. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 11.5 2020 , 117, 3421-3426 | 5 |
| 125 | Classical nucleation theory predicts the shape of the nucleus in homogeneous solidification. 2020 , 152, 044103 | 3 |
| 124 | Reactive modeling of Mo3Si oxidation and resulting silica morphology. <i>Acta Materialia</i> , 2020 , 187, 93-10 2 .4 | 1 |
| 123 | Evaluation of the critical nucleus size without using interface free energy. <i>Journal of Crystal Growth</i> , 2020 , 535, 125521 | 3 |
| 122 | Dimension-Tunable Circularly Polarized Luminescent Nanoassemblies with Emerging Selective Chirality and Energy Transfer. 2020 , 14, 2373-2384 | 26 |

(2021-2020)

| 121 | thermodynamic and kinetic explanations and comparison with small-molecule crystallization. Progress in Crystal Growth and Characterization of Materials, 2020, 66, 100484 | 3.5 | 12 | |
|-----|--|---------------|----|--|
| 120 | Understanding the Surface Reactivity of Ligand-Protected Metal Nanoparticles for Biomass Upgrading. 2020 , 10, 5462-5474 | | 17 | |
| 119 | Vaporizable endoskeletal droplets via tunable interfacial melting transitions. <i>Science Advances</i> , 2020 , 6, eaaz7188 | 14.3 | 8 | |
| 118 | On Simulating the Formation of Structured, Crystalline Systems via Non-classical Pathways. 2020 , 7, | | O | |
| 117 | Polymer Lamellae as Reaction Intermediates in the Formation of Copper Nanospheres as Evidenced by In Situ X-ray Studies. 2020 , 59, 11627-11633 | | 5 | |
| 116 | Growth and dissolution of crystal nuclei in poly(l-lactic acid) (PLLA) in Tammann's development method. 2020 , 196, 122453 | | 16 | |
| 115 | Nanoscale x-ray and electron tomography. 2020 , 45, 264-271 | | 7 | |
| 114 | Atomic electron tomography in three and four dimensions. 2020 , 45, 290-297 | | 16 | |
| 113 | Recent progress on discovery and properties prediction of energy materials: Simple machine learning meets complex quantum chemistry. 2021 , 54, 72-88 | | 12 | |
| 112 | Impact of local chemical order on the structure evolution of dual-phase high-entropy alloy during solidification process. 2021 , 184, 109953 | | 4 | |
| 111 | Polymorph-Selective Role of Hydrogen Bonding and Stacking in p-Aminobenzoic Acid Solutions. <i>Crystal Growth and Design</i> , 2021 , 21, 436-448 | 3.5 | 8 | |
| 110 | Capturing the Moment of Emergence of Crystal Nucleus from Disorder. <i>Journal of the American Chemical Society</i> , 2021 , 143, 1763-1767 | 16.4 | 34 | |
| 109 | Determination of the 3D Atomic Structures of Nanoparticles. 2021 , 1, 2000045 | | 3 | |
| 108 | Towards data-driven next-generation transmission electron microscopy. <i>Nature Materials</i> , 2021 , 20, 274 | - <i>27</i> 9 | 48 | |
| 107 | X-ray linear dichroic ptychography. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021 , 118, | 11.5 | 6 | |
| 106 | Atomic scale characterization of three-dimensional structure, magnetic properties and dynamic evolutions of materials by transmission electron microscopy. 2021 , 0-0 | | | |
| 105 | A review of solvent freeze-out technology for protein crystallization. 2021, 23, 2723-2732 | | | |
| 104 | Reversible disorder-order transitions in atomic crystal nucleation. <i>Science</i> , 2021 , 371, 498-503 | 33.3 | 44 | |

