

Judy Cha

List of Publications by Year in Descending Order

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

111
papers

16,823
citations

51
h-index

116
g-index

116
ext. papers

18,484
ext. citations

12.5
avg, IF

6.57
L-index

| # | Paper | IF | Citations |
|-----|--|------|-----------|
| 111 | Thickness-dependent phase transition kinetics in lithium-intercalated MoS ₂ . <i>2D Materials</i> , 2022 , 9, 0250099 | 3.9 | 0 |
| 110 | Surface Functionalization for Magnetic Property Tuning of Nonmagnetic 2D Materials. <i>Advanced Materials Interfaces</i> , 2022 , 9, 2100463 | 4.6 | 0 |
| 109 | A Gapped Phase in Semimetallic T-WTe Induced by Lithium Intercalation.. <i>Advanced Materials</i> , 2022 , e2200861 | 24 | 0 |
| 108 | Unconventional grain growth suppression in oxygen-rich metal oxide nanoribbons. <i>Science Advances</i> , 2021 , 7, eabh2012 | 14.3 | 3 |
| 107 | Surface characterization of ultrathin atomic layer deposited molybdenum oxide films using high-sensitivity low-energy ion scattering. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2021 , 39, 063210 | 2.9 | 0 |
| 106 | Materials for interconnects. <i>MRS Bulletin</i> , 2021 , 46, 959 | 3.2 | 9 |
| 105 | Synergistic Integration of Chemo-Resistive and SERS Sensing for Label-Free Multiplex Gas Detection (Adv. Mater. 44/2021). <i>Advanced Materials</i> , 2021 , 33, 2170350 | 24 | |
| 104 | Synthesis of Narrow SnTe Nanowires Using Alloy Nanoparticles. <i>ACS Applied Electronic Materials</i> , 2021 , 3, 184-191 | 4 | 2 |
| 103 | Revisiting Intercalation-Induced Phase Transitions in 2D Group VI Transition Metal Dichalcogenides. <i>Advanced Energy and Sustainability Research</i> , 2021 , 2, 2100027 | 1.6 | 4 |
| 102 | cm-Scale Synthesis of MoTe Thin Films with Large Grains and Layer Control. <i>ACS Nano</i> , 2021 , 15, 410-418 | 16.7 | 12 |
| 101 | Heterointerface Effects on Lithium-Induced Phase Transitions in Intercalated MoS. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 10603-10611 | 9.5 | 8 |
| 100 | Structure-Transport Properties of Topological Nanowires. <i>Microscopy and Microanalysis</i> , 2021 , 27, 920-921 | 15 | 1 |
| 99 | 1D topological systems for next-generation electronics. <i>Matter</i> , 2021 , 4, 2596-2598 | 12.7 | 3 |
| 98 | Angstrom-scale replication of surfaces with crystallized bulk metallic glasses. <i>Materials Today Nano</i> , 2021 , 16, 100145 | 9.7 | 1 |
| 97 | Synergistic Integration of Chemo-Resistive and SERS Sensing for Label-Free Multiplex Gas Detection. <i>Advanced Materials</i> , 2021 , 33, e2105199 | 24 | 4 |
| 96 | The Effect of Mechanical Strain on Lithium Staging in Graphene. <i>Advanced Electronic Materials</i> , 2021 , 7, 2000981 | 6.4 | 4 |
| 95 | Near-Unity Molecular Doping Efficiency in Monolayer MoS ₂ . <i>Advanced Electronic Materials</i> , 2021 , 7, 2000873 | 6.4 | 9 |

