

Judy Cha

List of Publications by Citations

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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	Synthesis of MoS ₂ and MoSe ₂ films with vertically aligned layers. <i>Nano Letters</i> , 2013 , 13, 1341-7	11.5	1746
110	Recent Advances in Two-Dimensional Materials beyond Graphene. <i>ACS Nano</i> , 2015 , 9, 11509-39	16.7	1581
109	Hollow carbon nanofiber-encapsulated sulfur cathodes for high specific capacity rechargeable lithium batteries. <i>Nano Letters</i> , 2011 , 11, 4462-7	11.5	1096
108	Self-limited plasmonic welding of silver nanowire junctions. <i>Nature Materials</i> , 2012 , 11, 241-9	27	891
107	First-row transition metal dichalcogenide catalysts for hydrogen evolution reaction. <i>Energy and Environmental Science</i> , 2013 , 6, 3553	35.4	828
106	Improving the performance of lithium-sulfur batteries by conductive polymer coating. <i>ACS Nano</i> , 2011 , 5, 9187-93	16.7	756
105	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
104	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
103	Electrospun metal nanofiber webs as high-performance transparent electrode. <i>Nano Letters</i> , 2010 , 10, 4242-8	11.5	610
102	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
101	New nanostructured Li ₂ S/silicon rechargeable battery with high specific energy. <i>Nano Letters</i> , 2010 , 10, 1486-91	11.5	547
100	High-mobility field-effect transistors from large-area solution-grown aligned C ₆₀ single crystals. <i>Journal of the American Chemical Society</i> , 2012 , 134, 2760-5	16.4	427
99	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
98	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
97	Free-standing nanoparticle superlattice sheets controlled by DNA. <i>Nature Materials</i> , 2009 , 8, 519-25	27	344
96	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
95	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

94	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
93	Topological insulator nanowires and nanoribbons. <i>Nano Letters</i> , 2010 , 10, 329-33	11.5	263
92	Anisotropic Black Phosphorus Synaptic Device for Neuromorphic Applications. <i>Advanced Materials</i> , 2016 , 28, 4991-7	24	217
91	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
90	Efficient electrical control of thin-film black phosphorus bandgap. <i>Nature Communications</i> , 2017 , 8, 14474-4	17.4	183
89	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
88	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
87	Ultrathin topological insulator Bi ₂ Se ₃ nanoribbons exfoliated by atomic force microscopy. <i>Nano Letters</i> , 2010 , 10, 3118-22	11.5	148
86	Multifunctional nanoarchitectures from DNA-based ABC monomers. <i>Nature Nanotechnology</i> , 2009 , 4, 430-6	28.7	144
85	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
84	Intercalation in two-dimensional transition metal chalcogenides. <i>Inorganic Chemistry Frontiers</i> , 2016 , 3, 452-463	6.8	130
83	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
82	Strong Metal-Phosphide Interactions in Core-Shell Geometry for Enhanced Electrocatalysis. <i>Nano Letters</i> , 2017 , 17, 2057-2063	11.5	121
81	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
80	Magnetic doping and kondo effect in Bi ₂ Se ₃ nanoribbons. <i>Nano Letters</i> , 2010 , 10, 1076-81	11.5	109
79	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
78	One-dimensional helical transport in topological insulator nanowire interferometers. <i>Nano Letters</i> , 2014 , 14, 2815-21	11.5	103
77	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

