

Chuan-Hong Jin

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.

189
papers

18,703
citations

62
h-index

136
g-index

199
ext. papers

21,108
ext. citations

10.3
avg, IF

6.59
L-index

#	Paper	IF	Citations
189	Confinement effect induced conformation change of one-dimensional phosphorus chains filled in carbon nanotubes. <i>Carbon</i> , 2022 , 189, 467-473	10.4	0
188	Three-dimensional stacked filter (3DSF): a nonlinear filter for series images of TEM. <i>Ultramicroscopy</i> , 2022 , 240, 113560	3.1	0
187	Single-layer Mo ₅ Te ₈ [A new polymorph of layered transition-metal chalcogenide. <i>2D Materials</i> , 2021 , 8, 015006	5.9	3
186	In situ transmission electron microscopy study of the formation and migration of vacancy defects in atomically thin black phosphorus. <i>2D Materials</i> , 2021 , 8, 025004	5.9	5
185	A microscopic TEM study of the defect layers in cast-mono crystalline silicon wafers induced by diamond-wire sawing. <i>AIP Advances</i> , 2021 , 11, 045103	1.5	1
184	Monolithic Integration of Vertical Thin-Film Transistors in Nanopores for Charge Sensing of Single Biomolecules. <i>ACS Nano</i> , 2021 , 15, 9882-9889	16.7	5
183	Revealing Au as Elementary Clusters During the Early Formation of Au Nanocrystals. <i>Journal of Physical Chemistry Letters</i> , 2021 , 12, 5938-5943	6.4	1
182	Self-feeding formation of atomically thin molybdenum nanoflakes on MoS ₂ monolayer. <i>2D Materials</i> , 2021 , 8, 035054	5.9	0
181	Microdefect Characteristics in Cast-Mono Silicon Wafers Induced by Slurry Sawing. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2021 , 218, 2000258	1.6	3
180	Synergy between Structure Characteristics and the Solution Chemistry in a Near/Non-Equilibrium Oxidative Etching of Penta-Twinned Palladium Nanorods. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 4010-4020	3.8	2
179	Selective Synthesis of Carbon Nanorings via Asymmetric Intramolecular Phase-Transition-Induced Tip-to-Tip Assembly. <i>ACS Central Science</i> , 2021 , 7, 1493-1499	16.8	2
178	Interlayer Coupling Dependent Discrete H ₂ Phase Transition in Lithium Intercalated Bilayer Molybdenum Disulfide. <i>ACS Nano</i> , 2021 , 15, 15039-15046	16.7	2
177	TEM study of edge reconstruction and evolution in monolayer black phosphorus. <i>Nanoscale</i> , 2021 , 13, 4133-4139	7.7	4
176	Interactions of sub-five-nanometer diameter colloidal palladium nanoparticles in solution investigated liquid cell transmission electron microscopy.. <i>RSC Advances</i> , 2020 , 10, 34781-34787	3.7	2
175	Aligned, high-density semiconducting carbon nanotube arrays for high-performance electronics. <i>Science</i> , 2020 , 368, 850-856	33.3	136
174	Space-confined and substrate-directed synthesis of transition-metal dichalcogenide nanostructures with tunable dimensionality. <i>Science Bulletin</i> , 2020 , 65, 1013-1021	10.6	14
173	Deriving 2D MX (M = Mo, W, X = S, Se) by periodic assembly of chalcogen vacancy lines in their MX counterparts. <i>Nanoscale</i> , 2020 , 12, 8285-8293	7.7	9

