

# Anurag Gaur

## List of Publications by Year in descending order

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98  
papers

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times ranked

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#	ARTICLE	IF	CITATIONS
1	Structural and optical study of Li doped CuO thin films on Si (100) substrate deposited by pulsed laser deposition. <i>Applied Surface Science</i> , 2014, 307, 280-286.	6.1	105
2	Structural and optical properties of ZnO nanoparticles synthesized at different pH values. <i>Journal of Alloys and Compounds</i> , 2012, 539, 174-178.	5.5	69
3	Structural, optical and ferroelectric properties of V doped ZnO. <i>Applied Nanoscience (Switzerland)</i> , 2014, 4, 531-536.	3.1	68
4	Structural, optical and ferroelectric behavior of CuO nanostructures synthesized at different pH values. <i>Superlattices and Microstructures</i> , 2013, 60, 129-138.	3.1	67
5	Transition metal dichalcogenide (TMDs) electrodes for supercapacitors: a comprehensive review. <i>Journal of Physics Condensed Matter</i> , 2021, 33, 303002.	1.8	65
6	Investigation of phase segregation in Zn <sub>1-x</sub> Mg <sub>x</sub> O systems. <i>Current Applied Physics</i> , 2012, 12, 1166-1172.	2.4	60
7	Sintering temperature effect on electrical transport and magnetoresistance of nanophasic La <sub>0.7</sub> Sr <sub>0.3</sub> MnO <sub>3</sub> . <i>Journal of Physics Condensed Matter</i> , 2006, 18, 8837-8846.	1.8	59
8	Effect of NaOH molar concentration on morphology, optical and ferroelectric properties of hydrothermally grown CuO nanoplates. <i>Materials Science in Semiconductor Processing</i> , 2015, 38, 72-80.	4.0	57
9	Magnetoresistance behaviour of La <sub>0.7</sub> Sr <sub>0.3</sub> MnO <sub>3</sub> /NiO composites. <i>Solid State Communications</i> , 2006, 139, 310-314.	1.9	51
10	Behaviour of multiphase PVDF in (1-x)PVDF/(x)BaTiO <sub>3</sub> nanocomposite films: structural, optical, dielectric and ferroelectric properties. <i>Journal of Materials Science: Materials in Electronics</i> , 2018, 29, 10875-10884.	2.2	51
11	Metal Oxide Based Hydroelectric Cell for Electricity Generation by Water Molecule Dissociation without Electrolyte/Acid. <i>Journal of Physical Chemistry C</i> , 2018, 122, 18841-18849.	3.1	50
12	Structural, morphological and optical study of Li doped ZnO thin films on Si (100) substrate deposited by pulsed laser deposition. <i>Ceramics International</i> , 2014, 40, 11915-11923.	4.8	48
13	Investigations on porous carbon derived from sugarcane bagasse as an electrode material for supercapacitors. <i>Biomass and Bioenergy</i> , 2020, 142, 105730.	5.7	43
14	Magneto-electric response in Pb substituted M-type barium-hexaferrite. <i>Ceramics International</i> , 2017, 43, 1180-1185.	4.8	41
15	High temperature dielectric and magnetic response of Ti and Pr doped BiFeO <sub>3</sub> ceramics. <i>Ceramics International</i> , 2013, 39, 8113-8121.	4.8	38
16	Effect of NaOH molar concentration on optical and ferroelectric properties of ZnO nanostructures. <i>Applied Surface Science</i> , 2015, 356, 438-446.	6.1	37
17	Cu Doped Zinc Cobalt Oxide Based Solid-State Symmetric Supercapacitors: A Promising Key for High Energy Density. <i>Journal of Physical Chemistry C</i> , 2020, 124, 9-16.	3.1	37
18	Structural, optical and ferroelectric behavior of hydrothermally grown ZnO nanostructures. <i>Superlattices and Microstructures</i> , 2013, 64, 331-342.	3.1	36

