Dongxia Shi

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.

7,289 85 112 39 h-index g-index citations papers 118 8,561 9.2 5.54 L-index avg, IF ext. citations ext. papers

#	Paper	IF	Citations
112	Spatially indirect intervalley excitons in bilayer WSe2. <i>Physical Review B</i> , 2022 , 105,	3.3	2
111	Interlayer exciton complexes in bilayer MoS2. <i>Physical Review B</i> , 2022 , 105,	3.3	3
110	Hot-Pressed Two-Dimensional Amorphous Metals and Their Electronic Properties. <i>Crystals</i> , 2022 , 12, 616	2.3	
109	A Reliable All-2D Materials Artificial Synapse for High Energy-Efficient Neuromorphic Computing. <i>Advanced Functional Materials</i> , 2021 , 31, 2011083	15.6	20
108	Wafer-Scale Oxygen-Doped MoS Monolayer <i>Small Methods</i> , 2021 , 5, e2100091	12.8	6
107	Emergence of Chern Insulating States in Non-Magic Angle Twisted Bilayer Graphene. <i>Chinese Physics Letters</i> , 2021 , 38, 047301	1.8	6
106	Thermally induced band hybridization in bilayer-bilayer MoS2/WS2 heterostructure*. <i>Chinese Physics B</i> , 2021 , 30, 057801	1.2	2
105	Inside Back Cover: Wafer-Scale Oxygen-Doped MoS2 Monolayer (Small Methods 6/2021). <i>Small Methods</i> , 2021 , 5, 2170026	12.8	
104	Artificial Synapses: A Reliable All-2D Materials Artificial Synapse for High Energy-Efficient Neuromorphic Computing (Adv. Funct. Mater. 27/2021). <i>Advanced Functional Materials</i> , 2021 , 31, 21701	9 ^{15.6}	1
103	Ultra-low friction and edge-pinning effect in large-lattice-mismatch van der Waals heterostructures. <i>Nature Materials</i> , 2021 ,	27	21
102	Employing defected monolayer MoS as charge storage materials. <i>Nanotechnology</i> , 2020 , 31, 235710	3.4	
101	Correlated states in twisted double bilayer graphene. <i>Nature Physics</i> , 2020 , 16, 520-525	16.2	194
100	High-order minibands and interband Landau level reconstruction in graphene moir uperlattices. <i>Physical Review B</i> , 2020 , 102,	3.3	1
99	Artificial Synapse Based on van der Waals Heterostructures with Tunable Synaptic Functions for Neuromorphic Computing. <i>ACS Applied Materials & Description (Materials & Description (Materials & Description)</i> 12, 11945-11954	9.5	43
98	Precise control of the interlayer twist angle in large scale MoS homostructures. <i>Nature Communications</i> , 2020 , 11, 2153	17.4	55
97	Scratching lithography for wafer-scale MoS2 monolayers. 2D Materials, 2020, 7, 045028	5.9	4
96	A review of experimental advances in twisted graphene moir uperlattice. <i>Chinese Physics B</i> , 2020 , 29, 128104	1.2	2

(2019-2020)