172	Quantum Confined Tomonaga-Luttinger Liquid in MoSe Nanowires Converted from an Epitaxial MoSe Monolayer. <i>Nano Letters</i> , 2020 , 20, 2094-2099	11.5	17
171	Niobium doping induced mirror twin boundaries in MBE grown WSe2 monolayers. <i>Nano Research</i> , 2020 , 13, 1889-1896	10	9
170	Reversible H-T γ phase transition in monolayer molybdenum disulfide via electron beam assisted solid state lithiation/delithiation. <i>Applied Physics Letters</i> , 2020 , 116, 033103	3.4	4
169	Structural Phase Transition of Multilayer VSe. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 25143-25149	5.1	14
168	Defect Physics in 2D Nanomaterials Explored by STEM/STM 2020 , 21-48		
167	A Shallow Acceptor of Phosphorous Doped in MoSe2 Monolayer. <i>Advanced Electronic Materials</i> , 2020 , 6, 1900830	6.4	8
166	Preparation of Twisted Bilayer Graphene via the Wetting Transfer Method. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 40958-40967	9.5	11
165	Post-synthesis Tellurium Doping Induced Mirror Twin Boundaries in Monolayer Molybdenum Disulfide. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 4758	2.6	1
164	Unveiling Growth Pathways of Multiply Twinned Gold Nanoparticles by Liquid Cell Transmission Electron Microscopy. <i>ACS Nano</i> , 2020 , 14, 9594-9604	16.7	14
163	The formation and shape transformation mechanism of a triangular Au nanoplate revealed by liquid-cell TEM. <i>Nanoscale</i> , 2020 , 12, 19592-19596	7.7	3
162	Grain Boundary Motion in Two-Dimensional Hexagonal Boron Nitride. <i>ACS Nano</i> , 2020 , 14, 13512-13523	16.7	5
161	Black phosphorus nanoflakes as morphology modifier for efficient fullerene-free organic solar cells with high fill-factor and better morphological stability. <i>Nano Research</i> , 2019 , 12, 777-783	10	25
160	Regulation of acidic properties of WO3-ZrO2 for Friedel-Crafts reaction with surfactant. <i>Catalysis Communications</i> , 2019 , 123, 54-58	3.2	3
159	Quantitative investigation of the formation and growth of palladium fractal nanocrystals by liquid-cell transmission electron microscopy. <i>Chemical Communications</i> , 2019 , 55, 8186-8189	5.8	5
158	Enhancing the production of hydrogen peroxide from electrocatalytic oxygen reduction reaction by tailoring the electronic states of single-walled carbon nanotubes: a synergistic effect from interior filling and exterior oxidation. <i>Sustainable Energy and Fuels</i> , 2019 , 3, 1951-1956	5.8	9
157	NiS-MoS2 Hetero-nanosheet Arrays on Carbon Cloth for High-Performance Flexible Hybrid Energy Storage Devices. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 11672-11681	8.3	33
156	NiS-MoS2 hetero-nanosheet array electrocatalysts for efficient overall water splitting. <i>Sustainable Energy and Fuels</i> , 2019 , 3, 2056-2066	5.8	37
155	Black Phosphorus Quantum Dots Induced High-Quality Perovskite Film for Efficient and Thermally Stable Planar Perovskite Solar Cells. <i>Solar Rrl</i> , 2019 , 3, 1900132	7.1	35

