

Anurag Gaur

List of Publications by Year in descending order

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98
papers

1,865
citations

257450

24
h-index

315739

38
g-index

99
all docs

99
docs citations

99
times ranked

2018
citing authors

#	ARTICLE	IF	CITATIONS
1	Fabrication of activated carbon electrodes derived from peanut shell for high-performance supercapacitors. <i>Biomass Conversion and Biorefinery</i> , 2023, 13, 6737-6746.	4.6	15
2	Design, Simulation and Analysis of a Slotted RF MEMS Switch. <i>Transactions on Electrical and Electronic Materials</i> , 2022, 23, 419-429.	1.9	2
3	Influence of high dose gamma radiation on optical, physico-chemical and surface morphology properties of nanocrystalline ZrO ₂ thin films. <i>Optical Materials</i> , 2022, 126, 112125.	3.6	6
4	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
5	Electrochemical performance of transition metal based CoB ₂ O ₄ (B = Co and Tj ETQq1 1 0.784314 rgBT /Ove 10671-10681.	2.8	3
6	Room temperature magento-electric coupling in Pb ²⁺ Zn substituted Co ₂ Y-hexaferrite. <i>Journal of Materials Science: Materials in Electronics</i> , 2022, 33, 16874-16888.	2.2	0
7	Argon ion implanted CR-39 polymer: Optical and structural characterization. <i>Optical Materials</i> , 2021, 115, 111046.	3.6	2
8	Fabrication of PVDF/BaTiO ₃ /NiO nanocomposite film as a separator for supercapacitors. <i>Journal of Energy Storage</i> , 2021, 38, 102500.	8.1	10
9	Transition metal dichalcogenide (TMDs) electrodes for supercapacitors: a comprehensive review. <i>Journal of Physics Condensed Matter</i> , 2021, 33, 303002.	1.8	65
10	Electrochemical Performance of rGO@ZnCo ₂ O ₄ Microspheres: Rationally Designed Asymmetric Constructed Wide-Potential Energy Storage Device. <i>Journal of the Electrochemical Society</i> , 2021, 168, 070549.	2.9	4
11	Effect of oxygen vacancies, lattice distortions and secondary phase on the structural, optical, dielectric and ferroelectric properties in Cd-doped Bi ₂ Ti ₂ O ₇ nanoparticles. <i>Materials Research Bulletin</i> , 2021, 141, 111373.	5.2	12
12	Role of energy loss-range profile of heavy ions in tailoring the optical properties of polycarbonate. <i>Optical Materials</i> , 2021, 121, 111617.	3.6	3
13	Case Study of Developing an Electromyogram-Based Exoskeleton Control for Upper Limb Rehabilitation. <i>Advances in Intelligent Systems and Computing</i> , 2021, , 171-184.	0.6	0
14	Effect of 80 MeV O ₆ ⁺ ion irradiation on structural, morphological, dielectric, and ferroelectric properties of (1-x)PVDF/(x)BaTiO ₃ nanocomposites. <i>Ionics</i> , 2020, 26, 471-481.	2.4	13
15	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
16	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
17	An efficient green energy production by Li-doped Fe ₃ O ₄ hydroelectric cell. <i>Renewable Energy</i> , 2020, 162, 1952-1957.	8.9	12
18	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

