

# Rohit Medwal

## List of Publications by Year in Descending Order

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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	Determination of the Tricritical point, H-T phase diagram and Exchange Interactions in the Antiferromagnet MnTaO <sub>2</sub> . <i>Journal of Physics Condensed Matter</i> , <b>2022</b> ,	1.8	2
56	Designed synthesis of Fe <sub>x</sub> Co <sub>100-x</sub> alloy nanoparticles by polyol reduction: An evolution of structural, morphological and magnetic properties. <i>IEEE Transactions on Magnetics</i> , <b>2022</b> , 1-1	2	0
55	Terahertz spintronic magnetometer (TSM). <i>Applied Physics Letters</i> , <b>2022</b> , 120, 161104	3.4	1
54	Spin Hall angle of rhodium and its effects on magnetic damping of Ni <sub>80</sub> Fe <sub>20</sub> in Rh/Ni <sub>80</sub> Fe <sub>20</sub> bilayer. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2022</b> , 555, 169404	2.8	1
53	Dynamic Color Generation with Electrically Tunable Thin Film Optical Coatings. <i>Nano Letters</i> , <b>2021</b> , 21, 10070-10075	11.5	3
52	Facet controlled anisotropic magnons in Y <sub>3</sub> Fe <sub>5</sub> O <sub>12</sub> thin films. <i>Applied Physics Letters</i> , <b>2021</b> , 119, 162403	3.4	0
51	Plasma processed tungsten for fusion reactor first-wall material. <i>Journal of Materials Science</i> , <b>2021</b> , 56, 10494-10509	4.3	2
50	Electrically Tunable All-PCM Visible Plasmonics. <i>Nano Letters</i> , <b>2021</b> , 21, 4044-4050	11.5	4
49	Effect of Light and Heat on Polymer-Based Resistive Random Access Memory. <i>Physica Status Solidi - Rapid Research Letters</i> , <b>2021</b> , 15, 2100050	2.5	
48	Highly dose dependent damping-like spin-orbit torque efficiency in O-implanted Pt. <i>Applied Physics Letters</i> , <b>2021</b> , 118, 252406	3.4	4
47	Nonstoichiometric FePt Nanoclusters for Heated Dot Magnetic Recording Media. <i>ACS Applied Nano Materials</i> , <b>2021</b> , 4, 7079-7085	5.6	1
46	Enhanced Spin Hall Effect in S-Implanted Pt. <i>Advanced Quantum Technologies</i> , <b>2021</b> , 4, 2000112	4.3	8
45	Volatile Ultrafast Switching at Multilevel Nonvolatile States of Phase Change Material for Active Flexible Terahertz Metadevices. <i>Advanced Functional Materials</i> , <b>2021</b> , 31, 2100200	15.6	19
44	Ultrafast Photo-Thermal Switching of Terahertz Spin Currents. <i>Advanced Functional Materials</i> , <b>2021</b> , 31, 2010453	15.6	14
43	Magnetic ground state and exchange interactions in the Ising chain ferromagnet CoNb <sub>2</sub> O <sub>6</sub> . <i>Physical Review B</i> , <b>2021</b> , 103,	3.3	5
42	Electrically Tunable Singular Phase and Goos-Hänchen Shifts in Phase-Change-Material-Based Thin-Film Coatings as Optical Absorbers. <i>Advanced Materials</i> , <b>2021</b> , 33, e2006926	24	11
41	Magnetic field-temperature phase diagram, exchange constants and specific heat exponents of the antiferromagnet MnNbO. <i>Journal of Physics Condensed Matter</i> , <b>2021</b> , 33,	1.8	2

