Anjan Barman

List of Publications by Year
in descending order

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199 papers	4,349 citations	126907 33 h-index	168389 53 g-index
201 all docs	201 docs citations	201 times ranked	3399 citing authors

#	Article	IF	Citations
1	The 2021 Magnonics Roadmap. Journal of Physics Condensed Matter, 2021, 33, 413001.	1.8	287
2	Ultrafast magnetization dynamics in high perpendicular anisotropy [Coâ•Pt]n multilayers. Journal of Applied Physics, 2007, 101, 09D102.	2.5	131
3	Structural, optical and magnetic properties of solâ€“gel derived ZnO:Co diluted magnetic semiconductor nanocrystals: an EXAFS study. Journal of Materials Chemistry C, 2014, 2, 481-495.	5.5	116
4	Dynamics of Coupled Vortices in a Pair of Ferromagnetic Disks. Physical Review Letters, 2011, 106, 197203.	7.8	108
5	Numerical calculation of spin wave dispersions in magnetic nanostructures. Journal Physics D: Applied Physics, 2012, 45, 015001.	2.8	108
6	Grape extract assisted green synthesis of reduced graphene oxide for water treatment application. Materials Letters, 2015, 160, 355-358.	2.6	98
7	Magneto-Optical Observation of Picosecond Dynamics of Single Nanomagnets. Nano Letters, 2006, 6, 2939-2944.	9.1	85
8	Tunable Magnonic Spectra in Twoâ€Dimensional Magnonic Crystals with Variable Lattice Symmetry. Advanced Functional Materials, 2013, 23, 2378-2386.	14.9	76
9	Dielectric Relaxations of (Acetamide + Electrolyte) Deep Eutectic Solvents in the Frequency Window, 0.2 â‰¤ Î½/GHz â‰¤ 50: Anion and Cation Dependence. Journal of Physical Chemistry B, 2015, 119, 8063-8071.	2.6	74
10	Hopping transport in HCl doped conducting polyaniline. Physics Letters, Section A: General, Atomic and Solid State Physics, 1999, 260, 138-148.	2.1	71
11	Direct Observation of Interfacial Dzyaloshinskii-Moriya Interaction from Asymmetric Spin-wave Propagation in W/CoFeB/SiO2 Heterostructures Down to Sub-nanometer CoFeB Thickness. Scientific Reports, 2016, 6, 32592.	3.3	67
12	Evolution of damping in ferromagnetic/nonmagnetic thin film bilayers as a function of nonmagnetic layer thickness. Physical Review B, 2016, 93, .	3.2	66
13	Optically Induced Tunable Magnetization Dynamics in Nanoscale Co Antidot Lattices. ACS Nano, 2012, 6, 3397-3403.	14.6	63
14	Magnetization dynamics of nanoscale magnetic materials: A perspective. Journal of Applied Physics, 2020, 128, .	2.5	63
15	All-optical detection of interfacial spin transparency from spin pumping in Î²-Ta/CoFeB thin films. Science Advances, 2019, 5, eaav7200.	10.3	60
16	Spin Dynamics and Damping in Ferromagnetic Thin Films and Nanostructures. , 2018, , .		56
17	Detection of Picosecond Magnetization Dynamics of 50 nm Magnetic Dots down to the Single Dot Regime. ACS Nano, 2011, 5, 9559-9565.	14.6	55
18	Size dependent damping in picosecond dynamics of single nanomagnets. Applied Physics Letters, 2007, 90, 202504.	3.3	54

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19	EMI shielding and conductivity of carbon nanotube-polymer composites at terahertz frequency. Optics Letters, 2014, 39, 1541.	3.3	54
20	Dynamic dephasing of magnetization precession in arrays of thin magnetic elements. Physical Review B, 2009, 79, .	3.2	53
21	Anisotropy, damping, and coherence of magnetization dynamics in a 10 Î¼m square Ni81Fe19 element. Applied Physics Letters, 2003, 82, 3065-3067.	3.3	52
22	Transport properties of HCl doped polyaniline and polyanilineâ€“methyl cellulose dispersion. Journal of Applied Physics, 1998, 84, 806-811.	2.5	47
23	Magnonic Band Engineering by Intrinsic and Extrinsic Mirror Symmetry Breaking in Antidot Spin-Wave Waveguides. Scientific Reports, 2013, 3, 2444.	3.3	47
