

Xiangfeng Duan

List of Publications by Year in descending order

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363
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386
docs citations

386
times ranked

71386
citing authors

#	ARTICLE	IF	CITATIONS
1	The promises, challenges and pathways to room-temperature sodium-sulfur batteries. National Science Review, 2022, 9, nwab050.	4.6	68
2	1D PtCo nanowires as catalysts for PEMFCs with low Pt loading. Science China Materials, 2022, 65, 704-711.	3.5	16
3	Van der Waals superlattices. National Science Review, 2022, 9, nwab166.	4.6	18
4	Noble Metal Based Electrocatalysts for Alcohol Oxidation Reactions in Alkaline Media. Advanced Functional Materials, 2022, 32, .	7.8	70
5	A Silicon Monoxide Lithium-Ion Battery Anode with Ultrahigh Areal Capacity. Nano-Micro Letters, 2022, 14, 50.	14.4	59
6	Multiplexed nanomaterial-assisted laser desorption/ionization for pan-cancer diagnosis and classification. Nature Communications, 2022, 13, 617.	5.8	27
7	2D Heterostructures for Ubiquitous Electronics and Optoelectronics: Principles, Opportunities, and Challenges. Chemical Reviews, 2022, 122, 6514-6613.	23.0	187
8	Combined anodic and cathodic hydrogen production from aldehyde oxidation and hydrogen evolution reaction. Nature Catalysis, 2022, 5, 66-73.	16.1	276
9	Highly stretchable van der Waals thin films for adaptable and breathable electronic membranes. Science, 2022, 375, 852-859.	6.0	96
10	Macroscopic assembled graphene nanofilms based room temperature ultrafast mid-infrared photodetectors. Information Materials, 2022, 4, .	8.5	24
11	Importance of Multiple Excitation Wavelengths for TERS Characterization of TMDCs and Their Vertical Heterostructures. Journal of Physical Chemistry C, 2022, 126, 5218-5223.	1.5	4
12	Endoepitaxial growth of monolayer mosaic heterostructures. Nature Nanotechnology, 2022, 17, 493-499.	15.6	58
13	Graphene charge-injection photodetectors. Nature Electronics, 2022, 5, 281-288.	13.1	70
14	Boosting the performance of single-atom catalysts via external electric field polarization. Nature Communications, 2022, 13, .	5.8	52
15	Experimental Sabatier plot for predictive design of active and stable Pt-alloy oxygen reduction reaction catalysts. Nature Catalysis, 2022, 5, 513-523.	16.1	57
16	Chiral molecular intercalation superlattices. Nature, 2022, 606, 902-908.	13.7	67
17	Hypocrystalline ceramic aerogels for thermal insulation at extreme conditions. Nature, 2022, 606, 909-916.	13.7	123
18	Fundamentals and applications of mixed-dimensional heterostructures. APL Materials, 2022, 10, .	2.2	2

