Parasharam M Shirage

List of Publications by Year
in descending order

90 papers	2,431 citations	147801 31 h-index	243625 44 g-index
91 all docs	91 docs citations	91 times ranked	2604 citing authors

#	Article	IF	Citations
1	A flexible self-poled piezoelectric nanogenerator based on a rGOâ€“Ag/PVDF nanocomposite. New Journal of Chemistry, 2019, 43, 284-294.	2.8	101
2	Search for Origin of Room Temperature Ferromagnetism Properties in Ni-Doped ZnO Nanostructure. ACS Applied Materials & Interfaces, 2017, 9, 7691-7700.	8.0	99
3	Superconductivity above 50 K in LnFeAsO_{1-y} (Ln = Nd, Sm, Gd, Tb, and) Tj ETQq1 1 0.784314 rgBT	1.6	97
4	Redox additive enhanced capacitance: Multi-walled carbon nanotubes/polyaniline nanocomposite based symmetric supercapacitors for rapid charge storage. Applied Surface Science, 2019, 469, 162-172.	6.1	70
5	Sr- and Ni-doping in ZnO nanorods synthesized by a simple wet chemical method as excellent materials for CO and CO₂ gas sensing. RSC Advances, 2016, 6, 82733-82742.	3.6	68
6	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
7	Shape-controlled CoFe₂O₄ nanoparticles as an excellent material for humidity sensing. RSC Advances, 2017, 7, 55778-55785.	3.6	64
8	Mesoporous nickel cobalt hydroxide/oxide as an excellent room temperature ammonia sensor. Scripta Materialia, 2017, 128, 65-68.	5.2	64
9	Highest coercivity and considerable saturation magnetization of CoFe2O4 nanoparticles with tunable band gap prepared by thermal decomposition approach. Journal of Materials Science, 2017, 52, 4840-4851.	3.7	62
10	Gold nanoparticleâ€“cellulose/PDMS nanocomposite: a flexible dielectric material for harvesting mechanical energy. RSC Advances, 2020, 10, 10097-10112.	3.6	60
11	Superconductivity at 28.3 and 17.1 K in (Ca4Al2O6â^'y)(Fe2Pn2) (Pn=As and P). Applied Physics Letters, 2010, 97, 172506.	3.3	58
12	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
13	Morphology-controlled synthesis and enhanced energy product (BH)_{max} of CoFe₂O₄ nanoparticles. New Journal of Chemistry, 2018, 42, 15793-15802.	2.8	57
14	Impact of different morphologies of CoFe2O4 nanoparticles for tuning of structural, optical and magnetic properties. Journal of Alloys and Compounds, 2019, 778, 398-409.	5.5	56
15	Hybridization of Co₃O₄ and Î±-MnO₂ Nanostructures for High-Performance Nonenzymatic Glucose Sensing. ACS Sustainable Chemistry and Engineering, 2018, 6, 13248-13261.	6.7	54
16	A 3D mesoporous flowers of nickel carbonate hydroxide hydrate for high-performance electrochemical energy storage application. Electrochimica Acta, 2019, 296, 112-119.	5.2	52
17	Insights and perspectives on graphene-PVDF based nanocomposite materials for harvesting mechanical energy. Journal of Alloys and Compounds, 2022, 904, 164060.	5.5	49
18	Mesoporous layered hexagonal platelets of Co₃O₄ nanoparticles with (111) facets for battery applications: high performance and ultra-high rate capability. Nanoscale, 2018, 10, 1779-1787.	5.6	47