24	All-optical detection of the spin Hall angle in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi mathvariant="normal">W</mml:mi><mml:mo>/</mml:mo><mml:mi>CoFeB</mml:mi><mml:mo>/</mml:mo><mml:msub><mml:mi>SiO</mml:mi> with varying thickness of the tungsten layer. Physical Review B, 2017, 96, .	3.2	47
25	Magnonic band structure in a Co/Pd stripe domain system investigated by Brillouin light scattering and micromagnetic simulations. Physical Review B, 2017, 96, .	3.2	45
26	Gyration mode splitting in magnetostatically coupled magnetic vortices in an array. Journal Physics D: Applied Physics, 2010, 43, 422001.	2.8	44
27	Time-Domain Study of Magnetization Dynamics in Magnetic Thin Films and Micro- and Nanostructures. Solid State Physics, 2014, , 1-108.	0.5	41
28	Microphotonic control of single molecule fluorescence correlation spectroscopy using planar optofluidics. Optics Express, 2007, 15, 7290.	3.4	40
29	Tunable Magnetization Dynamics in Interfacially Modified Ni81Fe19/Pt Bilayer Thin Film Microstructures. Scientific Reports, 2015, 5, 17596.	3.3	39
30	Ultrafast magnetization dynamics in a nanoscale three-dimensional cobalt tetrapod structure. Nanoscale, 2018, 10, 9981-9986.	5.6	38
31	Dynamics of a PEG based non-ionic deep eutectic solvent: Temperature dependence. Fluid Phase Equilibria, 2017, 448, 22-29.	2.5	37
32	Effects of antidot shape on the spin wave spectra of two-dimensional Ni80Fe20 antidot lattices. Applied Physics Letters, 2013, 103, .	3.3	36
33	Dynamics of 1-D Chains of Magnetic Vortices in Response to Local and Global Excitations. IEEE Transactions on Magnetics, 2010, 46, 1342-1345.	2.1	34
34	Dielectric relaxation in acetamide + urea deep eutectics and neat molten urea: Origin of time scales via temperature dependent measurements and computer simulations. Journal of Chemical Physics, 2018, 149, 124501.	3.0	34
35	Optical ferromagnetic resonance studies of thin film magnetic structures. Journal Physics D: Applied Physics, 2003, 36, 2183-2192.	2.8	33
36	Shape- and Interface-Induced Control of Spin Dynamics of Two-Dimensional Bicomponent Magnonic Crystals. ACS Applied Materials & Interfaces, 2016, 8, 18339-18346.	8.0	33

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37	Hybrid Magnetodynamical Modes in a Single Magnetostrictive Nanomagnet on a Piezoelectric Substrate Arising from Magnetoelastic Modulation of Precessional Dynamics. ACS Applied Materials & Interfaces, 2018, 10, 43970-43977.	8.0	32
38	Voltage controlled on-demand magnonic nanochannels. Science Advances, 2020, 6, .	10.3	32
39	Electrical transport in paratoluene sulfonate doped polypyrrole films at low temperature. Journal of Applied Physics, 1998, 83, 4230-4235.	2.5	31
40	Precessional dynamics in microarrays of nanomagnets. Journal of Applied Physics, 2005, 97, 10A706.	2.5	31
41	Benchtop time-resolved magneto-optical Kerr magnetometer. Review of Scientific Instruments, 2008, 79, 123905.	1.3	31
42	Polarizing effect of aligned nanoparticles in terahertz frequency region. Optics Letters, 2013, 38, 2754.	3.3	31
43	Local control of magnetic damping in ferromagnetic/non-magnetic bilayers by interfacial intermixing induced by focused ion-beam irradiation. Applied Physics Letters, 2014, 104, .	3.3	30
44	Efficient Modulation of Spin Waves in Two-Dimensional Octagonal Magnonic Crystal. ACS Nano, 2017, 11, 8814-8821.	14.6	30
45	Time-domain detection of current controlled magnetization damping in Pt/Ni81Fe19 bilayer and determination of Pt spin Hall angle. Applied Physics Letters, 2014, 105, .	3.3	29
