

Peng-Bin He

List of Publications by Year in descending order

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55
papers

1,495
citations

361296

20
h-index

315616

38
g-index

56
all docs

56
docs citations

56
times ranked

1575
citing authors

#	ARTICLE	IF	CITATIONS
1	Current-driven spiral domain wall in a ferrimagnet near the magnetization compensation point. <i>Physical Review Research</i> , 2022, 4, .	1.3	1
2	Transition of the Type of Band Alignments for All-Inorganic Perovskite van der Waals Heterostructures CsSnBr ₃ /WS ₂ (1 \times 1 \times 1)/Se ₂ X. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 3809-3818.	2.1	20
3	Interaction region of magnon-mediated spin torques and novel magnetic states*. <i>Chinese Physics B</i> , 2021, 30, 107506.	0.7	3
4	Theoretical study on the tunable electronic band structure of Cs ₂ PbI ₂ Cl ₂ /CsPbBr ₃ halide perovskite heterostructure driven by ferroelectric polarization modulation. <i>Journal of Colloid and Interface Science</i> , 2021, 597, 233-241. nd Electronic Properties of	5.0	14
5	nd Electronic Properties of $\langle \text{mml:math} \text{xmlns:mml=} \text{"http://www.w3.org/1998/Math/MathML"} \text{display=} \text{"inline"} \text{overflow=} \text{"scroll"} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mi} \rangle \text{Ga} \langle \text{mml:mi} \rangle \langle \text{mml:mi} \rangle \text{Se} \langle \text{mml:mi} \rangle \langle \text{mml:mo} \rangle \langle \text{mml:mi} \rangle \text{Sn} \langle \text{mml:mi} \rangle \langle \text{mml:mo} \rangle \langle \text{mml:mi} \rangle \text{X} \langle \text{mml:mi} \rangle \langle \text{mml:math} \text{xmlns:mml=} \text{"http://www.w3.org/1998/Math/MathML"} \text{display=} \text{"inline"} \rangle$		

#	ARTICLE	IF	CITATIONS
19	Formation mechanism of asymmetric breather and rogue waves in pair-transition-coupled nonlinear Schrödinger equations. Chinese Physics B, 2019, 28, 010504.	0.7	13
20	Motion and stability of chiral domain walls driven by non-gradient spin torques: Antiferromagnets and ferromagnets compared. Journal of Magnetism and Magnetic Materials, 2019, 479, 291-300.	1.0	3
21	Dzyaloshinskii-Moriya solitons in anisotropic ferromagnetic nanowires driven by magnetic field and spin-polarized current. Annals of Physics, 2018, 388, 390-397.	1.0	7
22	Dynamically Tunable Fano Resonance Based on Graphene Metamaterials. IEEE Photonics Technology Letters, 2018, 30, 2147-2150.	1.3	15
23	Domain wall dynamics in magnetic nanotubes driven by an external magnetic field. Chinese Physics B, 2018, 27, 077505.	0.7	6
24	Strong ferroelectric polarization of $\text{CH}_3\text{NH}_3\text{Ge}_3$ with high-absorption and mobility transport anisotropy: theoretical study. Journal of Materials Chemistry C, 2017, 5, 5356-5364.	2.7	101
25	Dynamics of chiral domain wall under the spin-orbit torques in heavy metal/ferromagnet bilayers with in-plane anisotropy. Journal of Magnetism and Magnetic Materials, 2017, 441, 691-695.	1.0	9
26	High performance photodetectors based on high quality InP nanowires. Chinese Physics B, 2016, 25, 118106.	0.7	9
27	Sustained chiral magnetic domain wall motion driven by spin-orbit torques under the tilted current. Europhysics Letters, 2016, 114, 67001.	0.7	11
28	Breathers and rogue waves excited by all-magnonic spin-transfer torque. Physical Review E, 2016, 94, 042220.	0.8	16
29	The stability of steady motion of magnetic domain wall: Role of higher-order spin-orbit torques. Journal of Applied Physics, 2015, 118, .	1.1	10
30	Current-induced magnetic soliton solutions in a perpendicular ferromagnetic anisotropy nanowire. Chinese Physics B, 2015, 24, 037508.	0.7	2
31	Dzyaloshinskii-Moriya domain wall resonance in ferromagnetic nanowires with a spin-transfer torque. Journal of Applied Physics, 2015, 117, 173906.	1.1	12
32	Dynamics of magnetization in ferromagnet with spin-transfer torque. Chinese Physics B, 2014, 23, 117502.	0.7	18
33	Gradient index plasmonic ring resonator with high extinction ratio. Optics Communications, 2014, 312, 280-283.	1.0	7
34	Stability analysis of current-driven domain wall in the presence of spin Hall effect. Journal of Applied Physics, 2013, 114, .	1.1	8
35	Low-Threshold Nanowire Laser Based on Composition-Symmetric Semiconductor Nanowires. Nano Letters, 2013, 13, 1251-1256.	4.5	67
36	Stability analysis of perpendicular magnetic trilayers with a field-like spin torque. Journal of Magnetism and Magnetic Materials, 2013, 327, 132-136.	1.0	4