76	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
75	Optical transmission enhancement through chemically tuned two-dimensional bismuth chalcogenide nanoplates. <i>Nature Communications</i> , 2014 , 5, 5670	17.4	79
74	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
73	Topological nanomaterials. <i>Nature Reviews Materials</i> , 2019 , 4, 479-496	73.3	77
72	Emulating Bilingual Synaptic Response Using a Junction-Based Artificial Synaptic Device. <i>ACS Nano</i> , 2017 , 11, 7156-7163	16.7	75
71	Synthesis of Crystalline Black Phosphorus Thin Film on Sapphire. <i>Advanced Materials</i> , 2018 , 30, 1703748	24	67
70	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
69	Nano-structured textiles as high-performance aqueous cathodes for microbial fuel cells. <i>Energy and Environmental Science</i> , 2011 , 4, 1293	35.4	67
68	Synthesis of SnTe nanoplates with {100} and {111} surfaces. <i>Nano Letters</i> , 2014 , 14, 4183-8	11.5	66
67	DNAsomes: Multifunctional DNA-based nanocarriers. <i>Small</i> , 2011 , 7, 74-8	11	66
66	Direct Synthesis of Large-Scale WTe ₂ Thin Films with Low Thermal Conductivity. <i>Advanced Functional Materials</i> , 2017 , 27, 1605928	15.6	64
65	Two-dimensional chalcogenide nanoplates as tunable metamaterials via chemical intercalation. <i>Nano Letters</i> , 2013 , 13, 5913-8	11.5	60
64	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
63	Topological insulator nanostructures. <i>Physica Status Solidi - Rapid Research Letters</i> , 2013 , 7, 15-25	2.5	58
62	Functionalization of silicon nanowire surfaces with metal-organic frameworks. <i>Nano Research</i> , 2012 , 5, 109-116	10	55
61	Revealing the Contribution of Individual Factors to Hydrogen Evolution Reaction Catalytic Activity. <i>Advanced Materials</i> , 2018 , 30, e1706076	24	54
60	Nanoscale size effects in crystallization of metallic glass nanorods. <i>Nature Communications</i> , 2015 , 6, 8157	7.4	50
59	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

58	Self-Healing of a Confined Phase Change Memory Device with a Metallic Surfactant Layer. <i>Advanced Materials</i> , 2018 , 30, 1705587	24	48
57	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
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	In situ transmission electron microscopy observation of nanostructural changes in phase-change memory. <i>ACS Nano</i> , 2011 , 5, 2742-8	16.7	40
54	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
53	Topological crystalline insulator nanostructures. <i>Nanoscale</i> , 2014 , 6, 14133-40	7.7	29
52	Suppression of Magnetoresistance in Thin WTe Flakes by Surface Oxidation. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 23175-23180	9.5	29
51	Three-Dimensional Imaging of Carbon Nanotubes Deformed by Metal Islands. <i>Nano Letters</i> , 2007 , 7, 3770-3773	13.7	29
50	Unveiling the Interfacial Effects for Enhanced Hydrogen Evolution Reaction on MoS ₂ /WTe Hybrid Structures. <i>Small</i> , 2019 , 15, e1900078	11	27
49	Tailoring crystallization phases in metallic glass nanorods via nucleus starvation. <i>Nature Communications</i> , 2017 , 8, 1980	17.4	27
48	Surface effects on electronic transport of 2D chalcogenide thin films and nanostructures. <i>Nano Convergence</i> , 2014 , 1, 18	9.2	23
47	One nanometer resolution electrical probe via atomic metal filament formation. <i>Nano Letters</i> , 2011 , 11, 231-5	11.5	23
46	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
45	Recent progress on in situ characterizations of electrochemically intercalated transition metal dichalcogenides. <i>Nano Research</i> , 2019 , 12, 2126-2139	10	19
44	Supercluster-coupled crystal growth in metallic glass forming liquids. <i>Nature Communications</i> , 2019 , 10, 915	17.4	19
43	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
42	High magnetoresistance tunnel junctions with MgB ₂ barriers and NiBe free electrodes. <i>Applied Physics Letters</i> , 2009 , 94, 112504	3.4	18
41	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