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19	In-plane epitaxial growth of 2D CoSe ₂ /WSe ₂ metal-semiconductor lateral heterostructures with improved WSe ₂ transistors performance. <i>Informa-Materials</i> , 2021, 3, 222-228.	8.5	21
20	Elastic ceramic aerogels for thermal superinsulation under extreme conditions. <i>Materials Today</i> , 2021, 42, 162-177.	8.3	73
21	Ultra-Steep Slope Impact Ionization Transistors Based on Graphene/InAs Heterostructures. <i>Small Structures</i> , 2021, 2, 2000039.	6.9	11
22	Van der Waals Heterostructures by Design: From 1D and 2D to 3D. <i>Matter</i> , 2021, 4, 552-581.	5.0	83
23	Autobifunctional Mechanism of Jagged Pt Nanowires for Hydrogen Evolution Kinetics via End-to-End Simulation. <i>Journal of the American Chemical Society</i> , 2021, 143, 5355-5363.	6.6	33
24	The Nano Research Young Innovators (NR45) Awards in two-dimensional materials. <i>Nano Research</i> , 2021, 14, 1575-1582.	5.8	1
25	Van der Waals epitaxial growth of air-stable CrSe ₂ nanosheets with thickness-tunable magnetic order. <i>Nature Materials</i> , 2021, 20, 818-825.	13.3	206
26	High-order superlattices by rolling up van der Waals heterostructures. <i>Nature</i> , 2021, 591, 385-390.	13.7	163
27	Toward Rational Design of Single-Atom Catalysts. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 2837-2847.	2.1	45
28	Promises and prospects of two-dimensional transistors. <i>Nature</i> , 2021, 591, 43-53.	13.7	548
29	Layered Intercalation Materials. <i>Advanced Materials</i> , 2021, 33, e2004557.	11.1	92
30	Probing and pushing the limit of emerging electronic materials via van der Waals integration. <i>MRS Bulletin</i> , 2021, 46, 534-546.	1.7	5
31	High-yield exfoliation of 2D semiconductor monolayers and reassembly of organic/inorganic artificial superlattices. <i>CheM</i> , 2021, 7, 1887-1902.	5.8	36
32	On the occasion of the 80th birthday of Professor Yitai Qian: Celebrating 60 years of innovation in solid-state chemistry and nanoscience. <i>Nano Research</i> , 2021, 14, 3337-3342.	5.8	1
33	Organic Semiconductor Single Crystals for X-ray Imaging. <i>Advanced Materials</i> , 2021, 33, e2104749.	11.1	43
34	Two-dimensional van der Waals thin film transistors as active matrix for spatially resolved pressure sensing. <i>Nano Research</i> , 2021, 14, 3395-3401.	5.8	19
35	Silver nanoparticles boost charge-extraction efficiency in <i>Shewanella</i> microbial fuel cells. <i>Science</i> , 2021, 373, 1336-1340.	6.0	171
36	Tunable one-dimensional inorganic perovskite nanomeshes library for water splitting. <i>Nano Energy</i> , 2021, 88, 106251.	8.2	12

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37	Large-Area Synthesis and Patterning of All-Inorganic Lead Halide Perovskite Thin Films and Heterostructures. <i>Nano Letters</i> , 2021, 21, 1454-1460.	4.5	27
38	Hidden Vacancy Benefit in Monolayer 2D Semiconductors. <i>Advanced Materials</i> , 2021, 33, e2007051.	11.1	65
39	Approaching the intrinsic exciton physics limit in two-dimensional semiconductor diodes. <i>Nature</i> , 2021, 599, 404-410.	13.7	57
40	Valence oscillation and dynamic active sites in monolayer NiCo hydroxides for water oxidation. <i>Nature Catalysis</i> , 2021, 4, 1050-1058.	16.1	272
41	Hierarchical N-doping germanium/carbon nanofibers as anode for high-performance lithium-ion and sodium-ion batteries. <i>Nanotechnology</i> , 2020, 31, 015402.	1.3	22
42	Ultrafast growth of large single crystals of monolayer WS ₂ and WSe ₂ . <i>National Science Review</i> , 2020, 7, 737-744.	4.6	64
43	Boosting superconductivity in organic-inorganic superlattices. <i>Science Bulletin</i> , 2020, 65, 177-178.	4.3	5
44	A Fully Aqueous Hybrid Electrolyte Rechargeable Battery with High Voltage and High Energy Density. <i>Advanced Energy Materials</i> , 2020, 10, 2001583.	10.2	40
45	Beyond Extended Surfaces: Understanding the Oxygen Reduction Reaction on Nanocatalysts. <i>Journal of the American Chemical Society</i> , 2020, 142, 17812-17827.	6.6	134
46	Tailoring a Three-Phase Microenvironment for High-Performance Oxygen Reduction Reaction in Proton Exchange Membrane Fuel Cells. <i>Matter</i> , 2020, 3, 1774-1790.	5.0	71
47	Pushing the conductance and transparency limit of monolayer graphene electrodes for flexible organic light-emitting diodes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 25991-25998.	3.3	28
48	Black phosphorus composites with engineered interfaces for high-rate high-capacity lithium storage. <i>Science</i> , 2020, 370, 192-197.	6.0	336
49	High-Performance Flexible Bismuth Telluride Thin Film from Solution Processed Colloidal Nanoplates. <i>Advanced Materials Technologies</i> , 2020, 5, 2000600.	3.0	26
50	Probing photoelectrical transport in lead halide perovskites with van der Waals contacts. <i>Nature Nanotechnology</i> , 2020, 15, 768-775.	15.6	63
51	Graphene-based vertical thin film transistors. <i>Science China Information Sciences</i> , 2020, 63, 1.	2.7	24
52	Single Atoms at Crystal Ladder Steps. <i>CheM</i> , 2020, 6, 3169-3171.	5.8	0
53	Enhancement of oxygen reduction reaction activity by grain boundaries in platinum nanostructures. <i>Nano Research</i> , 2020, 13, 3310-3314.	5.8	17
54	Manipulation of Valley Pseudospin by Selective Spin Injection in Chiral Two-Dimensional Perovskite/Monolayer Transition Metal Dichalcogenide Heterostructures. <i>ACS Nano</i> , 2020, 14, 15154-15160.	7.3	49