40	Broad-energy oxygen ion implantation controlled magnetization dynamics in CoFeTaZr. <i>Journal of Alloys and Compounds</i> , <b>2021</b> , 872, 159685	5.7	3
39	Challenges and Applications to and TEM Imaging and Spectroscopic Capabilities in a Cryogenic Temperature Range. <i>Accounts of Chemical Research</i> , <b>2021</b> ,	24.3	2
38	Spin-casted (Gd $\bar{n}$ ) co-doped BiFeO <sub>3</sub> thin films for sustainable oxide-electronics. <i>Materials Science in Semiconductor Processing</i> , <b>2021</b> , 132, 105902	4.3	2
37	High energy density pulsed argon plasma synthesized nanostructured tungsten for damage mitigation under fusion relevant energetic he ion irradiation. <i>Applied Surface Science Advances</i> , <b>2021</b> , 6, 100172	2.6	
36	The role of epitaxial strain on the electronic and magnetic structure of La <sub>0.7</sub> Sr <sub>0.3</sub> MnO <sub>3</sub> /LaCoO <sub>3</sub> bilayers. <i>AIP Advances</i> , <b>2021</b> , 11, 125115	1.5	
35	Nanostructured polycrystalline Ni <sub>3</sub> S <sub>2</sub> as electrode material for lithium ion batteries. <i>Materials Research Express</i> , <b>2020</b> , 7, 015517	1.7	2
34	Non-focusing dense plasma focus device based alternative synthesis technology for ZnO thin films. <i>Ceramics International</i> , <b>2020</b> , 46, 4690-4699	5.1	3
33	Tailoring oxygen sensing characteristics of Co <sub>3</sub> O <sub>4</sub> nanostructures through Gd doping. <i>Ceramics International</i> , <b>2020</b> , 46, 9498-9506	5.1	19
32	Electro-Ionic Control of Surface Plasmons in Graphene-Layered Heterostructures. <i>Nano Letters</i> , <b>2020</b> , 20, 8305-8311	11.5	2
31	Nickel ferrite embedded polyvinylidene fluoride composite based flexible magneto-electric systems. <i>Ceramics International</i> , <b>2020</b> , 46, 25873-25880	5.1	9
30	Magnetoimpedance of Epitaxial YFeO (001) Thin Film in Low-Frequency Regime. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 41802-41809	9.5	7
29	Generalized Brewster Angle Effect in Thin-Film Optical Absorbers and Its Application for Graphene Hydrogen Sensing. <i>ACS Photonics</i> , <b>2019</b> , 6, 1610-1617	6.3	24
28	Remote plasma-assisted low-temperature large-area graphene synthesis. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , <b>2019</b> , 37, 041201	1.3	5
27	Spin Pumping in Asymmetric Fe <sub>50</sub> Pt <sub>50</sub> /Cu/Fe <sub>20</sub> Ni <sub>80</sub> Trilayer Structure. <i>Physica Status Solidi - Rapid Research Letters</i> , <b>2019</b> , 13, 1900267	2.5	7
26	Self-Stabilized Carbon- $\bar{L}_{10}$ FePt Nanoparticles for Heated Dot Recording Media. <i>IEEE Magnetics Letters</i> , <b>2018</b> , 9, 1-5	1.6	75
25	Low-voltage-driven Pt/BiFeO <sub>3</sub> /DyScO <sub>3</sub> /p-Si-based metal/ferroelectric/insulator/semiconductor device for non-volatile memory. <i>Journal of Materials Science</i> , <b>2018</b> , 53, 4274-4282	4.3	5
24	Temperature dependent Raman scattering and electronic transitions in rare earth SmFeO <sub>3</sub> . <i>Ceramics International</i> , <b>2018</b> , 44, 4198-4203	5.1	18
23	Thermal annealing and transient electronic excitations induced interfacial and magnetic effects on Pt/Co/Pt trilayer. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2018</b> , 420, 50-56	1.2	2