154	Effective passivation of black phosphorus transistor against ambient degradation by an ultra-thin tin oxide film. <i>Science Bulletin</i> , 2019 , 64, 570-574	10.6	6
153	Revealing the Cluster-Cloud and Its Role in Nanocrystallization. <i>Advanced Materials</i> , 2019 , 31, e1808225	24	26
152	Phase Identification and Strong Second Harmonic Generation in Pure β -InSe and Its Alloys. <i>Nano Letters</i> , 2019 , 19, 2634-2640	11.5	50
151	Understanding Anisotropic Growth of Au Penta-Twinned Nanorods by Liquid Cell Transmission Electron Microscopy. <i>Journal of Physical Chemistry Letters</i> , 2019 , 10, 1443-1449	6.4	10
150	Atomic Scale Stability of Tungsten-Cobalt Intermetallic Nanocrystals in Reactive Environment at High Temperature. <i>Journal of the American Chemical Society</i> , 2019 , 141, 5871-5879	16.4	20
149	Probing the degradation of carbon nanotubes in aqueous solution by liquid cell transmission electron microscopy. <i>Carbon</i> , 2019 , 148, 481-486	10.4	6
148	Spherical to truncated octahedral shape transformation of palladium nanocrystals driven by e-beam in aqueous solution. <i>Nano Research</i> , 2019 , 12, 2623-2627	10	1
147	Atomic-Precision Fabrication of Quasi-Full-Space Grain Boundaries in Two-Dimensional Hexagonal Boron Nitride. <i>Nano Letters</i> , 2019 , 19, 8581-8589	11.5	10
146	Multifarious Interfaces, Band Alignments, and Formation Asymmetry of WSe-MoSe Heterojunction Grown by Molecular-Beam Epitaxy. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 43766-43773	9.5	5
145	Study of intrinsic defect states of FeSe with scanning tunneling microscopy. <i>Physical Review B</i> , 2019 , 100,	3.3	1
144	Grain boundaries in chemical-vapor-deposited atomically thin hexagonal boron nitride. <i>Physical Review Materials</i> , 2019 , 3,	3.2	14
143	Probing the Controlled Oxidative Etching of Palladium Nanorods by Liquid Cell Transmission Electron Microscopy. <i>Wuli Huaxue Xuebao/Acta Physico-Chimica Sinica</i> , 2019 , 35, 15-21	3.8	3
142	Deriving MoS nanoribbons from their flakes by chemical vapor deposition. <i>Nanotechnology</i> , 2019 , 30, 255602	3.4	14
141	Ion-templated fabrication of Pt-Cu alloy octahedra with controlled compositions for electrochemical detection of H ₂ O ₂ . <i>Journal of Alloys and Compounds</i> , 2019 , 788, 1334-1340	5.7	13
140	Boosting the performance of the Fe/N/C catalyst for the oxygen reduction reaction by introducing single-walled carbon nanohorns as branches on carbon fibers. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 23182-23190	13	23
139	Experimental study of protein translocation through MoS ₂ nanopores. <i>Applied Physics Letters</i> , 2019 , 115, 223702	3.4	9
138	Rapid-Heating-Triggered in Situ Solid-State Transformation of Amorphous TiO ₂ Nanotubes into Well-Defined Anatase Nanocrystals. <i>Crystal Growth and Design</i> , 2019 , 19, 1086-1094	3.5	3
137	Confinement of Perovskite-QDs within a Single MOF Crystal for Significantly Enhanced Multiphoton Excited Luminescence. <i>Advanced Materials</i> , 2019 , 31, e1806897	24	79