#	ARTICLE	IF	CITATIONS
19	Microstructure-magnetotransport correlation in La <sub>0.7</sub> Ca <sub>0.3</sub> MnO <sub>3</sub> . Journal of Alloys and Compounds, 2007, 443, 26-31.	5.5	34
20	Low field magnetoresistance in La <sub>0.67</sub> Ca <sub>0.33</sub> MnO <sub>3</sub> and Co <sub>3</sub> O <sub>4</sub> combined system. Journal of Alloys and Compounds, 2008, 453, 423-427.	5.5	32
21	Effect of different synthesis techniques on structural, magnetic and magneto-transport properties of Pr <sub>0.7</sub> Sr <sub>0.3</sub> MnO <sub>3</sub> manganite. Journal of Rare Earths, 2010, 28, 760-764.	4.8	32
22	Enhanced low field magnetoresistance in La <sub>0.7</sub> Sr <sub>0.3</sub> MnO <sub>3</sub> /TiO <sub>2</sub> composite. Journal Physics D: Applied Physics, 2006, 39, 3531-3535.	2.8	28
23	Designing of Carbon Nitride Supported ZnCo <sub>2</sub> O <sub>4</sub> Hybrid Electrode for High-Performance Energy Storage Applications. Scientific Reports, 2020, 10, 2035.	3.3	28
24	Fabrication of a SnO <sub>2</sub> -Based Hydroelectric Cell for Green Energy Production. ACS Omega, 2020, 5, 10240-10246.	3.5	27
25	Multiferroic behavior of nanocrystalline BaTiO <sub>3</sub> sintered at different temperatures. Ceramics International, 2014, 40, 16441-16448.	4.8	26
26	Enhanced supercapacitive performance of Ni <sub>0.5</sub> Mg <sub>0.5</sub> Co <sub>2</sub> O <sub>4</sub> flowers and rods as an electrode material for high energy density supercapacitors: Rod morphology holds the key. Journal of Alloys and Compounds, 2018, 766, 859-867.	5.5	25
27	Temperature-dependent dielectric response of (1-x)PVDF/(x)BaTiO <sub>3</sub> nanocomposite films. Physica B: Condensed Matter, 2019, 563, 23-29.	2.7	24
28	Structural, optical, and ferroelectric behavior of Zn <sub>1-x</sub> Li <sub>x</sub> O (0 ≤ x ≤ 0.09) nanostructures. Journal of Alloys and Compounds, 2014, 585, 345-351.	5.5	23
29	Enhanced magnetization and magnetoelectric coupling in hydrogen treated hexagonal YMnO <sub>3</sub> . Journal of Alloys and Compounds, 2011, 509, 1060-1064.	5.5	22
30	Effect of doping on optical properties in BiMn <sub>1-x</sub> (TE) <sub>x</sub> O <sub>3</sub> (where x = 0.0, 0.1 and TE = Cr, Fe, Co, Zn) nanoparticles synthesized by microwave and sol-gel methods. Applied Physics A: Materials Science and Processing, 2017, 123, 1.	2.3	21
31	Influence of Fe segregation at grain boundaries on the magnetoresistance of Sr <sub>2</sub> Fe <sub>1+x</sub> MoO <sub>6</sub> polycrystals. Journal of Applied Physics, 2012, 112, .	2.5	20
32	Room temperature magnetoresistance in Sr <sub>2</sub> FeMoO <sub>6</sub> /SrTiO <sub>3</sub> /Sr <sub>2</sub> FeMoO <sub>6</sub> trilayer devices. Journal Physics D: Applied Physics, 2014, 47, 065006.	2.8	20
33	A Model for Magnetic Nanoparticles Transport in a Channel for Targeted Drug Delivery. , 2015, 10, 44-49.		20
34	Improved magnetotransport in LCMO-Polymer (PPS) composite. Solid State Communications, 2007, 144, 138-143.	1.9	19
35	Multiferroicity and magnetoelectric coupling in doped ZnO. Superlattices and Microstructures, 2014, 65, 299-308.	3.1	19
36	Enhanced magnetization and magnetoelectric coupling in $1-x(\text{BiFeO}_3)/x(\text{La}_{2/3}\text{Sr}_{1/3}\text{MnO}_3)$ composites. Superlattices and Microstructures, 2014, 69, 1-9.	3.1	18

