

# Jamie H Warner

## List of Publications by Year in descending order

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343  
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docs citations

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22786  
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#	ARTICLE	IF	CITATIONS
1	Atomically sharp jagged edges of chemical vapor deposition-grown WS <sub>2</sub> for electrocatalysis. <i>Materials Today Nano</i> , 2022, 18, 100183.	4.6	5
2	Wafer-Scalable Single-Layer Amorphous Molybdenum Trioxide. <i>ACS Nano</i> , 2022, 16, 3756-3767.	14.6	16
3	Elucidating the Formation and Structural Evolution of Platinum Single-Site Catalysts for the Hydrogen Evolution Reaction. <i>ACS Catalysis</i> , 2022, 12, 3173-3180.	11.2	18
4	Ultrathin Lateral 2D Photodetectors Using Transition-Metal Dichalcogenides PtSe <sub>2</sub> –WS <sub>2</sub> –PtSe <sub>2</sub> by Direct Laser Patterning. <i>ACS Applied Electronic Materials</i> , 2022, 4, 1029-1038.	4.3	4
5	Mapping 1D Confined Electromagnetic Edge States in 2D Monolayer Semiconducting MoS <sub>2</sub> Using 4D-STEM. <i>ACS Nano</i> , 2022, 16, 6657-6665.	14.6	9
6	Atomic-Level Dynamics of Point Vacancies and the Induced Stretched Defects in 2D Monolayer PtSe <sub>2</sub> . <i>Nano Letters</i> , 2022, 22, 3289-3297.	9.1	9
7	Atomic-Scale Insights into the Lateral and Vertical Epitaxial Growth in Two-Dimensional Pd <sub>2</sub> Se <sub>3</sub> –MoS <sub>2</sub> Heterostructures. <i>ACS Nano</i> , 2022, 16, 10260-10272.	14.6	3
8	Recent Progress in Using Graphene as an Ultrathin Transparent Support for Transmission Electron Microscopy. <i>Small Structures</i> , 2021, 2, 2000049.	12.0	19
9	High-performance magnesium metal batteries <i>via</i> switching the passivation film into a solid electrolyte interphase. <i>Energy and Environmental Science</i> , 2021, 14, 4391-4399.	30.8	49
10	A System-Agnostic, Adaptable and Extensible Animal Support Cradle System for Cardio-Respiratory-Synchronised, and Other, Multi-Modal Imaging of Small Animals. <i>Tomography</i> , 2021, 7, 39-54.	1.8	1
11	Unraveling the Intricacies of Residual Lithium in High-Ni Cathodes for Lithium-Ion Batteries. <i>ACS Energy Letters</i> , 2021, 6, 941-948.	17.4	86
12	Nanoscale Bilayer Mechanical Lithography Using Water as Developer. <i>Nano Letters</i> , 2021, 21, 3827-3834.	9.1	2
13	Atomically Precise Control of Carbon Insertion into hBN Monolayer Point Vacancies using a Focused Electron Beam Guide. <i>Small</i> , 2021, 17, e2100693.	10.0	13
14	Intrinsic Li Distribution in Layered Transition-Metal Oxides Using Low-Dose Scanning Transmission Electron Microscopy and Spectroscopy. <i>Chemistry of Materials</i> , 2021, 33, 4638-4650.	6.7	7
15	Wet-CO <sub>2</sub> Pretreatment Process for Reducing Residual Lithium in High-Nickel Layered Oxides for Lithium-Ion Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 27096-27105.	8.0	23
16	In-Depth Analysis of the Degradation Mechanisms of High-Nickel, Low/No-Cobalt Layered Oxide Cathodes for Lithium-Ion Batteries. <i>Advanced Energy Materials</i> , 2021, 11, 2100858.	19.5	79
17	Atomic Study on Defects in 2D PtSe <sub>2</sub> Monolayers Using Electron Microscopy. <i>Microscopy and Microanalysis</i> , 2021, 27, 644-645.	0.4	0
18	Large-Scale Uniform-Patterned Arrays of Ultrathin All-2D Vertical Stacked Photodetector Devices. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 34696-34704.	8.0	2