| 103 | Correlating 3D Surface Atomic Structure and Catalytic Activities of Pt Nanocrystals. <i>Nano Letters</i> , 2021 , 21, 1175-1183 | 11.5 | 2 |
|-----|--|------|----|
| 102 | Three-Dimensional TEM Study of Dendrimer-Encapsulated Pt Nanoparticles for Visualizing Structural Characteristics of the Whole Organic-Inorganic Hybrid Nanostructure. 2021 , 93, 2871-2878 | | 6 |
| 101 | Four-dimensional vibrational spectroscopy for nanoscale mapping of phonon dispersion in BN nanotubes. <i>Nature Communications</i> , 2021 , 12, 1179 | 17.4 | 6 |
| 100 | Review of Liquid Liquid Phase Separation in Crystallization: From Fundamentals to Application. <i>Crystal Growth and Design</i> , | 3.5 | 13 |
| 99 | Theoretical and experimental investigation of protein crystal nucleation in pores and crevices. 2021 , 8, 270-280 | | 1 |
| 98 | Anomalous structure transition in undercooled melt regulates polymorphic selection in barium titanate crystallization. 2021 , 4, | | 3 |
| 97 | Determining the three-dimensional atomic structure of an amorphous solid. <i>Nature</i> , 2021 , 592, 60-64 | 50.4 | 57 |
| 96 | Dimensional transformation of chemical bonding during crystallization in a layered chalcogenide material. <i>Scientific Reports</i> , 2021 , 11, 4782 | 4.9 | 6 |
| 95 | Single-atom level determination of 3-dimensional surface atomic structure via neural network-assisted atomic electron tomography. <i>Nature Communications</i> , 2021 , 12, 1962 | 17.4 | 5 |
| 94 | A New Atomistic Mechanism for Heterogeneous Nucleation in the Systems with Negative Lattice Misfit: Creating a 2D Template for Crystal Growth. 2021 , 11, 478 | | 5 |
| 93 | Three-step nucleation of metal-organic framework nanocrystals. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021 , 118, | 11.5 | 18 |
| 92 | Identification of critical nuclei in the rapid solidification via configuration heredity. 2021, 33, | | |
| 91 | Unveiling the mechanism of phase and morphology selections during the devitrification of Al-Sm amorphous ribbon. 2021 , 5, | | 2 |
| 90 | Topological polar structures in ferroelectric oxide films. 2021 , 129, 200904 | | O |
| 89 | Free energy surface of two-step nucleation. 2021 , 154, 234507 | | 4 |
| 88 | Electron Crystallographic Investigation of Crystals on the Mesostructural Scale. <i>Microscopy and Microanalysis</i> , 2021 , 1-11 | 0.5 | O |
| 87 | Magnetism in curved geometries. 2021 , 129, 210902 | | 13 |
| 86 | Structural Changes of Intermetallic Catalysts under Reaction Conditions. 2021 , 2, 2100011 | | 11 |

(2021-2021)

| 85 | Accurate and Compatible Force Fields for Molecular Oxygen, Nitrogen, and Hydrogen to Simulate Gases, Electrolytes, and Heterogeneous Interfaces. 2021 , 17, 5198-5213 | | 3 |
|----|--|--------------|----|
| 84 | Super-compression of large electron microscopy time series by deep compressive sensing learning. 2021 , 2, 100292 | | 4 |
| 83 | On the role of transmission electron microscopy for precipitation analysis in metallic materials. 1-27 | | 4 |
| 82 | Analytical transmission electron microscopy for emerging advanced materials. <i>Matter</i> , 2021 , 4, 2309-233 | 9 2.7 | 9 |
| 81 | Progressive growth of the solid-electrolyte interphase towards the Si anode interior causes capacity fading. 2021 , 16, 1113-1120 | | 39 |
| 80 | Probing atom dynamics of excited Co-Mo-S nanocrystals in 3D. <i>Nature Communications</i> , 2021 , 12, 5007 | 17.4 | 2 |
| 79 | Temperature-dependent kinetic pathways of heterogeneous ice nucleation competing between classical and non-classical nucleation. <i>Nature Communications</i> , 2021 , 12, 4954 | 17.4 | 2 |
| 78 | Surface stress of gold nanoparticles revisited. 2021 , 224, 111044 | | 2 |
| 77 | Advances and Applications of Atomic-Resolution Scanning Transmission Electron Microscopy. Microscopy and Microanalysis, 2021 , 1-53 | 0.5 | 1 |
| 76 | Capturing 3D atomic defects and phonon localization at the 2D heterostructure interface. <i>Science Advances</i> , 2021 , 7, eabi6699 | 14.3 | 2 |
| 75 | Versatile Pendant Polymer for Selective Charge Carrier Transport via Controlling the Supramolecular Self-Assembly. 2021 , 14, 5167-5178 | | 2 |
| 74 | Atomically precise control in the design of low-nuclearity supported metal catalysts. <i>Nature Reviews Materials</i> , | 73.3 | 17 |
| 73 | Using HOESY NMR Spectroscopy to Characterize Prenucleation Aggregates. <i>Crystal Growth and Design</i> , | 3.5 | 1 |
| 72 | Multistep nucleation of anisotropic molecules. <i>Nature Communications</i> , 2021 , 12, 5278 | 17.4 | 8 |
| 71 | Visualizing Van der Waals Epitaxial Growth of 2D Heterostructures. <i>Advanced Materials</i> , 2021 , 33, e21056 | 2 79 | 7 |
| 70 | Crystallization in melts; exploration of atmospheric ice formation and snowfall. <i>Journal of Crystal Growth</i> , 2021 , 575, 126342 | 1.6 | 1 |
| 69 | Accurate simulation of surfaces and interfaces of ten FCC metals and steel using Lennard I ones potentials. <i>Npj Computational Materials</i> , 2021 , 7, | 10.9 | 4 |
| 68 | Modeling Sigmoidal Transients Using Dispersive Kinetic Models to Predict Nanoparticle Size Distributions. <i>Crystal Growth and Design</i> , 2021 , 21, 1843-1853 | 3.5 | 2 |