95	Vertical Integration of 2D Building Blocks for All-2D Electronics. <i>Advanced Electronic Materials</i> , 2020 , 6, 2000550	6.4	10
94	Observation of logarithmic Kohn anomaly in monolayer graphene. <i>Physical Review B</i> , 2020 , 102,	3.3	3
93	In Situ Oxygen Doping of Monolayer MoS for Novel Electronics. <i>Small</i> , 2020 , 16, e2004276	11	21
92	Large-scale flexible and transparent electronics based on monolayer molybdenum disulfide field-effect transistors. <i>Nature Electronics</i> , 2020 , 3, 711-717	28.4	90
91	Wafer-Scale Highly Oriented Monolayer MoS with Large Domain Sizes. <i>Nano Letters</i> , 2020 , 20, 7193-719	99 1.5	69
90	Current-driven magnetization switching in a van der Waals ferromagnet FeGeTe. <i>Science Advances</i> , 2019 , 5, eaaw8904	14.3	119
89	Atomic Layer Deposition: Atomic Layer Deposition of Al2O3 Directly on 2D Materials for High-Performance Electronics (Adv. Mater. Interfaces 10/2019). <i>Advanced Materials Interfaces</i> , 2019 , 6, 1970065	4.6	1
88	Strongly distinct electrical response between circular and valley polarization in bilayer transition metal dichalcogenides. <i>Physical Review B</i> , 2019 , 99,	3.3	10
87	Strong and tunable interlayer coupling of infrared-active phonons to excitons in van der Waals heterostructures. <i>Physical Review B</i> , 2019 , 99,	3.3	6
86	Boundary activated hydrogen evolution reaction on monolayer MoS. <i>Nature Communications</i> , 2019 , 10, 1348	17.4	168
85	Atomic Layer Deposition of Al2O3 Directly on 2D Materials for High-Performance Electronics. <i>Advanced Materials Interfaces</i> , 2019 , 6, 1802055	4.6	14
84	Nonvolatile Memory: New Floating Gate Memory with Excellent Retention Characteristics (Adv. Electron. Mater. 4/2019). <i>Advanced Electronic Materials</i> , 2019 , 5, 1970018	6.4	3
83	Pressure-mediated contact quality improvement between monolayer MoS 2 and graphite. <i>Chinese Physics B</i> , 2019 , 28, 017301	1.2	2
82	Band evolution of two-dimensional transition metal dichalcogenides under electric fields. <i>Applied Physics Letters</i> , 2019 , 115, 083104	3.4	4
81	Robust circular polarization of indirect Q-K transitions in bilayer 3RWS2. <i>Physical Review B</i> , 2019 , 100,	3.3	7
80	Lattice Dynamics, Phonon Chirality, and SpinPhonon Coupling in 2D Itinerant Ferromagnet Fe3GeTe2. <i>Advanced Functional Materials</i> , 2019 , 29, 1904734	15.6	33
79	Giant Valley Coherence at Room Temperature in 3R WS with Broken Inversion Symmetry. <i>Research</i> , 2019 , 2019, 6494565	7.8	7
78	New Floating Gate Memory with Excellent Retention Characteristics. <i>Advanced Electronic Materials</i> , 2019 , 5, 1800726	6.4	25

77	Temperature-driven evolution of critical points, interlayer coupling, and layer polarization in bilayer MoS2. <i>Physical Review B</i> , 2018 , 97,	3.3	18
76	Robust spin-valley polarization in commensurate MoS2/graphene heterostructures. <i>Physical Review B</i> , 2018 , 97,	3.3	20
75	Bandgap broadening at grain boundaries in single-layer MoS2. Nano Research, 2018, 11, 6102-6109	10	17
74	Twist angle-dependent conductivities across MoS/graphene heterojunctions. <i>Nature Communications</i> , 2018 , 9, 4068	17.4	59
73	Electronic structure-dependent magneto-optical Raman effect in atomically thin WS 2. 2D Materials , 2018 , 5, 035028	5.9	9
72	Magnetotransport Properties of Graphene Nanoribbons with Zigzag Edges. <i>Physical Review Letters</i> , 2018 , 120, 216601	7.4	19
71	Strongly enhanced exciton-phonon coupling in two-dimensional WSe2. <i>Physical Review B</i> , 2018 , 97,	3.3	21
70	Precisely Aligned Monolayer MoS Epitaxially Grown on h-BN basal Plane. <i>Small</i> , 2017 , 13, 1603005	11	73
69	Epitaxial fabrication of two-dimensional NiSe2 on Ni(111) substrate. <i>Applied Physics Letters</i> , 2017 , 111, 113107	3.4	21
68	Argon Plasma Induced Phase Transition in Monolayer MoS. <i>Journal of the American Chemical Society</i> , 2017 , 139, 10216-10219	16.4	234
67	Graphene-Contacted Ultrashort Channel Monolayer MoS Transistors. Advanced Materials, 2017, 29, 170)25/22	144
66	Highly Sensitive MoS Humidity Sensors Array for Noncontact Sensation. <i>Advanced Materials</i> , 2017 , 29, 1702076	24	223
65	A facile and efficient dry transfer technique for two-dimensional Van derWaals heterostructure. <i>Chinese Physics B</i> , 2017 , 26, 087306	1.2	7
64	From Type-II Triply Degenerate Nodal Points and Three-Band Nodal Rings to Type-II Dirac Points in Centrosymmetric Zirconium Oxide. <i>Journal of Physical Chemistry Letters</i> , 2017 , 8, 5792-5797	6.4	49
63	Wafer-Scale Growth and Transfer of Highly-Oriented Monolayer MoS Continuous Films. <i>ACS Nano</i> , 2017 , 11, 12001-12007	16.7	264
62	Modulating PL and electronic structures of MoS2/graphene heterostructures via interlayer twisting angle. <i>Applied Physics Letters</i> , 2017 , 111, 263106	3.4	31
61	Thermally Induced Graphene Rotation on Hexagonal Boron Nitride. <i>Physical Review Letters</i> , 2016 , 116, 126101	7.4	103
60	Observation of Strong Interlayer Coupling in MoS2/WS2 Heterostructures. <i>Advanced Materials</i> , 2016 , 28, 1950-6	24	172

