Shuai Zhang

List of Publications by Year
in descending order

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Version: 2024-02-01

37 papers	1,779 citations	516710 16 h-index	345221 36 g-index
38 all docs	38 docs citations	38 times ranked	2769 citing authors

#	ARTICLE	IF	CITATIONS
1	Dual-coupling-guided epitaxial growth of wafer-scale single-crystal WS2 monolayer on vicinal a-plane sapphire. Nature Nanotechnology, 2022, 17, 33-38.	31.5	171
2	Evaluation local strain of twisted bilayer graphene via moirÃ© pattern. Optics and Lasers in Engineering, 2022, 152, 106946.	3.8	10
3	Mechanical Behavior of Blisters Spontaneously Formed by Multilayer 2D Materials. Advanced Materials Interfaces, 2022, 9, .	3.7	12
4	Domino-like stacking order switching in twisted monolayerâ€“multilayer graphene. Nature Materials, 2022, 21, 621-626.	27.5	28
5	Mechanical Behavior of Blisters Spontaneously Formed by Multilayer 2D Materials (Adv. Mater.) Tj ETQq1 1 0.784314 rgBT /Overlock 10	3.7	0
6	Visualizing the Anomalous Catalysis in Two-Dimensional Confined Space. Nano Letters, 2022, 22, 4661-4668.	9.1	3
7	Dual-Scale Stick-Slip Friction on <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mtext>Graphene</mml:mtext><mml:mo>/</mml:mo><mml:mrow><mml:mi>h</mml:mi></mml:mr MoirÃ© Superlattice Structure. Physical Review Letters, 2022, 128, .	7.8	20
8	Abnormal anti-oxidation behavior of hexagonal boron nitride grown on copper. Nano Research, 2022, 15, 7577-7583.	10.4	2
9	The Origin of MoirÃ©â€Level Stickâ€Slip Behavior on Graphene/<i>h</i>â€BN Heterostructures. Advanced Functional Materials, 2022, 32, .	14.9	20
10	Sequential growth and twisted stacking of chemical-vapor-deposited graphene. Nanoscale Advances, 2021, 3, 983-990.	4.6	5
11	Tuning frictional properties of molecularly thin erucamide films through controlled self-assembling. Acta Mechanica Sinica/Lixue Xuebao, 2021, 37, 1041-1049.	3.4	6
12	Elastocapillary cleaning of twisted bilayer graphene interfaces. Nature Communications, 2021, 12, 5069.	12.8	19
13	Abnormal conductivity in low-angle twisted bilayer graphene. Science Advances, 2020, 6, .	10.3	54
14	Preparation of Twisted Bilayer Graphene via the Wetting Transfer Method. ACS Applied Materials & Interfaces, 2020, 12, 40958-40967.	8.0	35
15	Length Scale Effect in Frictional Aging of Silica Contacts. Physical Review Letters, 2020, 125, 215502.	7.8	9
16	Effect of Mo Dispersion on the Catalytic Properties and Stability of Moâ€“Fe Catalysts for the Partial Oxidation of Methanol. Molecules, 2020, 25, 2410.	3.8	2
17	Effect of surface silicon modification of H-beta zeolites for alkylation of benzene with 1-dodecene. RSC Advances, 2020, 10, 10006-10016.	3.6	15
18	Impacts of the substrate stiffness on the anti-wear performance of graphene. AIP Advances, 2019, 9, .	1.3	13

#	Article	IF	Citations
19	Tuning friction to a superlubric state via in-plane straining. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 24452-24456.	7.1	72
20	Epitaxial growth of a 100-square-centimetre single-crystal hexagonal boron nitride monolayer on copper. Nature, 2019, 570, 91-95.	27.8	422
21	Mechanical responses of boron-doped monolayer graphene. Carbon, 2019, 147, 594-601.	10.3	28
22	Effect of synthesis pH on the structure and catalytic properties of FeMo catalysts. RSC Advances, 2019, 9, 41720-41728.	3.6	3
23	Tribology of two-dimensional materials: From mechanisms to modulating strategies. Materials Today, 2019, 26, 67-86.	14.2	250
24	Oxide-assisted growth of scalable single-crystalline graphene with seamlessly stitched millimeter-sized domains on commercial copper foils. RSC Advances, 2018, 8, 8800-8804.	3.6	15
25	InnenrÃ¼cktitelbild: Ice Melting to Release Reactants in Solution Syntheses (Angew. Chem. 13/2018). Angewandte Chemie, 2018, 130, 3579-3579.	2.0	1
26	Ice Melting to Release Reactants in Solution Syntheses. Angewandte Chemie - International Edition, 2018, 57, 3354-3359.	13.8	36
27	Ice Melting to Release Reactants in Solution Syntheses. Angewandte Chemie, 2018, 130, 3412-3417.	2.0	15
28	Antiwear Performance of Monolayer MoS₂ Modulated by Residual Straining. ACS Applied Nano Materials, 2018, 1, 7092-7097.	5.0	7
29	Tuning Local Electrical Conductivity via Fine Atomic Scale Structures of Two-Dimensional Interfaces. Nano Letters, 2018, 18, 6030-6036.	9.1	22
30	Chemical Vapor Deposition Growth of Graphene Domains Across the Cu Grain Boundaries. Nano, 2018, 13, 1850088.	1.0	5
31	Design of the nanoarray pattern Feâ€“Ni bi-metal nanoparticles@M13 virus for the enhanced reduction of p-chloronitrobenzene through the micro-electrolysis effect. Environmental Science: Nano, 2017, 4, 876-885.	4.3	5
32	MoirÃ© superlattice-level stick-slip instability originated from geometrically corrugated graphene on a strongly interacting substrate. 2D Materials, 2017, 4, 025079.	4.4	33
33	Scalable Synthesis of 2D Si Nanosheets. Advanced Materials, 2017, 29, 1701777.	21.0	77
34	Lateral force modulation by moirÃ© superlattice structure: Surfing on periodically undulated graphene sheets. Carbon, 2017, 125, 76-83.	10.3	18
35	Iced photochemical reduction to synthesize atomically dispersed metals by suppressing nanocrystal growth. Nature Communications, 2017, 8, 1490.	12.8	322
36	Secondary growth of hierarchical nanostructures composed only of Nb₃O₇F single-crystalline nanorods as a new photocatalyst for hydrogen production. Journal of Materials Chemistry A, 2015, 3, 14686-14695.	10.3	19

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37	Synthesis of dispersive iron or ironâ€“silver nanoparticles on engineered capsid pVIII of M13 virus with electronegative terminal peptides. Journal of Nanoparticle Research, 2015, 17, 1.	1.9	5