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19	Modelling of Hybrid Electric Vehicle Charger and Study the Simulation Results. , 2020, , .		15
20	Swift heavy ions irradiated PVDF/BaTiO ₃ film as a separator for supercapacitors. Solid State Ionics, 2020, 352, 115342.	2.7	13
21	Colossal Dielectric Responses from the Wide Band Gap 2D-Semiconducting Amine Templated Hybrid Framework Materials. Inorganic Chemistry, 2020, 59, 9465-9470.	4.0	12
22	Designing of Carbon Nitride Supported ZnCo ₂ O ₄ Hybrid Electrode for High-Performance Energy Storage Applications. Scientific Reports, 2020, 10, 2035.	3.3	28
23	Fabrication of a SnO ₂ -Based Hydroelectric Cell for Green Energy Production. ACS Omega, 2020, 5, 10240-10246.	3.5	27
24	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
25	Room temperature multiferroicity for BaFe ₁₂ O ₁₉ thin film fabricated by pulsed laser deposition technique. Applied Physics A: Materials Science and Processing, 2019, 125, 1.	2.3	5
26	Effect of 40 keV Li ³⁺ ion irradiation on dielectric and ferroelectric properties of (1-x)PVDF/(x)BaTiO ₃ nanocomposites. Vacuum, 2019, 167, 344-351.	3.5	5
27	Fabrication and electrochemical characterization of Zn _{0.9} Cu _{0.1} Co ₂ O ₄ nanostructures for supercapacitor application. AIP Conference Proceedings, 2019, , .	0.4	0
28	Temperature-dependent dielectric response of (1-x)PVDF/(x)BaTiO ₃ nanocomposite films. Physica B: Condensed Matter, 2019, 563, 23-29.	2.7	24
29	Application of Hydroelectric Cell for LED Lamp. , 2019, , .		0
30	Facile synthesis and electrochemical performance of Mg-substituted Ni _{1-x} Mg _x Co ₂ O ₄ mesoporous nanoflakes for energy storage applications. Electrochimica Acta, 2019, 294, 53-59.	5.2	14
31	Electrochemical studies of novel olivine-layered (LiFePO ₄ -Li ₂ MnO ₃) dual composite as an alternative cathode material for lithium-ion batteries. Journal of Solid State Electrochemistry, 2018, 22, 2507-2513.	2.5	2
32	Low temperature magnetization and anomalous high temperature dielectric behaviour of (1-x)YMnO ₃ /xZnFe ₂ O ₄ composites. Journal of Magnetism and Magnetic Materials, 2018, 451, 351-359.	2.3	4
33	Vacuum and low oxygen pressure influence on BaFe ₁₂ O ₁₉ film deposited by pulse laser deposition. AIP Conference Proceedings, 2018, , .	0.4	0
34	Enhanced supercapacitive performance of Ni _{0.5} Mg _{0.5} Co ₂ O ₄ 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
35	Metal Oxide Based Hydroelectric Cell for Electricity Generation by Water Molecule Dissociation without Electrolyte/Acid. Journal of Physical Chemistry C, 2018, 122, 18841-18849.	3.1	50
36	Behaviour of multiphase PVDF in (1-x)PVDF/(x)BaTiO ₃ nanocomposite films: structural, optical, dielectric and ferroelectric properties. Journal of Materials Science: Materials in Electronics, 2018, 29, 10875-10884.	2.2	51