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55	A fundamental look at electrocatalytic sulfur reduction reaction. <i>Nature Catalysis</i> , 2020, 3, 762-770.	16.1	455
56	Robust Flexible Pressure Sensors Made from Conductive Micropyramids for Manipulation Tasks. <i>ACS Nano</i> , 2020, 14, 12866-12876.	7.3	106
57	Highly active and stable stepped Cu surface for enhanced electrochemical CO ₂ reduction to C ₂ H ₄ . <i>Nature Catalysis</i> , 2020, 3, 804-812.	16.1	298
58	Iridium single-atom catalyst on nitrogen-doped carbon for formic acid oxidation synthesized using a general host-guest strategy. <i>Nature Chemistry</i> , 2020, 12, 764-772.	6.6	452
59	Redox Control of Charge Transport in Vertical Ferrocene Molecular Tunnel Junctions. <i>CheM</i> , 2020, 6, 1172-1182.	5.8	40
60	Organosulfur Compounds Enable Uniform Lithium Plating and Long-Term Battery Cycling Stability. <i>Nano Letters</i> , 2020, 20, 2594-2601.	4.5	29
61	General synthesis of two-dimensional van der Waals heterostructure arrays. <i>Nature</i> , 2020, 579, 368-374.	13.7	393
62	Molecular Design of Single-Atom Catalysts for Oxygen Reduction Reaction. <i>Advanced Energy Materials</i> , 2020, 10, 1903815.	10.2	295
63	Efficient strain modulation of 2D materials via polymer encapsulation. <i>Nature Communications</i> , 2020, 11, 1151.	5.8	215
64	Highly Reliable Low-Voltage Memristive Switching and Artificial Synapse Enabled by van der Waals Integration. <i>Matter</i> , 2020, 2, 965-976.	5.0	40
65	Covalent Selenium Embedded in Hierarchical Carbon Nanofibers for Ultra-High Areal Capacity Li-Se Batteries. <i>IScience</i> , 2020, 23, 100919.	1.9	40
66	Doping on demand in 2D devices. <i>Nature Electronics</i> , 2020, 3, 77-78.	13.1	18
67	van der Waals Integrated Devices Based on Nanomembranes of 3D Materials. <i>Nano Letters</i> , 2020, 20, 1410-1416.	4.5	19
68	Sensitive pressure sensors based on conductive microstructured air-gap gates and two-dimensional semiconductor transistors. <i>Nature Electronics</i> , 2020, 3, 59-69.	13.1	150
69	Possible Luttinger liquid behavior of edge transport in monolayer transition metal dichalcogenide crystals. <i>Nature Communications</i> , 2020, 11, 659.	5.8	23
70	Pt ₃ Ag alloy wavy nanowires as highly effective electrocatalysts for ethanol oxidation reaction. <i>Nano Research</i> , 2020, 13, 1472-1478.	5.8	58
71	Suppressed threshold voltage roll-off and ambipolar transport in multilayer transition metal dichalcogenide feed-back gate transistors. <i>Nano Research</i> , 2020, 13, 1943-1947.	5.8	5
72	Doping-free complementary WSe ₂ circuit via van der Waals metal integration. <i>Nature Communications</i> , 2020, 11, 1866.	5.8	153