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37	Enhancement in Curie temperature and reduction in magnetoresistance of Sr <sub>2</sub> (Fe <sub>1-x</sub> Ni <sub>x</sub> )MoO <sub>6</sub> (0 ≤ x ≤ 0.15). Journal of Alloys and Compounds, 2008, 460, 581-584.	5.5	17
38	Room temperature low field magnetoresistance in Sr <sub>2</sub> FeMoO <sub>6</sub> /Zn <sub>1-x</sub> Fe <sub>1-x</sub> Fe <sub>2</sub> O <sub>4</sub> composites. Journal of Applied Physics, 2013, 114, .	2.5	17
39	Signature of weak ferroelectricity and ferromagnetism in Mn doped CuO nanostructures. Journal of Magnetism and Magnetic Materials, 2015, 377, 183-189.	2.3	15
40	Room temperature magneto-electric coupling in La <sup>2+</sup> Zn doped Ba <sub>1-x</sub> La <sub>x</sub> Fe <sub>12-x</sub> Zn <sub>x</sub> O <sub>19</sub> (x = 0.0 to 0.4) hexaferrite. Applied Physics A: Materials Science and Processing, 2017, 123, 1.	2.3	15
41	Modelling of Hybrid Electric Vehicle Charger and Study the Simulation Results. , 2020, , .		15
42	Fabrication of activated carbon electrodes derived from peanut shell for high-performance supercapacitors. Biomass Conversion and Biorefinery, 2023, 13, 6737-6746.	4.6	15
43	Signature of multiferroicity and pyroelectricity close to room temperature in BaFe <sub>12</sub> O <sub>19</sub> hexaferrite. Ceramics International, 2017, 43, 16403-16407.	4.8	14
44	Facile synthesis and electrochemical performance of Mg-substituted Ni <sub>1-x</sub> Mg <sub>x</sub> Co <sub>2</sub> O <sub>4</sub> mesoporous nanoflakes for energy storage applications. Electrochimica Acta, 2019, 294, 53-59.	5.2	14
45	Multiferroicity in La, Pr & Sm doped Z-type strontium hexaferrite. Superlattices and Microstructures, 2018, 120, 305-312.	3.1	13
46	Effect of 80 MeV O <sub>6+</sub> ion irradiation on structural, morphological, dielectric, and ferroelectric properties of (1-x)PVDF/(x)BaTiO <sub>3</sub> nanocomposites. Ionics, 2020, 26, 471-481.	2.4	13
47	Swift heavy ions irradiated PVDF/BaTiO <sub>3</sub> film as a separator for supercapacitors. Solid State Ionics, 2020, 352, 115342.	2.7	13
48	Study of optical And Ferroelectric Behavior Of ZnO Nanostructures. Advanced Materials Letters, 2013, 4, 220-224.	0.6	13
49	Observation of superparamagnetism in ultra-fine Zn <sub>x</sub> Fe <sub>1-x</sub> Fe <sub>2</sub> O <sub>4</sub> nanocrystals synthesized by co-precipitation method. Materials Chemistry and Physics, 2012, 134, 783-788.	4.0	12
50	Study of ferromagnetic-metal type Sr <sub>2</sub> FeMoO <sub>6</sub> +xAg (x = 0 to 10wt%) composites. Journal of Alloys and Compounds, 2013, 559, 64-68.	5.5	12
51	Stable Fe deficient Sr <sub>2</sub> Fe <sub>1-x</sub> MoO <sub>6</sub> (0 ≤ x ≤ 0.10) compound. Journal of Alloys and Compounds, 2014, 601, 245-250.	5.5	12
52	An efficient green energy production by Li-doped Fe <sub>3</sub> O <sub>4</sub> hydroelectric cell. Renewable Energy, 2020, 162, 1952-1957.	8.9	12
53	Colossal Dielectric Responses from the Wide Band Gap 2D-Semiconducting Amine Templated Hybrid Framework Materials. Inorganic Chemistry, 2020, 59, 9465-9470.	4.0	12
54	Effect of oxygen vacancies, lattice distortions and secondary phase on the structural, optical, dielectric and ferroelectric properties in Cd-doped Bi <sub>2</sub> Ti <sub>2</sub> O <sub>7</sub> nanoparticles. Materials Research Bulletin, 2021, 141, 111373.	5.2	12

