

Brian B Zhou

List of Publications by Year in descending order

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16
papers

2,297
citations

623734

14
h-index

839539

18
g-index

18
all docs

18
docs citations

18
times ranked

3503
citing authors

#	ARTICLE	IF	CITATIONS
1	Layer Hall effect in a 2D topological axion antiferromagnet. <i>Nature</i> , 2021, 595, 521-525.	27.8	136
2	ac Susceptometry of 2D van der Waals Magnets Enabled by the Coherent Control of Quantum Sensors. <i>PRX Quantum</i> , 2021, 2, .	9.2	5
3	Spatiotemporal Mapping of a Photocurrent Vortex in Monolayer MoS_2 Using Diamond Quantum Sensors. <i>Physical Review X</i> , 2020, 10, .	8.9	15
4	Extreme diamond-based quantum sensors. <i>Science</i> , 2019, 366, 1312-1313.	12.6	23
5	Quantum technologies with optically interfaced solid-state spins. <i>Nature Photonics</i> , 2018, 12, 516-527.	31.4	581
6	Holonomic Quantum Control by Coherent Optical Excitation in Diamond. <i>Physical Review Letters</i> , 2017, 119, 140503.	7.8	123
7	Accelerated quantum control using superadiabatic dynamics in a solid-state lambda system. <i>Nature Physics</i> , 2017, 13, 330-334.	16.7	194
8	Imaging electronic states on topological semimetals using scanning tunneling microscopy. <i>New Journal of Physics</i> , 2016, 18, 105003.	2.9	23
9	Optical manipulation of the Berry phase in a solid-state spin qubit. <i>Nature Photonics</i> , 2016, 10, 184-189.	31.4	88
10	The Crystal and Electronic Structures of Cd_3As_2 , the Three-Dimensional Electronic Analogue of Graphene. <i>Inorganic Chemistry</i> , 2014, 53, 4062-4067.	4.0	193
11	Landau quantization and quasiparticle interference in the three-dimensional Dirac semimetal Cd_3As_2 . <i>Nature Materials</i> , 2014, 13, 851-856.	27.5	421
12	Visualizing Heavy Fermion Formation and their Unconventional Superconductivity in f -Electron Materials. <i>Journal of the Physical Society of Japan</i> , 2014, 83, 061008.	1.6	12
13	Visualizing nodal heavy fermion superconductivity in CeCoIn_5 . <i>Nature Physics</i> , 2013, 9, 474-479.	16.7	174
14	Design and performance of an ultra-high vacuum scanning tunneling microscope operating at dilution refrigerator temperatures and high magnetic fields. <i>Review of Scientific Instruments</i> , 2013, 84, 103903.	1.3	43
15	Visualizing Critical Correlations Near the Metal-Insulator Transition in GaMnAs . <i>Science</i> , 2010, 327, 665-669.	12.6	212
16	Isochronal synchrony and bidirectional communication with delay-coupled nonlinear oscillators. <i>Physical Review E</i> , 2007, 75, 026205.	2.1	50