59	Patterned Peeling 2D MoS2 off the Substrate. ACS Applied Materials & amp; Interfaces, 2016, 8, 16546-5	09.5	28
58	Integrated Flexible and High-Quality Thin Film Transistors Based on Monolayer MoS2. <i>Advanced Electronic Materials</i> , 2016 , 2, 1500379	6.4	37
57	Gate tunable WSe2-BP van der Waals heterojunction devices. <i>Nanoscale</i> , 2016 , 8, 3254-8	7.7	50
56	Hofstadter Butterfly and Many-Body Effects in Epitaxial Graphene Superlattice. <i>Nano Letters</i> , 2016 , 16, 2387-92	11.5	25
55	The Effect of Twin Grain Boundary Tuned by Temperature on the Electrical Transport Properties of Monolayer MoS2. <i>Crystals</i> , 2016 , 6, 115	2.3	15
54	Rolling Up a Monolayer MoS2 Sheet. <i>Small</i> , 2016 , 12, 3770-4	11	39
53	Graphene nanoribbons epitaxy on boron nitride. Applied Physics Letters, 2016, 108, 113103	3.4	17
52	Patterning monolayer graphene with zigzag edges on hexagonal boron nitride by anisotropic etching. <i>Applied Physics Letters</i> , 2016 , 109, 053101	3.4	17
51	Gate tunable MoS 2 Black phosphorus heterojunction devices. 2D Materials, 2015, 2, 034009	5.9	55
50	Oxygen-Assisted Chemical Vapor Deposition Growth of Large Single-Crystal and High-Quality Monolayer MoS2. <i>Journal of the American Chemical Society</i> , 2015 , 137, 15632-5	16.4	243
49	Nanographene charge trapping memory with a large memory window. <i>Nanotechnology</i> , 2015 , 26, 4557	04.4	4
48	Tunable piezoresistivity of nanographene films for strain sensing. ACS Nano, 2015, 9, 1622-9	16.7	194
47	Photoluminescence Enhancement in Monolayer Molybdenum Disulfide by Annealing in Air. <i>Acta Chimica Sinica</i> , 2015 , 73, 954	3.3	3
46	A general route towards defect and pore engineering in graphene. Small, 2014, 10, 2280-4	11	42
45	Two-step growth of graphene with separate controlling nucleation and edge growth directly on SiO2 substrates. <i>Carbon</i> , 2014 , 72, 387-392	10.4	38
44	Scalable growth of high-quality polycrystalline MoS(2) monolayers on SiO(2) with tunable grain sizes. <i>ACS Nano</i> , 2014 , 8, 6024-30	16.7	233
43	Fabrication of high-quality all-graphene devices with low contact resistances. <i>Nano Research</i> , 2014 , 7, 1449-1456	10	14
42	A route toward digital manipulation of water nanodroplets on surfaces. ACS Nano, 2014, 8, 3955-60	16.7	28