136	Fabrication of sub-nanometer pores on graphene membrane for ion selective transport. <i>Nanoscale</i> , 2018 , 10, 5350-5357	7.7	31
135	Hydrogen-assisted post-growth substitution of tellurium into molybdenum disulfide monolayers with tunable compositions. <i>Nanotechnology</i> , 2018 , 29, 145603	3.4	10
134	One-Step Synthesis of Metal/Semiconductor Heterostructure NbS ₂ /MoS ₂ . <i>Chemistry of Materials</i> , 2018 , 30, 4001-4007	9.6	54
133	Growth of P-doped molybdenum disulfide on graphene transferred molybdenum substrate. <i>Scientific Reports</i> , 2018 , 8, 7396	4.9	2
132	Hole doping in epitaxial MoSe ₂ monolayer by nitrogen plasma treatment. <i>2D Materials</i> , 2018 , 5, 041005	5.9	12
131	Morphology Engineering in Monolayer MoS ₂ -WS ₂ Lateral Heterostructures. <i>Advanced Functional Materials</i> , 2018 , 28, 1801568	15.6	52
130	Three-leaf dart-shaped single-crystal BN formation promoted by surface oxygen. <i>Applied Physics Letters</i> , 2018 , 113, 163101	3.4	
129	In Situ Liquid Cell TEM Reveals Bridge-Induced Contact and Fusion of Au Nanocrystals in Aqueous Solution. <i>Nano Letters</i> , 2018 , 18, 6551-6556	11.5	51
128	Design Synthesis of ITE Zeolite Using Nickel-Amine Complex as an Efficient Structure-Directing Agent. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 33214-33220	9.5	7
127	In-situ fabrication of MoS ₂ -nanowire-terminated edges in monolayer molybdenum disulfide. <i>Nano Research</i> , 2018 , 11, 5849-5857	10	20
126	Revealing the microscopic CVD growth mechanism of MoSe and the role of hydrogen gas during the growth procedure. <i>Nanotechnology</i> , 2018 , 29, 314001	3.4	11
125	Anisotropic Spectroscopy and Electrical Properties of 2D ReS ₂ Se Alloys with Distorted 1T Structure. <i>Small</i> , 2017 , 13, 1603788	11	57
124	Interlayer couplings, Moiré patterns, and 2D electronic superlattices in MoS ₂ /WSe ₂ hetero-bilayers. <i>Science Advances</i> , 2017 , 3, e1601459	14.3	277
123	Tailoring the thermal and electrical transport properties of graphene films by grain size engineering. <i>Nature Communications</i> , 2017 , 8, 14486	17.4	119
122	Atomic Defects in Two-Dimensional Materials: From Single-Atom Spectroscopy to Functionalities in Opto-/Electronics, Nanomagnetism, and Catalysis. <i>Advanced Materials</i> , 2017 , 29, 1606434	24	146
121	Probing the oxidative etching induced dissolution of palladium nanocrystals in solution by liquid cell transmission electron microscopy. <i>Micron</i> , 2017 , 97, 22-28	2.3	25
120	Photodetectors: Solvent-Based Soft-Patterning of Graphene Lateral Heterostructures for Broadband High-Speed Metal/Semiconductor Metal Photodetectors (Adv. Mater. Technol. 2/2017). <i>Advanced Materials Technologies</i> , 2017 , 2,	6.8	2
119	An In situ TEM study of the surface oxidation of palladium nanocrystals assisted by electron irradiation. <i>Nanoscale</i> , 2017 , 9, 6327-6333	7.7	45

118	Oxidation behavior of cobalt nanoparticles studied by in situ environmental transmission electron microscopy. <i>Science Bulletin</i> , 2017 , 62, 775-778	10.6	8
117	Embedding Ultrafine and High-Content Pt Nanoparticles at Ceria Surface for Enhanced Thermal Stability. <i>Advanced Science</i> , 2017 , 4, 1700056	13.6	18
116	Fabrication of MoSe nanoribbons via an unusual morphological phase transition. <i>Nature Communications</i> , 2017 , 8, 15135	17.4	53
115	Atomic process of oxidative etching in monolayer molybdenum disulfide. <i>Science Bulletin</i> , 2017 , 62, 846-851	15.6	26
114	Direct identification of monolayer rhenium diselenide by an individual diffraction pattern. <i>Nano Research</i> , 2017 , 10, 2535-2544	10	4
113	Van der Waals Epitaxial Growth of Atomic Layered HfS Crystals for Ultrasensitive Near-Infrared Phototransistors. <i>Advanced Materials</i> , 2017 , 29, 1700439	24	73
112	Atomistic dynamics of sulfur-deficient high-symmetry grain boundaries in molybdenum disulfide. <i>Nanoscale</i> , 2017 , 9, 10312-10320	7.7	15
111	Direct Imaging of Kinetic Pathways of Atomic Diffusion in Monolayer Molybdenum Disulfide. <i>Nano Letters</i> , 2017 , 17, 3383-3390	11.5	27
110	Deriving phosphorus atomic chains from few-layer black phosphorus. <i>Nano Research</i> , 2017 , 10, 2519-2526	10	19
109	High Mobility 2D Palladium Diselenide Field-Effect Transistors with Tunable Ambipolar Characteristics. <i>Advanced Materials</i> , 2017 , 29, 1602969	24	180
108	Direct Chemical Vapor Deposition Growth and Band-Gap Characterization of MoS/h-BN van der Waals Heterostructures on Au Foils. <i>ACS Nano</i> , 2017 , 11, 4328-4336	16.7	66
107	Solvent-Based Soft-Patterning of Graphene Lateral Heterostructures for Broadband High-Speed Metal-Semiconductor-Metal Photodetectors. <i>Advanced Materials Technologies</i> , 2017 , 2, 1600241	6.8	43
106	Inversion Domain Boundary Induced Stacking and Bandstructure Diversity in Bilayer MoSe. <i>Nano Letters</i> , 2017 , 17, 6653-6660	11.5	34
105	Capture the growth kinetics of CVD growth of two-dimensional MoS ₂ . <i>Npj 2D Materials and Applications</i> , 2017 , 1,	8.8	82
104	Robust Stacking-Independent Ultrafast Charge Transfer in MoS/WS Bilayers. <i>ACS Nano</i> , 2017 , 11, 12020-12026	10.9	89
103	Water-Assisted Preparation of High-Purity Semiconducting (14,4) Carbon Nanotubes. <i>ACS Nano</i> , 2017 , 11, 186-193	16.7	66
102	Layer-dependent anisotropic electronic structure of freestanding quasi-two-dimensional MoS ₂ . <i>Physical Review B</i> , 2016 , 93,	3.3	26
101	Facile synthesis of hierarchical LiFePO ₄ and its phase transformation to electrochemically active LiFePO ₄ for Li-ion batteries. <i>CrystEngComm</i> , 2016 , 18, 7707-7714	3.3	5