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|----|---|------|----|
| 94 | A Highly Efficient All-Solid-State Lithium/Electrolyte Interface Induced by an Energetic Reaction. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 14003-14008 | 16.4 | 33 |
| 93 | General Nanomolding of Ordered Phases. <i>Physical Review Letters</i> , 2020 , 124, 036102 | 7.4 | 11 |
| 92 | Synthesis and resistivity of topological metal MoP nanostructures. <i>APL Materials</i> , 2020 , 8, 011103 | 5.7 | 7 |
| 91 | Crossover between weak antilocalization and weak localization in few-layer WTe ₂ : Role of electron-electron interactions. <i>Physical Review B</i> , 2020 , 102, | 3.3 | 3 |
| 90 | Self-Healing of a Confined Phase Change Memory Device with a Metallic Surfactant Layer. <i>Microscopy and Microanalysis</i> , 2019 , 25, 1870-1871 | 0.5 | 0 |
| 89 | Synthesis of WTe Nanowires with Increased Electron Scattering. <i>ACS Nano</i> , 2019 , 13, 6455-6460 | 16.7 | 14 |
| 88 | Topological nanomaterials. <i>Nature Reviews Materials</i> , 2019 , 4, 479-496 | 73.3 | 77 |
| 87 | Formation and stability of complex metallic phases including quasicrystals explored through combinatorial methods. <i>Scientific Reports</i> , 2019 , 9, 7136 | 4.9 | 14 |
| 86 | Recent progress on in situ characterizations of electrochemically intercalated transition metal dichalcogenides. <i>Nano Research</i> , 2019 , 12, 2126-2139 | 10 | 19 |
| 85 | The development of 2D materials for electrochemical energy applications: A mechanistic approach. <i>APL Materials</i> , 2019 , 7, 030902 | 5.7 | 16 |
| 84 | Unveiling the Interfacial Effects for Enhanced Hydrogen Evolution Reaction on MoS ₂ /WTe ₂ Hybrid Structures. <i>Small</i> , 2019 , 15, e1900078 | 11 | 27 |
| 83 | Supercluster-coupled crystal growth in metallic glass forming liquids. <i>Nature Communications</i> , 2019 , 10, 915 | 17.4 | 19 |
| 82 | Supercluster-Coupled Crystal Growth in Metallic Glass Forming Liquids. <i>Microscopy and Microanalysis</i> , 2019 , 25, 1410-1411 | 0.5 | |
| 81 | Structure-Property Relationships of Topological Insulator Nanomaterials. <i>Microscopy and Microanalysis</i> , 2019 , 25, 962-963 | 0.5 | |
| 80 | Dislocation-driven SnTe surface defects during chemical vapor deposition growth. <i>Journal of Physics and Chemistry of Solids</i> , 2019 , 128, 351-359 | 3.9 | 6 |
| 79 | Stable Water Oxidation in Acid Using Manganese-Modified TiO ₂ Protective Coatings. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 18805-18815 | 9.5 | 17 |
| 78 | Revealing the Contribution of Individual Factors to Hydrogen Evolution Reaction Catalytic Activity. <i>Advanced Materials</i> , 2018 , 30, e1706076 | 24 | 54 |
| 77 | Self-Healing of a Confined Phase Change Memory Device with a Metallic Surfactant Layer. <i>Advanced Materials</i> , 2018 , 30, 1705587 | 24 | 48 |

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|----|--|------|-----|
| 76 | Synthesis of Crystalline Black Phosphorus Thin Film on Sapphire. <i>Advanced Materials</i> , 2018 , 30, 1703748 | 24 | 67 |
| 75 | Dual Tuning of Ni-Co-A (A = P, Se, O) Nanosheets by Anion Substitution and Holey Engineering for Efficient Hydrogen Evolution. <i>Journal of the American Chemical Society</i> , 2018 , 140, 5241-5247 | 16.4 | 347 |
| 74 | Stepwise Sulfurization from MoO ₃ to MoS ₂ via Chemical Vapor Deposition. <i>ACS Applied Nano Materials</i> , 2018 , 1, 5655-5661 | 5.6 | 48 |
| 73 | Direct Synthesis of Large-Scale WTe ₂ Thin Films with Low Thermal Conductivity. <i>Advanced Functional Materials</i> , 2017 , 27, 1605928 | 15.6 | 64 |
| 72 | Strong Metal-Phosphide Interactions in Core-Shell Geometry for Enhanced Electrocatalysis. <i>Nano Letters</i> , 2017 , 17, 2057-2063 | 11.5 | 121 |
| 71 | Semipolar (202 1) GaN and InGaN Light-Emitting Diodes Grown on Sapphire. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 14088-14092 | 9.5 | 18 |
| 70 | Efficient electrical control of thin-film black phosphorus bandgap. <i>Nature Communications</i> , 2017 , 8, 14474 | 17.4 | 183 |
| 69 | Ultrathin dendrimer-graphene oxide composite film for stable cycling lithium-sulfur batteries. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, 3578-3583 | 11.5 | 78 |
| 68 | Direct Observation Through In Situ Transmission Electron Microscope of Early States of Crystallization in Nanoscale Metallic Glasses. <i>Jom</i> , 2017 , 69, 2187-2191 | 2.1 | 5 |
| 67 | Effective Interlayer Engineering of Two-Dimensional VOPO Nanosheets via Controlled Organic Intercalation for Improving Alkali Ion Storage. <i>Nano Letters</i> , 2017 , 17, 6273-6279 | 11.5 | 84 |
| 66 | Synthesis and superconductivity of In-doped SnTe nanostructures. <i>APL Materials</i> , 2017 , 5, 076110 | 5.7 | 10 |
| 65 | Tailoring crystallization phases in metallic glass nanorods via nucleus starvation. <i>Nature Communications</i> , 2017 , 8, 1980 | 17.4 | 27 |
| 64 | General Facet-Controlled Synthesis of Single-Crystalline {010}-Oriented LiMPO ₄ (M = Mn, Fe, Co) Nanosheets. <i>Chemistry of Materials</i> , 2017 , 29, 10526-10533 | 9.6 | 21 |
| 63 | Suppression of Magnetoresistance in Thin WTe Flakes by Surface Oxidation. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 23175-23180 | 9.5 | 29 |
| 62 | Emulating Bilingual Synaptic Response Using a Junction-Based Artificial Synaptic Device. <i>ACS Nano</i> , 2017 , 11, 7156-7163 | 16.7 | 75 |
| 61 | Structural Phase Transition and Carrier Density Tuning in Sn ₆ xTe _{1-x} Nanoplates. <i>Advanced Electronic Materials</i> , 2016 , 2, 1600144 | 6.4 | 7 |
| 60 | Nanoscale Size Effects on Crystallization Kinetics of Metallic Glass Nanorods by In Situ TEM. <i>Microscopy and Microanalysis</i> , 2016 , 22, 768-769 | 0.5 | 5 |
| 59 | Anisotropic Black Phosphorus Synaptic Device for Neuromorphic Applications. <i>Advanced Materials</i> , 2016 , 28, 4991-7 | 24 | 217 |