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73	Programmable devices based on reversible solid-state doping of two-dimensional semiconductors with superionic silver iodide. <i>Nature Electronics</i> , 2020, 3, 630-637.	13.1	61
74	Hierarchical Porous Carbon Derived from Covalent Triazine Frameworks for High Mass Loading Supercapacitors. , 2019, 1, 320-326.		29
75	PtCuNi Tetrahedra Catalysts with Tailored Surfaces for Efficient Alcohol Oxidation. <i>Nano Letters</i> , 2019, 19, 5431-5436.	4.5	93
76	Nanowire Electronics: From Nanoscale to Macroscale. <i>Chemical Reviews</i> , 2019, 119, 9074-9135.	23.0	210
77	Rapid Electrochemical Cleaning Silver Nanowire Thin Films for High-Performance Transparent Conductors. <i>Journal of the American Chemical Society</i> , 2019, 141, 12251-12257.	6.6	37
78	SnSe/MoS ₂ van der Waals Heterostructure Junction Field-Effect Transistors with Nearly Ideal Subthreshold Slope. <i>Advanced Materials</i> , 2019, 31, e1902962.	11.1	49
79	Differential Surface Elemental Distribution Leads to Significantly Enhanced Stability of PtNi-Based ORR Catalysts. <i>Matter</i> , 2019, 1, 1567-1580.	5.0	82
80	In situ interface engineering for probing the limit of quantum dot photovoltaic devices. <i>Nature Nanotechnology</i> , 2019, 14, 950-956.	15.6	30
81	Ultra-high Areal Capacity Realized in Three-Dimensional Holey Graphene/SnO ₂ Composite Anodes. <i>IScience</i> , 2019, 19, 728-736.	1.9	40
82	In Situ Probing Molecular Intercalation in Two-Dimensional Layered Semiconductors. <i>Nano Letters</i> , 2019, 19, 6819-6826.	4.5	72
83	Microwave Shock Synthesis beyond Thermodynamic Equilibrium. <i>Matter</i> , 2019, 1, 555-557.	5.0	6
84	Van der Waals thin-film electronics. <i>Nature Electronics</i> , 2019, 2, 378-388.	13.1	131
85	Selective growth of wide band gap atomically thin Sb ₂ O ₃ inorganic molecular crystal on WS ₂ . <i>Nano Research</i> , 2019, 12, 2781-2787.	5.8	9
86	van der Waals Epitaxial Growth of Atomically Thin 2D Metals on Dangling-Bond-Free WSe ₂ and WS ₂ . <i>Advanced Functional Materials</i> , 2019, 29, 1806611.	7.8	99
87	A field-effect approach to directly profiling the localized states in monolayer MoS ₂ . <i>Science Bulletin</i> , 2019, 64, 1049-1055.	4.3	5
88	In Situ Transmission Electron Microscopy for Energy Materials and Devices. <i>Advanced Materials</i> , 2019, 31, e1900608.	11.1	95
89	Bacteria-Derived Biological Carbon Building Robust Li-S Batteries. <i>Nano Letters</i> , 2019, 19, 4384-4390.	4.5	95
90	Large-area graphene-nanomesh/carbon-nanotube hybrid membranes for ionic and molecular nanofiltration. <i>Science</i> , 2019, 364, 1057-1062.	6.0	475

