

# Hp Nagaswarupa

## List of Publications by Year in descending order

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88  
papers

3,077  
citations

101543

36  
h-index

168389

53  
g-index

88  
all docs

88  
docs citations

88  
times ranked

2181  
citing authors

#	ARTICLE	IF	CITATIONS
1	Sonochemical synthesis of MnFe <sub>2</sub> O <sub>4</sub> nanoparticles and their electrochemical and photocatalytic properties. <i>Journal of Physics and Chemistry of Solids</i> , 2021, 148, 109661.	4.0	60
2	Development of Co-doped MnFe <sub>2</sub> O <sub>4</sub> nanoparticles for electrochemical supercapacitors. <i>Ceramics International</i> , 2021, 47, 10268-10273.	4.8	19
3	Evaluation of bifunctional applications of CuFe <sub>2</sub> O <sub>4</sub> nanoparticles synthesized by a sonochemical method. <i>Journal of Physics and Chemistry of Solids</i> , 2021, 148, 109756.	4.0	44
4	Centella asiatica and its carbonaceous composites as novel materials for photocatalytic and electrochemical applications. <i>Materials Today: Proceedings</i> , 2021, 46, 5936-5941.	1.8	1
5	MgNb <sub>2</sub> O <sub>6</sub> :Dy <sup>3+</sup> nanophosphor: A facile preparation, down conversion photoluminescence and UV driven photocatalytic properties. <i>Ceramics International</i> , 2021, 47, 10370-10380.	4.8	15
6	Facile chemical synthesis of Ca <sub>3</sub> MgAl <sub>10</sub> O <sub>17</sub> nanomaterials for photocatalytic and non-enzymatic sensor applications. <i>Sensors International</i> , 2021, 2, 100082.	8.4	7
7	NiO bio-composite materials: Photocatalytic, electrochemical and supercapacitor applications. <i>Applied Surface Science Advances</i> , 2021, 3, 100049.	6.8	24
8	Synthesis of BMA NPs using aloe vera gel for their electrochemical, biological and photocatalytic studies. <i>Journal of Photochemistry and Photobiology</i> , 2021, 6, 100017.	2.5	7
9	Harnessing ZnO nanoparticles for antimicrobial and photocatalytic activities. <i>Journal of Photochemistry and Photobiology</i> , 2021, 6, 100021.	2.5	20
10	Fabrication of carbonized flakes epoxy electrode using lemon rind for supercapacitor applications. <i>Case Studies in Chemical and Environmental Engineering</i> , 2021, 3, 100090.	6.1	2
11	Development of clay ferrite nanocomposite: Electrochemical, sensors and photocatalytic studies. <i>Applied Surface Science Advances</i> , 2021, 5, 100103.	6.8	24
12	Electrochemical sensor studies and optical analysis of developed clay based CoFe <sub>2</sub> O <sub>4</sub> ferrite NPs. <i>Sensors International</i> , 2021, 2, 100083.	8.4	28
13	Facile green synthesis of silver oxide nanoparticles and their electrochemical, photocatalytic and biological studies. <i>Inorganic Chemistry Communication</i> , 2020, 111, 107580.	3.9	101
14	Jatropha extract mediated synthesis of ZnFe <sub>2</sub> O <sub>4</sub> nanopowder: Excellent performance as an electrochemical sensor, UV photocatalyst and an antibacterial activity. <i>Chemical Physics Letters</i> , 2020, 739, 136980.	2.6	63
15	Sonochemical synthesis of NiFe <sub>2</sub> O <sub>4</sub> nanoparticles: Characterization and their photocatalytic and electrochemical applications. <i>Applied Surface Science Advances</i> , 2020, 1, 100023.	6.8	69
16	Photocatalytic and electrochemical sensor for direct detection of paracetamol comprising $\gamma$ -aluminium oxide nanoparticles synthesized via sonochemical route. <i>Sensors International</i> , 2020, 1, 100039.	8.4	36
17	Lanthanum Doped Strontium Titanate Nanomaterial for Photocatalytic and Supercapacitor Applications. <i>Asian Journal of Chemistry</i> , 2020, 32, 2013-2020.	0.3	6
18	Probe sonication synthesis of ZnFe <sub>2</sub> O <sub>4</sub> NPs for the photocatalytic degradation of dyes and effect of treated wastewater on growth of plants. <i>Chemical Physics Letters</i> , 2020, 745, 137286.	2.6	45