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|----|--|------|------|
| 58 | Intercalation in two-dimensional transition metal chalcogenides. <i>Inorganic Chemistry Frontiers</i> , 2016 , 3, 452-463 | 6.8 | 130 |
| 57 | One-Step Synthesis of MoS ₂ /WS ₂ Layered Heterostructures and Catalytic Activity of Defective Transition Metal Dichalcogenide Films. <i>ACS Nano</i> , 2016 , 10, 2004-9 | 16.7 | 135 |
| 56 | Revealing Surface States in In-Doped SnTe Nanoplates with Low Bulk Mobility. <i>Nano Letters</i> , 2015 , 15, 3827-32 | 11.5 | 41 |
| 55 | Recent Advances in Two-Dimensional Materials beyond Graphene. <i>ACS Nano</i> , 2015 , 9, 11509-39 | 16.7 | 1581 |
| 54 | Nanoscale size effects in crystallization of metallic glass nanorods. <i>Nature Communications</i> , 2015 , 6, 8157-7.4 | 50 | |
| 53 | Microscopy and Chemical Analysis of Topological Insulator Bi ₂ Se ₃ and Topological Crystalline Insulator SnTe Nanostructures. <i>Microscopy and Microanalysis</i> , 2015 , 21, 1535-1536 | 0.5 | |
| 52 | Highly conductive single-walled carbon nanotube thin film preparation by direct alignment on substrates from water dispersions. <i>Langmuir</i> , 2015 , 31, 1155-63 | 4 | 15 |
| 51 | Improving lithium-sulphur batteries through spatial control of sulphur species deposition on a hybrid electrode surface. <i>Nature Communications</i> , 2014 , 5, 3943 | 17.4 | 341 |
| 50 | Metal seed layer thickness-induced transition from vertical to horizontal growth of MoS ₂ and WS ₂ . <i>Nano Letters</i> , 2014 , 14, 6842-9 | 11.5 | 208 |
| 49 | Chemically synthesized heterostructures of two-dimensional molybdenum/tungsten-based dichalcogenides with vertically aligned layers. <i>ACS Nano</i> , 2014 , 8, 9550-7 | 16.7 | 67 |
| 48 | Surface effects on electronic transport of 2D chalcogenide thin films and nanostructures. <i>Nano Convergence</i> , 2014 , 1, 18 | 9.2 | 23 |
| 47 | Synthesis of SnTe nanoplates with {100} and {111} surfaces. <i>Nano Letters</i> , 2014 , 14, 4183-8 | 11.5 | 66 |
| 46 | Topological crystalline insulator nanostructures. <i>Nanoscale</i> , 2014 , 6, 14133-40 | 7.7 | 29 |
| 45 | One-dimensional helical transport in topological insulator nanowire interferometers. <i>Nano Letters</i> , 2014 , 14, 2815-21 | 11.5 | 103 |
| 44 | Tunable Plasmon and Optical Properties of Chalcogenide Nanoplates Using Monochromated Electron Energy Loss Spectroscopy. <i>Microscopy and Microanalysis</i> , 2014 , 20, 574-575 | 0.5 | |
| 43 | Spatially resolved In and As distributions in InGaAs/GaP and InGaAs/GaAs quantum dot systems. <i>Microscopy and Microanalysis</i> , 2014 , 20, 614-615 | 0.5 | |
| 42 | Optical transmission enhancement through chemically tuned two-dimensional bismuth chalcogenide nanoplates. <i>Nature Communications</i> , 2014 , 5, 5670 | 17.4 | 79 |
| 41 | Spatially resolved In and As distributions in InGaAs/GaP and InGaAs/GaAs quantum dot systems. <i>Nanotechnology</i> , 2014 , 25, 465702 | 3.4 | 2 |