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19	Rational Design of Coating Ions via Advantageous Surface Reconstruction in High- $\gamma$ -Nickel Layered Oxide Cathodes for Lithium-Ion Batteries. <i>Advanced Energy Materials</i> , 2021, 11, 2101112.	19.5	58
20	Atomic Structure of Dislocations and Grain Boundaries in Two-Dimensional $\text{PtSe}_2$ . <i>ACS Nano</i> , 2021, 15, 16748-16759.	14.6	12
21	Thick $\text{BaTiO}_3$ Epitaxial Films Integrated on Si by RF Sputtering for Electro-Optic Modulators in Si Photonics. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 51230-51244.	8.0	20
22	Atomistic Mechanics of Torn Back Folded Edges of Triangular Voids in Monolayer $\text{WS}_2$ . <i>Small</i> , 2021, 17, e2104238.	10.0	3
23	$\text{GaS}/\text{WS}_2$ Heterojunctions for Ultrathin Two-Dimensional Photodetectors with Large Linear Dynamic Range across Broad Wavelengths. <i>ACS Nano</i> , 2021, 15, 19570-19580.	14.6	20
24	Controlling Defects in Continuous 2D GaS Films for High-Performance Wavelength-Tunable UV- $\gamma$ -Discriminating Photodetectors. <i>Advanced Materials</i> , 2020, 32, e1906958.	21.0	53
25	Direct Imaging of Individual Molecular Binding to Clean Nanopore Edges in 2D Monolayer $\text{MoS}_2$ . <i>ACS Nano</i> , 2020, 14, 153-165.	14.6	19
26	Controlling Photoluminescence Enhancement and Energy Transfer in $\text{WS}_2/\text{hBN}/\text{WS}_2$ Vertical Stacks by Precise Interlayer Distances. <i>Small</i> , 2020, 16, e1905985.	10.0	26
27	Atomic structure of defects in transitional metal dichalcogenides using transmission electron microscopy. , 2020, , 167-197.		3
28	Self-Assembly of Bowlic Supramolecules on Graphene Imaged at the Individual Molecular Level using Heavy Atom Tagging. <i>Small</i> , 2020, 16, e2002860.	10.0	8
29	Single-Step Chemical Vapor Deposition Growth of Platinum Nanocrystal: Monolayer $\text{MoS}_2$ Dendrite Hybrid Materials for Efficient Electrocatalysis. <i>Chemistry of Materials</i> , 2020, 32, 8243-8256.	6.7	23
30	Electromagnetically Transparent Graphene Respiratory Sensors for Multimodal Small Animal Imaging. <i>Advanced Healthcare Materials</i> , 2020, 9, 2001222.	7.6	4
31	A Metal-Free Oxygenated Covalent Triazine 2-D Photocatalyst Works Effectively from the Ultraviolet to Near-Infrared Spectrum for Water Oxidation Apart from Water Reduction. <i>ACS Applied Energy Materials</i> , 2020, 3, 8960-8968.	5.1	7
32	Phase Variations and Layer Epitaxy of 2D $\text{PdSe}_2$ Grown on 2D Monolayers by Direct Selenization of Molecular Pd Precursors. <i>ACS Nano</i> , 2020, 14, 11677-11690.	14.6	10
33	Microscopic Mechanism of Van der Waals Heteroepitaxy in the Formation of $\text{MoS}_2/\text{hBN}$ Vertical Heterostructures. <i>ACS Omega</i> , 2020, 5, 31692-31699.	3.5	5
34	In-Situ Atomic Level Studies of Unusual Phase Transformations in Metal-chalcogenide 2D Crystals. <i>Microscopy and Microanalysis</i> , 2020, 26, 1084-1085.	0.4	0
35	Atomic Structure and Dynamics of Defects and Grain Boundaries in 2D $\text{Pd}_2\text{Se}_3$ Monolayers. <i>Microscopy and Microanalysis</i> , 2020, 26, 1636-1640.	0.4	0
36	Operational Limits and Failure Mechanisms in All-2D van der Waals Vertical Heterostructure Devices with Long-Lived Persistent Electroluminescence. <i>ACS Nano</i> , 2020, 14, 15533-15543.	14.6	7

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37	Transparent ultrathin all-two-dimensional lateral Gr:WS <sub>2</sub> :Gr photodetector arrays on flexible substrates and their strain induced failure mechanisms. <i>Materials Today Advances</i> , 2020, 6, 100067.	5.2	7
