Jyoti Mohanty

List of Publications by Year
in descending order

80	1,692	430874	302126
papers	citations	18 h-index	39 g-index

81	81	81	2150
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Strain-mediated ferromagnetism and low-field magnetic reversal in Co doped monolayer $$WS_2$$. Scientific Reports, 2022, 12, 2593.	3.3	10
2	Modification of magnetic properties in Tbâ€“Fe/Gdâ€“Fe/Tbâ€“Fe trilayer using ion-beam irradiation. Applied Physics A: Materials Science and Processing, 2022, 128, 1.	2.3	2
3	Multilevel resistive switching in graphene oxide-multiferroic thin-film-based bilayer RRAM device by interfacial oxygen vacancy engineering. Applied Physics A: Materials Science and Processing, 2022, 128, 1.	2.3	6
4	Engineering perpendicular magnetic anisotropy in Tb-Fe-Co thin films using ion-beam irradiation. Journal of Alloys and Compounds, 2021, 861, 157953.	5.5	6
5	NÃ©el Skyrmionic States and Chiral Stripes in the Magnetic Bilayer with Transverse Easy Axis. Journal of Superconductivity and Novel Magnetism, 2021, 34, 951-958.	1.8	3
6	Role of film thickness and disorder in tuning perpendicular magnetic anisotropy in GdTb-FeCo alloy films. Physica Scripta, 2021, 96, 035803.	2.5	3
7	Forming-free resistive switching in ferroelectric Bi _{0.97} Y _{0.03} Fe _{0.95} Sc _{0.05} O ₃ film for RRAM application. Physica Scripta, 2021, 96, 045808.	2.5	3
8	Effect of Ti underlayer thickness on the magnetic anisotropy of TbFe thin films. Journal of Materials Science: Materials in Electronics, 2021, 32, 7567-7573.	2.2	2
9	Understanding thickness dependent magnetic properties of Tb-Fe thin films. Journal of Alloys and Compounds, 2021, 869, 159571.	5.5	10
10	Tunable multiferroic and forming-free bipolar resistive switching properties in multifunctional BiFeO3 film by doping engineering. Journal of Alloys and Compounds, 2021, 887, 161336.	5.5	13
11	Magnetic Direct-Write Skyrmion Nanolithography. ACS Nano, 2020, 14, 14960-14970.	14.6	17
12	Impact of Deposition Potential on Structural and Magnetic Properties of Nano-Crystalline CoFe Alloy Thin Films. Surface Engineering and Applied Electrochemistry, 2020, 56, 159-165.	0.8	4
13	Effects of magnetic field on resistive switching in multiferroic based Ag/BiFeO3/FTO RRAM device. Applied Physics Letters, 2020, 116, .	3.3	24
14	Facile Synthesis of Fluorescent Polymer Encapsulated Metal (PoeM) Nanoparticles for Imaging and Therapeutic Applications. ACS Applied Polymer Materials, 2020, 2, 1388-1397.	4.4	15
15	Simultaneous improvement of piezoelectric and magnetic properties in diamagnetic ion modified BiFeO3 film. Journal of Alloys and Compounds, 2019, 805, 1168-1174.	5.5	11
16	Investigation on the effect of Mn substitution on the structural, electrical and ferroelectric characteristics of Bi0.5Na0.5TiO3 ceramic. Materials Research Bulletin, 2019, 119, 110566.	5.2	19
17	Evidence for dielectric suppression in non-magnetic modified multiferroic bismuth ferrite. Journal of Applied Physics, 2019, 126, 184101.	2.5	7
18	Effect of Ti underlayer and substrate temperature on the magnetostrictive properties of Fe-Ga thin films: structural and magnetic microscopy studies. Materials Research Express, 2019, 6, 116120.	1.6	0