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|----|---|------|------|
| 40 | First-row transition metal dichalcogenide catalysts for hydrogen evolution reaction. <i>Energy and Environmental Science</i> , 2013 , 6, 3553 | 35.4 | 828 |
| 39 | Electrochemical tuning of vertically aligned MoS ₂ nanofilms and its application in improving hydrogen evolution reaction. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 19701-6 | 11.5 | 747 |
| 38 | Two-dimensional chalcogenide nanoplates as tunable metamaterials via chemical intercalation. <i>Nano Letters</i> , 2013 , 13, 5913-8 | 11.5 | 60 |
| 37 | Amphiphilic surface modification of hollow carbon nanofibers for improved cycle life of lithium sulfur batteries. <i>Nano Letters</i> , 2013 , 13, 1265-70 | 11.5 | 615 |
| 36 | Synthesis of MoS ₂ and MoSe ₂ films with vertically aligned layers. <i>Nano Letters</i> , 2013 , 13, 1341-7 | 11.5 | 1746 |
| 35 | Ambipolar field effect in Sb-doped Bi ₂ Se ₃ nanoplates by solvothermal synthesis. <i>Nano Letters</i> , 2013 , 13, 632-6 | 11.5 | 50 |
| 34 | MoSe ₂ and WSe ₂ nanofilms with vertically aligned molecular layers on curved and rough surfaces. <i>Nano Letters</i> , 2013 , 13, 3426-33 | 11.5 | 579 |
| 33 | Topological insulator nanostructures. <i>Physica Status Solidi - Rapid Research Letters</i> , 2013 , 7, 15-25 | 2.5 | 58 |
| 32 | Functionalization of silicon nanowire surfaces with metal-organic frameworks. <i>Nano Research</i> , 2012 , 5, 109-116 | 10 | 55 |
| 31 | Weak antilocalization in Bi ₂ (Se(x)Te(1-x)) ₃ nanoribbons and nanoplates. <i>Nano Letters</i> , 2012 , 12, 1107-11 | 11.5 | 154 |
| 30 | High-mobility field-effect transistors from large-area solution-grown aligned C60 single crystals. <i>Journal of the American Chemical Society</i> , 2012 , 134, 2760-5 | 16.4 | 427 |
| 29 | Chemical intercalation of zerovalent metals into 2D layered Bi ₂ Se ₃ nanoribbons. <i>Journal of the American Chemical Society</i> , 2012 , 134, 13773-9 | 16.4 | 117 |
| 28 | Effects of magnetic doping on weak antilocalization in narrow Bi ₂ Se ₃ nanoribbons. <i>Nano Letters</i> , 2012 , 12, 4355-9 | 11.5 | 59 |
| 27 | Topological insulators: The surface surfaces. <i>Nature Nanotechnology</i> , 2012 , 7, 85-6 | 28.7 | 17 |
| 26 | Self-limited plasmonic welding of silver nanowire junctions. <i>Nature Materials</i> , 2012 , 11, 241-9 | 27 | 891 |
| 25 | Ultra-low carrier concentration and surface-dominant transport in antimony-doped Bi ₂ Se ₃ topological insulator nanoribbons. <i>Nature Communications</i> , 2012 , 3, 757 | 17.4 | 175 |
| 24 | High-density chemical intercalation of zero-valent copper into Bi ₂ Se ₃ nanoribbons. <i>Journal of the American Chemical Society</i> , 2012 , 134, 7584-7 | 16.4 | 122 |
| 23 | Ambipolar field effect in the ternary topological insulator (Bi(x)Sb(1-x)) ₂ Te ₃ by composition tuning. <i>Nature Nanotechnology</i> , 2011 , 6, 705-9 | 28.7 | 311 |