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19	Study of Green and Chemical Methods for Synthesis of Nano Spinel MgFe <sub>2</sub> O <sub>4</sub> and its Study on Degradation of Rose Bengal Dye. Asian Journal of Chemistry, 2020, 32, 501-507.	0.3	0
20	Electrochemical and Photocatalytic Properties of Green Nickel Oxide Nanomaterial Synthesized using Plectranthus Amboinicus Plant Leaf Extract. Advanced Materials Letters, 2020, 11, 1-6.	0.6	9
21	Enhanced photocatalytic and electrochemical properties of Cu doped NiMnFe <sub>2</sub> O <sub>4</sub> nanoparticles synthesized via probe sonication method. Applied Surface Science Advances, 2020, 2, 100038.	6.8	19
22	Cyclic voltammetry and electrochemical impedance spectroscopy analysis of Cr <sup>3+</sup> doped Mg <sub>2</sub> SiO <sub>4</sub> nanoparticles. Material Science Research India, 2020, 17, 207-213.	0.7	0
23	Evaluation of bi-functional applications of ZnO nanoparticles prepared by green and chemical methods. Journal of Environmental Chemical Engineering, 2019, 7, 103468.	6.7	61
24	Nano CuO: Electrochemical sensor for the determination of paracetamol and d-glucose. Journal of Physics and Chemistry of Solids, 2019, 134, 193-200.	4.0	104
25	Fabrication of MgFe <sub>2</sub> O <sub>4</sub> -ZnO Nanocomposites for Photocatalysis of Organic Pollutants under Solar Light Radiation. Asian Journal of Chemistry, 2019, 31, 2995-3003.	0.3	2
26	Sunlight photocatalytic performance of Mg-doped nickel ferrite synthesized by a green sol-gel route. Journal of Science: Advanced Materials and Devices, 2019, 4, 89-100.	3.1	24
27	Green engineered nano MgO and ZnO doped with Sm <sup>3+</sup> : Synthesis and a comparison study on their characterization, PC activity and electrochemical properties. Journal of Physics and Chemistry of Solids, 2019, 127, 127-139.	4.0	50
28	Multi-functional Zn <sub>2</sub> TiO <sub>4</sub> :Sm <sup>3+</sup> nanopowders: Excellent performance as an electrochemical sensor and an UV photocatalyst. Journal of Science: Advanced Materials and Devices, 2018, 3, 151-160.	3.1	20
29	CuO embedded $\beta$ -Ni(OH) <sub>2</sub> nanocomposite as advanced electrode materials for supercapacitors. Journal of Alloys and Compounds, 2018, 736, 332-339.	5.5	70
30	Photocatalytic Studies of MgO Nano Powder; Synthesized by Green Mediated Route. Materials Today: Proceedings, 2018, 5, 22221-22228.	1.8	23
31	Green Mediated Synthesis of MgO Nano-Flakes and Its Electro-Chemical Applications. Materials Today: Proceedings, 2018, 5, 22275-22282.	1.8	10
32	Deposition & Electrochemical characterization of Multilayer coated electrode material for super capacitor application. Materials Today: Proceedings, 2018, 5, 21452-21457.	1.8	5
33	Comparison Study of Solgel and Combustion Method for Synthesis Nano Spinel MgFe <sub>2</sub> O <sub>4</sub> and its Influence on Electrochemical Activity. Materials Today: Proceedings, 2018, 5, 22362-22367.	1.8	13
34	Fabrication and Hierarchical Structure of ZnO Nano Particle Using Green Fuels: Cyclic Voltammetry and Impedance Analysis. Materials Today: Proceedings, 2018, 5, 22547-22553.	1.8	2
35	Acid Activation of Bentonite Clay under Microwave Irradiation: Characterization, Cyclic Voltammetry and Photocatalytic activity. Materials Today: Proceedings, 2018, 5, 22643-22651.	1.8	4
36	Electrochemical Enhancement of Nickel oxide Dispersed Graphene Sheets as Electrode Material for Energy Storage Application. Materials Today: Proceedings, 2018, 5, 22554-22560.	1.8	1

