

Rohit Medwal

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

57
papers

472
citations

13
h-index

19
g-index

68
ext. papers

630
ext. citations

4.9
avg, IF

4.03
L-index

#	Paper	IF	Citations
57	Self-Stabilized Carbon- L_{10} FePt Nanoparticles for Heated Dot Recording Media. <i>IEEE Magnetics Letters</i> , 2018 , 9, 1-5	1.6	75
56	Order-disorder investigation of hard magnetic nanostructured FePt alloy. <i>Journal Physics D: Applied Physics</i> , 2012 , 45, 055001	3	30
55	Enhanced phase stabilization of CoPt in the presence of Ag. <i>Journal of Applied Physics</i> , 2011 , 110, 033901	1.5	25
54	Generalized Brewster Angle Effect in Thin-Film Optical Absorbers and Its Application for Graphene Hydrogen Sensing. <i>ACS Photonics</i> , 2019 , 6, 1610-1617	6.3	24
53	Important role of magnetization precession angle measurement in inverse spin Hall effect induced by spin pumping. <i>Applied Physics Letters</i> , 2017 , 110, 022404	3.4	23
52	Graphene/semiconductor silicon modified BiFeO ₃ /indium tin oxide ferroelectric photovoltaic device for transparent self-powered windows. <i>Applied Physics Letters</i> , 2015 , 107, 062902	3.4	20
51	Tailoring oxygen sensing characteristics of Co ₃ O ₄ nanostructures through Gd doping. <i>Ceramics International</i> , 2020 , 46, 9498-9506	5.1	19
50	Volatile Ultrafast Switching at Multilevel Nonvolatile States of Phase Change Material for Active Flexible Terahertz Metadevices. <i>Advanced Functional Materials</i> , 2021 , 31, 2100200	15.6	19
49	Electronic states of self stabilized L ₁₀ FePt alloy nanoparticles. <i>Applied Physics A: Materials Science and Processing</i> , 2012 , 109, 403-408	2.6	18
48	Temperature dependent Raman scattering and electronic transitions in rare earth SmFeO ₃ . <i>Ceramics International</i> , 2018 , 44, 4198-4203	5.1	18
47	Temperature-dependent magnetic and structural ordering of self-assembled magnetic array of FePt nanoparticles. <i>Journal of Nanoparticle Research</i> , 2013 , 15, 1	2.3	15
46	Ultrafast Photo-Thermal Switching of Terahertz Spin Currents. <i>Advanced Functional Materials</i> , 2021 , 31, 2010453	15.6	14
45	Ag assisted evolution of ordered L ₁₀ CoPt alloy nanoparticles. <i>Journal of Alloys and Compounds</i> , 2012 , 522, 85-89	5.7	13
44	Electrically Tunable Singular Phase and Goos-Hänchen Shifts in Phase-Change-Material-Based Thin-Film Coatings as Optical Absorbers. <i>Advanced Materials</i> , 2021 , 33, e2006926	24	11
43	Nickel ferrite embedded polyvinylidene fluoride composite based flexible magneto-electric systems. <i>Ceramics International</i> , 2020 , 46, 25873-25880	5.1	9
42	Axonic Au Tips Induced Enhancement in Raman Spectra and Biomolecular Sensing. <i>Plasmonics</i> , 2015 , 10, 617-623	2.4	8
41	Pt diffusion driven L ₁₀ ordering in off-stoichiometric FePt thin films. <i>Journal of Magnetism and Magnetic Materials</i> , 2013 , 345, 60-64	2.8	8

40	Enhanced Spin Hall Effect in S-Implanted Pt. <i>Advanced Quantum Technologies</i> , 2021 , 4, 2000112	4.3	8
39	Spin Pumping in Asymmetric Fe ₅₀ Pt ₅₀ /Cu/Fe ₂₀ Ni ₈₀ Trilayer Structure. <i>Physica Status Solidi - Rapid Research Letters</i> , 2019 , 13, 1900267	2.5	7
38	Elimination of impurity phase formation in FePt magnetic thin films prepared by pulsed laser deposition. <i>Applied Surface Science</i> , 2014 , 288, 381-391	6.7	7
37	Effect of Pt layers on chemical ordering in FePt thin films. <i>Superlattices and Microstructures</i> , 2013 , 64, 408-417	2.8	7
36	Magnetoimpedance of Epitaxial YFeO (001) Thin Film in Low-Frequency Regime. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 41802-41809	9.5	7
35	Correlation of interlayer diffusion with the stoichiometric composition of RF sputtered Pt/Co/Pt sandwiched structures. <i>Journal of Materials Science</i> , 2013 , 48, 3192-3197	4.3	6
34	Phase investigation in Pt supported off-stoichiometric iron-platinum thin films. <i>Materials Research Bulletin</i> , 2013 , 48, 3881-3886	5.1	6
33	Remote plasma-assisted low-temperature large-area graphene synthesis. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2019 , 37, 041201	1.3	5
32	Coherent phonon modes in nanostructured zinc oxide synthesized by arc-exploding technique. <i>Materials Letters</i> , 2015 , 160, 183-185	3.3	5
31	Magnetic ground state and exchange interactions in the Ising chain ferromagnet CoNb ₂ O ₆ . <i>Physical Review B</i> , 2021 , 103,	3.3	5
30	Low-voltage-driven Pt/BiFeO ₃ /DyScO ₃ /p-Si-based metal/ferroelectric/insulator/semiconductor device for non-volatile memory. <i>Journal of Materials Science</i> , 2018 , 53, 4274-4282	4.3	5
29	Dense-plasma-driven ultrafast formation of FePt organization on silicon substrate. <i>Bulletin of Materials Science</i> , 2017 , 40, 233-238	1.7	4
28	Room temperature coercivity and interaction effects in L10FePt nanoparticles. <i>Journal Physics D: Applied Physics</i> , 2014 , 47, 355002	3	4
27	Processing temperature driven morphological evolution of ZnO nanostructures prepared by electro-exploding wire technique. <i>Materials Research Express</i> , 2014 , 1, 015045	1.7	4
26	Electrically Tunable All-PCM Visible Plasmonics. <i>Nano Letters</i> , 2021 , 21, 4044-4050	11.5	4
25	Highly dose dependent damping-like spin-orbit torque efficiency in O-implanted Pt. <i>Applied Physics Letters</i> , 2021 , 118, 252406	3.4	4
24	Effect of functionalization on positional ordering of 3 nm FePt nanoparticles: Langmuir-Blodgett monolayer. <i>Surface and Coatings Technology</i> , 2014 , 258, 509-514	4.4	3
23	Dynamic Color Generation with Electrically Tunable Thin Film Optical Coatings. <i>Nano Letters</i> , 2021 , 21, 10070-10075	11.5	3

