

# Jeotikanta Mohapatra

## List of Publications by Year in descending order

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55  
papers

1,922  
citations

257450

24  
h-index

254184

43  
g-index

56  
all docs

56  
docs citations

56  
times ranked

3019  
citing authors

#	ARTICLE	IF	CITATIONS
1	Magnetic Nanoparticles: Synthesis, Anisotropy, and Applications. <i>Chemical Reviews</i> , 2023, 123, 3904-3943.	47.7	81
2	Coercivity limits in nanoscale ferromagnets. <i>Physical Review B</i> , 2022, 105, .	3.2	6
3	Magnetic-field-induced self-assembly of FeCo <sub>2</sub> O <sub>4</sub> core/shell nanoparticles with tunable collective magnetic properties. <i>Nanoscale</i> , 2021, 13, 4519-4529.	5.6	16
4	Exchange bias and Verwey transition in Fe <sub>5</sub> C <sub>2</sub> /Fe <sub>3</sub> O <sub>4</sub> core/shell nanoparticles. <i>Nanoscale</i> , 2021, 13, 15837-15843.	5.6	9
5	Magnetic and Mössbauer Effect Study of Ca-Sc Co-doped M-Type Strontium Hexaferrite. <i>Journal of Superconductivity and Novel Magnetism</i> , 2021, 34, 2551-2564.	1.8	7
6	Structural, morphological and magnetic properties of compositionally modulated CoNi nanowires. <i>Journal of Alloys and Compounds</i> , 2021, 864, 158123.	5.5	12
7	Ferromagnetism in 2D Fe <sub>2</sub> O <sub>3</sub> nanosheets. <i>Applied Physics Letters</i> , 2021, 118, .	3.3	15
8	Iron-based magnetic nanoparticles for multimodal hyperthermia heating. <i>Journal of Alloys and Compounds</i> , 2021, 871, 159475.	5.5	16
9	Extraordinary Magnetic Hardening in Nanowire Assemblies: the Geometry and Proximity Effects. <i>Advanced Functional Materials</i> , 2021, 31, 2010157.	14.9	23
10	Novel Molten Salt Assisted Autocombustion Method for the Synthesis of Aluminum-Doped SrFe <sub>12</sub> Al <sub>x</sub> O <sub>19</sub> Hexaferrite Nanoparticles. <i>Journal of Nanoscience and Nanotechnology</i> , 2020, 20, 7735-7742.	0.9	5
11	Enhancing the magnetic and inductive heating properties of Fe <sub>3</sub> O <sub>4</sub> nanoparticles via morphology control. <i>Nanotechnology</i> , 2020, 31, 275706.	2.6	35
12	Hard and semi-hard magnetic materials based on cobalt and cobalt alloys. <i>Journal of Alloys and Compounds</i> , 2020, 824, 153874.	5.5	61
13	Size-dependent magnetic hardening in CoFe <sub>2</sub> O <sub>4</sub> nanoparticles: effects of surface spin canting. <i>Journal Physics D: Applied Physics</i> , 2020, 53, 504004.	2.8	25
14	Cerium-based Co <sub>5</sub> ( <i>R</i> = Ce, La <sub>0.35</sub> Ce <sub>0.65</sub> , and) <i>Tj ETQq0 0 0 rgBT /Overlock 10 T</i> 091108.	5.1	4
15	Inductive Thermal Effect of Ferrite Magnetic Nanoparticles. <i>Materials</i> , 2019, 12, 3208.	2.9	76
16	Effects of packing density on the magnetic properties of cobalt nanowire assemblies. <i>AIP Advances</i> , 2019, 9, .	1.3	5
17	Influence of the Cu <sub>2</sub> ZnSnS <sub>4</sub> nanoparticles size on solar cell performance. <i>Solar Energy Materials and Solar Cells</i> , 2019, 189, 125-132.	6.2	31
18	Magnetic and hyperthermia properties of Co <sub>x</sub> Fe <sub>3-x</sub> O <sub>4</sub> nanoparticles synthesized via cation exchange. <i>AIP Advances</i> , 2018, 8, 056725.	1.3	19