46	Dependence of Interfacial Dzyaloshinskii-Moriya Interaction on Layer Thicknesses in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi>Ta</mml:mi><mml:mo>/</mml:mo><mml:mi>Co</mml:mi><mml:mtext>â€“</mml:mtext><mml:mi mathvariant="normal">B</mml:mi><mml:mo>/</mml:mo><mml:msub><mml:mrow><mml:mi>TaO</mml:mi></mml:mrow><mml:mrow Heterostructures from Brillouin Light. Physical Review Applied, 2018, 9, .	3.8	29
47	Observation of Coherent Spin Waves in a Three-Dimensional Artificial Spin Ice Structure. Nano Letters, 2021, 21, 4629-4635.	9.1	29
48	AOPDF-shaped optical parametric amplifier output in the visible. Applied Physics B: Lasers and Optics, 2005, 81, 177-180.	2.2	28
49	Tunable configurational anisotropy in collective magnetization dynamics of Ni80Fe20 nanodot arrays with varying dot shapes. Journal of Applied Physics, 2015, 117, .	2.5	28
50	Magnetization Reversal in Chains and Clusters of Exchange-Coupled Nickel Nanoparticles. Journal of Physical Chemistry C, 2010, 114, 11115-11118.	3.1	27
51	Brillouin light scattering study of spin waves in NiFe/Co exchange spring bilayer films. Journal of Applied Physics, 2014, 115, .	2.5	27
52	Influence of structural changes in a periodic antidot waveguide on the spin-wave spectra. Physical Review B, 2014, 89, .	3.2	27
53	Tunable spin wave dynamics in two-dimensional Ni80Fe20 nanodot lattices by varying dot shape. Applied Physics Letters, 2014, 105, .	3.3	27
54	Optically induced spin wave dynamics in [Co/Pd]8 antidot lattices with perpendicular magnetic anisotropy. Applied Physics Letters, 2014, 105, .	3.3	26

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55	Pseudo-One-Dimensional Magnonic Crystals for High-Frequency Nanoscale Devices. Physical Review Applied, 2017, 8, .	3.8	26
56	All-optical investigation of tunable picosecond magnetization dynamics in ferromagnetic nanostripes with a width down to 50 nm. Nanoscale, 2015, 7, 18312-18319.	5.6	25
57	Laser Controlled Spin Dynamics of Ferromagnetic Thin Film from Femtosecond to Nanosecond Timescale. Physical Review Applied, 2018, 10, .	3.8	25
58	Magnetic straintronics: Manipulating the magnetization of magnetostrictive nanomagnets with strain for energy-efficient applications. Applied Physics Reviews, 2021, 8, .	11.3	25
59	Reliability of Magnetoelastic Switching of Nonideal Nanomagnets with Defects: A Case Study for the Viability of Straintronic Logic and Memory. Physical Review Applied, 2019, 12, .	3.8	24
60	Magnetocaloric properties of the La0.7â^'xYxSr0.3MnO3 giant magnetoresistance ceramics. Cryogenics, 1998, 38, 849-851.	1.7	23
61	Extreme Subwavelength Magnetoelastic Electromagnetic Antenna Implemented with Multiferroic Nanomagnets. Advanced Materials Technologies, 2020, 5, 2000316.	5.8	23
62	Thickness-dependent transport properties of Nd2/3Sr1/3MnO3 thin films. Applied Physics Letters, 2000, 77, 1674-1676.	3.3	22
63	Influence of thickness-dependent structural evolution on ultrafast magnetization dynamics in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi mathvariant="normal">C</mml:mi><mml:msub><mml:mi mathvariant="normal">o</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:mi mathvariant="normal">F</mml:mi><mml:msub><mml:mi mathvariant="normal">e</mml:mi><mml:mrow><mml:mn>0.4</mml:mn></mml:mrow></mml:msub><mml:mi	3.2	22
64	Observation of Skyrmions at Room Temperature in Co2FeAl Heusler Alloy Ultrathin Film Heterostructures. Scientific Reports, 2019, 9, 1085.	3.3	22
65	Direct observation of unusual interfacial Dzyaloshinskii-Moriya interaction in graphene/NiFe/Ta heterostructures. Physical Review B, 2019, 99, .	3.2	22
66	Effect of Sr-doping on multiferroic properties of Bi0.8La0.2Fe0.9Mn0.1O3. Solid State Communications, 2012, 152, 557-560.	1.9	21
67	Role of codoping on multiferroic properties at room temperature in BiFeO3 ceramic. Solid State Communications, 2013, 166, 22-26.	1.9	21