| 67 | Unconventional Alloys Confined in Nanoparticles: Building Blocks for New Matter. <i>Matter</i> , 2020 , 3, 164 | 16 <u>-1126</u> 63 | 1 23 |
|----|---|--------------------|------|
| 66 | A molecular dynamics study of heterogeneous nucleation in generic liquid/substrate systems with positive lattice misfit. <i>Materials Research Express</i> , 2020 , 7, 126501 | 1.7 | 4 |
| 65 | Three-dimensional atomic packing in amorphous solids with liquid-like structure. <i>Nature Materials</i> , 2021 , | 27 | 3 |
| 64 | TensorKMC. 2021 , | | 2 |
| 63 | Five-second STEM dislocation tomography for 300′nm thick specimen assisted by deep-learning-based noise filtering. <i>Scientific Reports</i> , 2021 , 11, 20720 | 4.9 | 2 |
| 62 | Robust recognition and exploratory analysis of crystal structures via Bayesian deep learning. <i>Nature Communications</i> , 2021 , 12, 6234 | 17.4 | 3 |
| 61 | The Future of Crystallography Led by Electron Beams. Nihon Kessho Gakkaishi, 2020, 62, 248-252 | O | |
| 60 | Heterointerface Control over Lithium-Induced Phase Transitions in MoS2 Nanosheets: Implications for Nanoscaled Energy Materials. <i>ACS Applied Nano Materials</i> , | 5.6 | 3 |
| 59 | Morphology-Dependent Room-Temperature Ferromagnetism in Undoped ZnO Nanostructures <i>Nanomaterials</i> , 2021 , 11, | 5.4 | 1 |
| 58 | Measuring phonon dispersion at an interface. <i>Nature</i> , 2021 , 599, 399-403 | 50.4 | 6 |
| 57 | Direct Observation of Three-Dimensional Atomic Structure of Twinned Metallic Nanoparticles and Their Catalytic Properties <i>Nano Letters</i> , 2022 , | 11.5 | 3 |
| 56 | On the variability of critical size for homogeneous nucleation in a solid-state diffusional transformation. <i>Journal of Crystal Growth</i> , 2022 , 581, 126491 | 1.6 | 1 |
| 55 | Characterization of nanomaterials dynamics with transmission electron microscope. 2022, | | |
| 54 | Metal-Organic Network-Forming Glasses Chemical Reviews, 2022, | 68.1 | 15 |
| 53 | Two-step nucleation of the Earth's inner core <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022 , 119, | 11.5 | 1 |
| 52 | Recent Studies on TEM/STEM Tomography. <i>Materia Japan</i> , 2022 , 61, 84-88 | 0.1 | |
| 51 | Enhancing the heat transfer and photothermal conversion of salt hydrate phase change material for efficient solar energy utilization. <i>Journal of Energy Storage</i> , 2022 , 49, 104130 | 7.8 | 1 |
| 50 | Surface patterning in alloys. 2022 , 1, 103-104 | | |