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37	Multiferroicity in La, Pr & Sm doped Z-type strontium hexaferrite. Superlattices and Microstructures, 2018, 120, 305-312.	3.1	13
38	Effect of doping on optical properties in BiMn $1-x$ (TE) x O ₃ (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
39	Signature of multiferroicity and pyroelectricity close to room temperature in BaFe ₁₂ O ₁₉ hexaferrite. Ceramics International, 2017, 43, 16403-16407.	4.8	14
40	Room temperature magneto-electric coupling in La ²⁺ Zn doped Ba $1-x$ La x Fe $12-x$ Zn x O ₁₉ (x=0.0, 0.1) hexaferrite. Applied Physics A: Materials Science and Processing, 2017, 123, 1.	2.3	15
41	Magneto-electric response in Pb substituted M-type barium-hexaferrite. Ceramics International, 2017, 43, 1180-1185.	4.8	41
42	Double Perovskite Sr ₂ FeMoO ₆ : A Potential Candidate for Room Temperature Magnetoresistance Device Applications. , 2017, , .		4
43	In-plane strain modulated magnetization and magnetoelectric effect in La _{0.7} Sr _{0.3} MnO ₃ -BaTiO ₃ and La _{0.7} Sr _{0.3} MnO ₃ -BaTiO ₃ -BiFeO ₃ multilayer's. Superlattices and Microstructures, 2016, 98, 54-61.	3.1	10
44	Surface and grain boundary interdiffusion in nanometer-scale LSMO/BFO bilayer. Journal of Magnetism and Magnetic Materials, 2016, 405, 72-77.	2.3	5
45	Optical and dielectric properties of BiMn $1-x$ AExO ₃ (AE=Cr, Fe, Co, and Zn; x=0, 0.1) nanoparticles synthesized by sol-gel technique. AIP Conference Proceedings, 2015, , .	0.4	2
46	Impact of sintering temperature on structural, optical and ferroelectric properties of V-doped ZnO. Materials Research Express, 2015, 2, 045901.	1.6	7
47	Capture Efficiency of Magnetic Nanoparticles in a Tube under Magnetic Field. , 2015, 10, 64-69.		11
48	Effect of NaOH molar concentration on morphology, optical and ferroelectric properties of hydrothermally grown CuO nanoplates. Materials Science in Semiconductor Processing, 2015, 38, 72-80.	4.0	57
49	Low temperature magnetic and anomalous high temperature dielectric response of Dy ²⁺ Ni co-doped hexagonal YMnO ₃ ceramics. Journal of Magnetism and Magnetic Materials, 2015, 384, 241-246.	2.3	4
50	Effect of NaOH molar concentration on optical and ferroelectric properties of ZnO nanostructures. Applied Surface Science, 2015, 356, 438-446.	6.1	37
51	A Model for Magnetic Nanoparticles Transport in a Channel for Targeted Drug Delivery. , 2015, 10, 44-49.		20
52	Signature of weak ferroelectricity and ferromagnetism in Mn doped CuO nanostructures. Journal of Magnetism and Magnetic Materials, 2015, 377, 183-189.	2.3	15
53	Structural and optical studies of CuO nanostructures. , 2014, , .		1
54	Growth of Sr ₂ FeMoO ₆ Based Tri-layer Structure for Room Temperature Magnetoresistive Applications. Integrated Ferroelectrics, 2014, 157, 89-94.	0.7	4