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91	Single-atom tailoring of platinum nanocatalysts for high-performance multifunctional electrocatalysis. <i>Nature Catalysis</i> , 2019, 2, 495-503.	16.1	464
92	Rational Kinetics Control toward Universal Growth of 2D Vertically Stacked Heterostructures. <i>Advanced Materials</i> , 2019, 31, e1901351.	11.1	79
93	Nanoscale electronic devices based on transition metal dichalcogenides. <i>2D Materials</i> , 2019, 6, 032004.	2.0	51
94	A scalable slurry process to fabricate a 3D lithiophilic and conductive framework for a high performance lithium metal anode. <i>Journal of Materials Chemistry A</i> , 2019, 7, 13225-13233.	5.2	49
95	Phase-tunable Synthesis of Ultrathin Layered Tetragonal CoSe and Nonlayered Hexagonal CoSe Nanoplates. <i>Advanced Materials</i> , 2019, 31, e1900901.	11.1	52
96	Synthesis of surface controlled nickel/palladium hydride nanodendrites with high performance in benzyl alcohol oxidation. <i>Nano Research</i> , 2019, 12, 1467-1472.	5.8	29
97	Van der Waals integration before and beyond two-dimensional materials. <i>Nature</i> , 2019, 567, 323-333.	13.7	946
98	Direct van der Waals epitaxial growth of 1D/2D Sb ₂ Se ₃ /WS ₂ mixed-dimensional p-n heterojunctions. <i>Nano Research</i> , 2019, 12, 1139-1145.	5.8	63
99	Self-Assembled Molecular-Electronic Films Controlled by Room Temperature Quantum Interference. <i>CheM</i> , 2019, 5, 474-484.	5.8	45
100	Villiform carbon fiber paper as current collector for capacitive deionization devices with high areal electrosorption capacity. <i>Desalination</i> , 2019, 459, 1-9.	4.0	29
101	Self-trapped state enabled filterless narrowband photodetections in 2D layered perovskite single crystals. <i>Nature Communications</i> , 2019, 10, 806.	5.8	207
102	Double-negative-index ceramic aerogels for thermal superinsulation. <i>Science</i> , 2019, 363, 723-727.	6.0	429
103	Single atom electrocatalysts supported on graphene or graphene-like carbons. <i>Chemical Society Reviews</i> , 2019, 48, 5207-5241.	18.7	441
104	Uniform and ultrathin high- κ gate dielectrics for two-dimensional electronic devices. <i>Nature Electronics</i> , 2019, 2, 563-571.	13.1	204
105	Direct Observation of Nanoscale Light Confinement without Metal. <i>Advanced Materials</i> , 2019, 31, e1806341.	11.1	17
106	Nanoscale Structure Design for High-Performance Pt-Based ORR Catalysts. <i>Advanced Materials</i> , 2019, 31, e1802234.	11.1	478
107	Hierarchical 3D electrodes for electrochemical energy storage. <i>Nature Reviews Materials</i> , 2019, 4, 45-60.	23.3	554
108	Long-Range Hierarchical Nanocrystal Assembly Driven by Molecular Structural Transformation. <i>Journal of the American Chemical Society</i> , 2019, 141, 1498-1505.	6.6	21

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109	Inhibiting Polysulfide Shuttling with a Graphene Composite Separator for Highly Robust Lithium-Sulfur Batteries. <i>Joule</i> , 2019, 3, 303.	11.7	14
110	Maximizing the Current Output in Self-Aligned Graphene-InAs Metal Vertical Transistors. <i>ACS Nano</i> , 2019, 13, 847-854.	7.3	23
111	A Highly Active Star Decahedron Cu Nanocatalyst for Hydrocarbon Production at Low Overpotentials. <i>Advanced Materials</i> , 2019, 31, e1805405.	11.1	134
112	High-Performance Black Phosphorus Field-Effect Transistors with Long-Term Air Stability. <i>Nano Letters</i> , 2019, 19, 331-337.	4.5	62
113	Ultrathin wavy Rh nanowires as highly effective electrocatalysts for methanol oxidation reaction with ultrahigh ECSA. <i>Nano Research</i> , 2019, 12, 211-215.	5.8	66
114	Nitrogen Doped Graphdiyne Enhances Oxygen Reduction Reactions. <i>Wuli Huaxue Xuebao/ Acta Physico - Chimica Sinica</i> , 2019, 35, 559-560.	2.2	2
115	The Blossoming of 2D Materials. <i>Wuli Huaxue Xuebao/ Acta Physico - Chimica Sinica</i> , 2019, 35, 1039-1040.	2.2	3
116	Quantitative Surface Plasmon Interferometry via Upconversion Photoluminescence Mapping. <i>Research</i> , 2019, 2019, 8304824.	2.8	2
117	Monolayer atomic crystal molecular superlattices. <i>Nature</i> , 2018, 555, 231-236.	13.7	323
118	A molecular cross-linking approach for hybrid metal oxides. <i>Nature Materials</i> , 2018, 17, 341-348.	13.3	90
119	On-Chip in Situ Monitoring of Competitive Interfacial Anionic Chemisorption as a Descriptor for Oxygen Reduction Kinetics. <i>ACS Central Science</i> , 2018, 4, 590-599.	5.3	29
120	Strain-Tuning Atomic Substitution in Two-Dimensional Atomic Crystals. <i>ACS Nano</i> , 2018, 12, 4853-4860.	7.3	75
121	Few-Layer GeAs Field-Effect Transistors and Infrared Photodetectors. <i>Advanced Materials</i> , 2018, 30, e1705934.	11.1	100
122	WSe ₂ /GeSe heterojunction photodiode with giant gate tunability. <i>Nano Energy</i> , 2018, 49, 103-108.	8.2	73
123	Roles of Mo Surface Dopants in Enhancing the ORR Performance of Octahedral PtNi Nanoparticles. <i>Nano Letters</i> , 2018, 18, 798-804.	4.5	162
124	General synthesis and definitive structural identification of MN ₄ C ₄ single-atom catalysts with tunable electrocatalytic activities. <i>Nature Catalysis</i> , 2018, 1, 63-72.	16.1	1,476
125	Metal@semiconductor core-shell nanocrystals with atomically organized interfaces for efficient hot electron-mediated photocatalysis. <i>Nano Energy</i> , 2018, 48, 44-52.	8.2	118
126	Chemical synthesis of two-dimensional atomic crystals, heterostructures and superlattices. <i>Chemical Society Reviews</i> , 2018, 47, 3129-3151.	18.7	132