38	Synthesis and Applications of Wide Bandgap 2D Layered Semiconductors Reaching the Green and Blue Wavelengths. <i>ACS Applied Electronic Materials</i> , 2020, 2, 1777-1814.	4.3	50
39	2D layered noble metal dichalcogenides (Pt, Pd, Se, S) for electronics and energy applications. <i>Materials Today Advances</i> , 2020, 7, 100076.	5.2	55
40	Direct observation and catalytic role of mediator atom in 2D materials. <i>Science Advances</i> , 2020, 6, eaba4942.	10.3	7
41	In situ atomic level studies of thermally controlled interlayer stacking shifts in 2D transition metal dichalcogenide bilayers. <i>Journal of Materials Research</i> , 2020, 35, 1407-1416.	2.6	0
42	Precursor Design for High Density Single Pt Atom Sites on MoS <sub>2</sub> : Enhanced Stability at Elevated Temperatures and Reduced 3D Clustering. <i>Chemistry of Materials</i> , 2020, 32, 2541-2551.	6.7	8
43	Photoresponse-Bias Modulation of a High-Performance MoS <sub>2</sub> Photodetector with a Unique Vertically Stacked 2H-MoS <sub>2</sub> /1T@2H-MoS <sub>2</sub> Structure. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 33325-33335.	8.0	76
44	Atomic structure and defect dynamics of monolayer lead iodide nanodisks with epitaxial alignment on graphene. <i>Nature Communications</i> , 2020, 11, 823.	12.8	31
45	Spatially Bandgap-Graded MoS <sub>2</sub> (1-x)Se <sub>2x</sub> Homo Junctions for Self-Powered Visible-Near-Infrared Phototransistors. <i>Nano-Micro Letters</i> , 2020, 12, 26.	27.0	22
46	Simultaneous Identification of Low and High Atomic Number Atoms in Monolayer 2D Materials Using 4D Scanning Transmission Electron Microscopy. <i>Nano Letters</i> , 2019, 19, 6482-6491.	9.1	36
47	Morphology Control of Two-Dimensional Tin Disulfide on Transition Metal Dichalcogenides Using Chemical Vapor Deposition for Nanoelectronic Applications. <i>ACS Applied Nano Materials</i> , 2019, 2, 4222-4231.	5.0	21
48	Postgrowth Substitutional Tin Doping of 2D WS <sub>2</sub> Crystals Using Chemical Vapor Deposition. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 24279-24288.	8.0	24
49	Striated 2D Lattice with Sub-nm 1D Etch Channels by Controlled Thermally Induced Phase Transformations of PdSe <sub>2</sub> . <i>Advanced Materials</i> , 2019, 31, e1904251.	21.0	31
50	Contiguous and Atomically Thin Pt Film with Supra-Bulk Behavior Through Graphene-Imposed Epitaxy. <i>Advanced Functional Materials</i> , 2019, 29, 1902274.	14.9	22
51	Photocurrent Direction Control and Increased Photovoltaic Effects in All-2D Ultrathin Vertical Heterostructures Using Asymmetric h-BN Tunneling Barriers. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 40274-40282.	8.0	10
52	Atomically Sharp Dual Grain Boundaries in 2D WS <sub>2</sub> Bilayers. <i>Small</i> , 2019, 15, e1902590.	10.0	13
53	Strong Opto-Structural Coupling in Low Dimensional GeSe <sub>3</sub> Films. <i>Nano Letters</i> , 2019, 19, 7377-7384.	9.1	11
54	Atomic Structure and Dynamics of Epitaxial Platinum Bilayers on Graphene. <i>ACS Nano</i> , 2019, 13, 12162-12170.	14.6	15

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55	Broadband transparent optical phase change materials for high-performance nonvolatile photonics. Nature Communications, 2019, 10, 4279.	12.8	349
56	Waterproof molecular monolayers stabilize 2D materials. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 20844-20849.	7.1	32
57	In situ high temperature atomic level dynamics of large inversion domain formations in monolayer MoS <sub>2</sub> . Nanoscale, 2019, 11, 1901-1913.	5.6	19
