

# Chunjing J Jia

## List of Publications by Year in descending order

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43  
papers

2,132  
citations

304743

22  
h-index

254184

43  
g-index

45  
all docs

45  
docs citations

45  
times ranked

3688  
citing authors

#	ARTICLE	IF	CITATIONS
1	Quantum spin Hall state in monolayer 1T'-WTe <sub>2</sub> . Nature Physics, 2017, 13, 683-687.	16.7	596
2	Electronic structure of the parent compound of superconducting infinite-layer nickelates. Nature Materials, 2020, 19, 381-385.	27.5	205
3	Femtosecond electron-phonon lock-in by photoemission and x-ray free-electron laser. Science, 2017, 357, 71-75.	12.6	177
4	Persistent spin excitations in doped antiferromagnets revealed by resonant inelastic light scattering. Nature Communications, 2014, 5, 3314.	12.8	120
5	Preserving a robust CsPbI <sub>3</sub> perovskite phase via pressure-directed octahedral tilt. Nature Communications, 2021, 12, 461.	12.8	90
6	Spectroscopic Signature of Oxidized Oxygen States in Peroxides. Journal of Physical Chemistry Letters, 2018, 9, 6378-6384.	4.6	80
7	Distinct Electronic Structure for the Extreme Magnetoresistance in YSb. Physical Review Letters, 2016, 117, 267201.	7.8	77
8	All-optical materials design of chiral edge modes in transition-metal dichalcogenides. Nature Communications, 2016, 7, 13074.	12.8	71
9	Electronic Structure Trends Across the Rare-Earth Series in Superconducting Infinite-Layer Nickelates. Physical Review X, 2021, 11, .	8.9	57
10	Using RIXS to Uncover Elementary Charge and Spin Excitations. Physical Review X, 2016, 6, .	8.9	48
11	Electronic structure of monolayer 1T'-MoTe <sub>2</sub> grown by molecular beam epitaxy. APL Materials, 2018, 6, .	5.1	44
12	Unraveling the Nature of Charge Excitations in $\text{La}_2\text{CuO}_4$ Momentum-Resolved Cu $K$ -Edge Resonant Inelastic X-Ray Scattering. Physical Review Letters, 2010, 105, 177401.	7.8	39
13	Theoretical understanding of photon spectroscopies in correlated materials in and out of equilibrium. Nature Reviews Materials, 2018, 3, 312-323.	48.7	38
14	Uncovering selective excitations using the resonant profile of indirect inelastic x-ray scattering in correlated materials: observing two-magnon scattering and relation to the dynamical structure factor. New Journal of Physics, 2012, 14, 113038.	2.9	32
15	Raman and fluorescence characteristics of resonant inelastic X-ray scattering from doped superconducting cuprates. Scientific Reports, 2016, 6, 19657.	3.3	32
16	Charge-orbital-lattice coupling effects in the $d^1$ profile of one-dimensional cuprates. Physical Review B, 2014, 89, .	8.1	31
17	Doping evolution of spin and charge excitations in the Hubbard model. Physical Review B, 2015, 92, .	3.2	30
18	Theory of Two-Magnon Raman Scattering in Iron Pnictides and Chalcogenides. Physical Review Letters, 2011, 106, 067002.	7.8	29

#	ARTICLE	IF	CITATIONS
19	Origin of strong dispersion in Hubbard insulators. Physical Review B, 2015, 92, .	3.2	27
20	Facile diamond synthesis from lower diamondoids. Science Advances, 2020, 6, eaay9405.	10.3	26
21	Doping evolution of the oxygen $K$ -edge x-ray absorption spectra of cuprate superconductors using a three-orbital Hubbard model. Physical Review B, 2013, 87, .	3.2	25
22	Theory for time-resolved resonant inelastic x-ray scattering. Physical Review B, 2019, 99, .	3.2	23
23	Resonant inelastic x-ray scattering studies of magnons and bimagnons in the lightly doped cuprate $\text{La}_{1-x}\text{Mg}_x\text{CuO}_2$ . Physical Review B, 2018, 97, .	3.2	22
24	Gauge invariance of light-matter interactions in first-principle tight-binding models. Physical Review B, 2021, 103, .	3.2	19
25	Using Nonequilibrium Dynamics to Probe Competing Orders in a Mott-Peierls System. Physical Review Letters, 2016, 116, 086401.	7.8	18
26	Spin and charge excitations in artificial hole- and electron-doped infinite layer cuprate superconductors. Physical Review B, 2017, 96, .	3.2	17
27	Fidelity study of the superconducting phase diagram in the two-dimensional single-band Hubbard model. Physical Review B, 2011, 84, .	3.2	16
28	Real-Space Visualization of Remnant Mott Gap and Magnon Excitations. Physical Review Letters, 2014, 112, 156402.	7.8	15
29	Paradisos: A perfect hashing algorithm for many-body eigenvalue problems. Computer Physics Communications, 2018, 224, 81-89.	7.5	15
30	Metallic surface states in a correlated d-electron topological Kondo insulator candidate FeSb <sub>2</sub> . Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 15409-15413.	7.1	15
31	Electronic structure of superconducting nickelates probed by resonant photoemission spectroscopy. Matter, 2022, 5, 1806-1815.	10.0	15
32	Numerically exploring the 1D-2D dimensional crossover on spin dynamics in the doped Hubbard model. Physical Review B, 2017, 96, .	3.2	14
33	Time-resolved resonant inelastic x-ray scattering in a pumped Mott insulator. Physical Review B, 2020, 101, .	3.2	13
34	Sitewise manipulations and Mott insulator-superfluid transition of interacting photons using superconducting circuit simulators. Physical Review B, 2015, 91, .	3.2	11
35	Anisotropy of the magnetic and transport properties of $\text{EuZn}_2$ . Physical Review B, 2022, 105, .	3.2	9
36	Fidelity study of superconductivity in extended Hubbard models. Physical Review B, 2015, 92, .	3.2	8

#	ARTICLE	IF	CITATIONS
37	Emergence of quasiparticles in a doped Mott insulator. Communications Physics, 2020, 3, .	5.3	8
38	Evolution of the electronic structure in $\text{Ta}_{2-x}\text{Nb}_x\text{O}_7$ across the structural transition revealed by resonant inelastic x-ray scattering. Physical Review B, 2021, 103, .	3.2	7
39	Pressure Effects on the $f$ -Electronic Structure of Light Lanthanides. Physical Review Letters, 2019, 122, 066401.	7.8	4
40	A Wannier orbital based method for resonant inelastic x-ray scattering simulation. Journal of Physics: Conference Series, 2019, 1290, 012014.	0.4	3
41	Web-based methods for X-ray and photoelectron spectroscopies. Computational Materials Science, 2021, 200, 110814.	3.0	3
42	Numerical studies of photon-based spectroscopies on high- $T_c$ superconductors. Computer Physics Communications, 2011, 182, 106-108.	7.5	2
43	On the Nature of Valence Charge and Spin Excitations via Multi-Orbital Hubbard Models for Infinite-Layer Nickelates. Frontiers in Physics, 2022, 10, .	2.1	1