

Huimei Liu

List of Publications by Year in descending order

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42
papers

2,993
citations

236925

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345221

36
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43
all docs

43
docs citations

43
times ranked

5219
citing authors

#	ARTICLE	IF	CITATIONS
1	Integrated digital inverters based on two-dimensional anisotropic ReS ₂ field-effect transistors. Nature Communications, 2015, 6, 6991.	12.8	505
2	Pressure-driven dome-shaped superconductivity and electronic structural evolution in tungsten ditelluride. Nature Communications, 2015, 6, 7805.	12.8	324
3	Gate-tunable negative longitudinal magnetoresistance in the predicted type-II Weyl semimetal WTe ₂ . Nature Communications, 2016, 7, 13142.	12.8	215
4	Signature of Strong Spin-Orbital Coupling in the Large Nonsaturating Magnetoresistance Material WTe_2 . Physical Review Letters, 2015, 115, 166601.	7.8	204
5	Trapping light by mimicking gravitational lensing. Nature Photonics, 2013, 7, 902-906.	31.4	170
6	Polyvinylpyrrolidone-Directed Crystallization of ZnO with Tunable Morphology and Bandgap. Advanced Functional Materials, 2007, 17, 3897-3905.	14.9	162
7	Pseudospin exchange interactions in d_7 compounds: Possible realization of the Kitaev model. Physical Review B, 2018, 97, .	7.8	107
8	Shape-Selective Synthesis of Gold Nanoparticles with Controlled Sizes, Shapes, and Plasmon Resonances. Advanced Functional Materials, 2007, 17, 3295-3303.	14.9	118
9	Kitaev Spin Liquid in d_3 Transition Metal Compounds. Physical Review Letters, 2020, 125, 047201.	7.8	107
10	Cavity-involved plasmonic metamaterial for optical polarization conversion. Applied Physics Letters, 2010, 97, .	3.3	98
11	Magnetic resonance hybridization and optical activity of microwaves in a chiral metamaterial. Applied Physics Letters, 2008, 92, .	3.3	89
12	Unexpected Magnetic Semiconductor Behavior in Zigzag Phosphorene Nanoribbons Driven by Half-Filled One Dimensional Band. Scientific Reports, 2015, 5, 8921.	3.3	88
13	Coupled magnetic plasmons in metamaterials. Physica Status Solidi (B): Basic Research, 2009, 246, 1397-1406.	1.5	84
14	Highly efficient and ultrastable visible-light photocatalytic water splitting over ReS ₂ . Physical Chemistry Chemical Physics, 2016, 18, 14222-14227.	2.8	76
15	Pseudo-Jahn-Teller Effect and Magnetoelastic Coupling in Spin-Orbit Mott Insulators. Physical Review Letters, 2019, 122, 057203.	7.8	55
16	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
17	Proximate ferromagnetic state in the Kitaev model material \hat{I}_{\pm} -RuCl ₃ . Nature Communications, 2021, 12, 4512.	12.8	47
18	Pseudospin-lattice coupling in the spin-orbit Mott insulator $Sr_2Ru_1-xMxO_6$. Physical Review B, 2019, 99, .	7.8	46

#	ARTICLE	IF	CITATIONS
19	Suppression of radiation loss by hybridization effect in two coupled split-ring resonators. Physical Review B, 2009, 80, .	3.2	45
20	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
21	Optically pumped nanolaser based on two magnetic plasmon resonance modes. Applied Physics Letters, 2009, 94, .	3.3	37
22	Carrier balance and linear magnetoresistance in type-II Weyl semimetal WTe ₂ . Frontiers of Physics, 2017, 12, 1.	5.0	37
23	Red, yellow, green and blue " four-color light from a single, aperiodically poled LiTaO ₃ crystal. Applied Physics B: Lasers and Optics, 2004, 78, 265-267.	2.2	31
24	Unique Crystal Structure of Ca ₂ RuO ₄ in the Current Stabilized Semimetallic State. Physical Review Letters, 2019, 123, 137204.	7.8	31
25	Spin waves and spin-state transitions in a ruthenate high-temperature antiferromagnet. Nature Materials, 2019, 18, 563-567.	27.5	31
26	Towards Kitaev spin liquid in 3d transition metal compounds. International Journal of Modern Physics B, 2021, 35, 2130006.	2.0	26
27	Sizable electromagnetic forces in parallel-plate metallic cavity. Physical Review B, 2011, 84, .	3.2	23
28	Controlling thermal emission of phonon by magnetic metasurfaces. Scientific Reports, 2017, 7, 41858.	3.3	23
29	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
30	Spectral analysis of enhanced third harmonic generation from plasmonic excitations. Applied Physics Letters, 2011, 98, .	3.3	19
31	Selective optical trapping based on strong plasmonic coupling between gold nanorods and slab. Applied Physics Letters, 2011, 98, .	3.3	13
32	Temperature effect on lattice and electronic structures of WTe ₂ from first-principles study. Journal of Applied Physics, 2017, 121, .	2.5	11
33	La _{1-x} Bi _{1+x} S ₃ (x = 0.08): An n-Type Semiconductor. Inorganic Chemistry, 2016, 55, 3547-3552.	4.0	7
34	Enhancement of polarizabilities of cylinders with cylinder-slab resonances. Scientific Reports, 2015, 5, 8189.	3.3	3
35	Magnetic plasmon modes introduced by the coupling effect in metamaterials. , 2008, , . Exchange interactions in		2
36	Kitaev materials: From Na ₂ IrO ₃ to	3.2	2

#	ARTICLE	IF	CITATIONS
37	Numerical simulation of a new kind of metamaterial with negative refraction property. , 2006, , .		0
38	Influence of the layer thickness on the magnetic response in perforated metal/dielectric/metal trilayer metamaterial. , 2006, , .		0
39	Magnetic plasmon resonances and optical activity. , 2007, , .		0
40	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
41	Magnetic Plasmon Sensing in Twisted Split-Ring Resonators. Advances in OptoElectronics, 2012, 2012, 1-5.	0.6	0
42	The two-photon interference mediated by the magnetic resonance in two-dimensional metamaterial. Quantum Information Processing, 2013, 12, 825-830.	2.2	0