58	Atomic Scale Imaging of Reversible Ring Cyclization in Graphene Nanoconstrictions. ACS Nano, 2019, 13, 2379-2388.	14.6	3
59	High Photoresponsivity in Ultrathin 2D Lateral Graphene:WS <sub>2</sub> :Graphene Photodetectors Using Direct CVD Growth. ACS Applied Materials & Interfaces, 2019, 11, 6421-6430.	8.0	78
60	Thermal Degradation of Monolayer MoS <sub>2</sub> on SrTiO <sub>3</sub> Supports. Journal of Physical Chemistry C, 2019, 123, 3876-3885.	3.1	17
61	Metal Atom Markers for Imaging Epitaxial Molecular Self-Assembly on Graphene by Scanning Transmission Electron Microscopy. ACS Nano, 2019, 13, 7252-7260.	14.6	13
62	Atomic Structure and Dynamics of Defects and Grain Boundaries in 2D Pd <sub>2</sub> Se <sub>3</sub> Monolayers. ACS Nano, 2019, 13, 8256-8264.	14.6	38
63	Atomic structural catalogue of defects and vertical stacking in 2H/3R mixed polytype multilayer WS <sub>2</sub> pyramids. Nanoscale, 2019, 11, 10859-10871.	5.6	3
64	Increasing the electrochemical activity of basal plane sites in porous 3D edge rich MoS <sub>2</sub> thin films for the hydrogen evolution reaction. Materials Today Energy, 2019, 13, 134-144.	4.7	31
65	Anisotropic Fracture Dynamics Due to Local Lattice Distortions. ACS Nano, 2019, 13, 5693-5702.	14.6	19
66	High-Performance WS <sub>2</sub> Monolayer Light-Emitting Tunneling Devices Using 2D Materials Grown by Chemical Vapor Deposition. ACS Nano, 2019, 13, 4530-4537.	14.6	56
67	Grain Boundaries as Electrical Conduction Channels in Polycrystalline Monolayer WS <sub>2</sub> . ACS Applied Materials & Interfaces, 2019, 11, 10189-10197.	8.0	17
68	Atomic electrostatic maps of 1D channels in 2D semiconductors using 4D scanning transmission electron microscopy. Nature Communications, 2019, 10, 1127.	12.8	62
69	Atomic Resolution Defocused Electron Ptychography at Low Dose with a Fast, Direct Electron Detector. Scientific Reports, 2019, 9, 3919.	3.3	44
70	MoS <sub>2</sub> Liquid Cell Electron Microscopy Through Clean and Fast Polymer-Free MoS <sub>2</sub> Transfer. Nano Letters, 2019, 19, 1788-1795.	9.1	45
71	Biomass-Derived Nickel Phosphide Nanoparticles as a Robust Catalyst for Hydrogen Production by Catalytic Decomposition of C <sub>2</sub> H <sub>2</sub> or Dry Reforming of CH <sub>4</sub> . ACS Applied Energy Materials, 2019, 2, 8649-8658.	5.1	11
72	In-Situ Atomic-Scale Dynamics of Thermally Driven Phase Transition of 2D Few-Layered 1T PtSe <sub>2</sub> into Ultrathin 2D Nonlayered PtSe Crystals. Chemistry of Materials, 2019, 31, 9895-9903.	6.7	25

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73	Ultrathin All-2D Lateral Graphene/GaS/Graphene UV Photodetectors by Direct CVD Growth. ACS Applied Materials & Interfaces, 2019, 11, 48172-48178.	8.0	30
74	Direct Laser Patterning and Phase Transformation of 2D PdSe <sub>2</sub> Films for On-Demand Device Fabrication. ACS Nano, 2019, 13, 14162-14171.	14.6	44
75	Spatially Controlled Fabrication and Mechanisms of Atomically Thin Nanowell Patterns in Bilayer WS <sub>2</sub> Using <i>in Situ</i> High Temperature Electron Microscopy. ACS Nano, 2019, 13, 14486-14499.	14.6	14
76	Self-Limiting Growth of High-Quality 2D Monolayer MoS <sub>2</sub> by Direct Sulfurization Using Precursor-Soluble Substrates for Advanced Field-Effect Transistors and Photodetectors. ACS Applied Nano Materials, 2019, 2, 369-378.	5.0	27
77	Symmetry-Controlled Reversible Photovoltaic Current Flow in Ultrathin All 2D Vertically Stacked Graphene/MoS <sub>2</sub> /WS <sub>2</sub> /Graphene Devices. ACS Applied Materials & Interfaces, 2019, 11, 2234-2242.	8.0	32
