Zhi-Rui Gong

List of Publications by Year
in descending order

22 papers	1,287 citations	933447 10 h-index	752698 20 g-index
23 all docs	23 docs citations	23 times ranked	2442 citing authors

#	Article	IF	Citations
1	Magnetic control of valley pseudospin in monolayer WSe2. Nature Physics, 2015, 11, 148-152.	16.7	720
2	Anomalously robust valley polarization and valley coherence in bilayer WS ₂. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 11606-11611.	7.1	245
3	Prediction of an extremely long exciton lifetime in a Janus-MoSTe monolayer. Nanoscale, 2018, 10, 19310-19315.	5.6	93
4	Robust type-II band alignment in Janus-MoSSe bilayer with extremely long carrier lifetime induced by the intrinsic electric field. Physical Review B, 2019, 99, .	3.2	63
5	Interface excitons at lateral heterojunctions in monolayer semiconductors. Physical Review B, 2018, 98, .	3.2	28
6	Linearly Polarized Luminescence of Atomically Thin MoS₂ Semiconductor Nanocrystals. ACS Nano, 2019, 13, 13006-13014.	14.6	24
7	Hexagonal layered group IVâ€“VI semiconductors and derivatives: fresh blood of the 2D family. Nanoscale, 2020, 12, 13450-13459.	5.6	20
8	Highly Tunable Electronic Structures of Phosphorene/Carbon Nanotube Heterostructures through External Electric Field and Atomic Intercalation. Nano Letters, 2017, 17, 7995-8004.	9.1	15
9	Topological optomechanical amplifier in synthetic PT $mathcal{PT}$ -symmetry. Nanophotonics, 2022, 11, 1149-1158.	6.0	15
10	Observation of intrinsic dark exciton in Janus-MoSSe heterosturcture induced by intrinsic electric field. Journal of Physics Condensed Matter, 2018, 30, 395001.	1.8	14
11	Unusual electronic and magnetic properties of lateral phosphoreneâ€“WSe2 heterostructures. Journal of Materials Chemistry C, 2016, 4, 6657-6665.	5.5	10
12	First-principles study on the electronic and transport properties of periodically nitrogen-doped graphene and carbon nanotube superlattices. Frontiers of Physics, 2017, 12, 1.	5.0	10
13	Size dependence in two-dimensional lateral heterostructures of transition metal dichalcogenides. Journal of Materials Chemistry C, 2019, 7, 3837-3842.	5.5	7
14	Modulating Blue Phosphorene by Synergetic Codoping: Indirect to Direct Gap Transition and Strong Bandgap Bowing. Advanced Functional Materials, 2019, 29, 1808721.	14.9	6
15	Electronic and Magnetic Diversity of Graphone/Graphene Superlattices. Chemistry of Materials, 2021, 33, 2090-2098.	6.7	5
16	Noise suppression for micromechanical resonator via intrinsic dynamic feedback. Frontiers of Physics in China, 2008, 3, 294-305.	1.0	3
17	Spontaneous decoherence of coupled harmonic oscillators confined in a ring. Science China: Physics, Mechanics and Astronomy, 2018, 61, 1.	5.1	3
18	Exciton Emissions in Bilayer WSe₂ Tuned by the Ferroelectric Polymer. Journal of Physical Chemistry Letters, 2022, 13, 1636-1643.	4.6	3

#	Article	IF	Citations
19	Quasi-one Dimensional Topological Insulator: MÃ¶bius Molecular Devices in Peierls Transition. Communications in Theoretical Physics, 2016, 66, 396-400.	2.5	2
20	Exact Solution for Non-Markovian Master Equation Using Hyper-operator Approach. Communications in Theoretical Physics, 2019, 71, 1089.	2.5	1
21	Strain-gated infrared photodetector based on helical graphene nanoribbon. Physical Review Materials, 2019, 3, .	2.4	0
22	High-Temperature-Induced Intervalley Carrier Transfer in Two-Dimensional Semiconductors: WSe2 versus WS2. Journal of Physical Chemistry C, 2021, 125, 23922-23928.	3.1	0