68	Collective hydration dynamics in some amino acid solutions: A combined GHz-THz spectroscopic study. Journal of Chemical Physics, 2017, 146, 125101.	3.0	21
69	Red Mud-Reduced Graphene Oxide Nanocomposites for the Electrochemical Sensing of Arsenic. ACS Applied Nano Materials, 2020, 3, 4084-4090.	5.0	21
70	MAGNETO-OPTICAL MEASUREMENTS OF COLLECTIVE SPIN DYNAMICS OF TWO-DIMENSIONAL ARRAYS OF FERROMAGNETIC NANOELEMENTS. Spin, 2013, 03, 1330001.	1.3	20
71	Configurational anisotropic spin waves in cross-shaped Ni80Fe20 nanoelements. Applied Physics Letters, 2013, 102, .	3.3	20
72	Role of the Cr Buffer Layer in the Thickness-Dependent Ultrafast Magnetization Dynamics of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi>Co</mml:mi></mml:mrow><mml:mn>2</mml:mn></mml:msub><mm Heusler Al. Physical Review Applied, 2017, 7, .	3.8	20

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73	Nonlinear ferromagnetic resonance shift and strong magnon-magnon coupling in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi mathvariant="normal">N</mml:mi><mml:msub><mml:mi mathvariant="normal">i</mml:mi><mml:mn>80</mml:mn></mml:msub><mml:mi mathvariant="normal">F</mml:mi><mml:msub><mml:mi mathvariant="normal">e</mml:mi><mml:mn>20</mml:mn></mml:msub></mml:mrow></mml:math> nano	3.2	20
74	Giant magnetoresistance in La0.8Sr0.2FexCo1â^'xO3 (0.025â©½Xâ©½0.3). Applied Physics Letters, 1997, 71, 3150-3152.	3.8	19
75	Electrical properties of La0.6Re0.1Ca0.3MnO3 (Re=Pr, Sm, Gd, Dy) at low temperature. Solid State Communications, 1998, 106, 691-694.	1.9	19
76	Low temperature magnetic and transport properties of LSMOâ€“PZT nanocomposites. RSC Advances, 2015, 5, 30748-30757.	3.6	19
77	Optimization of nano-magneto-optic sensitivity using dual dielectric layer enhancement. Applied Physics Letters, 2007, 90, 252504.	3.3	18
78	Control of magnonic spectra in cobalt nanohole arrays: the effects of density, symmetry and defects. Journal Physics D: Applied Physics, 2010, 43, 195002.	2.8	18
79	All-Optical Excitation and Detection of Picosecond Dynamics of Ordered Arrays of Nanomagnets with Varying Areal Density. Applied Physics Express, 2011, 4, 113003.	2.4	18
80	Structural Phase-Dependent Giant Interfacial Spin Transparency in W/CoFeB Thin-Film Heterostructures. ACS Applied Materials & Interfaces, 2021, 13, 20875-20884.	8.0	18
81	Controlled propagation of locally excited vortex dynamics in linear nanomagnet arrays. Journal Physics D: Applied Physics, 2010, 43, 335001.	2.8	17
82	Magnetization reversal dynamics in Co nanowires with competing magnetic anisotropies. Solid State Communications, 2011, 151, 1994-1998.	1.9	17
83	Controllable terahertz conductivity in single walled carbon nanotube/polymer composites. Journal of Applied Physics, 2015, 117, .	2.5	17
84	Magnetic Shape Anisotropy in Chemically Synthesized Chains of Nickel Nanoparticles. IEEE Transactions on Magnetics, 2011, 47, 2859-2862.	2.1	16
85	Electric field control of spin waves in ultrathin CoFeB films. Physical Review B, 2019, 100, .	3.2	16
86	Structural and magnetic properties of electrodeposited Cobalt nanowire arrays. Solid State Communications, 2009, 149, 1650-1653.	1.9	15
87	Magnetization reversal dynamics in clusters of single domain Ni nanoparticles. Journal of Applied Physics, 2010, 107, 09B513.	2.5	15
88	Tunable Angle-Dependent Magnetization Dynamics in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" overflow="scroll"><mml:msub><mml:mi>Ni</mml:mi><mml:mn>80</mml:mn></mml:msub><mml:msub><mml:mi>Fe</mml:mi><mml:mi><mml: Nanocross Structures of Varying Size. Physical Review Applied, 2018, 10, .	3.8	15
89	Spin Wave Electromagnetic Nanoâ€Antenna Enabled by Tripartite Phononâ€Magnonâ€Photon Coupling. Advanced Science, 2022, 9, e2104644.	11.2	15