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55	Structural, optical and ferroelectric properties of V doped ZnO. Applied Nanoscience (Switzerland), 2014, 4, 531-536.	3.1	68
56	Structural and optical study of Li doped CuO thin films on Si (100) substrate deposited by pulsed laser deposition. Applied Surface Science, 2014, 307, 280-286.	6.1	105
57	Structural, optical, and ferroelectric behavior of Zn _{1-x} Li _x O (0 ≤ x ≤ 0.09) nanostructures. Journal of Alloys and Compounds, 2014, 585, 345-351.	5.5	23
58	Room temperature magnetoresistance in Sr ₂ FeMoO ₆ /SrTiO ₃ /Sr ₂ FeMoO ₆ trilayer devices. Journal Physics D: Applied Physics, 2014, 47, 065006.	2.8	20
59	Multiferroicity in Ba _{0.97} La _{0.03} Ti _{1-x} Ni _x O ₃ (0.03 ≤ x ≤ 0.07) ceramics. Journal of Alloys and Compounds, 2014, 615, 135-140.	5.5	5
60	Structural, Optical, and Ferroelectric Behaviors of Cu _{1-x} Li _x O (0 ≤ x ≤ 0.09) Nanostructures. Acta Metallurgica Sinica (English Letters), 2014, 27, 306-312.	2.9	9
61	Multiferroic behavior of nanocrystalline BaTiO ₃ sintered at different temperatures. Ceramics International, 2014, 40, 16441-16448.	4.8	26
62	Stable Fe deficient Sr ₂ Fe _{1-x} MoO ₆ (0.0 ≤ x ≤ 0.10) compound. Journal of Alloys and Compounds, 2014, 601, 245-250.	5.5	12
63	Multiferroicity and magnetoelectric coupling in doped ZnO. Superlattices and Microstructures, 2014, 65, 299-308.	3.1	19
64	Polycrystalline Sr ₂ FeMoO ₆ thin films on Si substrate by pulsed laser deposition for magnetoresistive applications. Materials Letters, 2014, 118, 200-203.	2.6	11
65	Observation of magnetoelectric coupling in (1-x) BaTiO ₃ /x La _{0.7} Sr _{0.3} MnO ₃ composites. Journal of Alloys and Compounds, 2014, 592, 244-249.	5.5	7
66	Enhanced magnetization and magnetoelectric coupling in (1-x)(BiFeO ₃)/x(La _{2/3} Sr _{1/3} MnO ₃) composites. Superlattices and Microstructures, 2014, 69, 1-9.	3.1	18
67	Comparative study of room temperature and low temperature magnetization and magnetoelectric coupling behavior of Ti and Pr doped BiFeO ₃ . Superlattices and Microstructures, 2014, 67, 233-241.	3.1	11
68	Structural, morphological and optical study of Li doped ZnO thin films on Si (100) substrate deposited by pulsed laser deposition. Ceramics International, 2014, 40, 11915-11923.	4.8	48
69	Structural and Photoluminescence Study of Iron Oxide Nanoparticles. Advanced Science Letters, 2014, 20, 1707-1709.	0.2	2
70	Structural, optical and ferroelectric behavior of hydrothermally grown ZnO nanostructures. Superlattices and Microstructures, 2013, 64, 331-342.	3.1	36
71	High temperature dielectric and magnetic response of Ti and Pr doped BiFeO ₃ ceramics. Ceramics International, 2013, 39, 8113-8121.	4.8	38
72	Structural, optical and ferroelectric behavior of CuO nanostructures synthesized at different pH values. Superlattices and Microstructures, 2013, 60, 129-138.	3.1	67

