

Parasharam M Shirage

List of Publications by Year in descending order

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90
papers

2,431
citations

147801

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243625

44
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all docs

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docs citations

91
times ranked

2604
citing authors

#	ARTICLE	IF	CITATIONS
1	Insights and perspectives on graphene-PVDF based nanocomposite materials for harvesting mechanical energy. <i>Journal of Alloys and Compounds</i> , 2022, 904, 164060.	5.5	49
2	Role of different counter electrodes on performance of TiO ₂ based dye-sensitized solar cell (DSSC) fabricated with dye extracted from Hibiscus Sabdariffa as sensitizer. <i>Optical Materials</i> , 2022, 124, 112066.	3.6	29
3	Phosphate-based cathode materials to boost the electrochemical performance of sodium-ion batteries. <i>Sustainable Energy and Fuels</i> , 2022, 6, 3114-3147.	4.9	21
4	Properties, performance and multidimensional applications of stable lead-free Cs ₂ AgBiBr ₆ double perovskite. <i>Materials Today Physics</i> , 2022, 26, 100731.	6.0	19
5	Stable lead-free Cs ₄ CuSb ₂ Cl ₁₂ layered double perovskite solar cells yielding theoretical efficiency close to 30%. <i>Optical Materials</i> , 2022, 132, 112676.	3.6	19
6	Hierarchically interconnected ZnO nanowires for low-temperature-operated reducing gas sensors: experimental and DFT studies. <i>New Journal of Chemistry</i> , 2021, 45, 1404-1414.	2.8	11
7	Hysteresis abated P ₂ -type NaCoO ₂ cathode reveals highly reversible multiple phase transitions for high-rate sodium-ion batteries. <i>Sustainable Energy and Fuels</i> , 2021, 5, 3219-3228.	4.9	17
8	Transformation of Battery to High Performance Pseudocapacitor by the Hybridization of W ₁₈ O ₄₉ with RuO ₂ Nanostructures. <i>Langmuir</i> , 2021, 37, 1141-1151.	3.5	26
9	Electrodeposited nanostructured flakes of cobalt, manganese and nickel-based sulfide (CoMnNiS) for electrocatalytic alkaline oxygen evolution reaction (OER). <i>Journal of Materials Science: Materials in Electronics</i> , 2021, 32, 12292-12307.	2.2	16
10	Structural assessment and irradiation response of La ₂ Zr ₂ O ₇ pyrochlore: Impact of irradiation temperature and ion fluence. <i>Journal of Alloys and Compounds</i> , 2021, 862, 158556.	5.5	23
11	Discharge State of Layered P ₂ -Type Cathode Reveals Unsafe than Charge Condition in Thermal Runaway Event for Sodium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 31594-31604.	8.0	17
12	Atomic order-disorder engineering in the La ₂ Zr ₂ O ₇ pyrochlore under low energy ion irradiation. <i>Ceramics International</i> , 2021, 47, 20248-20259.	4.8	14
13	Near edge absorption studies of pure and impure NbSe_2 ; theory and experiment. <i>Journal of Materials Science</i> , 2021, 56, 17062-17079.	3.7	2
14	Layered Na _x CoO ₂ -based cathodes for advanced Na-ion batteries: review on challenges and advancements. <i>Ionics</i> , 2021, 27, 4549-4572.	2.4	11
15	Synthesis, characterization and application of intracellular Ag/AgCl nanohybrids biosynthesized in <i>Scenedesmus</i> sp. as neutral lipid inducer and antibacterial agent. <i>Environmental Research</i> , 2021, 201, 111499.	7.5	15
16	A brief review of Bi ₂ Se ₃ based topological insulator: From fundamentals to applications. <i>Journal of Alloys and Compounds</i> , 2021, 888, 161492.	5.5	36
17	Perovskite-Based Facile NiO/CH ₃ NH ₃ Pb ₃ Heterojunction Self-Powered Broadband Photodetector. <i>ACS Applied Electronic Materials</i> , 2021, 3, 4548-4557.	4.3	26
18	Study of transport properties in Se-deficient and Fe-intercalated NbSe ₂ single crystals: experiment and theory. <i>Journal of Materials Science</i> , 2020, 55, 250-262.	3.7	5