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127	Direct Room Temperature Welding and Chemical Protection of Silver Nanowire Thin Films for High Performance Transparent Conductors. <i>Journal of the American Chemical Society</i> , 2018, 140, 193-199.	6.6	153
128	Broadband gate-tunable terahertz plasmons in graphene heterostructures. <i>Nature Photonics</i> , 2018, 12, 22-28.	15.6	127
129	Highly-anisotropic optical and electrical properties in layered SnSe. <i>Nano Research</i> , 2018, 11, 554-564.	5.8	114
130	Building two-dimensional materials one row at a time: Avoiding the nucleation barrier. <i>Science</i> , 2018, 362, 1135-1139.	6.0	155
131	Chemical Vapor Deposition Growth of Single Crystalline CoTe ₂ Nanosheets with Tunable Thickness and Electronic Properties. <i>Chemistry of Materials</i> , 2018, 30, 8891-8896.	3.2	51
132	Solution-processable 2D semiconductors for high-performance large-area electronics. <i>Nature</i> , 2018, 562, 254-258.	13.7	644
133	Inhibiting Polysulfide Shuttling with a Graphene Composite Separator for Highly Robust Lithium-Sulfur Batteries. <i>Joule</i> , 2018, 2, 2091-2104.	11.7	345
134	Quantum interference mediated vertical molecular tunneling transistors. <i>Science Advances</i> , 2018, 4, eaat8237.	4.7	64
135	Synthetic Control of Two-Dimensional NiTe ₂ Single Crystals with Highly Uniform Thickness Distributions. <i>Journal of the American Chemical Society</i> , 2018, 140, 14217-14223.	6.6	119
136	Enhanced interlayer neutral excitons and trions in trilayer van der Waals heterostructures. <i>Npj 2D Materials and Applications</i> , 2018, 2, .	3.9	44
137	Composition modulation in one-dimensional and two-dimensional chalcogenide semiconductor nanostructures. <i>Chemical Society Reviews</i> , 2018, 47, 7504-7521.	18.7	99
138	Pt-Ni alloy catalysts for highly selective anti-Markovnikov alkene hydrosilylation. <i>Science China Materials</i> , 2018, 61, 1339-1344.	3.5	13
139	Thickness-Tunable Synthesis of Ultrathin Type-II Dirac Semimetal PtTe ₂ Single Crystals and Their Thickness-Dependent Electronic Properties. <i>Nano Letters</i> , 2018, 18, 3523-3529.	4.5	147
140	Approaching the Schottky-Mott limit in van der Waals metal-semiconductor junctions. <i>Nature</i> , 2018, 557, 696-700.	13.7	1,279
141	Synthesis of Ultrathin Metallic MTe ₂ (M = V, Nb, Ta) Single-Crystalline Nanoplates. <i>Advanced Materials</i> , 2018, 30, e1801043.	11.1	183
142	Two-dimensional transistors beyond graphene and TMDCs. <i>Chemical Society Reviews</i> , 2018, 47, 6388-6409.	18.7	301
143	Improvement by Channel Recess of Contact Resistance and Gate Control in Large-Scale Spin-Coated MoS ₂ MOSFETs. <i>IEEE Electron Device Letters</i> , 2018, 39, 1453-1456.	2.2	6
144	Microwave-Assisted Rapid Synthesis of Graphene-Supported Single Atomic Metals. <i>Advanced Materials</i> , 2018, 30, e1802146.	11.1	244