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19	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
20	Magnetic properties and oxygen migration induced resistive switching effect in Y substituted multiferroic bismuth ferrite. Physical Chemistry Chemical Physics, 2019, 21, 15854-15860.	2.8	36
21	Observation of magnetic domains in Gd-Fe thin films with complementary microscopy techniques. Journal of Magnetism and Magnetic Materials, 2019, 489, 165469.	2.3	8
22	Enhancement of magnetic and surface properties in magneto-pulse electrodeposited Fe-Pd alloy thin films at various deposition potentials. Materials Research Express, 2019, 6, 066110.	1.6	2
23	Magnetic anisotropy and magnetostrictive properties of sputtered Tbâ€“Dyâ€“Feâ€“Co thin films. Journal of Materials Science: Materials in Electronics, 2019, 30, 8989-8995.	2.2	2
24	Interfacial layer formation during high-temperature deposition of Sm-Co magnetic thin films on Si (100) substrates. Intermetallics, 2019, 106, 36-47.	3.9	7
25	Tunable magnetic domains and depth resolved microstructure in Gd-Fe thin films. Journal of Alloys and Compounds, 2019, 774, 1059-1068.	5.5	17
26	Superconductivity, Kondo effect, and observation of self-organized pattern formation in intermetallic NiBi 3 thin films. Intermetallics, 2018, 94, 160-164.	3.9	11
27	Tailoring magnetic domains in Gd-Fe thin films. AIP Advances, 2018, 8, 056327.	1.3	3
28	Magnetic domains in Tb-Fe-Co thin films under anisotropy tilt. Journal of Magnetism and Magnetic Materials, 2018, 452, 108-113.	2.3	10
29	Enhancing ferromagnetic properties in bismuth ferrites with non-magnetic Y and Sc co-doping. Journal of Materials Science: Materials in Electronics, 2018, 29, 5150-5156.	2.2	15
30	Spin reorientations in Tb-Fe films grown on polyimide substrates. Journal of Magnetism and Magnetic Materials, 2018, 448, 31-37.	2.3	10
31	Tuning magnetic microstructure in Gd-Fe thin films: Experiment and Simulation. Journal of Magnetism and Magnetic Materials, 2018, 448, 360-366.	2.3	16
32	Study on the domain structure and tunable spin orientation in L11-CoPt/NiFe exchange springs with Ta-spacer. Journal of Magnetism and Magnetic Materials, 2018, 448, 316-321.	2.3	1
33	Thickness Dependent Surface Topography, Magnetic Properties and Magnetic Domain Structure of Amorphous FeTaC Thin Films. Journal of Material Science & Engineering, 2018, 07, .	0.2	3
34	Magnetic and dielectric response in yttrium (Y)-manganese (Mn) substituted multiferroic Bi1â˜'xYxFe1â˜'yMnyO3 (x=y=;x=0.03,0.06,0.12,y=0.05) ceramics. Journal of Applied Physics, 2018, 124, .	2.5	18
35	Enhanced ferromagnetic properties in Nd and Gd co-doped BiFeO3 ceramics. AIP Conference Proceedings, 2018, , .	0.4	4
36	Influence of substrate temperature driven magnetic anisotropy on the magnetostrictive behavior of Tb Fe Co thin films. Journal of Magnetism and Magnetic Materials, 2018, 466, 333-340.	2.3	5

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37	Magnetic anisotropy studies in magnetostrictive Fe-Co thin films. AIP Conference Proceedings, 2018, , .	0.4	0
38	Enhanced interfacial Dzyaloshinskii-Moriya interaction and isolated skyrmions in the inversion-symmetry-broken Ru/Co/W/Ru films. Applied Physics Letters, 2018, 112, .	3.3	36
39	Interplay of magnetic anisotropies on the magnetostrictive behavior of Feâ€“Co thin films. Journal of Materials Science: Materials in Electronics, 2018, 29, 17714-17721.	2.2	4
40	Scalable magnetic skyrmions in nanostructures. Computational Materials Science, 2018, 154, 481-487.	3.0	13
41	Role of Ta-spacer layer on tuning the tilt angle magnetic anisotropy of L11-CoPt/Ta/NiFe exchange springs. Journal of Magnetism and Magnetic Materials, 2017, 432, 82-89.	2.3	12
42	Microscopic understanding of domain formation in Gd-Fe thin films. AIP Conference Proceedings, 2017, , .	0.4	6
43	Magnetic properties of electrodeposited FePd alloy thin films. AIP Conference Proceedings, 2017, , .	0.4	4
44	Magnetic anisotropy and microscopy studies in magnetostrictive Tb-(Fe,Co) thin films. Journal of Applied Physics, 2017, 122, .	2.5	16
45	Anisotropy Induced Switching Field Distribution in High-Density Patterned Media. Spin, 2017, 07, 1750005.	1.3	1
46	Effect of deposition temperature on structural, microstructural and magnetic properties of CoFe2O4 thin films deposited by pulsed laser deposition. Journal of Materials Science: Materials in Electronics, 2017, 28, 446-453.	2.2	15
47	Magnetic property of electrodeposited nano-crystalline CoFe thin films. AIP Conference Proceedings, 2016, , .	0.4	1
48	Magnetic domain and domain wall in Co/Pt multilayer. AIP Conference Proceedings, 2016, , .	0.4	4
49	Role of patterning induced defect on the switching field in magnetic nanostructure. Applied Physics A: Materials Science and Processing, 2016, 122, 1.	2.3	3
50	Laser induced local modification of magnetic domain in Co/Pt multilayer. Journal of Magnetism and Magnetic Materials, 2016, 418, 224-230.	2.3	20
51	Dynamics and inertia of skyrmionic spinÂstructures. Nature Physics, 2015, 11, 225-228.	16.7	304
52	X-ray-induced persistent photoconductivity in vanadium dioxide. Physical Review B, 2014, 90, .	3.2	16
53	Magnetic states in low-pinning high-anisotropy material nanostructures suitable for dynamic imaging. Physical Review B, 2013, 87, .	3.2	17
54	Direct observation of frozen moments in the NiFe/FeMn exchange bias system. New Journal of Physics, 2013, 15, 033016.	2.9	10

