

Jian Tang

List of Publications by Year in descending order

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43
papers

2,283
citations

304602

22
h-index

289141

40
g-index

46
all docs

46
docs citations

46
times ranked

3281
citing authors

#	ARTICLE	IF	CITATIONS
1	Correlated states in twisted double bilayer graphene. Nature Physics, 2020, 16, 520-525.	6.5	374
2	Current-driven magnetization switching in a van der Waals ferromagnet Fe ₃ GeTe ₂ . Science Advances, 2019, 5, eaaw8904.	4.7	239
3	Graphene-Contacted Ultrashort Channel Monolayer MoS ₂ Transistors. Advanced Materials, 2017, 29, 1702522.	11.1	218
4	Wafer-Scale Highly Oriented Monolayer MoS ₂ with Large Domain Sizes. Nano Letters, 2020, 20, 7193-7199.	4.5	160
5	Thermally Induced Graphene Rotation on Hexagonal Boron Nitride. Physical Review Letters, 2016, 116, 126101.	2.9	142
6	Precise control of the interlayer twist angle in large scale MoS ₂ homostructures. Nature Communications, 2020, 11, 2153.	5.8	142
7	Ultra-low friction and edge-pinning effect in large-lattice-mismatch van der Waals heterostructures. Nature Materials, 2022, 21, 47-53.	13.3	110
8	Twist angle-dependent conductivities across MoS ₂ /graphene heterojunctions. Nature Communications, 2018, 9, 4068.	5.8	90
9	Artificial Synapse Based on van der Waals Heterostructures with Tunable Synaptic Functions for Neuromorphic Computing. ACS Applied Materials & Interfaces, 2020, 12, 11945-11954.	4.0	75
10	Lattice Dynamics, Phonon Chirality, and Spin-Phonon Coupling in 2D Itinerant Ferromagnet Fe ₃ GeTe ₂ . Advanced Functional Materials, 2019, 29, 1904734.	7.8	70
11	Sandwich-structured Ag/graphene/Au hybrid for surface-enhanced Raman scattering. Electrochimica Acta, 2014, 119, 43-48.	2.6	54
12	In Situ Oxygen Doping of Monolayer MoS ₂ for Novel Electronics. Small, 2020, 16, e2004276.	5.2	54
13	A Reliable All-2D Materials Artificial Synapse for High Energy-Efficient Neuromorphic Computing. Advanced Functional Materials, 2021, 31, 2011083.	7.8	53
14	New Floating Gate Memory with Excellent Retention Characteristics. Advanced Electronic Materials, 2019, 5, 1800726.	2.6	48
15	Gate-tunable large-scale flexible monolayer MoS ₂ devices for photodetectors and optoelectronic synapses. Nano Research, 2022, 15, 5418-5424.	5.8	48
16	Layer-by-layer epitaxy of multi-layer MoS ₂ wafers. National Science Review, 2022, 9, .	4.6	41
17	Strongly enhanced exciton-phonon coupling in two-dimensional WS_2 . Physical Review B, 2018, 97, .	1.1	30
18	Wafer-Scale Oxygen-Doped MoS ₂ Monolayer. Small Methods, 2021, 5, e2100091.	4.6	30

#	ARTICLE	IF	CITATIONS
19	Twist-Angle-Dependent Ultrafast Charge Transfer in MoS ₂ -Graphene van der Waals Heterostructures. Nano Letters, 2021, 21, 8051-8057.	4.5	30
20	2D proximate quantum spin liquid state in atomic-thin RuCl_3 . 2D Materials, 2019, 6, 015014.	2.0	28
21	Exchange bias and spin-orbit torque in the Fe ₃ GeTe ₂ -based heterostructures prepared by vacuum exfoliation approach. Applied Physics Letters, 2021, 118, .	1.5	27
22	Atomic Layer Deposition of Al ₂ O ₃ Directly on 2D Materials for High-Performance Electronics. Advanced Materials Interfaces, 2019, 6, 1802055.	1.9	25
23	Vertical Integration of 2D Building Blocks for All-2D Electronics. Advanced Electronic Materials, 2020, 6, 2000550.	2.6	20
24	Emergence of Chern Insulating States in Non-Magic Angle Twisted Bilayer Graphene. Chinese Physics Letters, 2021, 38, 047301.	1.3	20
25	Isospin competitions and valley polarized correlated insulators in twisted double bilayer graphene. Nature Communications, 2022, 13, .	5.8	20
26	Giant Valley Coherence at Room Temperature in 3R WS ₂ with Broken Inversion Symmetry. Research, 2019, 2019, 6494565.	2.8	17
27	Electronic synapses based on ultrathin quasi-two-dimensional gallium oxide memristor. Chinese Physics B, 2019, 28, 017304.	0.7	16
28	Adjustable plasmonic optical properties of hollow gold nanospheres monolayers and LSPR-dependent surface-enhanced Raman scattering of hollow gold nanosphere/graphene oxide hybrids. RSC Advances, 2015, 5, 42653-42662.	1.7	15
29	Skin-Inspired High-Performance Active-Matrix Circuitry for Multimodal User-Interaction. Advanced Functional Materials, 2021, 31, 2105480.	7.8	14
30	Scratching lithography for wafer-scale MoS ₂ monolayers. 2D Materials, 2020, 7, 045028.	2.0	11
31	Interlayer exciton complexes in bilayer MoS_2 . Physical Review B, 2022, 105, .	1.1	10
32	Nonvolatile Memory: New Floating Gate Memory with Excellent Retention Characteristics (Adv.) Tj ETQq0 0 0 rgBT /Qoverlock 10 Tf 50 2	2.6	8
33	Highly Stretchable MoS ₂ -Based Transistors with Opto-Synaptic Functionalities. Advanced Electronic Materials, 2022, 8, .	2.6	8
34	Temperature-linear resistivity in twisted double bilayer graphene. Physical Review B, 2022, 106, .	1.1	8
35	High-order minibands and interband Landau level reconstruction in graphene moiré superlattices. Physical Review B, 2020, 102, .	1.1	7
36	Observation of logarithmic Kohn anomaly in monolayer graphene. Physical Review B, 2020, 102, .	1.1	6

#	ARTICLE	IF	CITATIONS
37	Enhanced critical field and anomalous metallic state in two-dimensional centrosymmetric $W_1T_1S_2$. <i>Physical Review B</i> , 2022, 105.	1.1	6
38	Atomic Layer Deposition: Atomic Layer Deposition of Al_2O_3 Directly on 2D Materials for High-Performance Electronics (Adv. Mater. Interfaces 10/2019). <i>Advanced Materials Interfaces</i> , 2019, 6, 1970065.	1.9	2
39	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, 2170197.	7.8	2
40	Rail-to-Rail MoS_2 Inverters. <i>ACS Applied Electronic Materials</i> , 2022, 4, 2636-2640.	2.0	2
41	Employing defected monolayer MoS_2 as charge storage materials. <i>Nanotechnology</i> , 2020, 31, 235710.	1.3	0
42	Inside Back Cover: Wafer-Scale Oxygen-Doped MoS_2 Monolayer (Small Methods 6/2021). <i>Small Methods</i> , 2021, 5, 2170026.	4.6	0
43	Hot-Pressed Two-Dimensional Amorphous Metals and Their Electronic Properties. <i>Crystals</i> , 2022, 12, 616.	1.0	0