41	A review of nanographene: growth and applications. <i>Modern Physics Letters B</i> , 2014 , 28, 1430009	1.6	7
40	Defect-enhanced coupling between graphene and SiO2 substrate. <i>Applied Physics Letters</i> , 2014 , 105, 063113	3.4	4
39	Tunable electroluminescence in planar graphene/SiO(2) memristors. Advanced Materials, 2013, 25, 5593	3-284	56
38	Epitaxial growth of single-domain graphene on hexagonal boron nitride. <i>Nature Materials</i> , 2013 , 12, 792	2- 3 7	745
37	Isolated nanographene crystals for nano-floating gate in charge trapping memory. <i>Scientific Reports</i> , 2013 , 3, 2126	4.9	46
36	Studies of graphene-based nanoelectromechanical switches. <i>Nano Research</i> , 2012 , 5, 82-87	10	46
35	Identification of structural defects in graphitic materials by gas-phase anisotropic etching. <i>Nanoscale</i> , 2012 , 4, 2005-9	7.7	33
34	Ultra-sensitive strain sensors based on piezoresistive nanographene films. <i>Applied Physics Letters</i> , 2012 , 101, 063112	3.4	244
33	Competitive Growth and Etching of Epitaxial Graphene. Journal of Physical Chemistry C, 2012, 116, 2692	19 5 . 2 691	31 8
32	Graphene edge lithography. <i>Nano Letters</i> , 2012 , 12, 4642-6	11.5	39
31	Multilevel resistive switching in planar graphene/SiO2 nanogap structures. ACS Nano, 2012, 6, 4214-21	16.7	95
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30	Molecular cloisonn⊡multicomponent organic alternating nanostructures at vicinal surfaces with tunable length scales. <i>Small</i> , 2012 , 8, 535-40	11	1
30 29		11	77
	tunable length scales. Small, 2012 , 8, 535-40		
29	Growth, characterization, and properties of nanographene. <i>Small</i> , 2012 , 8, 1429-35 Identifying multiple configurations of complex molecules on metal surfaces. <i>Small</i> , 2012 , 8,	11	77
29 28	Growth, characterization, and properties of nanographene. <i>Small</i> , 2012 , 8, 1429-35 Identifying multiple configurations of complex molecules on metal surfaces. <i>Small</i> , 2012 , 8, 796-806, 795 Surfaces: Identifying Multiple Configurations of Complex Molecules on Metal Surfaces (Small	11	77
29 28 27	Growth, characterization, and properties of nanographene. <i>Small</i> , 2012 , 8, 1429-35 Identifying multiple configurations of complex molecules on metal surfaces. <i>Small</i> , 2012 , 8, 796-806, 795 Surfaces: Identifying Multiple Configurations of Complex Molecules on Metal Surfaces (Small 6/2012). <i>Small</i> , 2012 , 8, 795-795	11 11 11	77 4

