

Vivekanandhan Singaravelu

List of Publications by Year in descending order

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42
papers

1,300
citations

394421

19
h-index

361022

35
g-index

44
all docs

44
docs citations

44
times ranked

1686
citing authors

#	ARTICLE	IF	CITATIONS
1	Soybean (&i&t&t;Glycine Max&i&t&t;) Leaf Extract Based Green Synthesis of Palladium Nanoparticles. Journal of Biomaterials and Nanobiotechnology, 2012, 03, 14-19.	0.5	162
2	Biosynthesis of silver nanoparticles using murraya koenigii (curry leaf): An investigation on the effect of broth concentration in reduction mechanism and particle size. Advanced Materials Letters, 2011, 2, 429-434.	0.6	158
3	Recent advances and emerging opportunities in phytochemical synthesis of ZnO nanostructures. Materials Science in Semiconductor Processing, 2018, 80, 143-161.	4.0	80
4	Green Process for Impregnation of Silver Nanoparticles into Microcrystalline Cellulose and Their Antimicrobial Bionanocomposite Films. Journal of Biomaterials and Nanobiotechnology, 2012, 03, 371-376.	0.5	63
5	Biological Synthesis of Silver Nanoparticles Using Glycine max (Soybean) Leaf Extract: An Investigation on Different Soybean Varieties. Journal of Nanoscience and Nanotechnology, 2009, 9, 6828-33.	0.9	57
6	Oxidative acid treatment and characterization of new biocarbon from sustainable Miscanthus biomass. Science of the Total Environment, 2016, 550, 241-247.	8.0	56
7	Maple leaf (Acer sp.) extract mediated green process for the functionalization of ZnO powders with silver nanoparticles. Colloids and Surfaces B: Biointerfaces, 2014, 113, 169-175.	5.0	52
8	Plantâ€Mediated Biogenic Synthesis of Palladium Nanoparticles: Recent Trends and Emerging Opportunities. ChemBioEng Reviews, 2017, 4, 18-36.	4.4	50
9	Electrospun green fibres from lignin and chitosan: a novel polycomplexation process for the production of lignin-based fibres. Journal of Materials Science, 2014, 49, 7949-7958.	3.7	48
10	Carbon nanotubes from renewable feedstocks: A move toward sustainable nanofabrication. Journal of Applied Polymer Science, 2017, 134, .	2.6	47
11	Synthesis and characterization of nanocrystalline LiNi0.5Co0.5VO4 powders by citric acid assisted solâ€gel combustion process. Journal of Alloys and Compounds, 2008, 462, 328-334.	5.5	37
12	Novel urea assisted polymeric citrate route for the synthesis of nanocrystalline spinel LiMn2O4 powders. Journal of Alloys and Compounds, 2007, 441, 284-290.	5.5	35
13	Effect of ethylene glycol on polyacrylic acid based combustion process for the synthesis of nano-crystalline nickel ferrite (NiFe2O4). Materials Letters, 2004, 58, 2717-2720.	2.6	30
14	Effect of different ethylene glycol precursors on the Pechini process for the synthesis of nano-crystalline LiNi0.5Co0.5VO4 powders. Materials Chemistry and Physics, 2005, 91, 54-59.	4.0	29
15	Glycerol-assisted gel combustion synthesis of nano-crystalline LiNiVO4 powders for secondary lithium batteries. Materials Letters, 2004, 58, 1218-1222.	2.6	27
16	Novel approach for the bulk synthesis of nanocrystalline yttria doped thoria powders via polymeric precursor routes. Journal of Nuclear Materials, 2004, 325, 134-140.	2.7	23
17	Biocarbons as emerging and sustainable hydrophobic/oleophilic sorbent materials for oil/water separation. Sustainable Materials and Technologies, 2021, 28, e00268.	3.3	23
18	Jatropha Oil Cake Based Activated Carbon for Symmetric Supercapacitor Application: A Comparative Study on Conventional and Hydrothermal Carbonization Processes. ChemistrySelect, 2020, 5, 1375-1384.	1.5	22