22	Non-focusing dense plasma focus device based alternative synthesis technology for ZnO thin films. <i>Ceramics International</i> , 2020 , 46, 4690-4699	5.1	3
21	Broad-energy oxygen ion implantation controlled magnetization dynamics in CoFeTaZr. <i>Journal of Alloys and Compounds</i> , 2021 , 872, 159685	5.7	3
20	Nanostructured polycrystalline Ni ₃ S ₂ as electrode material for lithium ion batteries. <i>Materials Research Express</i> , 2020 , 7, 015517	1.7	2
19	Defects mediated diffusion in Pt/Co/Pt multilayers induced by dense electronic excitations. <i>Current Applied Physics</i> , 2014 , 14, 455-461	2.6	2
18	Determination of the Tricritical point, H-T phase diagram and Exchange Interactions in the Antiferromagnet MnTaO ₂ . <i>Journal of Physics Condensed Matter</i> , 2022 ,	1.8	2
17	Electro-Ionic Control of Surface Plasmons in Graphene-Layered Heterostructures. <i>Nano Letters</i> , 2020 , 20, 8305-8311	11.5	2
16	Plasma processed tungsten for fusion reactor first-wall material. <i>Journal of Materials Science</i> , 2021 , 56, 10494-10509	4.3	2
15	Thermal annealing and transient electronic excitations induced interfacial and magnetic effects on Pt/Co/Pt trilayer. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2018 , 420, 50-56	1.2	2
14	Magnetic field-temperature phase diagram, exchange constants and specific heat exponents of the antiferromagnet MnNbO ₂ . <i>Journal of Physics Condensed Matter</i> , 2021 , 33,	1.8	2
13	Challenges and Applications to and TEM Imaging and Spectroscopic Capabilities in a Cryogenic Temperature Range. <i>Accounts of Chemical Research</i> , 2021 ,	24.3	2
12	Spin-casted (Gd _{1-x} N) co-doped BiFeO ₃ thin films for sustainable oxide-electronics. <i>Materials Science in Semiconductor Processing</i> , 2021 , 132, 105902	4.3	2
11	Au ₂ NiO hybrid nanostructures prepared by electro-exploding wire technique: Raman signal enhancement and photoluminescence emission quenching. <i>Journal of Materials Science</i> , 2014 , 49, 8386-8393	4.3	1
10	Structural and magnetic transformation in electrochemically synthesized FePt thin films on Si/Pt electrodes 2014 ,		1
9	Nonstoichiometric FePt Nanoclusters for Heated Dot Magnetic Recording Media. <i>ACS Applied Nano Materials</i> , 2021 , 4, 7079-7085	5.6	1
8	Terahertz spintronic magnetometer (TSM). <i>Applied Physics Letters</i> , 2022 , 120, 161104	3.4	1
7	Spin Hall angle of rhodium and its effects on magnetic damping of Ni ₈₀ Fe ₂₀ in Rh/Ni ₈₀ Fe ₂₀ bilayer. <i>Journal of Magnetism and Magnetic Materials</i> , 2022 , 555, 169404	2.8	1
6	Facet controlled anisotropic magnons in Y ₃ Fe ₅ O ₁₂ thin films. <i>Applied Physics Letters</i> , 2021 , 119, 162403	3.4	0
5	Designed synthesis of Fe _x Co _{100-x} alloy nanoparticles by polyol reduction: An evolution of structural, morphological and magnetic properties. <i>IEEE Transactions on Magnetics</i> , 2022 , 1-1	2	0

- 4 Direct evidence of chemical ordering in the FePt nanostructured alloy by HR-TEM. *Superlattices and Microstructures*, **2015**, 83, 459-465 2.8
- 3 Effect of Light and Heat on Polymer-Based Resistive Random Access Memory. *Physica Status Solidi - Rapid Research Letters*, **2021**, 15, 2100050 2.5
- 2 High energy density pulsed argon plasma synthesized nanostructured tungsten for damage mitigation under fusion relevant energetic he ion irradiation. *Applied Surface Science Advances*, **2021**, 6, 100172 2.6
- 1 The role of epitaxial strain on the electronic and magnetic structure of La_{0.7}Sr_{0.3}MnO₃/LaCoO₃ bilayers. *AIP Advances*, **2021**, 11, 125115 1.5