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19	Electrical and Magnetic Properties of Copper-Intercalated Topological Insulator Bi ₂ Se ₃ Single Crystal. <i>Journal of Superconductivity and Novel Magnetism</i> , 2020, 33, 847-857.	1.8	2
20	Influence of pressure on the transport, magnetic, and structural properties of superconducting Cr _{0.0009} NbSe ₂ single crystal. <i>RSC Advances</i> , 2020, 10, 13112-13125.	3.6	4
21	Disordering Induced Second Magnetization Peak Effect and the Vortex Pinning Mechanism in V _{0.0007} NbSe ₂ Single Crystal. <i>Journal of Superconductivity and Novel Magnetism</i> , 2020, 33, 2679-2689.	1.8	0
22	Gold nanoparticle@cellulose/PDMS nanocomposite: a flexible dielectric material for harvesting mechanical energy. <i>RSC Advances</i> , 2020, 10, 10097-10112.	3.6	60
23	Defect Mediated W ₁₈ O ₄₉ Nanorods Bundle for Nonenzymatic Amperometric Glucose Sensing Application. <i>ACS Biomaterials Science and Engineering</i> , 2020, 6, 1909-1919.	5.2	18
24	Mesoporous perovskite of interlocked nickel titanate nanoparticles for efficient electrochemical supercapacitor electrode. <i>Journal of Alloys and Compounds</i> , 2020, 833, 155134.	5.5	44
25	Second magnetization peak effect and the vortex phase diagram of V _{0.0015} NbSe ₂ single crystal. <i>Journal of Magnetism and Magnetic Materials</i> , 2020, 507, 166817.	2.3	3
26	Engineering the optical and magnetic properties of Zn doped CoFe ₂ O ₄ nanoparticles. <i>AIP Conference Proceedings</i> , 2020, , .	0.4	0
27	Screening of microalgae for biosynthesis and optimization of Ag/AgCl nano hybrids having antibacterial effect. <i>RSC Advances</i> , 2019, 9, 25583-25591.	3.6	43
28	Temperature dependent I-V characteristics of Ni doped topological insulator Bi ₂ Se ₃ nanoparticles. <i>AIP Conference Proceedings</i> , 2019, , .	0.4	2
29	Synthesis and humidity sensing behaviour of Cu-intercalated Bi ₂ Se ₃ topological insulator single crystals. <i>AIP Conference Proceedings</i> , 2019, , .	0.4	2
30	Surface Oxygen Vacancy Formulated Energy Storage Application: Pseudocapacitor-Battery Trait of W ₁₈ O ₄₉ Nanorods. <i>Journal of the Electrochemical Society</i> , 2019, 166, A3496-A3503.	2.9	35
31	Oxidized Nickel films as highly transparent HTLs for inverted planar perovskite solar cells. <i>Solar Energy</i> , 2019, 193, 387-394.	6.1	32
32	Enhancement of superconducting properties and flux pinning mechanism on Cr _{0.0005} NbSe ₂ single crystal under Hydrostatic pressure. <i>Scientific Reports</i> , 2019, 9, 347.	3.3	19
33	A flexible self-poled piezoelectric nanogenerator based on a rGO@Ag/PVDF nanocomposite. <i>New Journal of Chemistry</i> , 2019, 43, 284-294.	2.8	101
34	Coexistence of superconductivity and ferromagnetism in defect-induced NbSe ₂ single crystals. <i>Journal of Materials Science</i> , 2019, 54, 11903-11912.	3.7	9
35	Study of vortex dynamics in V _{0.001} NbSe ₂ superconductor. <i>AIP Conference Proceedings</i> , 2019, , .	0.4	0
36	Perforated mesoporous NiO nanostructures for an enhanced pseudocapacitive performance with ultra-high rate capability and high energy density. <i>CrystEngComm</i> , 2019, 21, 7130-7140.	2.6	32