78	Synthesis of Surface Grown Pt Nanoparticles on Edge-Enriched MoS <sub>2</sub> Porous Thin Films for Enhancing Electrochemical Performance. Chemistry of Materials, 2019, 31, 387-397.	6.7	40
79	Electrocatalytic Volleyball: Rapid Nanoconfined Nicotinamide Cycling for Organic Synthesis in Electrode Pores. Angewandte Chemie, 2019, 131, 5002-5006.	2.0	5
80	Electrocatalytic Volleyball: Rapid Nanoconfined Nicotinamide Cycling for Organic Synthesis in Electrode Pores. Angewandte Chemie - International Edition, 2019, 58, 4948-4952.	13.8	60
81	Addressing the isomer cataloguing problem for nanopores in two-dimensional materials. Nature Materials, 2019, 18, 129-135.	27.5	57
82	Direct Imaging of Photoswitching Molecular Conformations Using Individual Metal Atom Markers. ACS Nano, 2019, 13, 87-96.	14.6	22
83	Revealing Strain-Induced Effects in Ultrathin Heterostructures at the Nanoscale. Nano Letters, 2018, 18, 2467-2474.	9.1	22
84	Utilizing Interlayer Excitons in Bilayer WS <sub>2</sub> for Increased Photovoltaic Response in Ultrathin Graphene Vertical Cross-Bar Photodetecting Tunneling Transistors. ACS Nano, 2018, 12, 4669-4677.	14.6	37
85	Epitaxial and atomically thin graphene-metal hybrid catalyst films: the dual role of graphene as the support and the chemically-transparent protective cap. Energy and Environmental Science, 2018, 11, 1610-1616.	30.8	34
86	High-Performance All 2D-Layered Tin Disulfide: Graphene Photodetecting Transistors with Thickness-Controlled Interface Dynamics. ACS Applied Materials & Interfaces, 2018, 10, 13002-13010.	8.0	32
87	Determining the Optimized Interlayer Separation Distance in Vertical Stacked 2D WS <sub>2</sub> :hBN:MoS <sub>2</sub> Heterostructures for Exciton Energy Transfer. Small, 2018, 14, e1703727.	10.0	54
88	Hydrogen-Assisted Growth of Large-Area Continuous Films of MoS <sub>2</sub> on Monolayer Graphene. ACS Applied Materials & Interfaces, 2018, 10, 7304-7314.	8.0	47
89	Atomic Resolution Imaging of Nanoscale Chemical Expansion in Pr <sub>2</sub> CeO <sub>7</sub> during <i>In Situ</i> Heating. ACS Nano, 2018, 12, 1359-1372.	14.6	8
90	Large Dendritic Monolayer MoS <sub>2</sub> Grown by Atmospheric Pressure Chemical Vapor Deposition for Electrocatalysis. ACS Applied Materials & Interfaces, 2018, 10, 4630-4639.	8.0	88

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91	Interlocking Friction Governs the Mechanical Fracture of Bilayer MoS <sub>2</sub> . ACS Nano, 2018, 12, 3600-3608.	14.6	40
92	Geometrically Enhanced Thermoelectric Effects in Graphene Nanoconstrictions. Nano Letters, 2018, 18, 7719-7725.	9.1	46
93	Epitaxial Growth of Monolayer MoS <sub>2</sub> on SrTiO <sub>3</sub> Single Crystal Substrates for Applications in Nanoelectronics. ACS Applied Nano Materials, 2018, 1, 6976-6988.	5.0	34
94	2D-Layer-Dependent Behavior in Lateral Au/WS <sub>2</sub> /Graphene Photodiode Devices with Optical Modulation of Schottky Barriers. ACS Applied Nano Materials, 2018, 1, 6874-6881.	5.0	22
95	Nanoporous Graphene: Facile Fabrication of Large-Area Atomically Thin Membranes by Direct Synthesis of Graphene with Nanoscale Porosity (Adv. Mater. 49/2018). Advanced Materials, 2018, 30, 1870376.	21.0	1
96	Facile Fabrication of Large-Area Atomically Thin Membranes by Direct Synthesis of Graphene with Nanoscale Porosity. Advanced Materials, 2018, 30, e1804977.	21.0	56
97	Hollow Electron Ptychographic Diffractive Imaging. Physical Review Letters, 2018, 121, 146101.	7.8	27
