

# Liuyan Zhao

## List of Publications by Year in descending order

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32  
papers

2,735  
citations

430442

18  
h-index

433756

31  
g-index

35  
all docs

35  
docs citations

35  
times ranked

4849  
citing authors

#	ARTICLE	IF	CITATIONS
1	Visualizing Individual Nitrogen Dopants in Monolayer Graphene. <i>Science</i> , 2011, 333, 999-1003.	6.0	774
2	Connecting Dopant Bond Type with Electronic Structure in N-Doped Graphene. <i>Nano Letters</i> , 2012, 12, 4025-4031.	4.5	471
3	Evolution of interlayer and intralayer magnetism in three atomically thin chromium trihalides. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 11131-11136.	3.3	223
4	Local Atomic and Electronic Structure of Boron Chemical Doping in Monolayer Graphene. <i>Nano Letters</i> , 2013, 13, 4659-4665.	4.5	192
5	The Magnetic Genome of Two-Dimensional van der Waals Materials. <i>ACS Nano</i> , 2022, 16, 6960-7079.	7.3	149
6	Large Physisorption Strain in Chemical Vapor Deposition of Graphene on Copper Substrates. <i>Nano Letters</i> , 2012, 12, 2408-2413.	4.5	122
7	Raman fingerprint of two terahertz spin wave branches in a two-dimensional honeycomb Ising ferromagnet. <i>Nature Communications</i> , 2018, 9, 5122.	5.8	97
8	Segregation of Sublattice Domains in Nitrogen-Doped Graphene. <i>Journal of the American Chemical Society</i> , 2014, 136, 1391-1397.	6.6	86
9	Quantum Engineering With Hybrid Magnonic Systems and Materials (Invited Paper). <i>IEEE Transactions on Quantum Engineering</i> , 2021, 2, 1-36.	2.9	69
10	Twist engineering of the two-dimensional magnetism in double bilayer chromium triiodide homostructures. <i>Nature Physics</i> , 2022, 18, 30-36.	6.5	62
11	Interlayer Exciton Transport in MoSe <sub>2</sub> /WSe <sub>2</sub> Heterostructures. <i>ACS Nano</i> , 2021, 15, 1539-1547.	7.3	61
12	Observation of a ferro-rotational order coupled with second-order nonlinear optical fields. <i>Nature Physics</i> , 2020, 16, 42-46.	6.5	56
13	Atomistic Interrogation of N Co-dopant Structures and Their Electronic Effects in Graphene. <i>ACS Nano</i> , 2016, 10, 6574-6584.	7.3	53
14	Substrate Level Control of the Local Doping in Graphene. <i>Nano Letters</i> , 2013, 13, 1386-1392.	4.5	42
15	Magnetic-Field-Induced Quantum Phase Transitions in a van der Waals Magnet. <i>Physical Review X</i> , 2020, 10, .	2.8	41
16	Giant c-axis nonlinear anomalous Hall effect in Td-MoTe <sub>2</sub> and WTe <sub>2</sub> . <i>Nature Communications</i> , 2021, 12, 2049.	5.8	41
17	Structural investigation of the bilayer iridate Sr <sub>3</sub> O <sub>7</sub> . <i>Physical Review B</i> , 2016, 93, .	1.1	35
18	Observation of the polaronic character of excitons in a two-dimensional semiconducting magnet CrI <sub>3</sub> . <i>Nature Communications</i> , 2020, 11, 4780.	5.8	34

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19	Tunable layered-magnetism-assisted magneto-Raman effect in a two-dimensional magnet CrI <sub>3</sub> . Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 24664-24669.	3.3	20
20	Dopant Segregation in Polycrystalline Monolayer Graphene. Nano Letters, 2015, 15, 1428-1436.	4.5	19
21	Structural Monoclinicity and Its Coupling to Layered Magnetism in Few-Layer CrI <sub>3</sub> . ACS Nano, 2021, 15, 10444-10450.	7.3	14
22	Two-dimensional charge order stabilized in clean polytype heterostructures. Nature Communications, 2022, 13, 413.	5.8	14
23	High-Resolution In-Situ Synchrotron X-Ray Studies of Inorganic Perovskite CsPbBr <sub>3</sub> : New Symmetry Assignments and Structural Phase Transitions. Advanced Science, 2021, 8, e2003046.	5.6	9
24	Ultrafast Modulations and Detection of a Ferro-Rotational Charge Density Wave Using Time-Resolved Electric Quadrupole Second Harmonic Generation. Physical Review Letters, 2021, 127, 126401.	2.9	9
25	Observation of strong and anisotropic nonlinear optical effects through polarization-resolved optical spectroscopy in the type-II Weyl semimetal $Td$ . Physical Review B, 2021, 104, .	1.1	8
26	Symmetry-Resolved Two-Magnon Excitations in a Strong Spin-Orbit-Coupled Bilayer Antiferromagnet. Physical Review Letters, 2020, 125, 087202.	2.9	6
27	Modification of the G-phonon mode of graphene by nitrogen doping. Applied Physics Letters, 2016, 108, .	1.5	5
28	Second Harmonic Generation Spectroscopy of Hidden Phases. , 2018, , 207-226.		5
29	Polarized Raman spectroscopy study of metallic (Sr <sub>1-x</sub> La <sub>x</sub> ) <sub>3</sub> Ir <sub>2</sub> O <sub>7</sub> : A consistent picture of disorder-interrupted unidirectional charge order. Physical Review B, 2019, 99, .	1.1	5
30	Decoupling of static and dynamic criticality in a driven Mott insulator. Communications Physics, 2022, 5, .	2.0	5
31	Second-order nonlinear optical and linear ultraviolet-visible absorption properties of the type-II multiferroic candidates $RbFeMoO_4$ .		