Jian Tang

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/7814843/publications.pdf

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43	2,283	304602	289141
papers	citations	22 h-index	40 g-index

46	46	46	3281
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Ultra-low friction and edge-pinning effect in large-lattice-mismatch van der Waals heterostructures. Nature Materials, 2022, 21, 47-53.	13.3	110
2	Interlayer exciton complexes in bilayer <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>MoS</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:math> Physical Review B, 2022, 105, .	1.1	10
3	Gate-tunable large-scale flexible monolayer MoS2 devices for photodetectors and optoelectronic synapses. Nano Research, 2022, 15, 5418-5424.	5.8	48
4	Enhanced critical field and anomalous metallic state in two-dimensional centrosymmetric <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mn>1</mml:mn><mml:msup><mml:mi>T</mml:mi><mml:mo mathvariant="normal">W</mml:mi><mml:msub><mml:mi mathvariant="normal">S</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:mrow></mml:math>. Physical Review B, 2022, 105, .	1.1	6
5	Layer-by-layer epitaxy of multi-layer MoS2 wafers. National Science Review, 2022, 9, .	4.6	41
6	Hot-Pressed Two-Dimensional Amorphous Metals and Their Electronic Properties. Crystals, 2022, 12, 616.	1.0	0
7	Highly Stretchable MoS₂â€Based Transistors with Optoâ€Synaptic Functionalities. Advanced Electronic Materials, 2022, 8, .	2.6	8
8	Rail-to-Rail MoS₂ Inverters. ACS Applied Electronic Materials, 2022, 4, 2636-2640.	2.0	2
9	Isospin competitions and valley polarized correlated insulators in twisted double bilayer graphene. Nature Communications, 2022, 13, .	5.8	20
10	Temperature-linear resistivity in twisted double bilayer graphene. Physical Review B, 2022, 106, .	1.1	8
11	A Reliable Allâ€2D Materials Artificial Synapse for High Energyâ€Efficient Neuromorphic Computing. Advanced Functional Materials, 2021, 31, 2011083.	7.8	53
12	Waferâ€Scale Oxygenâ€Doped MoS₂ Monolayer. Small Methods, 2021, 5, e2100091.	4.6	30
13	Emergence of Chern Insulating States in Non-Magic Angle Twisted Bilayer Graphene. Chinese Physics Letters, 2021, 38, 047301.	1.3	20
14	Exchange bias and spinâ€“orbit torque in the Fe3GeTe2-based heterostructures prepared by vacuum exfoliation approach. Applied Physics Letters, 2021, 118, .	1.5	27
15	Inside Back Cover: Waferâ€Scale Oxygenâ€Doped MoS₂ Monolayer (Small Methods 6/2021). Small Methods, 2021, 5, 2170026.	4.6	0
16	Artificial Synapses: A Reliable Allâ€2D Materials Artificial Synapse for High Energyâ€Efficient Neuromorphic Computing (Adv. Funct. Mater. 27/2021). Advanced Functional Materials, 2021, 31, 2170197.	7.8	2
17	Skinâ€Inspired Highâ€Performance Activeâ€Matrix Circuitry for Multimodal Userâ€Interaction. Advanced Functional Materials, 2021, 31, 2105480.	7.8	14
18	Twist-Angle-Dependent Ultrafast Charge Transfer in MoS₂-Graphene van der Waals Heterostructures. Nano Letters, 2021, 21, 8051-8057.	4.5	30

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19	Vertical Integration of 2D Building Blocks for Allâ€2D Electronics. Advanced Electronic Materials, 2020, 6, 2000550.	2.6	20
20	Observation of logarithmic Kohn anomaly in monolayer graphene. Physical Review B, 2020, 102, .	1.1	6
21	In Situ Oxygen Doping of Monolayer MoS₂ for Novel Electronics. Small, 2020, 16, e2004276.	5.2	54
22	Wafer-Scale Highly Oriented Monolayer MoS₂ with Large Domain Sizes. Nano Letters, 2020, 20, 7193-7199.	4.5	160
23	Employing defected monolayer MoS₂ as charge storage materials. Nanotechnology, 2020, 31, 235710.	1.3	0
24	Correlated states in twisted double bilayer graphene. Nature Physics, 2020, 16, 520-525.	6.5	374
25	High-order minibands and interband Landau level reconstruction in graphene moirÃ© superlattices. Physical Review B, 2020, 102, .	1.1	7
26	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
27	Precise control of the interlayer twist angle in large scale MoS2 homostructures. Nature Communications, 2020, 11, 2153.	5.8	142
28	Scratching lithography for wafer-scale MoS₂ monolayers. 2D Materials, 2020, 7, 045028.	2.0	11
29	Lattice Dynamics, Phonon Chirality, and Spinâ€“Phonon Coupling in 2D Itinerant Ferromagnet Fe₃GeTe₂. Advanced Functional Materials, 2019, 29, 1904734.	7.8	70
30	Current-driven magnetization switching in a van der Waals ferromagnet Fe ₃ GeTe ₂. Science Advances, 2019, 5, eaaw8904.	4.7	239
31	Atomic Layer Deposition: Atomic Layer Deposition of Al₂O₃ Directly on 2D Materials for Highâ€Performance Electronics (Adv. Mater. Interfaces 10/2019). Advanced Materials Interfaces, 2019, 6, 1970065.	1.9	2
32	Atomic Layer Deposition of Al₂O₃ Directly on 2D Materials for Highâ€Performance Electronics. Advanced Materials Interfaces, 2019, 6, 1802055.	1.9	25
33	Nonvolatile Memory: New Floating Gate Memory with Excellent Retention Characteristics (Adv.) Tj ETQq1 1 0.784314 rgBT /Overlock	2.6	8
34	Electronic synapses based on ultrathin quasi-two-dimensional gallium oxide memristor. Chinese Physics B, 2019, 28, 017304.	0.7	16
35	2D proximate quantum spin liquid state in atomic-thin Î± -RuCl ₃. 2D Materials, 2019, 6, 015014.	2.0	28
36	New Floating Gate Memory with Excellent Retention Characteristics. Advanced Electronic Materials, 2019, 5, 1800726.	2.6	48

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37	Giant Valley Coherence at Room Temperature in 3R WS ₂ with Broken Inversion Symmetry. Research, 2019, 2019, 6494565.	2.8	17
38	Twist angle-dependent conductivities across MoS2/graphene heterojunctions. Nature Communications, 2018, 9, 4068.	5.8	90
39	Strongly enhanced exciton-phonon coupling in two-dimensional <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>WS</mml:mi><mml:msub><mml:mi mathvariant="normal">e</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:mrow></mml:math>. Physical Review B, 2018, 97, .	1.1	30
40	Grapheneâ€Contacted Ultrashort Channel Monolayer MoS₂ Transistors. Advanced Materials, 2017, 29, 1702522.	11.1	218
41	Thermally Induced Graphene Rotation on Hexagonal Boron Nitride. Physical Review Letters, 2016, 116, 126101.	2.9	142
42	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
43	Sandwich-structured Ag/graphene/Au hybrid for surface-enhanced Raman scattering. Electrochimica Acta, 2014, 119, 43-48.	2.6	54