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|----|---|------|------|
| 22 | Improving the performance of lithium-sulfur batteries by conductive polymer coating. <i>ACS Nano</i> , 2011 , 5, 9187-93 | 16.7 | 756 |
| 21 | Stackable nonvolatile memory with ultra thin polysilicon film and low-leakage (Ti,Dy) _x O _y for low processing temperature and low operating voltages. <i>Microelectronic Engineering</i> , 2011 , 88, 3462-3465 | 2.5 | |
| 20 | Hollow carbon nanofiber-encapsulated sulfur cathodes for high specific capacity rechargeable lithium batteries. <i>Nano Letters</i> , 2011 , 11, 4462-7 | 11.5 | 1096 |
| 19 | DNAsomes: Multifunctional DNA-based nanocarriers. <i>Small</i> , 2011 , 7, 74-8 | 11 | 66 |
| 18 | In situ transmission electron microscopy observation of nanostructural changes in phase-change memory. <i>ACS Nano</i> , 2011 , 5, 2742-8 | 16.7 | 40 |
| 17 | One nanometer resolution electrical probe via atomic metal filament formation. <i>Nano Letters</i> , 2011 , 11, 231-5 | 11.5 | 23 |
| 16 | Low reflectivity and high flexibility of tin-doped indium oxide nanofiber transparent electrodes. <i>Journal of the American Chemical Society</i> , 2011 , 133, 27-9 | 16.4 | 85 |
| 15 | Highly conductive, mechanically robust, and electrochemically inactive TiC/C nanofiber scaffold for high-performance silicon anode batteries. <i>ACS Nano</i> , 2011 , 5, 8346-51 | 16.7 | 109 |
| 14 | Rapid surface oxidation as a source of surface degradation factor for Bi ₂ Se ₃ . <i>ACS Nano</i> , 2011 , 5, 4698-703 | 16.7 | 279 |
| 13 | Nano-structured textiles as high-performance aqueous cathodes for microbial fuel cells. <i>Energy and Environmental Science</i> , 2011 , 4, 1293 | 35.4 | 67 |
| 12 | Magnetic doping and kondo effect in bi(2)se(3) nanoribbons. <i>Nano Letters</i> , 2010 , 10, 1076-81 | 11.5 | 109 |
| 11 | Electrospun metal nanofiber webs as high-performance transparent electrode. <i>Nano Letters</i> , 2010 , 10, 4242-8 | 11.5 | 610 |
| 10 | New nanostructured Li ₂ S/silicon rechargeable battery with high specific energy. <i>Nano Letters</i> , 2010 , 10, 1486-91 | 11.5 | 547 |
| 9 | Ultrathin topological insulator Bi ₂ Se ₃ nanoribbons exfoliated by atomic force microscopy. <i>Nano Letters</i> , 2010 , 10, 3118-22 | 11.5 | 148 |
| 8 | Few-layer nanoplates of Bi ₂ Se ₃ and Bi ₂ Te ₃ with highly tunable chemical potential. <i>Nano Letters</i> , 2010 , 10, 2245-50 | 11.5 | 370 |
| 7 | Topological insulator nanowires and nanoribbons. <i>Nano Letters</i> , 2010 , 10, 329-33 | 11.5 | 263 |
| 6 | High magnetoresistance tunnel junctions with MgB ₂ barriers and NiBe free electrodes. <i>Applied Physics Letters</i> , 2009 , 94, 112504 | 3.4 | 18 |
| 5 | Free-standing nanoparticle superlattice sheets controlled by DNA. <i>Nature Materials</i> , 2009 , 8, 519-25 | 27 | 344 |

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| 4 | Multifunctional nanoarchitectures from DNA-based ABC monomers. <i>Nature Nanotechnology</i> , 2009 , 4, 430-6 | 28.7 | 144 |
| 3 | Three-Dimensional Imaging of Carbon Nanotubes Deformed by Metal Islands. <i>Nano Letters</i> , 2007 , 7, 3770-3773 | 13.29 | |
| 2 | Heterointerface Control over Lithium-Induced Phase Transitions in MoS ₂ Nanosheets: Implications for Nanoscaled Energy Materials. <i>ACS Applied Nano Materials</i> , | 5.6 | 3 |
| 1 | Compact Super Electron-Donor to Monolayer MoS ₂ . <i>Nano Letters</i> , | 11.5 | 2 |