100	Ultrasmall and phase-pure WC nanoparticles for efficient electrocatalytic and photoelectrochemical hydrogen evolution. <i>Nature Communications</i> , 2016 , 7, 13216	17.4	265
99	High mobility top gated field-effect transistors and integrated circuits based on chemical vapor deposition-derived monolayer MoS ₂ . <i>Materials Express</i> , 2016 , 6, 198-204	1.3	18
98	Strong interfacial coupling of MoS ₂ /g-C ₃ N ₄ van de Waals solids for highly active water reduction. <i>Nano Energy</i> , 2016 , 27, 44-50	17.1	81
97	Low-Temperature Growth of Two-Dimensional Layered Chalcogenide Crystals on Liquid. <i>Nano Letters</i> , 2016 , 16, 2103-7	11.5	39
96	TiS ₂ nanoplates: A high-rate and stable electrode material for sodium ion batteries. <i>Nano Energy</i> , 2016 , 20, 168-175	17.1	114
95	Is the electronic structure of few layer transition metal dichalcogenides always two dimensional ? 2016 , 961-961		
94	Growth of Polar Hexagonal Boron Nitride Monolayer on Nonpolar Copper with Unique Orientation. <i>Small</i> , 2016 , 12, 3645-50	11	44
93	Preparation of Single-Layer MoS(2x)Se2(1-x) and Mo(x)W(1-x)S2 Nanosheets with High-Concentration Metallic 1T Phase. <i>Small</i> , 2016 , 12, 1866-74	11	91
92	Controlled Growth and Reliable Thickness-Dependent Properties of Organic-Inorganic Perovskite Platelet Crystal. <i>Advanced Functional Materials</i> , 2016 , 26, 5263-5270	15.6	52
91	Ultrastiff and Strong Graphene Fibers via Full-Scale Synergetic Defect Engineering. <i>Advanced Materials</i> , 2016 , 28, 6449-56	24	217
90	Epitaxial Growth of Multimetallic Pd@PtM (M = Ni, Rh, Ru) Core-Shell Nanoplates Realized by in Situ-Produced CO from Interfacial Catalytic Reactions. <i>Nano Letters</i> , 2016 , 16, 7999-8004	11.5	80
89	Magnetism in molybdenum disulphide monolayer with sulfur substituted by 3d transition metals. <i>Journal of Applied Physics</i> , 2016 , 120, 144305	2.5	9
88	Fast Photoresponse from 1T Tin Diselenide Atomic Layers. <i>Advanced Functional Materials</i> , 2016 , 26, 137-145	14.5	125
87	Towards polyvalent ion batteries: A zinc-ion battery based on NASICON structured Na ₃ V ₂ (PO ₄) ₃ . <i>Nano Energy</i> , 2016 , 25, 211-217	17.1	436
86	Perovskite light-emitting diodes based on solution-processed self-organized multiple quantum wells. <i>Nature Photonics</i> , 2016 , 10, 699-704	33.9	1206
85	Self-supporting nanoporous gold-palladium overlayer bifunctional catalysts toward oxygen reduction and evolution reactions. <i>Nano Research</i> , 2016 , 9, 3781-3794	10	36
84	Periodic Organic-Inorganic Halide Perovskite Microplatelet Arrays on Silicon Substrates for Room-Temperature Lasing. <i>Advanced Science</i> , 2016 , 3, 1600137	13.6	89
83	Highly Pure and Luminescent Graphene Quantum Dots on Silicon Directly Grown by Chemical Vapor Deposition. <i>Particle and Particle Systems Characterization</i> , 2016 , 33, 8-14	3.1	16