90	Electrical transport properties of bulk La1â^'xBaxCoO3 at low temperature. Physics Letters, Section A: General, Atomic and Solid State Physics, 1997, 234, 384-390.	2.1	14

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91	Time-domain study of spin-wave dynamics in two-dimensional arrays of bi-component magnetic structures. Applied Physics Letters, 2013, 102, .	3.3	14
92	Effect of the spin-twist structure on the spin-wave dynamics in Fe55Pt45/Ni80Fe20 exchange coupled bi-layers with varying Ni80Fe20 thickness. Journal of Applied Physics, 2014, 115, 17D105.	2.5	14
93	Diameter-dependent shielding effectiveness and terahertz conductivity of multiwalled carbon nanotubes. Journal of the Optical Society of America B: Optical Physics, 2016, 33, 2430.	2.1	14
94	Impact of the aggregation behaviour of sodium cholate and sodium deoxycholate on aqueous solution structure and dynamics: A combined time resolved fluorescence and dielectric relaxation spectroscopic study. Journal of Molecular Liquids, 2016, 222, 495-502.	4.9	14
95	Active Control of Mode Crossover and Mode Hopping of Spin Waves in a Ferromagnetic Antidot Lattice. Physical Review Applied, 2018, 10, .	3.8	14
96	Large Dzyaloshinskii-Moriya interaction and atomic layer thickness dependence in a ferromagnet-<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mrow><mml:mi>WS</mml:mi></mml:mrow><mml:mn>2</m heterostructure. Physical Review B, 2022, 105, .	3.2	14
97	Fabrication of free-standing graphene oxide films using a facile approach toluene swollen paraffin peeling and green reduction of these films into highly conductive reduced graphene oxide films. Chemical Engineering Journal, 2018, 354, 149-161.	12.7	13
98	Resonant amplification of intrinsic magnon modes and generation of new extrinsic modes in a two-dimensional array of interacting multiferroic nanomagnets by surface acoustic waves. Nanoscale, 2021, 13, 10016-10023.	5.6	13
99	Dependence of anisotropy and damping on shape and aspect ratio in micron sized Ni81Fe19 elements. Journal of Applied Physics, 2004, 95, 6998-7000.	2.5	12
100	Transition from strongly collective to completely isolated ultrafast magnetization dynamics in two-dimensional hexagonal arrays of nanodots with varying inter-dot separation. RSC Advances, 2016, 6, 110393-110399.	3.6	12
101	Field-dependent spin waves in high-aspect-ratio single-crystal ferromagnetic nanowires. Nano Research, 2016, 9, 1426-1433.	10.4	12
102	Role of magnetic anisotropy in the ultrafast magnetization dynamics of Gd-Fe thin films of different thicknesses. Physical Review B, 2019, 100, .	3.2	12
103	Direct measurement of interfacial Dzyaloshinskiiâ€“Moriya interaction at the MoS2/Ni80Fe20 interface. Applied Physics Letters, 2020, 116, .	3.3	12
104	Spin-texture driven reconfigurable magnonics in chains of connected<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi mathvariant="normal">Ni</mml:mi><mml:mn>80</mml:mn></mml:msub><mml:msub><mml:mi mathvariant="normal">Fe</mml:mi><mml:mn>20</mml:mn></mml:msub></mml:mrow></mml:math>submicron dots. Physical Review B, 2020, 101, .	3.2	12
105	Ultrafast Spin Dynamics of Electrochemically Grown Heusler Alloy Films. Journal of Physical Chemistry C, 2021, 125, 10483-10492.	3.1	12
106	The study of defects, transport properties and dissipative flux motion in proton irradiated textured polycrystalline Bi2Sr2CaCu2O8+Î´ and Bi1.84Pb0.34Sr1.91Ca2.03Cu3.06O10+Î´ superconductors. Physica C: Superconductivity and Its Applications, 1998, 303, 108-114.	1.2	11
107	Characterization of spin valves fabricated on opaque substrates by optical ferromagnetic resonance. Applied Physics Letters, 2002, 81, 1468-1470.	3.3	11
