# Shuai Zhang

List of Publications by Year
in descending order



| | | | |
|---|---|---|---|
| 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 | Epitaxial growth of a 100-square-centimetre single-crystal hexagonal boron nitride monolayer on copper. Nature, 2019, 570, 91-95. | 27.8 | 422 |
| 2 | Iced photochemical reduction to synthesize atomically dispersed metals by suppressing nanocrystal growth. Nature Communications, 2017, 8, 1490. | 12.8 | 322 |
| 3 | Tribology of two-dimensional materials: From mechanisms to modulating strategies. Materials Today, 2019, 26, 67-86. | 14.2 | 250 |
| 4 | 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 |
| 5 | Scalable Synthesis of 2D Si Nanosheets. Advanced Materials, 2017, 29, 1701777. | 21.0 | 77 |
| 6 | 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 |
| 7 | Abnormal conductivity in low-angle twisted bilayer graphene. Science Advances, 2020, 6, . | 10.3 | 54 |
| 8 | Ice Melting to Release Reactants in Solution Syntheses. Angewandte Chemie - International Edition, 2018, 57, 3354-3359. | 13.8 | 36 |
| 9 | Preparation of Twisted Bilayer Graphene via the Wetting Transfer Method. ACS Applied Materials & Interfaces, 2020, 12, 40958-40967. | 8.0 | 35 |
| 10 | MoirÃ© superlattice-level stick-slip instability originated from geometrically corrugated graphene on a strongly interacting substrate. 2D Materials, 2017, 4, 025079. | 4.4 | 33 |
| 11 | Mechanical responses of boron-doped monolayer graphene. Carbon, 2019, 147, 594-601. | 10.3 | 28 |
| 12 | Domino-like stacking order switching in twisted monolayerâ€“multilayer graphene. Nature Materials, 2022, 21, 621-626. | 27.5 | 28 |
| 13 | Tuning Local Electrical Conductivity via Fine Atomic Scale Structures of Two-Dimensional Interfaces. Nano Letters, 2018, 18, 6030-6036. | 9.1 | 22 |
| 14 | 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:mrow></mml:mrow></mml:math> MoirÃ© Superlattice Structure. Physical Review Letters, 2022, 128, . | 7.8 | 20 |
| 15 | The Origin of MoirÃ©â€Level Stickâ€Slip Behavior on Graphene/hâ€BN Heterostructures. Advanced Functional Materials, 2022, 32, . | 14.9 | 20 |
| 16 | Secondary growth of hierarchical nanostructures composed only of Nb<sub>3</sub>O<sub>7</sub>F single-crystalline nanorods as a new photocatalyst for hydrogen production. Journal of Materials Chemistry A, 2015, 3, 14686-14695. | 10.3 | 19 |
| 17 | Elastocapillary cleaning of twisted bilayer graphene interfaces. Nature Communications, 2021, 12, 5069. | 12.8 | 19 |
| 18 | Lateral force modulation by moirÃ© superlattice structure: Surfing on periodically undulated graphene sheets. Carbon, 2017, 125, 76-83. | 10.3 | 18 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | 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 |
| 20 | Ice Melting to Release Reactants in Solution Syntheses. Angewandte Chemie, 2018, 130, 3412-3417. | 2.0 | 15 |
| 21 | 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 |
| 22 | Impacts of the substrate stiffness on the anti-wear performance of graphene. AIP Advances, 2019, 9, . | 1.3 | 13 |
| 23 | Mechanical Behavior of Blisters Spontaneously Formed by Multilayer 2D Materials. Advanced Materials Interfaces, 2022, 9, . | 3.7 | 12 |
| 24 | Evaluation local strain of twisted bilayer graphene via moirÃ© pattern. Optics and Lasers in Engineering, 2022, 152, 106946. | 3.8 | 10 |
| 25 | Length Scale Effect in Frictional Aging of Silica Contacts. Physical Review Letters, 2020, 125, 215502. | 7.8 | 9 |
| 26 | Antiwear Performance of Monolayer MoS<sub>2</sub> Modulated by Residual Straining. ACS Applied Nano Materials, 2018, 1, 7092-7097. | 5.0 | 7 |
| 27 | Tuning frictional properties of molecularly thin erucamide films through controlled self-assembling. Acta Mechanica Sinica/Lixue Xuebao, 2021, 37, 1041-1049. | 3.4 | 6 |
| 28 | 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 |
| 29 | 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 |
| 30 | Chemical Vapor Deposition Growth of Graphene Domains Across the Cu Grain Boundaries. Nano, 2018, 13, 1850088. | 1.0 | 5 |
| 31 | Sequential growth and twisted stacking of chemical-vapor-deposited graphene. Nanoscale Advances, 2021, 3, 983-990. | 4.6 | 5 |
| 32 | Effect of synthesis pH on the structure and catalytic properties of FeMo catalysts. RSC Advances, 2019, 9, 41720-41728. | 3.6 | 3 |
| 33 | Visualizing the Anomalous Catalysis in Two-Dimensional Confined Space. Nano Letters, 2022, 22, 4661-4668. | 9.1 | 3 |
| 34 | 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 |
| 35 | Abnormal anti-oxidation behavior of hexagonal boron nitride grown on copper. Nano Research, 2022, 15, 7577-7583. | 10.4 | 2 |
| 36 | InnenrÃ¼cktitelbild: Ice Melting to Release Reactants in Solution Syntheses (Angew. Chem. 13/2018). Angewandte Chemie, 2018, 130, 3579-3579. | 2.0 | 1 |

| # | Article | IF | Citations |
|---|---|---|---|
| 37 | Mechanical Behavior of Blisters Spontaneously Formed by Multilayer 2D Materials (Adv. Mater.) Tj ETQq1 1 0.784314 rgBT /Overlock | 3.7 | 0 |