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145	Synthesis of ultrathin two-dimensional nanosheets and van der Waals heterostructures from non-layered $\text{I}^3\text{-CuI}$. <i>Npj 2D Materials and Applications</i> , 2018, 2, .	3.9	34
146	Gate-tunable frequency combs in graphene–nitride microresonators. <i>Nature</i> , 2018, 558, 410-414.	13.7	182
147	Strong Fluorescence Enhancement with Silica-Coated Au Nanoshell Dimers. <i>Plasmonics</i> , 2017, 12, 263-269.	1.8	5
148	Three-dimensional graphene/polyimide composite-derived flexible high-performance organic cathode for rechargeable lithium and sodium batteries. <i>Journal of Materials Chemistry A</i> , 2017, 5, 2710-2716.	5.2	119
149	Molecular ligand modulation of palladium nanocatalysts for highly efficient and robust heterogeneous oxidation of cyclohexenone to phenol. <i>Science Advances</i> , 2017, 3, e1600615.	4.7	24
150	Designing an Efficient Multimode Environmental Sensor Based on Graphene–Silicon Heterojunction. <i>Advanced Materials Technologies</i> , 2017, 2, 1600262.	3.0	55
151	Spatially composition-modulated two-dimensional $\text{WS}_2/\text{Se}_2(1-x)$ nanosheets. <i>Nanoscale</i> , 2017, 9, 4707-4712.	2.8	39
152	Flexible Dielectric Nanocomposites with Ultrawide Zero-Temperature Coefficient Windows for Electrical Energy Storage and Conversion under Extreme Conditions. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 7591-7600.	4.0	29
153	Ambipolar Barristors for Reconfigurable Logic Circuits. <i>Nano Letters</i> , 2017, 17, 1448-1454.	4.5	29
154	Photodetectors: Solvent-Based Soft Patterning of Graphene Lateral Heterostructures for Broadband High-Speed Metal–Semiconductor–Metal Photodetectors (<i>Adv. Mater. Technol.</i> 2/2017). <i>Advanced Materials Technologies</i> , 2017, 2, .	3.0	2
155	Broken Symmetry Induced Strong Nonlinear Optical Effects in Spiral WS_2 Nanosheets. <i>ACS Nano</i> , 2017, 11, 4892-4898.	7.3	123
156	A self-powered high-performance graphene/silicon ultraviolet photodetector with ultra-shallow junction: breaking the limit of silicon?. <i>Npj 2D Materials and Applications</i> , 2017, 1, .	3.9	211
157	Three-dimensional holey-graphene/niobia composite architectures for ultrahigh-rate energy storage. <i>Science</i> , 2017, 356, 599-604.	6.0	1,229
158	Self-Optimization of the Active Site of Molybdenum Disulfide by an Irreversible Phase Transition during Photocatalytic Hydrogen Evolution. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 7610-7614.	7.2	221
159	Self-Optimization of the Active Site of Molybdenum Disulfide by an Irreversible Phase Transition during Photocatalytic Hydrogen Evolution. <i>Angewandte Chemie</i> , 2017, 129, 7718-7722.	1.6	61
160	Nonlinear photoluminescence in monolayer WS_2 : parabolic emission and excitation fluence-dependent recombination dynamics. <i>Nanoscale</i> , 2017, 9, 7235-7241.	2.8	41
161	Ultrafine Graphene Nanomesh with Large On/Off Ratio for High-Performance Flexible Biosensors. <i>Advanced Functional Materials</i> , 2017, 27, 1604096.	7.8	111
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