Huimei Liu

List of Publications by Year in descending order

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Version: 2024-02-01

42 papers	2,993 citations	236925 25 h-index	345221 36 g-index
43 all docs	43 docs citations	43 times ranked	5219 citing authors

#	Article	IF	Citations
1	Kitaev materials: From <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi mathvariant="normal">Na</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:msub><mml:mi mathvariant="normal">IrO</mml:mi><mml:mn>3</mml:mn></mml:msub></mml:math> to <mml:math	3.2	2
2	Towards Kitaev spin liquid in 3d transition metal compounds. International Journal of Modern Physics B, 2021, 35, 2130006.	2.0	26
3	Proximate ferromagnetic state in the Kitaev model material Î±-RuCl3. Nature Communications, 2021, 12, 4512.	12.8	47
4	Kitaev Spin Liquid in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mn>3</mml:mn><mml:mi>d</mml:mi></mml:mrow></mml:math> Transition Metal Compounds. Physical Review Letters, 2020, 125, 047201.	7.8	107
5	Unique Crystal Structure of Ca2RuO4 in the Current Stabilized Semimetallic State. Physical Review Letters, 2019, 123, 137204.	7.8	31
6	Spin waves and spin-state transitions in a ruthenate high-temperature antiferromagnet. Nature Materials, 2019, 18, 563-567.	27.5	31
7	Pseudo-Jahn-Teller Effect and Magnetoelastic Coupling in Spin-Orbit Mott Insulators. Physical Review Letters, 2019, 122, 057203.	7.8	55
8	Pseudospin-lattice coupling in the spin-orbit Mott insulator <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Sr</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:mrow></mml:math> Physical Review B, 2019, 99, .	3.2	16
9	Pseudospin exchange interactions in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msup><mml:mi>d</mml:mi><mml:mn>7</mml:mn></mml:msup></mml:math> compounds: Possible realization of the Kitaev model. Physical Review B, 2018, 97, .	3.2	47
10	Temperature effect on lattice and electronic structures of WTe2 from first-principles study. Journal of Applied Physics, 2017, 121, .	2.5	11
11	Controlling thermal emission of phonon by magnetic metasurfaces. Scientific Reports, 2017, 7, 41858.	3.3	23
12	Carrier balance and linear magnetoresistance in type-II Weyl semimetal WTe2. Frontiers of Physics, 2017, 12, 1.	5.0	37
13	Highly efficient and ultrastable visible-light photocatalytic water splitting over ReS₂. Physical Chemistry Chemical Physics, 2016, 18, 14222-14227.	2.8	76
14	Gate-tunable negative longitudinal magnetoresistance in the predicted type-II Weyl semimetal WTe2. Nature Communications, 2016, 7, 13142.	12.8	215
15	La_{1â€“x}Bi_{1+x}S₃ (x â‰ˆ 0.08): An n-Type Semiconductor. Inorganic Chemistry, 2016, 55, 3547-3552.	4.0	7
16	Signature of Strong Spin-Orbital Coupling in the Large Nonsaturating Magnetoresistance Material<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>WTe</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:math>. Physical Review Letters, 2015, 115, 166601.	7.8	204
17	Pressure-driven dome-shaped superconductivity and electronic structural evolution in tungsten ditelluride. Nature Communications, 2015, 6, 7805.	12.8	324
18	Enhancement of polarizabilities of cylinders with cylinder-slab resonances. Scientific Reports, 2015, 5, 8189.	3.3	3

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19	Integrated digital inverters based on two-dimensional anisotropic ReS2 field-effect transistors. Nature Communications, 2015, 6, 6991.	12.8	505
20	Unexpected Magnetic Semiconductor Behavior in Zigzag Phosphorene Nanoribbons Driven by Half-Filled One Dimensional Band. Scientific Reports, 2015, 5, 8921.	3.3	88
21	Trapping light by mimicking gravitational lensing. Nature Photonics, 2013, 7, 902-906.	31.4	170
22	The two-photon interference mediated by the magnetic resonance in two-dimensional metamaterial. Quantum Information Processing, 2013, 12, 825-830.	2.2	0
23	Magnetic Plasmon Sensing in Twisted Split-Ring Resonators. Advances in OptoElectronics, 2012, 2012, 1-5.	0.6	0
24	Strong Light-Induced Negative Optical Pressure Arising from Kinetic Energy of Conduction Electrons in Plasmon-Type Cavities. Physical Review Letters, 2011, 106, 087401.	7.8	41
25	Spectral analysis of enhanced third harmonic generation from plasmonic excitations. Applied Physics Letters, 2011, 98, .	3.3	19
26	Selective optical trapping based on strong plasmonic coupling between gold nanorods and slab. Applied Physics Letters, 2011, 98, .	3.3	13
27	Sizable electromagnetic forces in parallel-plate metallic cavity. Physical Review B, 2011, 84, .	3.2	23
28	Cavity-involved plasmonic metamaterial for optical polarization conversion. Applied Physics Letters, 2010, 97, .	3.3	98
29	Optically pumped nanolaser based on two magnetic plasmon resonance modes. Applied Physics Letters, 2009, 94, .	3.3	37
30	Suppression of radiation loss by hybridization effect in two coupled split-ring resonators. Physical Review B, 2009, 80, .	3.2	45
31	Coupled magnetic plasmons in metamaterials. Physica Status Solidi (B): Basic Research, 2009, 246, 1397-1406.	1.5	84
32	Extraordinary optical transmission induced by excitation of a magnetic plasmon propagation mode in a diatomic chain of slit-hole resonators. Physical Review B, 2009, 79, .	3.2	53
33	Magnetic resonance hybridization and optical activity of microwaves in a chiral metamaterial. Applied Physics Letters, 2008, 92, .	3.3	89
34	Magnetic plasmon modes introduced by the coupling effect in metamaterials. , 2008, , .		2
35	Creation of a magnetic plasmon polariton through strong coupling between an artificial magnetic atom and the defect state in a defective multilayer microcavity. Physical Review B, 2008, 77, .	3.2	22
36	Magnetic plasmon resonances and optical activity. , 2007, , .		0

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37	Shapeâ€Selective Synthesis of Gold Nanoparticles with Controlled Sizes, Shapes, and Plasmon Resonances. Advanced Functional Materials, 2007, 17, 3295-3303.	14.9	118
38	Polyvinylpyrrolidoneâ€Directed Crystallization of ZnO with Tunable Morphology and Bandgap. Advanced Functional Materials, 2007, 17, 3897-3905.	14.9	162
39	Inside Front Cover: Polyvinylpyrrolidone-Directed Crystallization of ZnO with Tunable Morphology and Bandgap (Adv. Funct. Mater. 18/2007). Advanced Functional Materials, 2007, 17, NA-NA.	14.9	0
40	Numerical simulation of a new kind of metamaterial with negative refraction property. , 2006, , .		0
41	Influence of the layer thickness on the magnetic response in perforated metal/dielectric/metal trilayer metamaterial. , 2006, , .		0
42	Red, yellow, green and blue â€“ four-color light from a single, aperiodically poled LiTaO3 crystal. Applied Physics B: Lasers and Optics, 2004, 78, 265-267.	2.2	31