108	All-optical study of tunable ultrafast spin dynamics in [Co/Pd]/NiFe systems: the role of spin-twist structure on Gilbert damping. RSC Advances, 2016, 6, 80168-80173.	3.6	11

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109	Enhanced Amplification and Fan-Out Operation in an All-Magnetic Transistor. Scientific Reports, 2016, 6, 33360.	3.3	11
110	Investigation of magnetization dynamics in 2D Ni₈₀Fe₂₀diatomic nanodot arrays. Journal Physics D: Applied Physics, 2017, 50, 385002.	2.8	11
111	Influence of anisotropic dipolar interaction on the spin dynamics of Ni 80 Fe 20 nanodot arrays arranged in honeycomb and octagonal lattices. Journal of Magnetism and Magnetic Materials, 2018, 458, 95-104.	2.3	11
112	Controlled coexcitation of direct and indirect ultrafast demagnetization in Co/Pd multilayers with large perpendicular magnetic anisotropy. Physical Review B, 2018, 98, .	3.2	11
113	Ultrafast demagnetization mechanism in half-metallic Heusler alloy thin films controlled by the Fermi level. Physical Review B, 2020, 101, .	3.2	11
114	Calculation of spin wave spectra in magnetic nanograins and patterned multilayers with perpendicular anisotropy. Journal of Applied Physics, 2011, 109, 113903.	2.5	10
115	Width dependent transition of quantized spin-wave modes in Ni80Fe20 square nanorings. Journal of Applied Physics, 2014, 116, 163912.	2.5	10
116	Fast and facile preparation of CTAB based gels and their applications in Au and Ag nanoparticles synthesis. Materials Chemistry and Physics, 2015, 156, 105-112.	4.0	10
117	Field-controlled ultrafast magnetization dynamics in two-dimensional nanoscale ferromagnetic antidot arrays. Beilstein Journal of Nanotechnology, 2018, 9, 1123-1134.	2.8	10
118	The influence of the internal domain wall structure on spin wave band structure in periodic magnetic stripe domain patterns. Solid State Physics, 2019, , 79-132.	0.5	10
119	The effect of material defects on resonant spin wave modes in a nanomagnet. Scientific Reports, 2019, 9, 16635.	3.3	10
120	Contrasting hydration dynamics in DME and DMSO aqueous solutions: A combined optical pump-probe and GHz-THz dielectric relaxation investigation. Journal of Molecular Liquids, 2019, 290, 111194.	4.9	10
121	Are water-xylitol mixtures heterogeneous? An investigation employing composition and temperature dependent dielectric relaxation and time-resolved fluorescence measurements. Journal of Chemical Sciences, 2019, 131, 1.	1.5	10
122	A study on the transport properties of Fe67Co18B14Si1 and Fe81B13.5Si3.5C2 metallic glass alloys at low temperatures. Solid State Communications, 2000, 113, 533-538.	1.9	9
123	Micromagnetic study of picosecond dephasing of spin waves in a square magnetic element. Journal of Applied Physics, 2007, 102, 053912.	2.5	9
124	Magnetization Reversal in Chemically Synthesized Hexagonal Cobalt Microplatelets. Journal of Physical Chemistry C, 2012, 116, 22057-22062.	3.1	9
125	Tunable picosecond spin dynamics in two dimensional ferromagnetic nanodot arrays with varying lattice symmetry. RSC Advances, 2015, 5, 34027-34031.	3.6	9
126	Observation of anisotropic energy transfer in magnetically coupled magnetic vortex pair. Applied Physics Letters, 2016, 108, .	3.3	9

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127	Perpendicular Standing Spin Wave and Magnetic Anisotropic Study on Amorphous FeTaC Films. IEEE Transactions on Magnetics, 2016, 52, 1-4.	2.1	9
128	Tunability of Domain Structure and Magnonic Spectra in Antidot Arrays of Heusler Alloy. Physical Review Applied, 2019, 12, .	3.8	9
129	Magnetic vortex transistor based tri-state buffer Switch. Journal of Magnetism and Magnetic Materials, 2020, 502, 166520.	2.3	9
