

Jaivardhan Sinha

List of Publications by Year in descending order

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58

papers

2,618

citations

331670

21

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223800

46

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61

docs citations

61

times ranked

2689

citing authors

#	ARTICLE	IF	CITATIONS
1	Enhanced magnetisation with increased chromium concentration in FeCoCr _x Ni ₂ Al high-entropy alloy. Materials Science and Technology, 2022, 38, 12-18.	1.6	0
2	Magnetic Properties of Ultrathin As-deposited and Annealed Ta/CoFeB/TaO _x Heterostructures. IOP Conference Series: Materials Science and Engineering, 2022, 1219, 012007.	0.6	0
3	Mechanism of femtosecond laser induced ultrafast demagnetization in ultrathin film magnetic multilayers. Journal of Materials Science, 2022, 57, 6212-6222.	3.7	6
4	Effect of Ta capping layer on spin dynamics in Co50Fe50 thin films. Solid State Communications, 2022, 348-349, 114743.	1.9	1
5	The 2021 Magnonics Roadmap. Journal of Physics Condensed Matter, 2021, 33, 413001.	1.8	287
6	Controlled Domain-Wall Pair to Skyrmion Conversion in Typical Junction Geometry Useful for Magnetic Memory Devices. ECS Journal of Solid State Science and Technology, 2021, 10, 081002.	1.8	5
7	Anisotropic spin-wave propagation in asymmetric width modulated Ni80Fe20 nanostripes. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2021, 272, 115385.	3.5	8
8	X-ray photoelectron spectroscopy investigation of Ta/CoFeB/TaOx heterostructures. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2021, 272, 115367.	3.5	5
9	Dzyaloshinskii-Moriya Interaction induced hysteresis loop shift in perpendicularly magnetized triangular nanodot. Materials Letters, 2021, 303, 130492.	2.6	3
10	Influence of variation of tungsten layer thickness on interfacial Dzyaloshinskii-Moriya interaction in W/CoFeB/SiO ₂ heterostructures. Bulletin of Materials Science, 2021, 44, 1.	1.7	0
11	Observation of spectral narrowing and mode conversion in two-dimensional binary magnonic crystal. Journal of Magnetism and Magnetic Materials, 2020, 501, 166378.	2.3	2
12	Spin-texture driven reconfigurable magnonics in chains of connected $\text{Ni}_{80}\text{Fe}_{20}$ dots. Physical Review B, 2020, 101, .	3.2	12
13	Cost effective liquid phase exfoliation of MoS ₂ nanosheets and photocatalytic activity for wastewater treatment enforced by visible light. Scientific Reports, 2020, 10, 10759.	3.3	100
14	All-optical investigation of anisotropic spin pumping in W/CoFeB/W heterostructure. Journal of Magnetism and Magnetic Materials, 2020, 502, 166545.	2.3	3
15	Observation of angle-dependent mode conversion and mode hopping in 2D annular antidot lattice. Scientific Reports, 2019, 9, 12138.	3.3	4
16	All-optical detection of interfacial spin transparency from spin pumping in $\hat{\ell}^2\text{-Ta/CoFeB}$ thin films. Science Advances, 2019, 5, eaav7200.	10.3	60
17	Flipping anisotropy and changing magnetization reversal modes in nano-confined Cobalt structures. Journal of Magnetism and Magnetic Materials, 2019, 476, 412-416.	2.3	8
18	Effects of nanodots shape and lattice constants on the spin wave dynamics of patterned permalloy dots. AIP Advances, 2019, 9, .	1.3	1

#	ARTICLE	IF	CITATIONS
19	Spin Dynamics and Damping in Ferromagnetic Thin Films and Nanostructures. , 2018,,.	56	
20	All optical detection of picosecond spin-wave dynamics in 2D annular antidot lattice. Journal Physics D: Applied Physics, 2018, 51, 055004.	2.8	6
21	Magnetic Damping. , 2018,, 27-46.		1
22	Electrical and Optical Control of Spin Dynamics. , 2018,, 101-126.		0
23	Summary and Future Direction. , 2018,, 153-156.		0
24	Dependence of Interfacial Dzyaloshinskii-Moriya Interaction on Layer Thicknesses in $\text{Co}_{\text{m}}\text{Ta}_{\text{m}}\text{O}_{\text{m}}$ Heterostructures from Brillouin Light. Physical Review Applied, 2018, 9, .		
25	Experimental Techniques to Investigate Spin Dynamics. , 2018,, 47-82.		0
26	Relativistic torques induced by currents in magnetic materials: physics and experiments. RSC Advances, 2018, 8, 25079-25093.	3.6	3
27	Ultrafast magnetization dynamics in nanoscale two-dimensional Permalloy annular antidot lattices. , 2018,,.		0
28	Evidence of magneto-structural coupling affecting magnetic anisotropy in a cobalt nano-composite. Journal of Physics Condensed Matter, 2017, 29, 425804.	1.8	1
29	Extrinsic Spin-Orbit Coupling-Induced Large Modulation of Gilbert Damping Coefficient in CoFeB Thin Film on the Graphene Stack with Different Defect Density. Journal of Physical Chemistry C, 2017, 121, 17442-17449.	3.1	8
30	Pseudo-One-Dimensional Magnonic Crystals for High-Frequency Nanoscale Devices. Physical Review Applied, 2017, 8, .	3.8	26
31	All-optical detection of the spin Hall angle in $\text{Co}_{\text{m}}\text{Ta}_{\text{m}}\text{O}_{\text{m}}$ with varying thickness of the tungsten layer. Physical Review B, 2017, 96, .	3.2	47
32	Efficient terahertz anti-reflection properties of metallic anti-dot structures. Optics Letters, 2017, 42, 1764.	3.3	6
33	Direct Observation of Interfacial Dzyaloshinskii-Moriya Interaction from Asymmetric Spin-wave Propagation in W/CoFeB/SiO ₂ Heterostructures Down to Sub-nanometer CoFeB Thickness. Scientific Reports, 2016, 6, 32592.	3.3	67
34	Spin-Orbit Effects in CoFeB/MgO Heterostructures with Heavy Metal Underlayers. Spin, 2016, 06, 1640002.	1.3	6
35	Giant nonreciprocal emission of spin waves in Ta/Py bilayers. Science Advances, 2016, 2, e1501892.	10.3	41
36	Enhanced orbital magnetic moments in magnetic heterostructures with interface perpendicular magnetic anisotropy. Scientific Reports, 2015, 5, 14858.	3.3	33