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37	Current-driven domain wall dynamics in spin-valve nanostrips with parallel, perpendicular, and tilted polarizers. <i>European Physical Journal B</i> , 2013, 86, 1.	0.6	10
38	Dynamics of polaritons in semiconductor microcavities near instability thresholds. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2012, 376, 2151-2156.	0.9	0
39	Modulational instability and gap solitons in periodic ferromagnetic films. <i>European Physical Journal B</i> , 2012, 85, 1.	0.6	7
40	Nonautonomous helical motion of magnetization in ferromagnetic nanowire driven by spin-polarized current and magnetic field. <i>European Physical Journal B</i> , 2011, 84, 197-202.	0.6	3
41	Trap-state whispering-gallery mode lasing from high-quality tin-doped CdS whiskers. <i>Applied Physics Letters</i> , 2011, 99, .	1.5	26
42	Phase diagram of magnetic multilayers with tilted dual spin torques. <i>Journal of Applied Physics</i> , 2011, 109, .	1.1	19
43	Tilted spin torque-driven ferromagnetic resonance in a perpendicular-analyzer magnetic trilayer. <i>Journal of Magnetism and Magnetic Materials</i> , 2010, 322, 2264-2267.	1.0	11
44	Domain-wall solutions of spinor Bose-Einstein condensates in an optical lattice. <i>Physical Review A</i> , 2010, 81, .	1.0	30
45	Grey solitons and soliton interaction of higher nonlinear Schrödinger equation. <i>Canadian Journal of Physics</i> , 2010, 88, 9-14.	0.4	4
46	Broadband coherent emission observed in polycrystalline CdSSe nanowires under high excitation. <i>Journal of Physics Condensed Matter</i> , 2009, 21, 375302.	0.7	3
47	Current-driven ferromagnetic resonance in magnetic trilayers with a tilted spin polarizer. <i>Journal of Applied Physics</i> , 2009, 105, 043908.	1.1	17
48	Theory of ferromagnetic resonance in magnetic trilayers with a tilted spin polarizer. <i>Physical Review B</i> , 2008, 78, .	1.1	29
49	Magnetic quantum phase transition of cold atoms in an optical lattice. <i>Physical Review A</i> , 2007, 76, .	1.0	56
50	Fabrication and Red-Color Lasing of Individual Highly Uniform Single-Crystal CdSe Nanobelts. <i>Journal of Physical Chemistry C</i> , 2007, 111, 14253-14256.	1.5	33
51	Color-Changeable Optical Transport through Se-Doped CdS 1D Nanostructures. <i>Nano Letters</i> , 2007, 7, 2970-2975.	4.5	65
52	Interaction of a nonlinear spin-wave and magnetic soliton in a uniaxial anisotropic ferromagnet. <i>Annals of Physics</i> , 2007, 322, 2945-2957.	1.0	20
53	Domain-wall resonance induced by spin-polarized current in metal thin films with stripe structures. <i>Physical Review B</i> , 2005, 72, .	1.1	48
54	Magnetic soliton and soliton collisions of spinor Bose-Einstein condensates in an optical lattice. <i>Physical Review A</i> , 2005, 71, .	1.0	62

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55	Nonlinear magnetization dynamics in a ferromagnetic nanowire with spin current. Physical Review B, 2005, 72, .	1.1	86