22	Important role of magnetization precession angle measurement in inverse spin Hall effect induced by spin pumping. <i>Applied Physics Letters</i> , <b>2017</b> , 110, 022404	3.4	23
21	Dense-plasma-driven ultrafast formation of FePt organization on silicon substrate. <i>Bulletin of Materials Science</i> , <b>2017</b> , 40, 233-238	1.7	4
20	Coherent phonon modes in nanostructured zinc oxide synthesized by arc-exploding technique. <i>Materials Letters</i> , <b>2015</b> , 160, 183-185	3.3	5
19	Direct evidence of chemical ordering in the FePt nanostructured alloy by HR-TEM. <i>Superlattices and Microstructures</i> , <b>2015</b> , 83, 459-465	2.8	
18	Graphene/semiconductor silicon modified BiFeO <sub>3</sub> /indium tin oxide ferroelectric photovoltaic device for transparent self-powered windows. <i>Applied Physics Letters</i> , <b>2015</b> , 107, 062902	3.4	20
17	Axonic Au Tips Induced Enhancement in Raman Spectra and Biomolecular Sensing. <i>Plasmonics</i> , <b>2015</b> , 10, 617-623	2.4	8
16	Effect of functionalization on positional ordering of 3 nm FePt nanoparticles: Langmuir-Blodgett monolayer. <i>Surface and Coatings Technology</i> , <b>2014</b> , 258, 509-514	4.4	3
15	Au/ZnO hybrid nanostructures prepared by electro-exploding wire technique: Raman signal enhancement and photoluminescence emission quenching. <i>Journal of Materials Science</i> , <b>2014</b> , 49, 8386-8393	4.3	1
14	Room temperature coercivity and interaction effects in L10FePt nanoparticles. <i>Journal Physics D: Applied Physics</i> , <b>2014</b> , 47, 355002	3	4
13	Elimination of impurity phase formation in FePt magnetic thin films prepared by pulsed laser deposition. <i>Applied Surface Science</i> , <b>2014</b> , 288, 381-391	6.7	7
12	Defects mediated diffusion in Pt/Co/Pt multilayers induced by dense electronic excitations. <i>Current Applied Physics</i> , <b>2014</b> , 14, 455-461	2.6	2
11	Processing temperature driven morphological evolution of ZnO nanostructures prepared by electro-exploding wire technique. <i>Materials Research Express</i> , <b>2014</b> , 1, 015045	1.7	4
10	Structural and magnetic transformation in electrochemically synthesized FePt thin films on Si/Pt electrodes <b>2014</b> ,		1
9	Correlation of interlayer diffusion with the stoichiometric composition of RF sputtered Pt/Co/Pt sandwiched structures. <i>Journal of Materials Science</i> , <b>2013</b> , 48, 3192-3197	4.3	6
8	Phase investigation in Pt supported off-stoichiometric iron-platinum thin films. <i>Materials Research Bulletin</i> , <b>2013</b> , 48, 3881-3886	5.1	6
7	Effect of Pt layers on chemical ordering in FePt thin films. <i>Superlattices and Microstructures</i> , <b>2013</b> , 64, 408-417	2.8	7
6	Temperature-dependent magnetic and structural ordering of self-assembled magnetic array of FePt nanoparticles. <i>Journal of Nanoparticle Research</i> , <b>2013</b> , 15, 1	2.3	15
5	Pt diffusion driven L10 ordering in off-stoichiometric FePt thin films. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2013</b> , 345, 60-64	2.8	8

4	Electronic states of self stabilized L10 FePt alloy nanoparticles. <i>Applied Physics A: Materials Science and Processing</i> , <b>2012</b> , 109, 403-408	2.6	18
3	Ag assisted evolution of ordered L10 CoPt alloy nanoparticles. <i>Journal of Alloys and Compounds</i> , <b>2012</b> , 522, 85-89	5.7	13
2	Order-disorder investigation of hard magnetic nanostructured FePt alloy. <i>Journal Physics D: Applied Physics</i> , <b>2012</b> , 45, 055001	3	30
1	Enhanced phase stabilization of CoPt in the presence of Ag. <i>Journal of Applied Physics</i> , <b>2011</b> , 110, 033901	1.5	25