

# Yao Wang

## List of Publications by Year in descending order

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51  
papers

1,369  
citations

331259

21  
h-index

344852

36  
g-index

53  
all docs

53  
docs citations

53  
times ranked

1783  
citing authors

#	ARTICLE	IF	CITATIONS
1	Tailoring the nature and strength of electron-phonon interactions in the SrTiO <sub>3</sub> (001) 2D electron liquid. Nature Materials, 2016, 15, 835-839.	13.3	171
2	Bilayer Wigner crystals in a transition metal dichalcogenide heterostructure. Nature, 2021, 595, 48-52.	13.7	98
3	Nagaoka ferromagnetism observed in a quantum dot plaquette. Nature, 2020, 579, 528-533.	13.7	72
4	Anomalously strong near-neighbor attraction in doped 1D cuprate chains. Science, 2021, 373, 1235-1239.	6.0	62
5	Emergence of Interfacial Polarons from Electron-Phonon Coupling in Graphene/h-BN van der Waals Heterostructures. Nano Letters, 2018, 18, 1082-1087.	4.5	55
6	Directly Characterizing the Relative Strength and Momentum Dependence of Electron-Phonon Coupling Using Resonant Inelastic X-Ray Scattering. Physical Review X, 2016, 6, .	2.8	51
7	Machine learning on neutron and x-ray scattering and spectroscopies. Chemical Physics Reviews, 2021, 2, .	2.6	49
8	Using RIXS to Uncover Elementary Charge and Spin Excitations. Physical Review X, 2016, 6, .	2.8	48
9	Microscopic evolution of doped Mott insulators from polaronic metal to Fermi liquid. Science, 2021, 374, 82-86.	6.0	48
10	Dispersion, damping, and intensity of spin excitations in the monolayer $\text{Bi}_2\text{Te}_3$ . Physical Review B, 2018, 98, .		
11	Characterizing the three-orbital Hubbard model with determinant quantum Monte Carlo. Physical Review B, 2016, 93, .	1.1	42
12	Theoretical understanding of photon spectroscopies in correlated materials in and out of equilibrium. Nature Reviews Materials, 2018, 3, 312-323.	23.3	38
13	Probing light-driven quantum materials with ultrafast resonant inelastic X-ray scattering. Communications Physics, 2020, 3, .	2.0	37
14	Light-Enhanced Spin Fluctuations and $d$ -Wave Superconductivity at a Phase Boundary. Physical Review Letters, 2018, 120, 246402.	2.9	36
15	Phonon-Mediated Long-Range Attractive Interaction in One-Dimensional Cuprates. Physical Review Letters, 2021, 127, 197003.	2.9	34
16	Producing coherent excitations in pumped Mott antiferromagnetic insulators. Physical Review B, 2017, 96, .	1.1	33
17	Fermi surface reconstruction in electron-doped cuprates without antiferromagnetic long-range order. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 3449-3453.	3.3	32
18	Zero-temperature phases of the two-dimensional Hubbard-Holstein model: A non-Gaussian exact diagonalization study. Physical Review Research, 2020, 2, .	1.3	31