82	Graphene Quantum Dots: Highly Pure and Luminescent Graphene Quantum Dots on Silicon Directly Grown by Chemical Vapor Deposition (Part. Part. Syst. Charact. 1/2016). <i>Particle and Particle Systems Characterization</i> , 2016 , 33, 2-2	3.1	1
81	Direct growth of large-area graphene and boron nitride heterostructures by a co-segregation method. <i>Nature Communications</i> , 2015 , 6, 6519	17.4	173
80	Exploring atomic defects in molybdenum disulphide monolayers. <i>Nature Communications</i> , 2015 , 6, 6293	17.4	851
79	Robust Phase Control through Hetero-Seeded Epitaxial Growth for Face-Centered Cubic Pt@Ru Nanotetrahedrons with Superior Hydrogen Electro-Oxidation Activity. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 17697-17706	3.8	60
78	Effects of non-rotationally symmetric aberrations on the quantitative measurement of lattice positions in a graphene monolayer using high-resolution transmission electron microscopy. <i>Microscopy (Oxford, England)</i> , 2015 , 64, 311-8	1.3	3
77	Strong Local Coordination Structure Effects on Subnanometer PtOx Clusters over CeO2 Nanowires Probed by Low-Temperature CO Oxidation. <i>ACS Catalysis</i> , 2015 , 5, 5164-5173	13.1	148
76	Amorphous oxygen-rich molybdenum oxysulfide Decorated p-type silicon microwire Arrays for efficient photoelectrochemical water reduction. <i>Nano Energy</i> , 2015 , 16, 130-142	17.1	70
75	Spatially-confined lithiation/delithiation in highly dense nanocomposite anodes towards advanced lithium-ion batteries. <i>Energy and Environmental Science</i> , 2015 , 8, 1471-1479	35.4	62
74	Single-crystalline dendritic bimetallic and multimetallic nanocubes. <i>Chemical Science</i> , 2015 , 6, 7122-7129	9.4	51
73	Epitaxial Growth of Twinned Au-Pt Core-Shell Star-Shaped Decahedra as Highly Durable Electrocatalysts. <i>Nano Letters</i> , 2015 , 15, 7808-15	11.5	168
72	Facile solvothermal synthesis of ultrathin LiFe _{0.5} Mn _{1.5} PO ₄ nanoplates as advanced cathodes with long cycle life and superior rate capability. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 19368-19375	13	28
71	Chemical vapor deposition growth of large-scale hexagonal boron nitride with controllable orientation. <i>Nano Research</i> , 2015 , 8, 3164-3176	10	131
70	Probing the anisotropic behaviors of black phosphorus by transmission electron microscopy, angular-dependent Raman spectra, and electronic transport measurements. <i>Applied Physics Letters</i> , 2015 , 107, 021906	3.4	39
69	Synthesis of in-plane and stacked graphene/hexagonal boron nitride heterostructures by combining with ion beam sputtering deposition and chemical vapor deposition. <i>Nanoscale</i> , 2015 , 7, 16046-16053	7.53	56
68	Controlled Synthesis of High-Quality Monolayered Hg ₂ Se ₃ via Physical Vapor Deposition. <i>Nano Letters</i> , 2015 , 15, 6400-5	11.5	169
67	Revealing the elemental-specific growth dynamics of PtAu multipods by scanning transmission electron microscopy and chemical mapping. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 21284-21289	13	6
66	Highly active and durable methanol oxidation electrocatalyst based on the synergy of platinum-nickel hydroxide-graphene. <i>Nature Communications</i> , 2015 , 6, 10035	17.4	351
65	Shaped Pt-Ni nanocrystals with an ultrathin Pt-enriched shell derived from one-pot hydrothermal synthesis as active electrocatalysts for oxygen reduction. <i>Nano Research</i> , 2015 , 8, 1480-1496	10	34