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37	A quarter of a century after its synthesis and with >200 papers based on its use, $\text{Co}(\text{CO})_{0.5}(\text{OH})_{0.11}\text{H}_2\text{O}$ proves to be $\text{Co}_6(\text{CO})_3(\text{CO})_2(\text{OH})_8\text{H}_2\text{O}$ from synchrotron powder diffraction data. <i>Acta Crystallographica Section C, Structural Chemistry</i> , 2019, 75, 61-64.	0.5	22
38	Redox additive enhanced capacitance: Multi-walled carbon nanotubes/polyaniline nanocomposite based symmetric supercapacitors for rapid charge storage. <i>Applied Surface Science</i> , 2019, 469, 162-172.	6.1	70
39	A 3D mesoporous flowers of nickel carbonate hydroxide hydrate for high-performance electrochemical energy storage application. <i>Electrochimica Acta</i> , 2019, 296, 112-119.	5.2	52
40	Impact of different morphologies of CoFe_2O_4 nanoparticles for tuning of structural, optical and magnetic properties. <i>Journal of Alloys and Compounds</i> , 2019, 778, 398-409.	5.5	56
41	Synthesis of humidity sensitive zinc stannate nanomaterials and modelling of Freundlich adsorption isotherm model. <i>AIP Conference Proceedings</i> , 2018, , .	0.4	4
42	Controlled $\text{Zn}_x\text{Ni}_x\text{O}$ nanostructures for an excellent humidity sensor and a plausible sensing mechanism. <i>New Journal of Chemistry</i> , 2018, 42, 8445-8457.	2.8	32
43	Pressure assisted enhancement in superconducting properties of Fe substituted NbSe_2 single crystal. <i>Scientific Reports</i> , 2018, 8, 1251.	3.3	15
44	Structural, optical and excellent humidity sensing behaviour of ZnSnO_3 nanoparticles: effect of annealing. <i>Journal of Materials Science: Materials in Electronics</i> , 2018, 29, 10769-10783.	2.2	15
45	Mesoporous layered hexagonal platelets of Co_3O_4 nanoparticles with (111) facets for battery applications: high performance and ultra-high rate capability. <i>Nanoscale</i> , 2018, 10, 1779-1787.	5.6	47
46	Pseudocapacitive-battery-like behavior of cobalt manganese nickel sulfide (CoMnNiS) nanosheets grown on Ni-foam by electrodeposition for realizing high capacity. <i>RSC Advances</i> , 2018, 8, 40198-40209.	3.6	33
47	Effect of Cu intercalation on humidity sensing properties of Bi_2Se_3 topological insulator single crystals. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 28257-28266.	2.8	21
48	Morphology-controlled synthesis and enhanced energy product (BH_{max}) of CoFe_2O_4 nanoparticles. <i>New Journal of Chemistry</i> , 2018, 42, 15793-15802.	2.8	57
49	Effect of Cr atoms in vortex dynamics of NbSe_2 superconductor and study of second magnetization peak effect. <i>Materials Research Express</i> , 2018, 5, 076001.	1.6	10
50	Controlled Hetero Architectures of Au Nanoparticles Decorated ZnO Nanowires for Enhanced Field Electron Emission Displays. <i>ChemistrySelect</i> , 2018, 3, 7891-7899.	1.5	8
51	Hybridization of Co_3O_4 and MnO_2 Nanostructures for High-Performance Nonenzymatic Glucose Sensing. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 13248-13261.	6.7	54
52	Impact of Different Morphological Structures on Physical Properties of Nanostructured SnSe. <i>Journal of Physical Chemistry C</i> , 2018, 122, 13182-13192.	3.1	14
53	Enhancement of field electron emission in topological insulator Bi_2Se_3 by Ni doping. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 18429-18435.	2.8	17
54	Spitzer shaped ZnO nanostructures for enhancement of field electron emission behaviors. <i>RSC Advances</i> , 2018, 8, 21664-21670.	3.6	18

