

# Yong Wang

## List of Publications by Year in descending order

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34  
papers

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citations

687220

13  
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434063

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docs citations

34  
times ranked

1739  
citing authors

#	ARTICLE	IF	CITATIONS
1	Topological mosaics in moiré superlattices of van der Waals heterobilayers. <i>Nature Physics</i> , 2017, 13, 356-362.	6.5	205
2	Anomalous Light Cones and Valley Optical Selection Rules of Interlayer Excitons in Twisted Heterobilayers. <i>Physical Review Letters</i> , 2015, 115, 187002.	2.9	194
3	Interlayer coupling in commensurate and incommensurate bilayer structures of transition-metal dichalcogenides. <i>Physical Review B</i> , 2017, 95, .	1.1	128
4	Highly anisotropic excitons and multiple phonon bound states in a van der Waals antiferromagnetic insulator. <i>Nature Nanotechnology</i> , 2021, 16, 655-660.	15.6	72
5	Consistency in Formulation of Spin Current and Torque Associated with a Variance of Angular Momentum. <i>Physical Review Letters</i> , 2006, 96, 066601.	2.9	47
6	Time-dependent versus static quantum transport simulations beyond linear response. <i>Physical Review B</i> , 2011, 83, .	1.1	47
7	Toward 2D Magnets in the $(\text{MnBi}_2\text{Te}_4)(\text{Bi}_2\text{Te}_3)_n$ Bulk Crystal. <i>Advanced Materials</i> , 2020, 32, e2001815.	11.1	45
8	An efficient method for quantum transport simulations in the time domain. <i>Chemical Physics</i> , 2011, 391, 69-77.	0.9	31
9	Atomistic Simulations of Self-Trapped Exciton Formation in Silicon Nanostructures: The Transition from Quantum Dots to Nanowires. <i>Journal of Physical Chemistry C</i> , 2009, 113, 12935-12938.	1.5	25
10	Optical selection rules for excitonic Rydberg series in the massive Dirac cones of hexagonal two-dimensional materials. <i>Physical Review B</i> , 2017, 95, .	1.1	23
11	Time-reversal Aharonov-Casher effect in mesoscopic rings with spin-orbit interaction. <i>Physical Review B</i> , 2007, 76, .	1.1	19
12	Quantum dynamics of a nanomagnet driven by spin-polarized current. <i>Physical Review B</i> , 2012, 85, .	1.1	19
13	Band alignment of two-dimensional metal monochalcogenides MXs (M=Ga,In; X=S,Se,Te). <i>AIP Advances</i> , 2017, 7, .	0.6	19
14	Layer antiferromagnetic state in bilayer graphene: A first-principles investigation. <i>Physical Review B</i> , 2013, 87, .	1.1	13
15	Quantum approach of mesoscopic magnet dynamics with spin transfer torque. <i>Physical Review B</i> , 2013, 87, .	1.1	10
16	Self-Trapped Exciton and Large Stokes Shift in Pristine and Carbon-Coated Silicon Carbide Quantum Dots. <i>Journal of Physical Chemistry C</i> , 2017, 121, 20031-20038.	1.5	8
17	Driven dissipative quantum dynamics in a cavity magnon-polariton system. <i>Physical Review B</i> , 2021, 104, .	1.1	8
18	Skyrmion Hall effect with spatially modulated Dzyaloshinskii-Moriya interaction. <i>Frontiers of Physics</i> , 2019, 14, 1.	2.4	6

#	ARTICLE	IF	CITATIONS
19	Magnetostatics of magnetic skyrmion crystals. <i>New Journal of Physics</i> , 2018, 20, 063029.	1.2	5
20	Influence of quantum and thermal noise on spin-torque-driven magnetization switching. <i>Applied Physics Letters</i> , 2013, 103, 022403.	1.5	4
21	Monitoring mechanical motion of carbon nanotube based nanomotor by optical absorption spectrum. <i>Applied Physics Letters</i> , 2016, 109, .	1.5	4
22	Nonlinear optics in the electron-hole continuum in 2D semiconductors: two-photon transition, second harmonic generation and valley current injection. <i>Science Bulletin</i> , 2019, 64, 1036-1043.	4.3	4
23	Ab initio study on exchange integrals and magnetic anisotropy change of $\text{BaFe}_{12}\hat{x}\text{Sc}_x\text{O}_{19}$ ( $x=0, 0.5, 1$ ) <i>Tj ETQq1 1 0.784314 rg 3T</i>	1.0	4
24	Momentum-resolved electronic relaxation dynamics in d-wave superconductors. <i>Physical Review B</i> , 2014, 89, .	1.1	3
25	Magnetization dynamics driven by non-equilibrium spin-orbit coupled electron gas. <i>New Journal of Physics</i> , 2015, 17, 053012.	1.2	3
26	Coulomb effects on topological band inversion in the moiré of $\text{WSe}_2/\text{BAs}$ heterobilayer. <i>2D Materials</i> , 2019, 6, 045037.	2.0	3
27	Continuous nucleation dynamics of magnetic skyrmions in T-shaped chiral ferromagnetic nanojunction. <i>Journal of Magnetism and Magnetic Materials</i> , 2019, 489, 165372.	1.0	3
28	An Efficient Nonlinear Mass-Spring Model for Anatomical Virtual Reality. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2022, 71, 1-10.	2.4	3
29	Optimal control of stochastic magnetization dynamics by spin current. <i>Europhysics Letters</i> , 2013, 102, 47001.	0.7	2
30	Dynamics of the order parameter in a photoexcited Peierls chain. <i>Physical Review B</i> , 2014, 90, .	1.1	2
31	Control of ultracold atoms with a chiral ferromagnetic film. <i>Physical Review A</i> , 2019, 99, .	1.0	2
32	Skyrmion-based magnetic traps for ultracold atoms. <i>Physical Review A</i> , 2020, 101, .	1.0	2
33	Writing and erasing topological defects in charge density wave materials with femtosecond laser pulses. <i>Optics Letters</i> , 2019, 44, 2939.	1.7	1
34	Detecting current-induced quantum magnetization fluctuations with a spin-torque nano-oscillator. <i>Applied Physics Letters</i> , 2020, 116, 072406.	1.5	0