| 49 | Oscillatory bifurcation patterns initiated by seeded surface solidification of liquid metals. 2022 , 1, 158 | -169 | 4 |
|----|---|------|----|
| 48 | Unsupervised topological learning approach of crystal nucleation Scientific Reports, 2022, 12, 3195 | 4.9 | 2 |
| 47 | Recent Progress on Revealing 3D Structure of Electrocatalysts Using Advanced 3D Electron Tomography: A Mini Review <i>Frontiers in Chemistry</i> , 2022 , 10, 872117 | 5 | 0 |
| 46 | A measure of active interfaces in supported catalysts for high-temperature reactions. <i>CheM</i> , 2022 , 8, 815-835 | 16.2 | 2 |
| 45 | Dative epitaxy of commensurate monocrystalline covalent-van der Waals moir upercrystal <i>Advanced Materials</i> , 2022 , e2200117 | 24 | 6 |
| 44 | High-entropy nanoparticles: Synthesis-structure-property relationships and data-driven discovery <i>Science</i> , 2022 , 376, eabn3103 | 33.3 | 19 |
| 43 | The effect of post-acquisition data misalignments on the performance of STEM tomography <i>Ultramicroscopy</i> , 2022 , 235, 113498 | 3.1 | |
| 42 | Structural evolution and thermal stability of functionally graded NiTi nano-glass thin films alloys during crystallization. <i>Materials Characterization</i> , 2022 , 187, 111850 | 3.9 | O |
| 41 | Volume imaging by tracking sparse topological features in electron micrograph tilt series <i>Ultramicroscopy</i> , 2022 , 236, 113475 | 3.1 | 0 |
| 40 | Inducing thermodynamically blocked atomic ordering via strongly driven nonequilibrium kinetics <i>Science Advances</i> , 2021 , 7, eabj8552 | 14.3 | 1 |
| 39 | Elastic Properties and Deformation Mechanisms in the van der Waals Single-Crystalline Indium Selenide. <i>Physica Status Solidi - Rapid Research Letters</i> , 2022 , 16, 2100418 | 2.5 | 0 |
| 38 | Video_1.MP4. 2020 , | | |
| 37 | Stoichiometric Ratio Controlled Dimension Transition and Supramolecular Chirality Enhancement in a Two-Component Assembly System. <i>Gels</i> , 2022 , 8, 269 | 4.2 | 0 |
| 36 | Bringing into play automated electron microscopy data processing for understanding nanoparticulate electrocatalysts Istructure-property relationships. <i>Current Opinion in Electrochemistry</i> , 2022 , 101052 | 7.2 | 1 |
| 35 | On the Vitality of the Classical Theory of Crystal Nucleation; Crystal Nucleation in Pure Own Melt; Atmospheric Ice and Snow; Ice in Frozen Foods. <i>Progress in Crystal Growth and Characterization of Materials</i> , 2022 , 68, 100567 | 3.5 | 0 |
| 34 | Anisotropic Molecular Organization at a Liquid/Vapor Interface Promotes Crystal Nucleation with Polymorph Selection. <i>Journal of the American Chemical Society</i> , | 16.4 | 2 |
| 33 | Van der Waals Template-Assisted Low-Temperature Epitaxial Growth of 2D Atomic Crystals. <i>Advanced Functional Materials</i> , 2202580 | 15.6 | 0 |
| 32 | A kinetic transition from peritectic crystallization to amorphous solidification of rapidly quenched refractory Nb-Ni alloy. <i>Acta Materialia</i> , 2022 , 237, 118127 | 8.4 | Ο |