#	ARTICLE	IF	CITATIONS
19	Origin of strong dispersion in Hubbard insulators. <i>Physical Review B</i> , 2015, 92, .	1.1	27
20	Theory for time-resolved resonant inelastic x-ray scattering. <i>Physical Review B</i> , 2019, 99, .	1.1	23
21	Resonant inelastic x-ray scattering studies of magnons and bimagnons in the lightly doped cuprate <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>La</mml:mi><mml:mrow><mml:mn>2</mml:mn></mml:msub></mml:mrow></mml:math> <i>Physical Review B</i> , 2018, 97, .	1.1	22
22	Frustrated spin order and stripe fluctuations in FeSe. <i>Communications Physics</i> , 2019, 2, .	2.0	21
23	Revealing the Coulomb interaction strength in a cuprate superconductor. <i>Physical Review B</i> , 2017, 96, .	1.1	19
24	Using Nonequilibrium Dynamics to Probe Competing Orders in a Mott-Peierls System. <i>Physical Review Letters</i> , 2016, 116, 086401.	2.9	18
25	Higgs-Mediated Optical Amplification in a Nonequilibrium Superconductor. <i>Physical Review X</i> , 2021, 11, .	2.8	18
26	Gapless spin liquid and pair density wave of the Hubbard model on three-leg triangular cylinders. <i>New Journal of Physics</i> , 2021, 23, 123004.	1.2	17
27	Real-Space Visualization of Remnant Mott Gap and Magnon Excitations. <i>Physical Review Letters</i> , 2014, 112, 156402.	2.9	15
28	Paradeisos: A perfect hashing algorithm for many-body eigenvalue problems. <i>Computer Physics Communications</i> , 2018, 224, 81-89.	3.0	15
29	Numerically exploring the 1D-2D dimensional crossover on spin dynamics in the doped Hubbard model. <i>Physical Review B</i> , 2017, 96, .	1.1	14
30	Unconventional Hysteretic Transition in a Charge Density Wave. <i>Physical Review Letters</i> , 2022, 128, 036401.	2.9	14
31	Unconventional pairing symmetry of interacting Dirac fermions on a <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>Γ</mml:mi></mml:math>-flux lattice. <i>Physical Review B</i> , 2018, 97, .	1.1	13
32	Time-resolved resonant inelastic x-ray scattering in a pumped Mott insulator. <i>Physical Review B</i> , 2020, 101, .	1.1	13
33	<i>Ab initio</i> exact diagonalization simulation of the Nagaoka transition in quantum dots. <i>Physical Review B</i> , 2019, 100, .	1.1	12
34	Frustrated magnetism from local moments in FeSe. <i>Physical Review B</i> , 2019, 99, .	1.1	12
35	Ultrafast Renormalization of the On-Site Coulomb Repulsion in a Cuprate Superconductor. <i>Physical Review X</i> , 2022, 12, .	2.8	12
36	Theory of time-resolved Raman scattering in correlated systems: Ultrafast engineering of spin dynamics and detection of thermalization. <i>Physical Review B</i> , 2018, 98, .	1.1	11

#	ARTICLE	IF	CITATIONS
37	Dominant Fifth-Order Correlations in Doped Quantum Antiferromagnets. Physical Review Letters, 2021, 126, 026401.	2.9	11
38	Numerical investigation of spin excitations in a doped spin chain. Physical Review B, 2019, 99, .	1.1	10
39	Influence of magnetism and correlation on the spectral properties of doped Mott insulators. Physical Review B, 2018, 97, .	1.1	9
40	Fidelity study of superconductivity in extended Hubbard models. Physical Review B, 2015, 92, .	1.1	8
41	Observing photo-induced chiral edge states of graphene nanoribbons in pump-probe spectroscopies. Npj Quantum Materials, 2020, 5, .	1.8	8
42	Emergence of quasiparticles in a doped Mott insulator. Communications Physics, 2020, 3, .	2.0	8
43	Fluctuating Nature of Light-Enhanced $d$ -Wave Superconductivity: A Time-Dependent Variational Non-Gaussian Exact Diagonalization Study. Physical Review X, 2021, 11, .	2.8	7
44	X-ray scattering from light-driven spin fluctuations in a doped Mott insulator. Communications Physics, 2021, 4, .	2.0	6
45	Electronic nature of the pseudogap in electron-doped Sr2IrO4. Npj Quantum Materials, 2022, 7, .	1.8	6
46	Gas Phase Conformations of Tetrapeptide Glycine-Phenylalanine-Glycine-Glycine. Chinese Journal of Chemical Physics, 2012, 25, 77-85.	0.6	5
47	Magnon Splitting Induced by Charge Transfer in the Three-Orbital Hubbard Model. Physical Review Letters, 2018, 120, 246401.	2.9	5
48	Higher-order spin-hole correlations around a localized charge impurity. Physical Review Research, 2021, 3, .	1.3	5
49	Orbitally selective resonant photodoping to enhance superconductivity. Physical Review B, 2021, 104, .	1.1	3
50	Evolution of picosecond surface electric fields generated by photon-induced charge emission from $\text{La}_{0.67}\text{Sr}_{0.33}\text{MnO}_3$ films. Physical Review B, 2020, 102, .		
51	One-way express ticket to quantum criticality. Nature Materials, 2022, 21, 3-4.	13.3	0