98	<i>In Situ</i> Atomic-Level Studies of Gd Atom Release and Migration on Graphene from a Metallofullerene Precursor. ACS Nano, 2018, 12, 10439-10451.	14.6	9
99	Atomic Structure and Dynamics of Self-Limiting Sub-Nanometer Pores in Monolayer WS <sub>2</sub> . ACS Nano, 2018, 12, 11638-11647.	14.6	30
100	Inhomogeneous Strain Release during Bending of WS <sub>2</sub> on Flexible Substrates. ACS Applied Materials & Interfaces, 2018, 10, 39177-39186.	8.0	17
101	High-Performance Two-Dimensional Schottky Diodes Utilizing Chemical Vapour Deposition-Grown Graphene-MoS <sub>2</sub> Heterojunctions. ACS Applied Materials & Interfaces, 2018, 10, 37258-37266.	8.0	30
102	Atomically sharp interlayer stacking shifts at anti-phase grain boundaries in overlapping MoS <sub>2</sub> secondary layers. Nanoscale, 2018, 10, 16692-16702.	5.6	22
103	Preferential Pt Nanocluster Seeding at Grain Boundary Dislocations in Polycrystalline Monolayer MoS <sub>2</sub> . ACS Nano, 2018, 12, 5626-5636.	14.6	27
104	Atomic structure of defects and dopants in 2D layered transition metal dichalcogenides. Chemical Society Reviews, 2018, 47, 6764-6794.	38.1	178
105	Blister-based-laser-induced-forward-transfer: a non-contact, dry laser-based transfer method for nanomaterials. Nanotechnology, 2018, 29, 385301.	2.6	14
106	Chemical Vapor Deposition Growth of Two-Dimensional Monolayer Gallium Sulfide Crystals Using Hydrogen Reduction of Ga <sub>2</sub> S <sub>3</sub> . ACS Omega, 2018, 3, 7897-7903.	3.5	35
107	Ultralong 1D Vacancy Channels for Rapid Atomic Migration during 2D Void Formation in Monolayer MoS <sub>2</sub> . ACS Nano, 2018, 12, 7721-7730.	14.6	54
108	Low-Frequency Noise in Graphene Tunnel Junctions. ACS Nano, 2018, 12, 9451-9460.	14.6	22



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109	Nanoporous Silicon-Assisted Patterning of Monolayer MoS <sub>2</sub> with Thermally Controlled Porosity: A Scalable Method for Diverse Applications. ACS Applied Nano Materials, 2018, 1, 3548-3556.	5.0	3
110	Graphene as a flexible template for controlling magnetic interactions between metal atoms. Journal of Physics Condensed Matter, 2017, 29, 085001.	1.8	1
111	Electrically tunable organic-inorganic hybrid polaritons with monolayer WS <sub>2</sub> . Nature Communications, 2017, 8, 14097.	12.8	53
112	Oligomeric aminoborane precursors for the chemical vapour deposition growth of few-layer hexagonal boron nitride. CrystEngComm, 2017, 19, 285-294.	2.6	41
113	Atomic Structure and Dynamics of Single Platinum Atom Interactions with Monolayer MoS <sub>2</sub> . ACS Nano, 2017, 11, 3392-3403.	14.6	126
114	MoS <sub>2</sub> monolayer catalyst doped with isolated Co atoms for the hydrodeoxygenation reaction. Nature Chemistry, 2017, 9, 810-816.	13.6	683
115	Distinguishing Lead and Molecule States in Graphene-Based Single-Electron Transistors. ACS Nano, 2017, 11, 5325-5331.	14.6	48
116	Transfer of photosynthetic NADP <sup>+</sup> /NADPH recycling activity to a porous metal oxide for highly specific, electrochemically-driven organic synthesis. Chemical Science, 2017, 8, 4579-4586.	7.4	74
117	Hydrogen Addition for Centimeter-Sized Monolayer Tungsten Disulfide Continuous Films by Ambient Pressure Chemical Vapor Deposition. Chemistry of Materials, 2017, 29, 4904-4911.	6.7	49
118	Three dimensional hybrid multi-layered graphene-CNT catalyst supports via rapid thermal annealing of nickel acetate. Journal of Materials Chemistry A, 2017, 5, 10457-10469.	10.3	12
119	Scaling Limits of Graphene Nanoelectrodes. Nano Letters, 2017, 17, 3688-3693.	9.1	40