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19	Synthesis of Ammonia-Assisted Porous Nickel Ferrite (NiFe₂O₄) Nanostructures as an Electrode Material for Supercapacitors. Journal of Nanoscience and Nanotechnology, 2017, 17, 1387-1392.	0.9	44
20	Mesoporous perovskite of interlocked nickel titanate nanoparticles for efficient electrochemical supercapacitor electrode. Journal of Alloys and Compounds, 2020, 833, 155134.	5.5	44
21	Screening of microalgae for biosynthesis and optimization of Ag/AgCl nano hybrids having antibacterial effect. RSC Advances, 2019, 9, 25583-25591.	3.6	43
22	Emergence of Superconductivity in â€œ32522â€•Structure of (Ca₃Al₂O_{5â€“y})(Fe₂Pn₂) (Pn = As and) Tj1 0 0 rgBT /Ove	1.7	41
23	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
24	A brief review of Bi2Se3 based topological insulator: From fundamentals to applications. Journal of Alloys and Compounds, 2021, 888, 161492.	5.5	36
25	Surface Oxygen Vacancy Formulated Energy Storage Application: Pseudocapacitor-Battery Trait of W₁₈O₄₉ÂNanorods. Journal of the Electrochemical Society, 2019, 166, A3496-A3503.	2.9	35
26	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
27	Enhancement of two photon absorption with Ni doping in the dilute magnetic semiconductor ZnO crystalline nanorods. Applied Physics Letters, 2015, 107, .	3.3	33
28	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
29	Pseudocapacitive-battery-like behavior of cobalt manganese nickel sulfide (CoMnNiS) nanosheets grown on Ni-foam by electrodeposition for realizing high capacity. RSC Advances, 2018, 8, 40198-40209.	3.6	33
30	Structural and ferroelectric properties of perovskite Pb_(1â^'x)(K_{0.5}Sm_{0.5})_xTiO₃ ceramics. RSC Advances, 2017, 7, 39434-39442.	3.6	32
31	Controlled Zn_{1â^'x}Ni_xO nanostructures for an excellent humidity sensor and a plausible sensing mechanism. New Journal of Chemistry, 2018, 42, 8445-8457.	2.8	32
32	Oxidized Nickel films as highly transparent HTLs for inverted planar perovskite solar cells. Solar Energy, 2019, 193, 387-394.	6.1	32
33	Perforated mesoporous NiO nanostructures for an enhanced pseudocapacitive performance with ultra-high rate capability and high energy density. CrystEngComm, 2019, 21, 7130-7140.	2.6	32
34	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
35	Role of different counter electrodes on performance of TiO2 based dye-sensitized solar cell (DSSC) fabricated with dye extracted from Hibiscus Sabdariffa as sensitizer. Optical Materials, 2022, 124, 112066.	3.6	29
36	Transformation of Battery to High Performance Pseudocapacitor by the Hybridization of W₁₈O₄₉ with RuO₂ Nanostructures. Langmuir, 2021, 37, 1141-1151.	3.5	26

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37	Perovskite-Based Facile NiO/CH₃NH₃PbI₃ Heterojunction Self-Powered Broadband Photodetector. ACS Applied Electronic Materials, 2021, 3, 4548-4557.	4.3	26
38	Growth of transparent Zn1â^'Sr O (0.0 â‰¤â‰¤ 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
39	Structural distortion, ferroelectricity and ferromagnetism in Pb(Ti1â^'Fe)O3. Journal of Alloys and Compounds, 2017, 701, 619-625.	5.5	23
40	Structural assessment and irradiation response of La2Zr2O7 pyrochlore: Impact of irradiation temperature and ion fluence. Journal of Alloys and Compounds, 2021, 862, 158556.	5.5	23
41	A quarter of a century after its synthesis and with >200 papers based on its use, `Co(CO₃)_{0.5}(OH)Â·0.11H₂Oâ€² proves to be Co₆(CO₃)₂(OH)₈Â·H₂O from synchrotron powder diffraction data. Acta Crystallographica Section C, Structural Chemistry, 2019, 75, 61-64.	0.5	22
42	Effect of Cu intercalation on humidity sensing properties of Bi₂Se₃ topological insulator single crystals. Physical Chemistry Chemical Physics, 2018, 20, 28257-28266.	2.8	21
43	Phosphate-based cathode materials to boost the electrochemical performance of sodium-ion batteries. Sustainable Energy and Fuels, 2022, 6, 3114-3147.	4.9	21
44	Studies on the control of ZnO nanostructures by wet chemical method and plausible mechanism. AIP Advances, 2015, 5, 097118.	1.3	20
45	Enhancement of superconducting critical current density by Fe impurity substitution in NbSe₂ single crystals and the vortex pinning mechanism. Physical Chemistry Chemical Physics, 2017, 19, 11230-11238.	2.8	19
46	Enhancement of superconducting properties and flux pinning mechanism on Cr0.0005NbSe2 single crystal under Hydrostatic pressure. Scientific Reports, 2019, 9, 347.	3.3	19
47	Properties, performance and multidimensional applications of stable lead-free Cs2AgBiBr6 double perovskite. Materials Today Physics, 2022, 26, 100731.	6.0	19
48	Stable lead-free Cs4CuSb2Cl12 layered double perovskite solar cells yielding theoretical efficiency close to 30%. Optical Materials, 2022, 132, 112676.	3.6	19
49	ZnO nano-flowers. Materials Today, 2013, 16, 505-506.	14.2	18
50	Spitzer shaped ZnO nanostructures for enhancement of field electron emission behaviors. RSC Advances, 2018, 8, 21664-21670.	3.6	18
51	Defect Mediated W₁₈O₄₉ Nanorods Bundle for Nonenzymatic Amperometric Glucose Sensing Application. ACS Biomaterials Science and Engineering, 2020, 6, 1909-1919.	5.2	18
52	Enhancement of field electron emission in topological insulator Bi2Se3 by Ni doping. Physical Chemistry Chemical Physics, 2018, 20, 18429-18435.	2.8	17
53	Hysteresis abated P2-type NaCoO₂ cathode reveals highly reversible multiple phase transitions for high-rate sodium-ion batteries. Sustainable Energy and Fuels, 2021, 5, 3219-3228.	4.9	17
54	Discharge State of Layered P2-Type Cathode Reveals Unsafe than Charge Condition in Thermal Runaway Event for Sodium-Ion Batteries. ACS Applied Materials & Interfaces, 2021, 13, 31594-31604.	8.0	17

