

# Soumyaditya Sutradhar

## List of Publications by Year in descending order

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28  
papers

736  
citations

471371

17  
h-index

526166

27  
g-index

29  
all docs

29  
docs citations

29  
times ranked

604  
citing authors

#	ARTICLE	IF	CITATIONS
1	Effect of Gd doping concentration and sintering temperature on structural, optical, dielectric and magnetic properties of hydrothermally synthesized ZnO nanostructure. <i>Journal of Alloys and Compounds</i> , 2017, 708, 231-246.	2.8	65
2	Effect of Gd 3+ and Al 3+ on optical and dielectric properties of ZnO nanoparticle prepared by two-step hydrothermal method. <i>Ceramics International</i> , 2017, 43, 6932-6941.	2.3	51
3	Tailoring of room temperature ferromagnetism and electrical properties in ZnO by Co (3d) and Gd (4f) element co-doping. <i>Journal of Alloys and Compounds</i> , 2017, 691, 739-749.	2.8	49
4	Shielding Effectiveness Study of Barium Hexaferrite-Incorporated, $\hat{I}^2$ -Phase-Improved Poly(vinylidene) Tj ETQqO 0 0 rgBT /Overlock 10 Tf Applied Materials & Interfaces, 2019, 11, 23701-23713.	4.0	49
5	Magnetic and enhanced microwave absorption properties of nanoparticles of $\text{Li}_0.32\text{Zn}_0.26\text{Cu}_0.1\text{Fe}_2.32\text{O}_4$ encapsulated in carbon nanotubes. <i>Materials Letters</i> , 2013, 95, 145-148.	1.3	44
6	Sol-gel derived nanoparticles of Zn substituted lithium ferrite ( $\text{Li}_0.32\text{Zn}_0.36\text{Fe}_2.32\text{O}_4$ ): magnetic and Mössbauer effect measurements and their theoretical analysis. <i>Journal of Magnetism and Magnetic Materials</i> , 2012, 324, 1317-1325.	1.0	39
7	Modulated magnetic property, enhanced microwave absorption and Mössbauer spectroscopy of $\text{Ni}_0.40\text{Zn}_0.40\text{Cu}_0.20\text{Fe}_2\text{O}_4$ nanoparticles embedded in carbon nanotubes. <i>Journal of Alloys and Compounds</i> , 2013, 576, 126-133.	2.8	39
8	Vacancy mediated room temperature ferromagnetism in Co-doped $\text{Dy}_2\text{O}_3$ . <i>Applied Physics Letters</i> , 2012, 100, .	1.5	34
9	Optical, magnetic and dielectric properties of ZnO:Y nanoparticles synthesized by hydrothermal method. <i>Journal of Alloys and Compounds</i> , 2017, 696, 670-681.	2.8	34
10	Hydrothermal process assists undoped and Cr-doped semiconducting ZnO nanorods: Frontier of dielectric property. <i>Journal of Applied Physics</i> , 2018, 123, .	1.1	34
11	$\hat{I}^2$ -Phase improved Mn-Zn-Cu-ferrite-PVDF nanocomposite film: A metamaterial for enhanced microwave absorption. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2019, 245, 17-29.	1.7	34
12	Defect induced room-temperature ferromagnetism and enhanced dielectric property in nanocrystalline ZnO co-doped with Tb and Co. <i>Journal of Alloys and Compounds</i> , 2018, 731, 591-599.	2.8	30
13	Sol-gel derived nanocrystalline multiferroic $\text{BiFeO}_3$ and $\text{R}_3\text{+}$ (R=Er and Tm) doped therein: Magnetic phase transitions and enhancement of magnetic properties. <i>Journal of Magnetism and Magnetic Materials</i> , 2012, 324, 4209-4218.	1.0	27
14	Enhanced dielectric behavior and ac electrical response in Gd-Mn-ZnO nanoparticles. <i>Journal of Alloys and Compounds</i> , 2017, 726, 11-21.	2.8	27
15	Influence of Ni-Zn-Cu-ferrite on electroactive $\hat{I}^2$ -phase in poly(vinylidene fluoride)-Ni-Zn-Cu-ferrite nanocomposite film: Unique metamaterial for enhanced microwave absorption. <i>Journal of Applied Physics</i> , 2018, 124, .	1.1	23
16	Enhancement of room-temperature ferromagnetism and dielectric response in nanocrystalline ZnO co-doped with Co and Cu. <i>Journal of Alloys and Compounds</i> , 2018, 749, 1-9.	2.8	21
17	Magnetic property, Mössbauer spectroscopy and microwave reflection loss of maghemite nanoparticles ( $\hat{I}^3\text{-Fe}_2\text{O}_3$ ) encapsulated in carbon nanotubes. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2015, 196, 44-52.	1.7	19
18	Dielectric study and magnetic property analysis of $\text{Gd}_2\text{O}_3$ nanorods/nanowire in combination with Monte Carlo simulation. <i>Journal of Alloys and Compounds</i> , 2021, 882, 160720.	2.8	19

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19	Fabrication of heterostructure composites of Ni-Zn-Cu-Ferrite-C <sub>3</sub> N <sub>4</sub> -Poly(vinylidene fluoride) films for the enhancement of electromagnetic interference shielding effectiveness. <i>Chemical Engineering Journal</i> , 2021, 420, 127683.	6.6	18
20	Synthesis, characterization and magnetic property of maghemite ( $\gamma$ -Fe <sub>2</sub> O <sub>3</sub> ) nanoparticles and their protective coating with pepsin for bio-functionalization. <i>Materials Research Bulletin</i> , 2015, 70, 145-154.	2.7	14
21	Enhancement of EMI shielding effectiveness of flexible Co <sub>2</sub> U-type hexaferrite (Ba <sub>4</sub> Co <sub>2</sub> Fe <sub>36</sub> O <sub>60</sub> )-poly(vinylidene fluoride) heterostructure composite materials: An improved radar absorbing material to combat against electromagnetic pollution. <i>Journal of Applied Physics</i> , 2020, 128,	1.1	12
22	Influence of different Cr concentrations on the structural and ferromagnetic properties of ZnO nanomaterials prepared by the hydrothermal synthesis route. <i>Materials Research Bulletin</i> , 2019, 118, 110480.	2.7	11
23	Reduction of electromagnetic pollution by the enhancement of microwave absorption of strontium hexaferrite functionalized poly(vinylidene fluoride) composite film. <i>Materials Research Express</i> , 2019, 6, 086424.	0.8	11
24	Electromagnetic Shielding Effectiveness of X-Type Hexaferrite-C <sub>3</sub> N <sub>4</sub> Binary Nanofiller-Incorporated Poly(vinylidene fluoride) Multiphase Composites. <i>Journal of Physical Chemistry C</i> , 2020, 124, 19396-19405.	1.5	11
25	Effect of hydrothermal synthesis on physical property modulation and biological activity of ZnO nanorods. <i>Materials Research Express</i> , 2019, 6, 1250f7.	0.8	9
26	Modulation of magnetic and dielectric response of mullite coated Cu-substituted Co-Zn-ferrite multiphase nanocomposites. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2021, 266, 115079.	1.7	5
27	Modulation of structural, morphological and electrical charge transport property of Cr-doped ZnO nanomaterials prepared by chemical process. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2022, 280, 115688.	1.7	5
28	Synthesis of Carbon Allotropes in Nanoscale Regime. <i>Advances in Sustainability Science and Technology</i> , 2021, 9-46.	0.4	2