# Fangbao Jiao

List of Publications by Year
in descending order



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|---|---|---|---|
| 20 papers | 569 citations | 933447 10 h-index | 794594 19 g-index |
| 20 all docs | 20 docs citations | 20 times ranked | 1254 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | New twinning route in face-centered cubic nanocrystalline metals. Nature Communications, 2017, 8, 2142. | 12.8 | 110 |
| 2 | Band alignment of two-dimensional lateral heterostructures. 2D Materials, 2017, 4, 015038. | 4.4 | 80 |
| 3 | Carbon as a source for yellow luminescence in GaN: Isolated CN defect or its complexes. Journal of Applied Physics, 2015, 118, . | 2.5 | 67 |
| 4 | Structural and Electronic Properties of Interfaces in Graphene and Hexagonal Boron Nitride Lateral Heterostructures. Chemistry of Materials, 2016, 28, 5022-5028. | 6.7 | 63 |
| 5 | Traditional Semiconductors in the Two-Dimensional Limit. Physical Review Letters, 2018, 120, 086101. | 7.8 | 52 |
| 6 | Photoinduced Vacancy Ordering and Phase Transition in MoTe<sub>2</sub>. Nano Letters, 2019, 19, 3612-3617. | 9.1 | 43 |
| 7 | The crystalline/amorphous contact in Cu<sub>2</sub>O/Ta<sub>2</sub>O<sub>5</sub> heterostructures: increasing its sunlight-driven overall water splitting efficiency. Journal of Materials Chemistry A, 2017, 5, 2732-2738. | 10.3 | 41 |
| 8 | Structure and sources of disorder in poly(3-hexylthiophene) crystals investigated by density functional calculations with van der Waals interactions. Physical Review B, 2011, 83, . | 3.2 | 30 |
| 9 | van der Waals epitaxy of CdS thin films on single-crystalline graphene. Applied Physics Letters, 2017, 110, . | 3.3 | 24 |
| 10 | High-Pressure FeN<sub>x</sub>: Stability, Phase Transition, and Energetic Characteristic. Journal of Physical Chemistry C, 2020, 124, 19953-19961. | 3.1 | 15 |
| 11 | Formation mechanism of twin domain boundary in 2D materials: The case for WTe2. Nano Research, 2019, 12, 569-573. | 10.4 | 7 |
| 12 | Phonon-Enabled Carrier Transport of Localized States at Non-Polar Semiconductor Surfaces: A First-Principles-Based Prediction. Journal of Physical Chemistry Letters, 2016, 7, 3548-3553. | 4.6 | 6 |
| 13 | Solvent-Based Atomistic Theory for Doping Colloidal-Synthesized Quantum Dots via Cation Exchange. Journal of Physical Chemistry C, 2016, 120, 27085-27090. | 3.1 | 6 |
| 14 | Energy density of high-pressure nitrogen-rich MN<sub>x</sub> compounds. Physical Chemistry Chemical Physics, 2021, 23, 7313-7320. | 2.8 | 6 |
| 15 | Toward a Comprehensive Understanding of Mode-Specific Dynamics of Polyatomic Reactions: A Full-Dimensional Quantum Dynamics Study of the H + NH3 Reaction. Journal of Physical Chemistry A, 2022, 126, 663-669. | 2.5 | 6 |
| 16 | High-pressure phases of a Mnâ€“N system. Physical Chemistry Chemical Physics, 2022, 24, 1830-1839. | 2.8 | 5 |
| 17 | Enhanced van der Waals epitaxy via electron transfer enabled interfacial dative bond formation. Physical Review Materials, 2017, 1, . | 2.4 | 4 |
| 18 | Microscopic Origin for Electrically Benign Small-angle Grain Boundaries in Low-cost Semiconductors. Materials Research Letters, 2014, 2, 51-56. | 8.7 | 3 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Remote Passivation in Two-Dimensional Materials: The Case of the Monolayerâ€“Bilayer Lateral Junction of MoSe2. Journal of Physical Chemistry Letters, 2021, 12, 8046-8052. | 4.6 | 1 |
| 20 | Revised local atomic potential method for predicting properties of energetic materials. Journal of Energetic Materials, 0, , 1-17. | 2.0 | 0 |