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55	Emergent phases of nodeless and nodal superconductivity separated by antiferromagnetic order in iron-based superconductor (Ca4Al2O6)Fe2(As1â^'xPx)2:75As- and31P-NMR studies. Physical Review B, 2013, 87, .	3.2	16
56	Electrodeposited nanostructured flakes of cobalt, manganese and nickel-based sulfide (CoMnNiS) for electrocatalytic alkaline oxygen evolution reaction (OER). Journal of Materials Science: Materials in Electronics, 2021, 32, 12292-12307.	2.2	16
57	Pressure assisted enhancement in superconducting properties of Fe substituted NbSe2 single crystal. Scientific Reports, 2018, 8, 1251.	3.3	15
58	Structural, optical and excellent humidity sensing behaviour of ZnSnO3 nanoparticles: effect of annealing. Journal of Materials Science: Materials in Electronics, 2018, 29, 10769-10783.	2.2	15
59	Synthesis, characterization and application of intracellular Ag/AgCl nanohybrids biosynthesized in Scenedesmus sp. as neutral lipid inducer and antibacterial agent. Environmental Research, 2021, 201, 111499.	7.5	15
60	Impact of Different Morphological Structures on Physical Properties of Nanostructured SnSe. Journal of Physical Chemistry C, 2018, 122, 13182-13192.	3.1	14
61	Atomic order-disorder engineering in the La2Zr2O7 pyrochlore under low energy ion irradiation. Ceramics International, 2021, 47, 20248-20259.	4.8	14
62	Structural and dielectric properties of Pb(1â^'x)(Na0.5Sm0.5) x TiO3 ceramics. Journal of Materials Science: Materials in Electronics, 2017, 28, 10730-10738.	2.2	13
63	Zn 1â^'x Si x O: Improved optical transmission and electrical conductivity. Ceramics International, 2017, 43, 5668-5673.	4.8	12
64	Studies on the fabrication of Ag/Hg1Ba2Ca1Cu2O6+Â/CdSe heterostructures using the pulse electrodeposition technique. Semiconductor Science and Technology, 2004, 19, 323-332.	2.0	11
65	X-ray structural studies on solubility of Fe substituted CuO. RSC Advances, 2016, 6, 103571-103578.	3.6	11
66	Hierarchically interconnected ZnO nanowires for low-temperature-operated reducing gas sensors: experimental and DFT studies. New Journal of Chemistry, 2021, 45, 1404-1414.	2.8	11
67	Layered NaxCoO2-based cathodes for advanced Na-ion batteries: review on challenges and advancements. Ionics, 2021, 27, 4549-4572.	2.4	11
68	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
69	Effect of Cr atoms in vortex dynamics of NbSe₂ superconductor and study of second magnetization peak effect. Materials Research Express, 2018, 5, 076001.	1.6	10
70	Disappearance of Superconductivity in the Solid Solution between (Ca4Al2O6)(Fe2As2) and (Ca4Al2O6)(Fe2P2) Superconductors. Journal of the American Chemical Society, 2012, 134, 15181-15184.	13.7	9
71	Coexistence of superconductivity and ferromagnetism in defect-induced NbSe2 single crystals. Journal of Materials Science, 2019, 54, 11903-11912.	3.7	9
72	Controlled Heteroâ€Architectures of Auâ€Nanoparticlesâ€Decorated ZnO Nanowires for Enhanced Field Electron Emission Displays. ChemistrySelect, 2018, 3, 7891-7899.	1.5	8