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55	Structural distortion, ferroelectricity and ferromagnetism in Pb(Ti $^{1-x}$ Fe x)O ₃ . Journal of Alloys and Compounds, 2017, 701, 619-625.	5.5	23
56	Highest coercivity and considerable saturation magnetization of CoFe ₂ O ₄ nanoparticles with tunable band gap prepared by thermal decomposition approach. Journal of Materials Science, 2017, 52, 4840-4851.	3.7	62
57	Zn $^{1-x}$ Si x O: Improved optical transmission and electrical conductivity. Ceramics International, 2017, 43, 5668-5673.	4.8	12
58	Search for Origin of Room Temperature Ferromagnetism Properties in Ni-Doped ZnO Nanostructure. ACS Applied Materials & Interfaces, 2017, 9, 7691-7700.	8.0	99
59	Structural and dielectric properties of Pb(1 $^{1-x}$)(Na _{0.5} Sm _{0.5}) x TiO ₃ ceramics. Journal of Materials Science: Materials in Electronics, 2017, 28, 10730-10738.	2.2	13
60	Comparative Study with a Unique Arrangement to Tap Piezoelectric Output to Realize a Self Poled PVDF Based Nanocomposite for Energy Harvesting Applications. ChemistrySelect, 2017, 2, 2774-2782.	1.5	29
61	Synthesis of Ammonia-Assisted Porous Nickel Ferrite (NiFe ₂ O ₄) Nanostructures as an Electrode Material for Supercapacitors. Journal of Nanoscience and Nanotechnology, 2017, 17, 1387-1392.	0.9	44
62	Enhancement of superconducting critical current density by Fe impurity substitution in NbSe ₂ single crystals and the vortex pinning mechanism. Physical Chemistry Chemical Physics, 2017, 19, 11230-11238.	2.8	19
63	Structural and ferroelectric properties of perovskite Pb $^{1-x}$ (K _{0.5} Sm _{0.5}) x TiO ₃ ceramics. RSC Advances, 2017, 7, 39434-39442.	3.6	32
64	Shape-controlled CoFe ₂ O ₄ nanoparticles as an excellent material for humidity sensing. RSC Advances, 2017, 7, 55778-55785.	3.6	64
65	Influence of Si incorporation on mechanical properties of ZnO particles. AIP Conference Proceedings, 2017, , .	0.4	0
66	Synthesis and electrical properties of Li[Ni _{1/3} Mn _{1/3} Co _{1/3}]O ₂ . AIP Conference Proceedings, 2017, , .	0.4	0
67	Mesoporous nickel cobalt hydroxide/oxide as an excellent room temperature ammonia sensor. Scripta Materialia, 2017, 128, 65-68.	5.2	64
68	Structural and Mechanical Characterization of Si Doped ZnO. Journal of Nanoscience and Nanotechnology, 2017, 17, 1806-1812.	0.9	1
69	Growth of transparent Zn $^{1-x}$ Sr x O (0.0 $\leq x \leq$ 0.08) films by facile wet chemical method: Effect of Sr doping on the structural, optical and sensing properties. Applied Surface Science, 2016, 379, 23-32.	6.1	23
70	Synthesis of Partially Reduced Graphene Oxide/Silver Nanocomposite and Its Inhibitive Action on Pathogenic Fungi Grown Under Ambient Conditions. ChemistrySelect, 2016, 1, 4235-4245.	1.5	34
71	Sr- and Ni-doping in ZnO nanorods synthesized by a simple wet chemical method as excellent materials for CO and CO ₂ gas sensing. RSC Advances, 2016, 6, 82733-82742.	3.6	68
72	Synthesis of Ni-doped ZnO nanostructures by low-temperature wet chemical method and their enhanced field emission properties. RSC Advances, 2016, 6, 104318-104324.	3.6	33