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19	Effect of calcining temperature on the electrochemical performance of nanocrystalline LiMn ₂ O ₄ powders prepared by polyethylene glycol (PEG-400) assisted Pechini process. <i>Materials Letters</i> , 2006, 60, 3212-3216.	2.6	20
20	Microscopic, structural, and electrical characterization of the carbonaceous materials synthesized from various lignin feedstocks. <i>Journal of Applied Polymer Science</i> , 2015, 132, .	2.6	19
21	Sustainable biocarbon materials derived from <i>Lessonia Trabeculata</i> macroalgae biomass residue for supercapacitor applications. <i>Energy Storage</i> , 2021, 3, e222.	4.3	19
22	Modification techniques to improve the capacitive performance of biocarbon materials. <i>Journal of Energy Storage</i> , 2021, 33, 101870.	8.1	18
23	Thermal, mechanical, and morphological investigation of injection molded poly(trimethylene) Tj ETQq1 1 0.784314,rgBT /Overlock 10	4.8	17
24	Green Synthesis of Silver Nanoparticles and Their Effective Utilization in Fabricating Functional Surface for Antibacterial Activity Against Multi-Drug Resistant <i>Proteus mirabilis</i> . <i>Journal of Cluster Science</i> , 2019, 30, 1403-1414.	3.3	17
25	Functionalization of single-walled carbon nanotubes with silver nanoparticles using <i>Tecoma stans</i> leaf extract. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2012, 44, 1725-1729.	2.7	16
26	Leaf extract mediated biogenic process for the decoration of graphene with silver nanoparticles. <i>Materials Letters</i> , 2016, 178, 115-119.	2.6	16
27	Acrylamide assisted polymeric citrate route for the synthesis of nanocrystalline ZrO ₂ powder. <i>Materials Chemistry and Physics</i> , 2010, 120, 148-154.	4.0	15
28	Hydrothermal synthesis, characterization and seed germination effects of green-emitting graphene oxide-carbon dot composite using brown macroalgal bio-oil as precursor. <i>Journal of Chemical Technology and Biotechnology</i> , 2019, 94, 3269-3275.	3.2	15
29	Novel Glycine Max (Soybean) Leaf Extract Based Biological Process for the Functionalization of Carbon Nanotubes with Silver Nanoparticles. <i>Nanoscience and Nanotechnology Letters</i> , 2010, 2, 240-243.	0.4	15
30	Ammonium carboxylates assisted combustion process for the synthesis of nanocrystalline LiCoO ₂ powders. <i>Materials Chemistry and Physics</i> , 2008, 109, 241-248.	4.0	14
31	Synthesis and characterization of AgNP:ZrO ₂ functional nanomaterials by leaf extract assisted bioreduction process. <i>Ceramics International</i> , 2015, 41, 3305-3311.	4.8	14
32	<i>Tecoma stans</i> flower extract assisted biogenic synthesis of functional Ag-Talc nanostructures for antimicrobial applications. <i>Bioresource Technology Reports</i> , 2019, 7, 100298.	2.7	13
33	Neem (<i>Azadirachta indica</i>) gum assisted sol-gel synthesis and characterization of ZnO nanoparticles for photocatalytic application. <i>Journal of the Australian Ceramic Society</i> , 2019, 55, 433-442.	1.9	13
34	Functionalization of kaolin clay with silver nanoparticles by <i>Murraya koenigii</i> fruit extract-mediated bioreduction process for antimicrobial applications. <i>Journal of the Australian Ceramic Society</i> , 2021, 57, 505-513.	1.9	11
35	Phytochemical Process for the Functionalization of Materials with Metal Nanoparticles: Current Trends and Future Perspectives. <i>ChemistrySelect</i> , 2018, 3, 13561-13585.	1.5	9
36	Novel puffball (<i>Lycoperdon Sp.</i>) spores derived hierarchical nanostructured Biocarbon: A preliminary investigation on thermochemical conversion and characterization for supercapacitor applications. <i>Materials Letters</i> , 2021, 291, 129432.	2.6	8

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37	Combustion Process Using Plant-Based Fuels for the Synthesis of Metal-Oxide Nanostructures. ChemistrySelect, 2019, 4, 8026-8042.	1.5	6
38	Synthesis of nanocrystalline LiCoO_2 powders by polymeric combustion process: an investigation on the effect of different carboxylic acids as fuel. International Journal of Higher Education Management, 2015, 1, 105-112.	1.3	5
39	Oil Cakes as Sustainable Agro-Industrial Feedstock for Biocarbon Materials. ChemBioEng Reviews, 2022, 9, 21-41.	4.4	5
40	Carbon Dots from Renewable Resources: A Review on Precursor Choices and Potential Applications. Advanced Structured Materials, 2020, , 159-208.	0.5	3
41	Biosynthesized transition metal oxide nanostructures for photocatalytic degradation of organic dyes. , 2022, , 417-460.		1
42	Surface modification and characterization of nanocrystalline $\text{LiNi}_{0.5}\text{Co}_{0.5}\text{VO}_4$ with Dy_2O_3 by polymeric resin process. International Journal of Higher Education Management, 2015, 1, 100-104.	1.3	0