

Zhe Yuan

List of Publications by Year in descending order

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Version: 2024-02-01

60
papers

2,738
citations

218677

26
h-index

175258

52
g-index

60
all docs

60
docs citations

60
times ranked

3834
citing authors

#	ARTICLE	IF	CITATIONS
1	Plasmonic Properties of Supported Pt and Pd Nanostructures. Nano Letters, 2006, 6, 833-838.	9.1	444
2	Stacking tunable interlayer magnetism in bilayer CrI_3 . Physical Review B, 2019, 99, .	10.3	217
3	Giant Room Temperature Interface Spin Hall and Inverse Spin Hall Effects. Physical Review Letters, 2016, 116, 196602.	7.8	181
4	Interface Enhancement of Gilbert Damping from First Principles. Physical Review Letters, 2014, 113, 207202.	7.8	168
5	End and Central Plasmon Resonances in Linear Atomic Chains. Physical Review Letters, 2007, 98, 216602.	7.8	157
6	Self-consistent determination of spin Hall angle and spin diffusion length in Pt and Pd: The role of the interface spin loss. Science Advances, 2018, 4, eaat1670.	10.3	157
7	Calculation of intrinsic spin Hall conductivity by Wannier interpolation. Physical Review B, 2018, 98, .	3.2	80
8	Room-temperature spin-orbit torque in NiMnSb. Nature Physics, 2016, 12, 855-860.	16.7	79
9	First-principles calculations of magnetization relaxation in pure Fe, Co, and Ni with frozen thermal lattice disorder. Physical Review B, 2011, 84, .	3.2	67
10	Integrated Plasmonics: Broadband Dirac Plasmons in Borophene. Physical Review Letters, 2020, 125, 116802.	7.8	67
11	Bulk Spin Torque-Driven Perpendicular Magnetization Switching in FePt Single Layer. Advanced Materials, 2020, 32, e2002607.	21.0	66
12	Direct method for calculating temperature-dependent transport properties. Physical Review B, 2015, 91, .	3.2	57
13	Disorder Dependence of Interface Spin Memory Loss. Physical Review Letters, 2020, 124, 087702.	7.8	57
14	Landau damping and lifetime oscillation of surface plasmons in metallic thin films studied in a jellium slab model. Surface Science, 2008, 602, 460-464.	1.9	54
15	A Spin-Orbit Torque Memristive Device. Advanced Electronic Materials, 2019, 5, 1800782.	5.1	51
16	Linear-response study of plasmon excitation in metallic thin films: Layer-dependent hybridization and dispersion. Physical Review B, 2006, 73, .	3.2	48
17	Calculating the transport properties of magnetic materials from first principles including thermal and alloy disorder, noncollinearity, and spin-orbit coupling. Physical Review B, 2018, 97, .	3.2	44
18	Anisotropic low-energy plasmon excitations in doped graphene: An ab initio study. Solid State Communications, 2011, 151, 1009-1013.	1.9	41

#	ARTICLE	IF	CITATIONS
37	3D multilevel spin transfer torque devices. Applied Physics Letters, 2018, 112, .	3.3	15
38	Symmetry-dependent screening of surface plasmons in ultrathin supported films: The case of Al/Si(111). Physical Review B, 2011, 83, .	3.2	14
39	Fingerprint of the inverse Rashba-Edelstein effect at heavy-metal/Cu interfaces. Physical Review B, 2020, 102, .	3.2	12
40	Strain-induced Anisotropic Terahertz Emission From a Fe Tj $\text{ETQq0 0 0 rgBT /Overlock 10 Tf 50 617 Td}$ (stretchy="false")		
41	Engineering Spiking Neurons Using Threshold Switching Devices for High-Efficient Neuromorphic Computing. Frontiers in Neuroscience, 2021, 15, 786694.	2.8	11
42	Isotropic non-local Gilbert damping driven by spin pumping in epitaxial Pd/Fe films on MgO(001) substrates. New Journal of Physics, 2019, 21, 103040.	2.9	10
43	Spin-Flip Diffusion Length in $5d$ Transition Metal Elements: A First-Principles Benchmark. Physical Review Letters, 2021, 126, 196601.	7.8	10
44	Recurrent neural networks made of magnetic tunnel junctions. AIP Advances, 2020, 10, .	1.3	10
45	Gilbert damping in FeCo alloy: From weak to strong spin disorder. Physical Review B, 2018, 98, .	3.2	9
46	Recent progress in antiferromagnetic dynamics. Europhysics Letters, 2020, 132, 57001.	2.0	9
47	Temperature dependence of the side-jump spin Hall conductivity. Physical Review B, 2019, 100, .	3.2	8
48	Tuning non-Gilbert-type damping in FeGa films on MgO(001) via oblique deposition. New Journal of Physics, 2019, 21, 123001.	2.9	8
49	Anisotropic spin relaxation induced by surface spin-orbit effects. Physical Review B, 2017, 96, .	3.2	7
50	Reduced interfacial magnetic moment of Y3Fe5O12 by capping Pt. Applied Physics Letters, 2018, 113, 182402.	3.3	7
51	Theory of chiral effects in magnetic textures with spin-orbit coupling. Physical Review B, 2018, 98, .	3.2	7
52	Spin transport at finite temperatures: A first-principles study for ferromagnetic interfaces. Physical Review B, 2021, 104, .	3.2	6
53	Spin accumulation and dissipation excited by an ultrafast laser pulse. Physical Review B, 2021, 104, .	3.2	6
54	Role of crystalline and damping anisotropy to the angular dependences of spin rectification effect in single crystal CoFe film. New Journal of Physics, 2020, 22, 093047.	2.9	5

#	ARTICLE	IF	CITATIONS
55	Memristors: A Spin-Orbit Torque Memristive Device (Adv. Electron. Mater. 4/2019). Advanced Electronic Materials, 2019, 5, 1970022.	5.1	4
56	Calculating the spin memory loss at Cu metal interfaces from first principles. Physical Review B, 2022, 106, .	3.2	4
57	In-Memory Mathematical Operations with Spin-Orbit Torque Devices. Advanced Science, 2022, 9, .	11.2	4
58	Noncollinearity-modulated Electronic Properties of Monolayer CrI ₃ . Physical Review Applied, 2019, 11, .	3.8	3
59	Anticipative Tracking with the Short-Term Synaptic Plasticity of Spintronic Devices. Physical Review Applied, 2020, 14, .	3.8	3
60	<p><mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mn>2</mml:mn><mml:mi>p</mml:mi></mml:mrow></mml:math></p> <p>-insulator heterointerfaces: Creation of half-metallicity and anionogenic ferromagnetism via double exchange. Physical Review B, 2018, 97, .</p>	3.2	2