23	Observation of Raman g-peak split for graphene nanoribbons with hydrogen-terminated zigzag edges. <i>Nano Letters</i> , 2011 , 11, 4083-8	11.5	47
22	Super-elastic graphene ripples for flexible strain sensors. ACS Nano, 2011 , 5, 3645-50	16.7	542
21	Catalyst-free growth of nanographene films on various substrates. Nano Research, 2011, 4, 315-321	10	192
20	Patterning graphene with zigzag edges by self-aligned anisotropic etching. <i>Advanced Materials</i> , 2011 , 23, 3061-5	24	150
19	Investigation on interface related charge trap and loss characteristics of high-k based trapping structures by electrostatic force microscopy. <i>Applied Physics Letters</i> , 2011 , 99, 223504	3.4	18
18	Structural Transition and Thermal Stability of a Coronene Molecular Monolayer on Cu(110). <i>Journal of Physical Chemistry C</i> , 2010 , 114, 11180-11184	3.8	5
17	An anisotropic etching effect in the graphene basal plane. Advanced Materials, 2010, 22, 4014-9	24	220
16	Highly Ordered, Millimeter-Scale, Continuous, Single-Crystalline Graphene Monolayer Formed on Ru (0001). <i>Advanced Materials</i> , 2009 , 21, 2777-2780	24	351
15	Alternating the Crystalline Structural Transition of Coronene Molecular Overlayers on Ag(110) through Temperature Increase. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 17643-17647	3.8	8
14	Reversible, erasable, and rewritable nanorecording on an H2 rotaxane thin film. <i>Journal of the American Chemical Society</i> , 2007 , 129, 2204-5	16.4	70
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	American Chemical Society, 2007 , 129, 2204-5	ĺ	
13	American Chemical Society, 2007, 129, 2204-5 Processing of an atomically smooth Ge(001) surface on a large scale. Nanotechnology, 2006, 17, 2396-2 Synthesis, characterization and self-assemblies of magnetite nanoparticles. Surface and Interface	:3 9 84	6
13	American Chemical Society, 2007, 129, 2204-5 Processing of an atomically smooth Ge(001) surface on a large scale. Nanotechnology, 2006, 17, 2396-2 Synthesis, characterization and self-assemblies of magnetite nanoparticles. Surface and Interface Analysis, 2006, 38, 1063-1067 Manipulation and four-probe analysis of nanowires in UHV by application of four tunneling microscope tips: a new method for the investigation of electrical transport through nanowires.	1.5	6
13 12 11	American Chemical Society, 2007, 129, 2204-5 Processing of an atomically smooth Ge(001) surface on a large scale. Nanotechnology, 2006, 17, 2396-2 Synthesis, characterization and self-assemblies of magnetite nanoparticles. Surface and Interface Analysis, 2006, 38, 1063-1067 Manipulation and four-probe analysis of nanowires in UHV by application of four tunneling microscope tips: a new method for the investigation of electrical transport through nanowires. Surface and Interface Analysis, 2006, 38, 1096-1102 Highly ordered self-assembly with large area of Fe3O4 nanoparticles and the magnetic properties.	1.5 1.5	6 18 11
13 12 11	American Chemical Society, 2007, 129, 2204-5 Processing of an atomically smooth Ge(001) surface on a large scale. Nanotechnology, 2006, 17, 2396-2 Synthesis, characterization and self-assemblies of magnetite nanoparticles. Surface and Interface Analysis, 2006, 38, 1063-1067 Manipulation and four-probe analysis of nanowires in UHV by application of four tunneling microscope tips: a new method for the investigation of electrical transport through nanowires. Surface and Interface Analysis, 2006, 38, 1096-1102 Highly ordered self-assembly with large area of Fe3O4 nanoparticles and the magnetic properties. Journal of Physical Chemistry B, 2005, 109, 23233-6 Two-dimensional self-organization of 1-nonanethiol-capped gold nanoparticles. Science Bulletin,	1.5 1.5	6 18 11 206
13 12 11 10	American Chemical Society, 2007, 129, 2204-5 Processing of an atomically smooth Ge(001) surface on a large scale. Nanotechnology, 2006, 17, 2396-2 Synthesis, characterization and self-assemblies of magnetite nanoparticles. Surface and Interface Analysis, 2006, 38, 1063-1067 Manipulation and four-probe analysis of nanowires in UHV by application of four tunneling microscope tips: a new method for the investigation of electrical transport through nanowires. Surface and Interface Analysis, 2006, 38, 1096-1102 Highly ordered self-assembly with large area of Fe3O4 nanoparticles and the magnetic properties. Journal of Physical Chemistry B, 2005, 109, 23233-6 Two-dimensional self-organization of 1-nonanethiol-capped gold nanoparticles. Science Bulletin, 2001, 46, 996-998 Formation of Silver Nanoparticles and Self-Assembled Two-Dimensional Ordered Superlattice.	1.5 1.5 3.4	6 18 11 206

5	Study on surface and interface structures of nanocrystalline silicon by scanning tunneling microscopy. <i>Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , 1997 , 15, 1313		1
4	Scanning tunneling microscope study of polyacrylonitrile-based carbon fibers. <i>Journal of Materials Research</i> , 1997 , 12, 2543-2547	2.5	4
3	Gate-tunable large-scale flexible monolayer MoS2 devices for photodetectors and optoelectronic synapses. <i>Nano Research</i> ,1	10	6
2	Highly Stretchable MoS 2 -Based Transistors with Opto-Synaptic Functionalities. <i>Advanced Electronic Materials</i> ,2200238	6.4	1
1	Rail-to-Rail MoS2 Inverters. ACS Applied Electronic Materials,	4	