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37	Influence of zinc additive and pH on the electrochemical activities of $\text{Ni}^{2+}$ -nickel hydroxide materials and its applications in secondary batteries. <i>Journal of Energy Storage</i> , 2017, 9, 12-24.	8.1	72
38	White light emitting lanthanum aluminate nanophosphor: Near ultra violet excited photoluminescence and photometric characteristics. <i>Journal of Luminescence</i> , 2017, 190, 279-288.	3.1	24
39	A simple combustion method for the synthesis of multi-functional $\text{ZrO}_2/\text{CuO}$ nanocomposites: Excellent performance as Sunlight photocatalysts and enhanced latent fingerprint detection. <i>Applied Catalysis B: Environmental</i> , 2017, 210, 97-115.	20.2	89
40	A benign approach for tailoring the photometric properties and Judd-Ofelt analysis of $\text{LaAlO}_3:\text{Sm}^{3+}$ nanophosphors for thermal sensor and WLED applications. <i>Sensors and Actuators B: Chemical</i> , 2017, 243, 1057-1066.	7.8	72
41	White light emitting magnesium aluminate nanophosphor: Near ultra violet excited photoluminescence, photometric characteristics and its UV photocatalytic activity. <i>Journal of Alloys and Compounds</i> , 2017, 728, 1124-1138.	5.5	77
42	A comparative study on the structural, optical, electrochemical and photocatalytic properties of $\text{ZrO}_2$ nanoxide synthesized by different routes. <i>Journal of Alloys and Compounds</i> , 2017, 695, 382-395.	5.5	59
43	Designing $\text{MgFe}_2\text{O}_4$ decorated on green mediated reduced graphene oxide sheets showing photocatalytic performance and luminescence property. <i>Physica B: Condensed Matter</i> , 2017, 507, 67-75.	2.7	30
44	Microwave assisted physico-chemical modification of Bentonite clay: characterization and photocatalytic activity. <i>Materials Today: Proceedings</i> , 2017, 4, 11727-11736.	1.8	11
45	Synthesis, Diffuse reflectance, Electrical and Photoluminescence properties of nanocrystalline $\text{Eu}^{3+}$ -doped $\text{GdAlO}_3$ via Combustion method. <i>Materials Today: Proceedings</i> , 2017, 4, 11706-11712.	1.8	18
46	NUV excited luminescence studies of $\text{Tb}^{3+}$ in $\text{CaTiO}_3$ nanophosphor for wLEDs. <i>Materials Today: Proceedings</i> , 2017, 4, 11720-11726.	1.8	3
47	UV - Sun light Photocatalytic and photoluminescence Studies of Rare-Earth-Doped ( $\text{Sm}^{3+}$ ) $\text{MgO}$ nanopowders by Aloe Vera gel. <i>Materials Today: Proceedings</i> , 2017, 4, 11737-11746.	1.8	2
48	Photocatalytic and Photoluminescence studies of $\text{ZrO}_2/\text{ZnO}$ nanocomposite for LED and Waste water treatment applications. <i>Materials Today: Proceedings</i> , 2017, 4, 11747-11755.	1.8	14
49	Photocatalytic study for fabricated Ag doped and undoped $\text{MgFe}_2\text{O}_4$ nanoparticles. <i>Materials Today: Proceedings</i> , 2017, 4, 11764-11772.	1.8	15
50	Synthesis of Sunlight Driven $\text{ZnO}/\text{CuO}$ Nanocomposite: Characterization, Optical, Electrochemical and Photocatalytic Studies. <i>Materials Today: Proceedings</i> , 2017, 4, 11782-11790.	1.8	12
51	Molten Salt Synthesis of Nanocrystalline $\text{ZnFe}_2\text{O}_4$ and Its Photocatalytic Dye Degradation Studies. <i>Materials Today: Proceedings</i> , 2017, 4, 11816-11819.	1.8	9
52	Synthesis and Photoluminescence Studies of an Orange Red Color Emitting novel $\text{CaAl}_2\text{O}_4:\text{Sm}^{3+}$ nanophosphor for LED Applications. <i>Materials Today: Proceedings</i> , 2017, 4, 11820-11826.	1.8	10
53	Photocatalytic and Photoluminescence studies of $\text{ZnO}$ nanomaterials by Banana peel powder. <i>Materials Today: Proceedings</i> , 2017, 4, 11827-11836.	1.8	9
54	Photoluminescence Studies of Rare-Earth-Doped ( $\text{Ce}^{3+}$ ) $\text{LaAlO}_3$ nanopowders prepared by facile combustion route. <i>Materials Today: Proceedings</i> , 2017, 4, 11848-11856.	1.8	4