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19	Magnetic properties of nickel carbide nanoparticles with enhanced coercivity. AIP Advances, 2018, 8, 056308.	1.3	7
20	Size-dependent magnetic and inductive heating properties of Fe <sub>3</sub> O <sub>4</sub> nanoparticles: scaling laws across the superparamagnetic size. Physical Chemistry Chemical Physics, 2018, 20, 12879-12887.	2.8	92
21	X-ray excited luminescence and persistent luminescence of Sr <sub>2</sub> MgSi <sub>2</sub> O <sub>7</sub> :Eu <sup>2+</sup> , Dy <sup>3+</sup> and their associations with synthesis conditions. Journal of Luminescence, 2018, 198, 132-137.	3.1	23
22	High-Temperature Magnetic Properties of Exchange-Coupled Sm-Co/Nd-Fe-B Hybrid Nanocomposite Magnets. IEEE Magnetics Letters, 2018, 9, 1-4.	1.1	11
23	Enzymatic and non-enzymatic electrochemical glucose sensor based on carbon nano-onions. Applied Surface Science, 2018, 442, 332-341.	6.1	93
24	Controlled synthesis and enhanced tunnelling magnetoresistance in oriented Fe <sub>3</sub> O <sub>4</sub> nanorod assemblies. Journal Physics D: Applied Physics, 2018, 51, 085002.	2.8	27
25	Complex Oxides Based on Silver, Bismuth, and Tungsten: Syntheses, Characterization, and Photoelectrochemical Behavior. Journal of Physical Chemistry C, 2018, 122, 13473-13480.	3.1	11
26	Photon induced non-linear quantized double layer charging in quaternary semiconducting quantum dots. Journal of Colloid and Interface Science, 2018, 514, 452-458.	9.4	6
27	Rare-Earth-Free Permanent Magnets: The Past and Future. Handbook of Magnetic Materials, 2018, 27, 1-57.	0.6	24
28	Exchange Coupling in Soft Magnetic Nanostructures and Its Direct Effect on Their Theranostic Properties. ACS Applied Materials & Interfaces, 2018, 10, 27233-27243.	8.0	26
29	Large T1 contrast enhancement using superparamagnetic nanoparticles in ultra-low field MRI. Scientific Reports, 2018, 8, 11863.	3.3	43
30	Coherent magnetization reversal and high magnetic coercivity in Co nanowire assemblies. Journal of Magnetism and Magnetic Materials, 2017, 438, 41-45.	2.3	29
31	Cleaning of magnetic nanoparticle surfaces via cold plasmas treatments. AIP Advances, 2017, 7, 056233.	1.3	5
32	Giant exchange bias and its angular dependence in Co/CoO core-shell nanowire assemblies. Physics Letters, Section A: General, Atomic and Solid State Physics, 2017, 381, 2092-2096.	2.1	22
33	Enhanced coercivity in Co-doped $\gamma$ -Fe <sub>2</sub> O <sub>3</sub> cubic nanocrystal assemblies prepared via a magnetic field-assisted hydrothermal synthesis. AIP Advances, 2017, 7, .	1.3	7
34	Porous Fe <sub>3</sub> O <sub>4</sub> -SiO <sub>2</sub> core-shell nanorods as high-performance MRI contrast agent and drug delivery vehicle. Journal of Magnetism and Magnetic Materials, 2017, 428, 340-347.	2.3	37
35	Engineering Magnetic and Tunneling Magnetoresistance Properties of Co <sub>x</sub> Fe <sub>3-2x</sub> O <sub>4</sub> Nanorods. Physica Status Solidi (A) Applications and Materials Science, 2017, 214, 1700505.	1.8	6
36	Visible light driven mesoporous Ag-embedded ZnO nanocomposites: reactive oxygen species enhanced photocatalysis, bacterial inhibition and photodynamic therapy. Dalton Transactions, 2017, 46, 685-696.	3.3	80