64	Kinetically-controlled growth of cubic and octahedral Rh-Pd alloy oxygen reduction electrocatalysts with high activity and durability. <i>Nanoscale</i> , 2015 , 7, 301-7	7.7	27
63	Performance change of few layer black phosphorus transistors in ambient. <i>AIP Advances</i> , 2015 , 5, 107112.5	11.5	19
62	B21-O-05 Atomic motion in monolayer molybdenum disulfide probed by in-situ ADF-STEM. <i>Microscopy (Oxford, England)</i> , 2015 , 64, i41.2-i41	1.3	
61	Ultrathin Two-Dimensional Pd-Based Nanorings as Catalysts for Hydrogenation with High Activity and Stability. <i>Small</i> , 2015 , 11, 4745-52	11	56
60	All Chemical Vapor Deposition Synthesis and Intrinsic Bandgap Observation of MoS ₂ /Graphene Heterostructures. <i>Advanced Materials</i> , 2015 , 27, 7086-92	24	100
59	Stable Metallic 1T-WS ₂ Nanoribbons Intercalated with Ammonia Ions: The Correlation between Structure and Electrical/Optical Properties. <i>Advanced Materials</i> , 2015 , 27, 4837-44	24	151
58	Boron- and Phosphorus-Hyperdoped Silicon Nanocrystals. <i>Particle and Particle Systems Characterization</i> , 2015 , 32, 213-221	3.1	57
57	Two-Dimensional Layered Heterostructures Synthesized from Core-Shell Nanowires. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 8957-60	16.4	64
56	Two-Dimensional Layered Heterostructures Synthesized from Core-Shell Nanowires. <i>Angewandte Chemie</i> , 2015 , 127, 9085-9088	3.6	5
55	Controlled Synthesis of Organic/Inorganic van der Waals Solid for Tunable Light-Matter Interactions. <i>Advanced Materials</i> , 2015 , 27, 7800-8	24	94
54	Aligned Growth of Hexagonal Boron Nitride Monolayer on Germanium. <i>Small</i> , 2015 , 11, 5375-80	11	45
53	Ultrafine Nanoparticle-Supported Ru Nanoclusters with Ultrahigh Catalytic Activity. <i>Small</i> , 2015 , 11, 4385-493	11.93	67
52	Comparative study on the localized surface plasmon resonance of boron- and phosphorus-doped silicon nanocrystals. <i>ACS Nano</i> , 2015 , 9, 378-86	16.7	110
51	Growth of large-area 2D MoS ₂ (x) Se _x semiconductor alloys. <i>Advanced Materials</i> , 2014 , 26, 2648-53, 2613	24	289
50	PtCu alloy with high density of surface Pt defects for efficient catalysis of breaking C-C bond in ethanol. <i>Electrochimica Acta</i> , 2014 , 125, 29-37	6.7	24
49	Formation of Subnanometer Zr-WO _x Clusters within Mesoporous W ₂ N Mixed Oxides as Strong Solid Acid Catalysts for Friedel-Crafts Alkylation. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 6283-6290	3.8	26
48	Phase Separations in LiFe _{1-x} MnxPO ₄ : A Random Stack Model for Efficient Cathode Materials. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 796-803	3.8	25
47	Epitaxy and photoresponse of two-dimensional GaSe crystals on flexible transparent mica sheets. <i>ACS Nano</i> , 2014 , 8, 1485-90	16.7	245