130	Femtosecond laser-induced spin dynamics in single-layer graphene/CoFeB thin films. Nanoscale, 2021, 13, 13709-13718.	5.6	9
131	Observation of magnonâ€“magnon coupling with high cooperativity in Ni₈₀Fe₂₀ cross-shaped nanoring array. Nanotechnology, 2021, 32, 395706.	2.6	9
132	Applications of nanomagnets as dynamical systems: I. Nanotechnology, 2022, 33, 062007.	2.6	9
133	Improved magnetic damping in CoFeB|MgO with an N-doped Ta underlayer investigated using the Brillouin light scattering technique. RSC Advances, 2015, 5, 57815-57819.	3.6	8
134	Improvement of chemical ordering and magnetization dynamics of Coâ€“Feâ€“Alâ€“Si Heusler alloy thin films by changing adjacent layers. RSC Advances, 2016, 6, 77811-77817.	3.6	8
135	Extrinsic Spinâ€“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
136	Comparison of Spin-Wave Modes in Connected and Disconnected Artificial Spin Ice Nanostructures Using Brillouin Light Scattering Spectroscopy. ACS Nano, 2021, 15, 11734-11742.	14.6	8
137	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
138	Applications of nanomagnets as dynamical systems: II. Nanotechnology, 2022, 33, 082002.	2.6	8
139	Ultrafast dynamics and THz oscillation in [Co/Pd]8 multilayers. Solid State Communications, 2015, 221, 50-54.	1.9	7
140	Controlled evolution of spin waves in unconventional defective honeycomb antidot lattices. Journal of Magnetism and Magnetic Materials, 2019, 489, 165408.	2.3	7
141	Shape dependent high frequency spin-wave dynamics in nanoscale magnonic crystals. Journal of Magnetism and Magnetic Materials, 2019, 487, 165263.	2.3	7
142	Hydration dynamics in aqueous Pluronic P123 solution: Concentration and temperature dependence. Journal of Chemical Physics, 2019, 151, 184901.	3.0	7
143	Magnonic crystals with complex geometry. Physical Review B, 2021, 103, .	3.2	7
144	Optical Behaviour Of CdS Nanorods Dispersed In Liquid Crystal. Advanced Materials Letters, 2015, 6, 47-50.	0.6	7

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145	Temperature-Dependent Dielectric Relaxation in Ionic Acetamide Deep Eutectics: Partial Viscosity Decoupling and Explanations from the Simulated Single-Particle Reorientation Dynamics and Hydrogen-Bond Fluctuations. Journal of Physical Chemistry B, 2021, 125, 12552-12567.	2.6	7
146	Strain and crystallite size controlled ordering of Heusler nanoparticles having high heating rate for magneto-thermal application. Nanotechnology, 2022, 33, 235701.	2.6	7
147	Electrical resistivity and magnetoresistivity of protonic acid (h2SO4 and HCl)-doped polyaniline at low temperature. Journal of Applied Polymer Science, 2000, 75, 1480-1486.	2.6	6
148	Dependence of spatial coherence of coherent suppression of magnetization precession upon aspect ratio in Ni81Fe19 microdots. Journal of Applied Physics, 2005, 97, 10A710.	2.5	6
149	Tunable magnetic anisotropy in two-dimensional arrays of Ni80Fe20 elements. Applied Physics Letters, 2013, 103, .	3.3	6
150	Synthesis, Properties, and Applications of Single-Domain Magnetic Nanoparticles. Journal of Nanomaterials, 2013, 2013, 1-2.	2.7	6
151	Tunable spin wave properties in [Co/Ni80Fe20]rmultilayers with the number of bilayer repetition. Journal Physics D: Applied Physics, 2015, 48, 395001.	2.8	6
152	Ultrafast Magnetization Dynamics of Chemically Synthesized Ni Nanoparticles. Journal of Physical Chemistry C, 2015, 119, 17444-17449.	3.1	6
153	Efficient terahertz anti-reflection properties of metallic anti-dot structures. Optics Letters, 2017, 42, 1764.	3.3	6
154	All optical detection of picosecond spin-wave dynamics in 2D annular antidot lattice. Journal Physics D: Applied Physics, 2018, 51, 055004.	2.8	6
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