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55	Synthesis and Characterization of Low Cost MgO Nanoparticle for the Assessment of the corrosion performance on Aluminium 6065. <i>Materials Today: Proceedings</i> , 2017, 4, 12118-12124.	1.8	5
56	Electrochemical Studies of Nano Metal Oxide Reinforced Nickel Hydroxide Materials for Energy Storage Applications. <i>Materials Today: Proceedings</i> , 2017, 4, 12205-12214.	1.8	26
57	Novel MgTiO <sub>3</sub> :Eu <sup>3+</sup> Nanophosphor Its Photometric Analysis for Multifunctional Applications. <i>Materials Today: Proceedings</i> , 2017, 4, 12306-12313.	1.8	7
58	Cyclic Voltammetry and Electrochemical Impedance Spectral Properties of MnO <sub>2</sub> Obtained by Waste Discarded Batteries Using Eco-Friendly Leaching Materials. <i>Asian Journal of Chemistry</i> , 2017, 29, 2016-2024.	0.3	3
59	Microstructure and Electrochemical Distinctiveness of b-Nickel Hydroxide by means of Zinc Additive and pH. <i>Asian Journal of Chemistry</i> , 2016, 28, 575-580.	0.3	4
60	Influence of Zinc Additive and pH on Electrochemical Behaviour of b-Nickel Hydroxide in Nickel Based Secondary Batteries. <i>Asian Journal of Chemistry</i> , 2016, 28, 221-229.	0.3	4
61	Caralluma fimbriata extract induced green synthesis, structural, optical and photocatalytic properties of ZnO nanostructure modified with Gd. <i>Journal of Alloys and Compounds</i> , 2016, 685, 656-669.	5.5	41
62	Effect of fuel on auto ignition route, photoluminescence and photometric studies of tunable red emitting Mg <sub>2</sub> SiO <sub>4</sub> :Cr <sup>3+</sup> nanophosphors for solid state lighting applications. <i>Journal of Alloys and Compounds</i> , 2016, 682, 815-824.	5.5	35
63	Bio-mediated Sm doped nano cubic zirconia: Photoluminescent, Judd–Ofelt analysis, electrochemical impedance spectroscopy and photocatalytic performance. <i>Journal of Alloys and Compounds</i> , 2016, 685, 761-773.	5.5	53
64	Hollow microspheres Mg-doped ZrO <sub>2</sub> nanoparticles: Green assisted synthesis and applications in photocatalysis and photoluminescence. <i>Journal of Alloys and Compounds</i> , 2016, 672, 609-622.	5.5	101
65	Tunable white light emissive Mg <sub>2</sub> SiO <sub>4</sub> :Dy <sup>3+</sup> nanophosphor: Its photoluminescence, Judd–Ofelt and photocatalytic studies. <i>Dyes and Pigments</i> , 2016, 127, 25-36.	3.7	56
66	Spectroscopic and photoluminescence properties of MgO:Cr <sup>3+</sup> nanosheets for WLEDs. <i>Displays</i> , 2016, 41, 16-24.	3.7	12
67	Synthesis and characterization of nano ZnO and MgO powder by low temperature solution combustion method: studies concerning electrochemical and photocatalytic behavior. <i>Nanosystems: Physics, Chemistry, Mathematics</i> , 2016, , 662-666.	0.4	5
68	ZnO decorated graphene nanosheets: an advanced material for the electrochemical performance and photocatalytic degradation of organic dyes. <i>Nanosystems: Physics, Chemistry, Mathematics</i> , 2016, , 678-682.	0.4	5
69	Bio-inspired route for the synthesis of spherical shaped MgO:Fe <sup>3+</sup> nanoparticles: Structural, photoluminescence and photocatalytic investigation. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2015, 149, 703-713.	3.9	52
70	A single phase, red emissive Mg <sub>2</sub> SiO <sub>4</sub> :Sm <sup>3+</sup> nanophosphor prepared via rapid propellant combustion route. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2015, 140, 516-523.	3.9	40
71	Luminescence properties of MgO: Fe <sup>3+</sup> nanopowders for WLEDs under NUV excitation prepared via propellant combustion route. <i>Journal of Radiation Research and Applied Sciences</i> , 2015, 8, 362-373.	1.2	37
72	Photoluminescence and Judd–Ofelt analysis of Eu <sup>3+</sup> doped LaAlO <sub>3</sub> nanophosphors for WLEDs. <i>Dyes and Pigments</i> , 2015, 122, 22-30.	3.7	61