46	General incorporation of diverse components inside metal-organic framework thin films at room temperature. <i>Nature Communications</i> , 2014 , 5, 5532	17.4	139
45	Reversible conversion-alloying of Sb ₂ O ₃ as a high-capacity, high-rate, and durable anode for sodium ion batteries. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 19449-55	9.5	129
44	Engineering crystalline structures of two-dimensional MoS ₂ sheets for high-performance organic solar cells. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 7727-7733	13	124
43	In situ study of the growth of two-dimensional palladium dendritic nanostructures using liquid-cell electron microscopy. <i>Chemical Communications</i> , 2014 , 50, 9447-50	5.8	38
42	Colloidal Indium-Doped Zinc Oxide Nanocrystals with Tunable Work Function: Rational Synthesis and Optoelectronic Applications. <i>Chemistry of Materials</i> , 2014 , 26, 5169-5178	9.6	62
41	Plasma-assisted fabrication of monolayer phosphorene and its Raman characterization. <i>Nano Research</i> , 2014 , 7, 853-859	10	535
40	Two-dimensional molybdenum tungsten diselenide alloys: photoluminescence, Raman scattering, and electrical transport. <i>ACS Nano</i> , 2014 , 8, 7130-7	16.7	166
39	Inverse problem of the multislice method in retrieving projected complex potentials from the exit-wave function. <i>Micron</i> , 2014 , 58, 47-54	2.3	1
38	Highly active nanoporous Pt-based alloy as anode and cathode catalyst for direct methanol fuel cells. <i>Journal of Power Sources</i> , 2014 , 267, 212-218	8.9	42
37	In situ study of oxidative etching of palladium nanocrystals by liquid cell electron microscopy. <i>Nano Letters</i> , 2014 , 14, 3761-5	11.5	100
36	Facile synthesis of Rh-Pd alloy nanodendrites as highly active and durable electrocatalysts for oxygen reduction reaction. <i>Nanoscale</i> , 2014 , 6, 7012-8	7.7	47
35	Kinetically controlled synthesis of Pt-Cu alloy concave nanocubes with high-index facets for methanol electro-oxidation. <i>Chemical Communications</i> , 2014 , 50, 560-2	5.8	126
34	Semiconductors: Growth of Large-Area 2D MoS ₂ (1-x)Se _{2x} Semiconductor Alloys (Adv. Mater. 17/2014). <i>Advanced Materials</i> , 2014 , 26, 2763-2763	24	6
33	An improved Wiener deconvolution filter for high-resolution electron microscopy images. <i>Micron</i> , 2013 , 50, 1-6	2.3	19
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31	Controlled growth of atomically thin In ₂ Se ₃ flakes by van der Waals epitaxy. <i>Journal of the American Chemical Society</i> , 2013 , 135, 13274-7	16.4	156
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29	Sulfur and nitrogen co-doped, few-layered graphene oxide as a highly efficient electrocatalyst for the oxygen-reduction reaction. <i>ChemSusChem</i> , 2013 , 6, 493-9	8.3	223

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22	Characterization of graphene grown on bulk and thin film nickel. <i>Langmuir</i> , 2011 , 27, 13748-53	4	17
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20	Large scale growth and characterization of atomic hexagonal boron nitride layers. <i>Nano Letters</i> , 2010 , 10, 3209-15	11.5	1961
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18	Fabrication of a freestanding boron nitride single layer and its defect assignments. <i>Physical Review Letters</i> , 2009 , 102, 195505	7.4	857
17	Deriving carbon atomic chains from graphene. <i>Physical Review Letters</i> , 2009 , 102, 205501	7.4	510
16	In-Situ HR-TEM Characterizations on Individual Carbon Nanotubes During its Manipulation, Deformation and Growth. <i>Microscopy and Microanalysis</i> , 2009 , 15, 710-711	0.5	
15	Plumbing carbon nanotubes. <i>Nature Nanotechnology</i> , 2008 , 3, 17-21	28.7	185
14	Vacancy migrations in carbon nanotubes. <i>Nano Letters</i> , 2008 , 8, 1127-30	11.5	73
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12	Metal atom catalyzed enlargement of fullerenes. <i>Physical Review Letters</i> , 2008 , 101, 176102	7.4	24
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