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55	Enhanced magnetoresistance in double perovskite Sr <sub>2</sub> FeMoO <sub>6</sub> through SrMoO <sub>4</sub> tunneling barriers. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2007, 143, 64-69.	3.5	11
56	Anomalous dielectric response with suppression in Neel temperature of Bi <sub>0.9</sub> Y <sub>0.1</sub> Fe <sub>1-x</sub> Mn <sub>x</sub> O <sub>3</sub> (0 ≤ x ≤ 0.07) ceramics. <i>Journal of Alloys and Compounds</i> , 2013, 551, 410-414.	3.5	11
57	Polycrystalline Sr <sub>2</sub> FeMoO <sub>6</sub> thin films on Si substrate by pulsed laser deposition for magnetoresistive applications. <i>Materials Letters</i> , 2014, 118, 200-203.	2.6	11
58	Comparative study of room temperature and low temperature magnetization and magnetoelectric coupling behavior of Ti and Pr doped BiFeO <sub>3</sub> . <i>Superlattices and Microstructures</i> , 2014, 67, 233-241.	3.1	11
59	Capture Efficiency of Magnetic Nanoparticles in a Tube under Magnetic Field. , 2015, 10, 64-69.		11
60	In-plane strain modulated magnetization and magnetoelectric effect in La <sub>0.7</sub> Sr <sub>0.3</sub> MnO <sub>3</sub> -BaTiO <sub>3</sub> and La <sub>0.7</sub> Sr <sub>0.3</sub> MnO <sub>3</sub> -BaTiO <sub>3</sub> -BiFeO <sub>3</sub> multilayer's. <i>Superlattices and Microstructures</i> , 2016, 98, 54-61.	3.1	10
61	Fabrication of PVDF/BaTiO <sub>3</sub> /NiO nanocomposite film as a separator for supercapacitors. <i>Journal of Energy Storage</i> , 2021, 38, 102500.	8.1	10
62	Structural, Optical, and Ferroelectric Behaviors of Cu <sub>1-x</sub> Li <sub>x</sub> O (0 ≤ x ≤ 0.09) Nanostructures. <i>Acta Metallurgica Sinica (English Letters)</i> , 2014, 27, 306-312.	2.9	9
63	Effect of large compressive strain on low field electrical transport in La <sub>0.88</sub> Sr <sub>0.12</sub> MnO <sub>3</sub> thin films. <i>Journal Physics D: Applied Physics</i> , 2007, 40, 2954-2960.	2.8	8
64	Study of CuO Nanoparticles Synthesized by Sol-gel Method. <i>AIP Conference Proceedings</i> , 2011, , .	0.4	7
65	Observation of magnetoelectric coupling in (1-x) BaTiO <sub>3</sub> /x La <sub>0.7</sub> Sr <sub>0.3</sub> MnO <sub>3</sub> composites. <i>Journal of Alloys and Compounds</i> , 2014, 592, 244-249.	5.5	7
66	Impact of sintering temperature on structural, optical and ferroelectric properties of V-doped ZnO. <i>Materials Research Express</i> , 2015, 2, 045901.	1.6	7
67	Syntheses, crystal structures, topology and dual electronic behaviors of a family of amine-templated three- dimensional zinc-organophosphonate hybrid solids. <i>Journal of Molecular Structure</i> , 2022, 1263, 133087.	3.6	7
68	Investigation of multiferroic behaviour at room temperature in Bi-induced orthoferrite: combined experimental and first principles studies. <i>Bulletin of Materials Science</i> , 2020, 43, 1.	1.7	6
69	Influence of high dose gamma radiation on optical, physico-chemical and surface morphology properties of nanocrystalline ZrO <sub>2</sub> thin films. <i>Optical Materials</i> , 2022, 126, 112125.	3.6	6
70	Magnetic and magnetotransport behavior of overdoped nanocrystalline Nd <sub>1-x</sub> Sr <sub>x</sub> MnO <sub>3</sub> (0.50 ≤ x ≤ 0.63). <i>Journal of Rare Earths</i> , 2011, 29, 654-659.	4.8	5
71	Multiferroicity in Ba <sub>0.97</sub> La <sub>0.03</sub> Ti <sub>1-x</sub> Ni <sub>x</sub> O <sub>3</sub> (0.03 ≤ x ≤ 0.07) ceramics. <i>Journal of Alloys and Compounds</i> , 2014, 615, 135-140.	5.5	5
72	Surface and grain boundary interdiffusion in nanometer-scale LSMO/BFO bilayer. <i>Journal of Magnetism and Magnetic Materials</i> , 2016, 405, 72-77.	2.3	5