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73	Bio-mediated route for the synthesis of shape tunable Y <sub>2</sub> O <sub>3</sub> : Tb <sup>3+</sup> nanoparticles: Photoluminescence and antibacterial properties. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2015, 151, 131-140.	3.9	53
74	Facile combustion synthesized orthorhombic GdAlO <sub>3</sub> :Eu <sup>3+</sup> nanophosphors: Structural and photoluminescence properties for WLEDs. <i>Journal of Luminescence</i> , 2015, 163, 47-54.	3.1	39
75	Green synthesis of Y <sub>2</sub> O <sub>3</sub> :Dy <sup>3+</sup> nanophosphor with enhanced photocatalytic activity. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2015, 149, 687-697.	3.9	47
76	Synthesis of Eu <sup>3+</sup> -activated ZnO superstructures: Photoluminescence, Juddâ€“Ofelt analysis and Sunlight photocatalytic properties. <i>Journal of Molecular Catalysis A</i> , 2015, 409, 26-41.	4.8	42
77	Zn <sub>2</sub> TiO <sub>4</sub> :Eu <sup>3+</sup> nanophosphor: Self explosive route and its near UV excited photoluminescence properties for WLEDs. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2015, 138, 857-865.	3.9	47
78	Facile green fabrication of iron-doped cubic ZrO <sub>2</sub> nanoparticles by <i>Phyllanthus acidus</i> : Structural, photocatalytic and photoluminescent properties. <i>Journal of Molecular Catalysis A</i> , 2015, 397, 36-47.	4.8	81
79	Phase transformation of ZrO <sub>2</sub> :Tb <sup>3+</sup> nanophosphor: Color tunable photoluminescence and photocatalytic activities. <i>Journal of Alloys and Compounds</i> , 2015, 622, 86-96.	5.5	87
80	Combustion synthesized tetragonal ZrO <sub>2</sub> : Eu <sup>3+</sup> nanophosphors: Structural and photoluminescence studies. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2015, 135, 241-251.	3.9	124
81	Design, synthesis and structureâ€“activity relationship (SAR) studies of imidazo[4,5-b]pyridine derived purine isosteres and their potential as cytotoxic agents. <i>European Journal of Medicinal Chemistry</i> , 2015, 89, 21-31.	5.5	33
82	Structural, photo and thermoluminescence studies of Eu <sup>3+</sup> doped orthorhombic YAlO <sub>3</sub> nanophosphors. <i>Journal of Alloys and Compounds</i> , 2014, 601, 75-84.	5.5	45
83	Synthesis, structural and luminescence studies of magnesium oxide nanopowder. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2014, 118, 847-851.	3.9	94
84	Regioselective synthesis of C-2 substituted imidazo[4,5-b]pyridines utilizing palladium catalysed Câ€“N bond forming reactions with enolizable heterocycles. <i>Tetrahedron Letters</i> , 2014, 55, 1778-1783.	1.4	19
85	Mg <sub>2</sub> SiO <sub>4</sub> :Tb <sup>3+</sup> nanophosphor: Auto ignition route and near UV excited photoluminescence properties for WLEDs. <i>Journal of Alloys and Compounds</i> , 2014, 617, 69-75.	5.5	74
86	MgO:Dy <sup>3+</sup> nanophosphor: Self ignition route, characterization and its photoluminescence properties. <i>Materials Characterization</i> , 2014, 97, 27-36.	4.4	58
87	MgO:Eu <sup>3+</sup> red nanophosphor: Low temperature synthesis and photoluminescence properties. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2014, 121, 46-52.	3.9	63
88	Low temperature synthesis and photoluminescence properties of red emitting Mg <sub>2</sub> SiO <sub>4</sub> :Eu <sup>3+</sup> nanophosphor for near UV light emitting diodes. <i>Sensors and Actuators B: Chemical</i> , 2014, 195, 140-149.	7.8	106