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55	Breakdown of the X-Ray Resonant Magnetic Scattering Signal during Intense Pulses of Extreme Ultraviolet Free-Electron-Laser Radiation. Physical Review Letters, 2013, 110, 234801.	7.8	37
56	Holographically aided iterative phase retrieval. Optics Express, 2012, 20, 29210.	3.4	19
57	Method for Single-Shot Coherent Diffractive Imaging of Magnetic Domains. Physical Review Letters, 2012, 108, 223902.	7.8	16
58	Collective pinning dynamics of charge-density waves in 1<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>T</mml:mi></mml:math>-TaS<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>2</mml:mn></mml:msub></mml:math>. Physical Review B, 2012, 86, .	3.2	20
59	Ultrafast optical demagnetization manipulates nanoscale spin structure in domain walls. Nature Communications, 2012, 3, 1100.	12.8	168
60	Magnetization reversal studies of continuous and patterned exchange biased NiFe/FeMn thin films. Applied Physics A: Materials Science and Processing, 2012, 109, 181-187.	2.3	8
61	Femtosecond Single-Shot Imaging of Nanoscale Ferromagnetic Order in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>Co</mml:mi><mml:mo>/</mml:mo><mml:mi>Pd</mml:mi></mml:math>Multilayers Using Resonant X-Ray Holography. Physical Review Letters, 2012, 108, 267403.	7.8	153
62	Formation of self-organized nanostructures on semi-insulating InP by 100keV Ar+-ion irradiation. Applied Surface Science, 2012, 258, 4139-4143.	6.1	7
63	Unusual pattern formation on Si(100) due to low energy ion bombardment. Applied Surface Science, 2012, 258, 9944-9948.	6.1	33
64	Dichroic coherent diffractive imaging. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 13393-13398.	7.1	103
65	Magnetization reversal in MnAs films: Magnetic force microscopy, SQUID magnetometry, and micromagnetic simulations. Physical Review B, 2006, 73, .	3.2	28
66	The nature of charged zig-zag domains in MnAs thin films. Journal of Magnetism and Magnetic Materials, 2006, 305, 457-463.	2.3	16
67	Investigation of magnetically coupled ferromagnetic stripe arrays. Applied Physics A: Materials Science and Processing, 2006, 84, 231-236.	2.3	12
68	Variable magnetic field and temperature magnetic force microscopy. Applied Physics A: Materials Science and Processing, 2005, 81, 1359-1362.	2.3	13
69	Tailoring of the structural and magnetic properties of MnAs films grown on GaAsâ€"Strain and annealing effects. Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena, 2005, 23, 1759.	1.6	37
70	Field dependence of micromagnetic domain patterns in MnAs films. Journal of Applied Physics, 2005, 98, 063909.	2.5	18
71	Selective etching of epitaxial MnAs films on GaAs(001): Influence of structure and strain. Journal of Applied Physics, 2005, 98, 013907.	2.5	2
72	A microscopic view on acoustomigration. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2005, 52, 1584-1593.	3.0	4

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73	Thickness dependence of the magnetic properties of MnAs films on GaAs(001) and GaAs(113)A: Role of a natural array of ferromagnetic stripes. Journal of Applied Physics, 2004, 96, 5056-5062.	2.5	42
74	Understanding the submicron domain structure of MnAs thin films on GaAs(001): Magnetic force microscopy measurements and simulations. Applied Physics Letters, 2004, 84, 1132-1134.	3.3	40
75	Semiautomatic wet chemical etching of an array of MnAs nanodots and their magnetic properties. Physica E: Low-Dimensional Systems and Nanostructures, 2004, 24, 115-118.	2.7	6
76	Variable-temperature micromagnetic study of epitaxially grown MnAs films on GaAs(001). Applied Physics A: Materials Science and Processing, 2003, 77, 739-742.	2.3	8
77	Temperature-dependent magnetic force microscopy investigation of epitaxial MnAs films on GaAs(001). Applied Physics Letters, 2003, 82, 2308-2310.	3.3	42
78	Magnetic out-of-plane component in MnAs/GaAs(001). Applied Physics Letters, 2003, 83, 2850-2852.	3.3	24
79	Effect of strain on the local phase transition temperature of MnAs/GaAs(001). Applied Physics Letters, 2003, 83, 2829-2831.	3.3	17
80	In-situ study of acoustomigration by scanning acoustic force microscopy. , 0, , .		2