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37	Tunable Magnetization Dynamics in Interfacially Modified Ni81Fe19/Pt Bilayer Thin Film Microstructures. <i>Scientific Reports</i> , 2015, 5, 17596.	3.3	39
38	Tunable spin wave properties in [Co/Ni80Fe20]rmultilayers with the number of bilayer repetition. <i>Journal Physics D: Applied Physics</i> , 2015, 48, 395001.	2.8	6
39	Improved magnetic damping in CoFeB MgO with an N-doped Ta underlayer investigated using the Brillouin light scattering technique. <i>RSC Advances</i> , 2015, 5, 57815-57819.	3.6	8
40	Current-driven asymmetric magnetization switching in perpendicularly magnetized CoFeB/MgO heterostructures. <i>Physical Review B</i> , 2015, 91, .	3.2	78
41	Influence of boron diffusion on the perpendicular magnetic anisotropy in Ta CoFeB MgO ultrathin films. <i>Journal of Applied Physics</i> , 2015, 117, .	2.5	74
42	Time-domain detection of current controlled magnetization damping in Pt/Ni81Fe19 bilayer and determination of Pt spin Hall angle. <i>Applied Physics Letters</i> , 2014, 105, .	3.3	29
43	Interface control of the magnetic chirality in CoFeB/MgO heterostructures with heavy-metal underlayers. <i>Nature Communications</i> , 2014, 5, 4655.	12.8	327
44	Linewidth Variation of the Higher Harmonics in Spin-Torque Vortex Oscillators. <i>IEEE Magnetics Letters</i> , 2014, 5, 1-4.	1.1	1
45	Anomalous temperature dependence of current-induced torques in$\text{CoFeB} \text{MgO}$ with Ta-based underlays. <i>Physical Review B</i> , 2014, 89, .	3.3	117
46	Enhanced interface perpendicular magnetic anisotropy in Ta CoFeB MgO using nitrogen doped Ta underlayers. <i>Applied Physics Letters</i> , 2013, 102, .	3.3	117
47	Layer thickness dependence of the current-induced effective field vector in Ta CoFeB MgO. <i>Nature Materials</i> , 2013, 12, 240-245.	27.5	835
48	Spatial control of magnetic anisotropy for current induced domain wall injection in perpendicularly magnetized CoFeB MgO nanostructures. <i>Applied Physics Letters</i> , 2012, 100, 192411.	3.3	16
49	Large amplitude microwave emission and reduced nonlinear phase noise in Co2Fe(Ge0.5Ga0.5) Heusler alloy based pseudo spin valve nanopillars. <i>Applied Physics Letters</i> , 2011, 99, .	3.3	28
50	Metastable magnetization response of the vortex state due to patterned blind hole pins. <i>Physica C: Superconductivity and Its Applications</i> , 2010, 470, S817-S818.	1.2	4
51	Evolution in the time series of vortex velocity fluctuations across different regimes of vortex flow. <i>Physica C: Superconductivity and Its Applications</i> , 2010, 470, S830-S831.	1.2	0
52	Driven weak to strong pinning crossover in a partially nanopatterned 2H-NbSe2single crystal. <i>Superconductor Science and Technology</i> , 2010, 23, 075002.	3.5	5
53	Large Low-Frequency Fluctuations in the Velocity of a Driven Vortex Lattice in a Single Crystal of 2H-NbSe2Superconductor. <i>Physical Review Letters</i> , 2009, 103, 167001.	7.8	25
54	A compact low temperature scanning tunneling microscope. <i>Journal of Physics: Conference Series</i> , 2009, 150, 012007.	0.4	0

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55	Mapping giant magnetic fields around dense solid plasmas by high-resolution magneto-optical microscopy. <i>Physical Review E</i> , 2008, 77, 046118.	2.1	9
56	Instabilities in the Vortex Matter and the Peak Effect Phenomenon. <i>Physical Review Letters</i> , 2007, 98, 027003.	7.8	31
57	Disorder-induced phase coexistence in bulk doped manganites and its suppression in nanometer-sized crystals: The case of La _{0.9} Ca _{0.1} MnO ₃ . <i>Physical Review B</i> , 2007, 76, .	3.2	57
58	Pinning regimes in the vortex solid and crossover between them in single crystals of 2H-NbSe ₂ . <i>Physica C: Superconductivity and Its Applications</i> , 2007, 460-462, 710-711.	1.2	0