| 31 | Volume Imaging By Tracking Sparse Topological Features In Electron Micrograph Tilt Series. <i>Microscopy and Microanalysis</i> , 2022 , 28, 242-244 | 0.5 |
|----|--|-----|
| 30 | Determining the 3D Atomic Structure of Metallic Glass. <i>Microscopy and Microanalysis</i> , 2022 , 28, 224-226 | 0.5 |
| 29 | Single-Atom Level Determination of 3D Surface Atomic Structure via Neural Network-Assisted Atomic Electron Tomography. 2022 , 28, 236-238 | |
| 28 | Atomic-Scale Structure Dynamics of Nanocrystals Revealed by In-Situ and Environmental Transmission Electron Microscopy. 2206911 | 1 |
| 27 | Organic Crystal Growth: Hierarchical Self-Assembly Involving Nonclassical and Classical Steps. | 0 |
| 26 | High-Resolution Electron Tomography of Ultrathin Boerdijk (Ioxeter B ernal Nanowire Enabled by Superthin Metal Surface Coating. 2203310 | 1 |
| 25 | In situ Observation of Structural Evolution and Phase Engineering of Amorphous Materials during Crystal Nucleation. 2206994 | 0 |
| 24 | Direct strain correlations at the single-atom level in three-dimensional core-shell interface structures. 2022 , 13, | O |
| 23 | Entangled polarizations in ferroelectrics: A focused review of polar topologies. 2022, 118485 | 1 |
| 22 | Non-classical critical precipitates in a nucleation and growth regime: Reconciliation of simulation and experiment. 2022 , 121, 184102 | O |
| 21 | In Situ Kinetic Observations on Crystal Nucleation and Growth. | 8 |
| 20 | Easy control of surface morphology through a natural phenomenon. | O |
| 19 | On how non-facetted crystals affect crystallization processes. 2023 , 190, 54-65 | 1 |
| 18 | Solute Effect on Grain Refinement of Al- and Mg-Alloys: An Overview of the Recent Advances Made by the LiME Research Hub. 2022 , 12, 1488 | O |
| 17 | Towards quantitative determination of atomic structures of amorphous materials in three dimensions. 2022 , | 0 |
| 16 | High entropy materials based electrocatalysts for water splitting: Synthesis strategies, catalytic mechanisms, and prospects. | O |
| 15 | Recent Advances in Polymorph Discovery Methods of Organic Crystals. | 2 |
| 14 | Electron Microscopy Studies of Soft Nanomaterials. | O |

CITATION REPORT

| 13 | Three-dimensional electron tomography and recent expansion of its applications in materials science. | O |
|----|--|---|
| 12 | Observing thermal single particle dynamics of ions and molecules in water with light. | O |
| 11 | Local and Global Order in Dense Packings of Semi-Flexible Polymers of Hard Spheres. 2023 , 15, 551 | 0 |
| 10 | A contemporary look at the accuracy of the double pulse technique for measuring rates of crystal nucleation; molecular-kinetic and non-classical mechanisms of initial growth of the just-born crystals. 2023 , 607, 127101 | О |
| 9 | Frustration in Super-Ionic Conductors Unraveled by the Density of Atomistic States. 2023, 62, | O |
| 8 | Frustration in Super-Ionic Conductors Unraveled by the Density of Atomistic States. 2023 , 135, | o |
| 7 | Closed-loop optimization of nanoparticle synthesis enabled by robotics and machine learning. 2023 , 6, 677-690 | О |
| 6 | Free energy of critical dropletsfrom the binodal to the spinodal. 2023 , 158, 114108 | O |
| 5 | Direct Imaging of the Kinetic Crystallization Pathway: Simulation and Liquid-Phase Transmission Electron Microscopy Observations. 2023 , 16, 2026 | О |
| 4 | Bimetallic Sites for Catalysis: From Binuclear Metal Sites to Bimetallic Nanoclusters and Nanoparticles. | O |
| 3 | Accurate real space iterative reconstruction (RESIRE) algorithm for tomography. 2023, 13, | О |
| 2 | Crystal Polymorph Selection Mechanism of Hard Spheres Hidden in the Fluid. | O |
| 1 | Quantifying the Morphology Evolution of Lithium Battery Materials Using Operando Electron Microscopy. 1506-1526 | 0 |