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73	Irreversibility line and flux pinning properties in a multilayered cuprate superconductor of Ba₂Ca₃Cu₄O₈(O,F)₂(<i>T</i>_c=) Tj ET Qq1 1 0.78431	3.5	7
74	The critical current density, irreversibility line, and flux pinning properties of Ba2CaCu2O4(O,F)2 high-Tc superconductor. Journal of Applied Physics, 2010, 107, 093905.	2.5	5
75	Study of transport properties in Se-deficient and Fe-intercalated NbSe2 single crystals: experiment and theory. Journal of Materials Science, 2020, 55, 250-262.	3.7	5
76	Iron isotope effect in SmFeAsO0.65and SmFeAsO0.77H0.12superconductors: A Raman study. AIP Advances, 2016, 6, 105310.	1.3	4
77	Synthesis of humidity sensitive zinc stannate nanomaterials and modelling of Freundlich adsorption isotherm model. AIP Conference Proceedings, 2018, , .	0.4	4
78	Influence of pressure on the transport, magnetic, and structural properties of superconducting Cr0.0009NbSe2 single crystal. RSC Advances, 2020, 10, 13112-13125.	3.6	4
79	Two-Dimensional Mesoporous Carbon Electrode for High Energy Density Electrochemical Supercapacitors. Journal of Nanoscience and Nanotechnology, 2015, 15, 1253-1260.	0.9	3
80	Second magnetization peak effect and the vortex phase diagram of V0.0015NbSe2 single crystal. Journal of Magnetism and Magnetic Materials, 2020, 507, 166817.	2.3	3
81	Temperature dependent I-V characteristics of Ni doped topological insulator Bi2Se3 nanoparticles. AIP Conference Proceedings, 2019, , .	0.4	2
82	Synthesis and humidity sensing behaviour of Cu-intercalated Bi2Se3 topological insulator single crystals. AIP Conference Proceedings, 2019, , .	0.4	2
83	Electrical and Magnetic Properties of Copper-Intercalated Topological Insulator Bi2Se3 Single Crystal. Journal of Superconductivity and Novel Magnetism, 2020, 33, 847-857.	1.8	2
84	Near edge absorption studies of pure and impure $$hbox {NbSe}_{2}$$; theory and experiment. Journal of Materials Science, 2021, 56, 17062-17079.	3.7	2
85	Structural and Mechanical Characterization of Si Doped ZnO. Journal of Nanoscience and Nanotechnology, 2017, 17, 1806-1812.	0.9	1
86	Influence of Si incorporation on mechanical properties of ZnO particles. AIP Conference Proceedings, 2017, , .	0.4	0
87	Synthesis and electrical properties of Li[Ni1/3Mn1/3Co1/3]O2. AIP Conference Proceedings, 2017, , .	0.4	0
88	Study of vortex dynamics in V0.001NbSe2 superconductor. AIP Conference Proceedings, 2019, , .	0.4	0
89	Disordering Induced Second Magnetization Peak Effect and the Vortex Pinning Mechanism in V0.0007NbSe2 Single Crystal. Journal of Superconductivity and Novel Magnetism, 2020, 33, 2679-2689.	1.8	0
90	Engineering the opticaland magnetic properties of Zn doped CoFe2O4 nanoparticles. AIP Conference Proceedings, 2020, , .	0.4	0