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73	Room temperature multiferroicity for BaFe <sub>2</sub> O <sub>9</sub> thin film fabricated by pulsed laser deposition technique. Applied Physics A: Materials Science and Processing, 2019, 125, 1.	2.3	5
74	Effect of 40 keV Li <sup>3+</sup> ion irradiation on dielectric and ferroelectric properties of (1-x)PVDF/(x)BaTiO <sub>3</sub> nanocomposites. Vacuum, 2019, 167, 344-351.	3.5	5
75	Growth of Sr <sub>2</sub> FeMoO <sub>6</sub> Based Tri-layer Structure for Room Temperature Magnetoresistive Applications. Integrated Ferroelectrics, 2014, 157, 89-94.	0.7	4
76	Low temperature magnetic and anomalous high temperature dielectric response of Dy <sup>2+</sup> /Ni co-doped hexagonal YMnO <sub>3</sub> ceramics. Journal of Magnetism and Magnetic Materials, 2015, 384, 241-246.	2.3	4
77	Double Perovskite Sr <sub>2</sub> FeMoO <sub>6</sub> : A Potential Candidate for Room Temperature Magnetoresistance Device Applications. , 2017, , .		4
78	Low temperature magnetization and anomalous high temperature dielectric behaviour of (1-x) YMnO <sub>3</sub> /xZnFe <sub>2</sub> O <sub>4</sub> composites. Journal of Magnetism and Magnetic Materials, 2018, 451, 351-359.	2.3	4
79	Electrochemical Performance of rGO@ZnCo <sub>2</sub> O <sub>4</sub> Microspheres: Rationally Designed Asymmetric Constructed Wide-Potential Energy Storage Device. Journal of the Electrochemical Society, 2021, 168, 070549.	2.9	4
80	Role of energy loss-range profile of heavy ions in tailoring the optical properties of polycarbonate. Optical Materials, 2021, 121, 111617.	3.6	3
81	Electrochemical performance of transition metal based CoB <sub>2</sub> O <sub>4</sub> (B = Co and Tj ETQq1 1 0.784314 rgBT / O 10671-10681.	2.8	3
82	Optical and dielectric properties of BiMn <sub>1-x</sub> AE <sub>x</sub> O <sub>3</sub> (AE=Cr, Fe, Co, and Zn; x=0, 0.1) nanoparticles synthesized by sol-gel technique. AIP Conference Proceedings, 2015, , .	0.4	2
83	Electrochemical studies of novel olivine-layered (LiFePO <sub>4</sub> -Li <sub>2</sub> MnO <sub>3</sub> ) dual composite as an alternative cathode material for lithium-ion batteries. Journal of Solid State Electrochemistry, 2018, 22, 2507-2513.	2.5	2
84	Argon ion implanted CR-39 polymer: Optical and structural characterization. Optical Materials, 2021, 115, 111046.	3.6	2
85	Design, Simulation and Analysis of a Slotted RF MEMS Switch. Transactions on Electrical and Electronic Materials, 2022, 23, 419-429.	1.9	2
86	Structural and Photoluminescence Study of Iron Oxide Nanoparticles. Advanced Science Letters, 2014, 20, 1707-1709.	0.2	2
87	Structural and Optical Properties of Polycrystalline ZnO Nanopowder Synthesized by Direct Precipitation Technique. Journal of Nano- and Electronic Physics, 2020, 12, 04027-1-04027-5.	0.5	2
88	Structural, optical and ferroelectric properties of Cu, Cr, and Li doped ZnO. , 2013, , .		1
89	Structural and optical studies of CuO nanostructures. , 2014, , .		1
90	Magnetic and Magnetotransport Properties of (Pr <sub>0.7</sub> Sr <sub>0.3</sub> MnO <sub>3</sub> ) <sub>1-x</sub> NiO <sub>x</sub> Composites. , 2011, , .		0

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91	Enhanced magnetization with anomalous dielectric response of Bi <sub>0.9</sub> Y <sub>0.1</sub> Fe <sub>1-x</sub> Mn <sub>x</sub> O <sub>3</sub> (0.07) ceramics. , 2013, , .		0
92	Structural and optical studies of Sr and Mn doped ZnO nanoparticles. , 2013, , .		0
93	Magnetotransport Behaviour of Nanocrystalline Pr <sub>1-x</sub> Sr <sub>x</sub> MnO <sub>3</sub> (0.40) (0.60). ISRN Materials Science, 2013, 2013, 1-8.	1.0	0
94	Vacuum and low oxygen pressure influence on BaFe <sub>12</sub> O <sub>19</sub> film deposited by pulse laser deposition. AIP Conference Proceedings, 2018, , .	0.4	0
95	Fabrication and electrochemical characterization of Zn <sub>0.9</sub> Cu <sub>0.1</sub> Co <sub>2</sub> O <sub>4</sub> nanostructures for supercapacitor application. AIP Conference Proceedings, 2019, , .	0.4	0
96	Application of Hydroelectric Cell for LED Lamp. , 2019, , .		0
97	Case Study of Developing an Electromyogram-Based Exoskeleton Control for Upper Limb Rehabilitation. Advances in Intelligent Systems and Computing, 2021, , 171-184.	0.6	0
98	Room temperature magento-electric coupling in Pb <sup>2+</sup> Zn substituted Co <sub>2</sub> Y-hexaferrite. Journal of Materials Science: Materials in Electronics, 2022, 33, 16874-16888.	2.2	0