120	Atomic structure and formation mechanism of sub-nanometer pores in 2D monolayer MoS <sub>2</sub> . Nanoscale, 2017, 9, 6417-6426.	5.6	54
121	Photoluminescence Segmentation within Individual Hexagonal Monolayer Tungsten Disulfide Domains Grown by Chemical Vapor Deposition. ACS Applied Materials & Interfaces, 2017, 9, 15005-15014.	8.0	59
122	Fabrication, Pressure Testing, and Nanopore Formation of Single-Layer Graphene Membranes. Journal of Physical Chemistry C, 2017, 121, 14312-14321.	3.1	39
123	Epitaxial Templating of Two-Dimensional Metal Chloride Nanocrystals on Monolayer Molybdenum Disulfide. ACS Nano, 2017, 11, 6404-6415.	14.6	20
124	Edge-Enriched 2D MoS <sub>2</sub> Thin Films Grown by Chemical Vapor Deposition for Enhanced Catalytic Performance. ACS Catalysis, 2017, 7, 877-886.	11.2	123
125	Field-Effect Control of Graphene-Fullerene Thermoelectric Nanodevices. Nano Letters, 2017, 17, 7055-7061.	9.1	61
126	Photoluminescent Arrays of Nanopatterned Monolayer MoS <sub>2</sub> . Advanced Functional Materials, 2017, 27, 1703688.	14.9	35



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127	Lateral Grapheneâ€Contacted Vertically Stacked WS <sub>2</sub> /MoS <sub>2</sub> Hybrid Photodetectors with Large Gain. Advanced Materials, 2017, 29, 1702917.	21.0	111
128	Orientation dependent interlayer stacking structure in bilayer MoS <sub>2</sub> domains. Nanoscale, 2017, 9, 13060-13068.	5.6	19
129	Point defects in turbostratic stacked bilayer graphene. Nanoscale, 2017, 9, 13725-13730.	5.6	12
130	Electrical Breakdown of Suspended Mono- and Few-Layer Tungsten Disulfide <i>via</i> Sulfur Depletion Identified by <i>In Situ</i> Atomic Imaging. ACS Nano, 2017, 11, 9435-9444.	14.6	16
131	Snapshot 3D Electron Imaging of Structural Dynamics. Scientific Reports, 2017, 7, 10839.	3.3	10
132	Growth of Large Single-Crystalline Monolayer Hexagonal Boron Nitride by Oxide-Assisted Chemical Vapor Deposition. Chemistry of Materials, 2017, 29, 6252-6260.	6.7	60
133	Atomically Flat Zigzag Edges in Monolayer MoS <sub>2</sub> by Thermal Annealing. Nano Letters, 2017, 17, 5502-5507.	9.1	70
134	<i>In Situ</i> Atomic-Scale Studies of the Formation of Epitaxial Pt Nanocrystals on Monolayer Molybdenum Disulfide. ACS Nano, 2017, 11, 9057-9067.	14.6	27
135	Atomic Structure and Dynamics of Defects in 2D MoS <sub>2</sub> Bilayers. ACS Omega, 2017, 2, 3315-3324.	3.5	32
136	Aberration measurement of the probe-forming system of an electron microscope using two-dimensional materials. Ultramicroscopy, 2017, 182, 195-204.	1.9	5
137	Hyperfine and Spin-Orbit Coupling Effects on Decay of Spin-Valley States in a Carbon Nanotube. Physical Review Letters, 2017, 118, 177701.	7.8	11
138	Chemistry and Structure of Graphene Oxide <i>via</i> Direct Imaging. ACS Nano, 2016, 10, 7515-7522.	14.6	159
139	Lowâ€Temperature Chemical Vapor Deposition Synthesis of Ptâ€Co Alloyed Nanoparticles with Enhanced Oxygen Reduction Reaction Catalysis. Advanced Materials, 2016, 28, 7115-7122.	21.0	156
140	Negative Electro-conductance in Suspended 2D WS <sub>2</sub> Nanoscale Devices. ACS Applied Materials & Interfaces, 2016, 8, 32963-32970.	8.0	10
141	Electron-Driven Metal Oxide Effusion and Graphene Gasification at Room Temperature. ACS Nano, 2016, 10, 6323-6330.	14.6	15
142	Generalized Mechanistic Model for the Chemical Vapor Deposition of 2D Transition Metal Dichalcogenide Monolayers. ACS Nano, 2016, 10, 4330-4344.	14.6	190
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