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73	Anomalous dielectric response with suppression in Neel temperature of $\text{Bi}_{0.9}\text{Y}_{0.1}\text{Fe}_{1-x}\text{Mn}_x\text{O}_3$ ($0 \leq x \leq 0.07$) ceramics. Journal of Alloys and Compounds, 2013, 551, 410-414.	5.5	11
74	Study of ferromagnetic-metal type $\text{Sr}_2\text{FeMoO}_6+x\text{Ag}$ ($x=0-10\text{wt}\%$) composites. Journal of Alloys and Compounds, 2013, 559, 64-68.	5.5	12
75	Enhanced magnetization with anomalous dielectric response of $\text{Bi}_{[0.9-x]}\text{Y}_{[0.1+x]}\text{Fe}_{[1-x]}\text{Mn}_{[x]}\text{O}_{[3]}$ ($0 \leq x \leq 0.07$) ceramics. , 2013, , .		0
76	Structural and optical studies of Sr and Mn doped ZnO nanoparticles. , 2013, , .		0
77	Structural, optical and ferroelectric properties of Cu, Cr, and Li doped ZnO. , 2013, , .		1
78	Magnetotransport Behaviour of Nanocrystalline $\text{Pr}_{1-x}\text{Sr}_x\text{MnO}_3$ ($0.40 \leq x \leq 0.60$). ISRN Materials Science, 2013, 2013, 1-8.	1.0	0
79	Room temperature low field magnetoresistance in $\text{Sr}_2\text{FeMoO}_6/\text{Zn}_{1-x}\text{Fe}_x\text{Fe}_2\text{O}_4$ composites. Journal of Applied Physics, 2013, 114, .	2.5	17
80	Study of optical And Ferroelectric Behavior Of ZnO Nanostructures. Advanced Materials Letters, 2013, 4, 220-224.	0.6	13
81	Influence of Fe segregation at grain boundaries on the magnetoresistance of $\text{Sr}_2\text{Fe}_{1-x}\text{MoO}_6$ polycrystals. Journal of Applied Physics, 2012, 112, .	2.5	20
82	Structural and optical properties of ZnO nanoparticles synthesized at different pH values. Journal of Alloys and Compounds, 2012, 539, 174-178.	5.5	69
83	Investigation of phase segregation in $\text{Zn}_{1-x}\text{Mg}_x\text{O}$ systems. Current Applied Physics, 2012, 12, 1166-1172.	2.4	60
84	Observation of superparamagnetism in ultra-fine $\text{Zn}_x\text{Fe}_{1-x}\text{Fe}_2\text{O}_4$ nanocrystals synthesized by co-precipitation method. Materials Chemistry and Physics, 2012, 134, 783-788.	4.0	12
85	Study of CuO Nanoparticles Synthesized by Sol-gel Method. AIP Conference Proceedings, 2011, , .	0.4	7
86	Enhanced magnetization and magnetoelectric coupling in hydrogen treated hexagonal YMnO_3 . Journal of Alloys and Compounds, 2011, 509, 1060-1064.	5.5	22
87	Magnetic and magnetotransport behavior of overdoped nanocrystalline $\text{Nd}_{1-x}\text{Sr}_x\text{MnO}_3$ ($0.50 \leq x \leq 0.63$). Journal of Rare Earths, 2011, 29, 654-659.	4.8	5
88	Magnetic and Magnetotransport Properties of $(\text{Pr}_{[0.7-x]}\text{Sr}_{[0.3+x]}\text{MnO}_{[3]})_{[1-x]}\text{NiO}_{[x]}$ Composites. , 2011, , .		0
89	Effect of different synthesis techniques on structural, magnetic and magneto-transport properties of $\text{Pr}_{0.7}\text{Sr}_{0.3}\text{MnO}_3$ manganite. Journal of Rare Earths, 2010, 28, 760-764.	4.8	32
90	Low field magnetoresistance in $\text{La}_{0.67}\text{Ca}_{0.33}\text{MnO}_3$ and Co_3O_4 combined system. Journal of Alloys and Compounds, 2008, 453, 423-427.	5.5	32

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91	Enhancement in Curie temperature and reduction in magnetoresistance of Sr ₂ (Fe _{1-x} Ni _x)MoO ₆ (0 ≤ x ≤ 0.15). Journal of Alloys and Compounds, 2008, 460, 581-584.	5.5	17
92	Effect of large compressive strain on low field electrical transport in La _{0.88} Sr _{0.12} MnO ₃ thin films. Journal Physics D: Applied Physics, 2007, 40, 2954-2960.	2.8	8
93	Microstructure-magnetotransport correlation in La _{0.7} Ca _{0.3} MnO ₃ . Journal of Alloys and Compounds, 2007, 443, 26-31.	5.5	34
94	Improved magnetotransport in LCMO-Polymer (PPS) composite. Solid State Communications, 2007, 144, 138-143.	1.9	19
95	Enhanced magnetoresistance in double perovskite Sr ₂ FeMoO ₆ through SrMoO ₄ tunneling barriers. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2007, 143, 64-69.	3.5	11
96	Enhanced low field magnetoresistance in La _{0.7} Sr _{0.3} MnO ₃ /TiO ₂ composite. Journal Physics D: Applied Physics, 2006, 39, 3531-3535.	2.8	28
97	Sintering temperature effect on electrical transport and magnetoresistance of nanophasic La _{0.7} Sr _{0.3} MnO ₃ . Journal of Physics Condensed Matter, 2006, 18, 8837-8846.	1.8	59
98	Magnetoresistance behaviour of La _{0.7} Sr _{0.3} MnO ₃ /NiO composites. Solid State Communications, 2006, 139, 310-314.	1.9	51