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73	X-ray structural studies on solubility of Fe substituted CuO. RSC Advances, 2016, 6, 103571-103578.	3.6	11
74	Iron isotope effect in SmFeAsO _{0.65} and SmFeAsO _{0.77} H _{0.12} superconductors: A Raman study. AIP Advances, 2016, 6, 105310.	1.3	4
75	Enhanced electrochemical performance of mesoporous NiCo ₂ O ₄ as an excellent supercapacitive alternative energy storage material. Applied Surface Science, 2016, 377, 376-384.	6.1	64
76	Studies on the control of ZnO nanostructures by wet chemical method and plausible mechanism. AIP Advances, 2015, 5, 097118.	1.3	20
77	Enhancement of two photon absorption with Ni doping in the dilute magnetic semiconductor ZnO crystalline nanorods. Applied Physics Letters, 2015, 107, .	3.3	33
78	Controlling of ZnO nanostructures by solute concentration and its effect on growth, structural and optical properties. Materials Research Express, 2015, 2, 105017.	1.6	39
79	Effect of growth temperature on the optical properties of ZnO nanostructures grown by simple hydrothermal method. RSC Advances, 2015, 5, 60365-60372.	3.6	58
80	Two-Dimensional Mesoporous Carbon Electrode for High Energy Density Electrochemical Supercapacitors. Journal of Nanoscience and Nanotechnology, 2015, 15, 1253-1260.	0.9	3
81	ZnO nano-flowers. Materials Today, 2013, 16, 505-506.	14.2	18
82	Emergent phases of nodeless and nodal superconductivity separated by antiferromagnetic order in iron-based superconductor (Ca ₄ Al ₂ O ₆)Fe ₂ (As _{1-x} P _x) ₂ : ⁷⁵ As- and ³¹ P-NMR studies. Physical Review B, 2013, 87, .	3.2	16
83	Disappearance of Superconductivity in the Solid Solution between (Ca ₄ Al ₂ O ₆)(Fe ₂ As ₂) and (Ca ₄ Al ₂ O ₆)(Fe ₂ P ₂) Superconductors. Journal of the American Chemical Society, 2012, 134, 15181-15184.	13.7	9
84	Emergence of Superconductivity in $(Ca_{3-x}Al_2O_6)(Fe_2Pn_2)$ (Pn = As and P) Tj ETQq 0 0 rgBT /Ove	13.7	9
85	The critical current density, irreversibility line, and flux pinning properties of Ba ₂ CaCu ₂ O ₄ (O,F) ₂ high-T _c superconductor. Journal of Applied Physics, 2010, 107, 093905.	2.5	5
86	Superconductivity at 28.3 and 17.1 K in (Ca ₄ Al ₂ O ₆ ^y)(Fe ₂ Pn ₂) (Pn=As and P). Applied Physics Letters, 2010, 97, 172506.	3.3	58
87	Superconductivity above 50 K in $(Ln)FeAsO_{1-x}$ (Ln = Nd, Sm, Gd, Tb, and) Tj ETQq 1 1 0.7843 14 rgBT /Ove	1.6	97
88	Irreversibility line and flux pinning properties in a multilayered cuprate superconductor of Ba ₂ Ca ₃ Cu ₄ O ₈ (O,F) ₂ (T _c) Tj ETQq 0 0 rgBT /Ove	1.6	97
89	Studies on the fabrication of Ag/Hg ₁ Ba ₂ Ca ₁ Cu ₂ O ₆ + \hat{A} /CdSe heterostructures using the pulse electrodeposition technique. Semiconductor Science and Technology, 2004, 19, 323-332.	2.0	11
90	Studies on room temperature electrochemical oxidation and its effect on the transport properties of TBCCO films. Superconductor Science and Technology, 2004, 17, 853-862.	3.5	10