40	Topological insulators: The surface surfaces. <i>Nature Nanotechnology</i> , 2012 , 7, 85-6	28.7	17
39	The development of 2D materials for electrochemical energy applications: A mechanistic approach. <i>APL Materials</i> , 2019 , 7, 030902	5.7	16
38	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
37	Synthesis of WTe Nanowires with Increased Electron Scattering. <i>ACS Nano</i> , 2019 , 13, 6455-6460	16.7	14
36	Formation and stability of complex metallic phases including quasicrystals explored through combinatorial methods. <i>Scientific Reports</i> , 2019 , 9, 7136	4.9	14
35	cm-Scale Synthesis of MoTe Thin Films with Large Grains and Layer Control. <i>ACS Nano</i> , 2021 , 15, 410-418	16.7	12
34	General Nanomolding of Ordered Phases. <i>Physical Review Letters</i> , 2020 , 124, 036102	7.4	11
33	Synthesis and superconductivity of In-doped SnTe nanostructures. <i>APL Materials</i> , 2017 , 5, 076110	5.7	10
32	Materials for interconnects. <i>MRS Bulletin</i> , 2021 , 46, 959	3.2	9
31	Near-Unity Molecular Doping Efficiency in Monolayer MoS ₂ . <i>Advanced Electronic Materials</i> , 2021 , 7, 2000873	8.73	9
30	Heterointerface Effects on Lithium-Induced Phase Transitions in Intercalated MoS. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 10603-10611	9.5	8
29	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
28	Synthesis and resistivity of topological metal MoP nanostructures. <i>APL Materials</i> , 2020 , 8, 011103	5.7	7
27	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
26	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
25	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
24	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
23	Synergistic Integration of Chemo-Resistive and SERS Sensing for Label-Free Multiplex Gas Detection. <i>Advanced Materials</i> , 2021 , 33, e2105199	24	4

22	The Effect of Mechanical Strain on Lithium Staging in Graphene. <i>Advanced Electronic Materials</i> , 2021 , 7, 2000981	6.4	4
21	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
20	Unconventional grain growth suppression in oxygen-rich metal oxide nanoribbons. <i>Science Advances</i> , 2021 , 7, eabh2012	14.3	3
19	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
18	1D topological systems for next-generation electronics. <i>Matter</i> , 2021 , 4, 2596-2598	12.7	3
17	Spatially resolved In and As distributions in InGaAs/GaP and InGaAs/GaAs quantum dot systems. <i>Nanotechnology</i> , 2014 , 25, 465702	3.4	2
16	Synthesis of Narrow SnTe Nanowires Using Alloy Nanoparticles. <i>ACS Applied Electronic Materials</i> , 2021 , 3, 184-191	4	2
15	Compact Super Electron-Donor to Monolayer MoS ₂ . <i>Nano Letters</i> ,	11.5	2
14	Structure-Transport Properties of Topological Nanowires. <i>Microscopy and Microanalysis</i> , 2021 , 27, 920-9215	15	1
13	Angstrom-scale replication of surfaces with crystallized bulk metallic glasses. <i>Materials Today Nano</i> , 2021 , 16, 100145	9.7	1
12	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
11	Thickness-dependent phase transition kinetics in lithium-intercalated MoS ₂ . <i>2D Materials</i> , 2022 , 9, 025009	9	0
10	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
9	Surface Functionalization for Magnetic Property Tuning of Nonmagnetic 2D Materials. <i>Advanced Materials Interfaces</i> , 2022 , 9, 2100463	4.6	0
8	A Gapped Phase in Semimetallic T -WTe Induced by Lithium Intercalation.. <i>Advanced Materials</i> , 2022 , e2200861	24	0
7	Supercluster-Coupled Crystal Growth in Metallic Glass Forming Liquids. <i>Microscopy and Microanalysis</i> , 2019 , 25, 1410-1411	0.5	
6	Structure-Property Relationships of Topological Insulator Nanomaterials. <i>Microscopy and Microanalysis</i> , 2019 , 25, 962-963	0.5	
5	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	

4	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
3	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
2	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
1	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