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37	Mesoporous iron oxide nanowires: synthesis, magnetic and photocatalytic properties. RSC Advances, 2016, 6, 90537-90546.	3.6	45
38	The exclusive response of LSPR in uncapped gold nanoparticles towards silver ions and gold chloride ions. RSC Advances, 2016, 6, 109192-109200.	3.6	6
39	Cation/Anion Substitution in Cu <sub>2</sub> ZnSnS <sub>4</sub> for Improved Photovoltaic Performance. Scientific Reports, 2016, 6, 35369.	3.3	83
40	Large tunneling magnetoresistance in octahedral Fe <sub>3</sub> O <sub>4</sub> nanoparticles. AIP Advances, 2016, 6, .	1.3	26
41	Efficient synthesis of rice based graphene quantum dots and their fluorescent properties. RSC Advances, 2016, 6, 23518-23524.	3.6	68
42	A pH-responsive folate conjugated magnetic nanoparticle for targeted chemo-thermal therapy and MRI diagnosis. Dalton Transactions, 2016, 45, 2454-2461.	3.3	39
43	Superspin glass behavior of self-interacting CoFe <sub>2</sub> O <sub>4</sub> nanoparticles. Journal of Alloys and Compounds, 2015, 628, 416-423.	5.5	64
44	Enhancement of magnetic heating efficiency in size controlled MFe <sub>2</sub> O <sub>4</sub> (M = ) Tj ETQq0 0,0 rgBT /Overlock 10	3.6	33
45	Iron oxide nanorods as high-performance magnetic resonance imaging contrast agents. Nanoscale, 2015, 7, 9174-9184.	5.6	203
46	Octahedral-Shaped Fe <sub>3</sub> O <sub>4</sub> Nanoparticles With Enhanced Specific Absorption Rate and $\chi''$ Relaxivity. IEEE Transactions on Magnetics, 2015, 51, 1-3.	2.1	22
47	Interaction of graphene quantum dots with bulk semiconductor surfaces. AIP Conference Proceedings, 2015, , .	0.4	0
48	Verwey Transition in Ultrasmall-Sized Octahedral Fe <sub>3</sub> O <sub>4</sub> Nanoparticles. Journal of Physical Chemistry C, 2014, 118, 19356-19362.	3.1	159
49	Electrochemical capacitive properties of Mn <sub>3</sub> O <sub>4</sub> nanoparticles and reduced graphene oxide composite. , 2013, , .		0
50	Defect-related blue emission from ultra-fine Zn <sup>1-x</sup> Cd <sup>x</sup> S quantum dots synthesized by simple beaker chemistry. International Nano Letters, 2013, 3, 1.	5.0	10
51	Tuning the Observability of Surface Plasmon in Silica <sup>â€</sup> Gold Raspberry Shaped Nanoparticles Using Cuprous Oxide Shell. ACS Applied Materials & Interfaces, 2013, 5, 12268-12274.	8.0	4
52	Surface controlled synthesis of MFe <sub>2</sub> O <sub>4</sub> (M = Mn, Fe, Co, Ni and Zn) nanoparticles and their magnetic characteristics. CrystEngComm, 2013, 15, 524-532.	2.6	159
53	Surface controlled magnetic properties of Fe <sub>3</sub> O <sub>4</sub> nanoparticles. AIP Conference Proceedings, 2013, , .	0.4	4
54	Electrochemical capacitance properties of Mn <sub>3</sub> O <sub>4</sub> nanoparticles via energy efficient thermolysis. , 2013, , .		0

#	ARTICLE	IF	CITATIONS
55	Morphology controlled synthesis of ZnO nanostructures through a mild-thermal decomposition. , 2013, , .		1