

Vigneshwaran Nadanathangam

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3511361/publications.pdf>

Version: 2024-02-01

54
papers

4,471
citations

236612

25
h-index

205818

48
g-index

56
all docs

56
docs citations

56
times ranked

5788
citing authors

#	ARTICLE	IF	CITATIONS
1	Biological synthesis of silver nanoparticles using the fungus <i>Aspergillus flavus</i> . <i>Materials Letters</i> , 2007, 61, 1413-1418.	1.3	747
2	A novel one-pot "green"™ synthesis of stable silver nanoparticles using soluble starch. <i>Carbohydrate Research</i> , 2006, 341, 2012-2018.	1.1	582
3	Functional finishing of cotton fabrics using zinc oxide-soluble starch nanocomposites. <i>Nanotechnology</i> , 2006, 17, 5087-5095.	1.3	420
4	Functional finishing in cotton fabrics using zinc oxide nanoparticles. <i>Bulletin of Materials Science</i> , 2006, 29, 641-645.	0.8	374
5	Biomimetics of silver nanoparticles by white rot fungus, <i>Phaenerochaete chrysosporium</i> . <i>Colloids and Surfaces B: Biointerfaces</i> , 2006, 53, 55-59.	2.5	321
6	Preparation and characterization of cellulose nanowhiskers from cotton fibres by controlled microbial hydrolysis. <i>Carbohydrate Polymers</i> , 2011, 83, 122-129.	5.1	229
7	Functional Finishing of Cotton Fabrics Using Silver Nanoparticles. <i>Journal of Nanoscience and Nanotechnology</i> , 2007, 7, 1893-1897.	0.9	223
8	Silver-Protein (Core-Shell) Nanoparticle Production Using Spent Mushroom Substrate. <i>Langmuir</i> , 2007, 23, 7113-7117.	1.6	191
9	Spectroscopic characterization of zinc oxide nanorods synthesized by solid-state reaction. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2006, 65, 173-178.	2.0	120
10	A novel process for synthesis of spherical nanocellulose by controlled hydrolysis of microcrystalline cellulose using anaerobic microbial consortium. <i>Enzyme and Microbial Technology</i> , 2013, 52, 20-25.	1.6	110
11	Nanocellulose-Polymer Composites for Applications in Food Packaging: Current Status, Future Prospects and Challenges. <i>Polymer-Plastics Technology and Engineering</i> , 2017, 56, 805-823.	1.9	106
12	Preparation of nano cellulose fibers and its application in kappa-carrageenan based film. <i>International Journal of Biological Macromolecules</i> , 2012, 51, 1008-1013.	3.6	95
13	Functional behaviour of polypropylene/ZnO-soluble starch nanocomposites. <i>Nanotechnology</i> , 2007, 18, 385702.	1.3	87
14	Mechanical, antibacterial and biodegradable properties of starch film containing bacteriocin immobilized crystalline nanocellulose. <i>Carbohydrate Polymers</i> , 2019, 222, 115021.	5.1	74
15	Nanofibrillation of cotton fibers by disc refiner and its characterization. <i>Fibers and Polymers</i> , 2011, 12, 399-404.	1.1	65
16	Effects of Nanoparticles on Plant Growth-Promoting Bacteria in Indian Agricultural Soil. <i>Agronomy</i> , 2019, 9, 140.	1.3	61
17	Durable multifunctional finishing of cotton fabrics by in situ synthesis of nano-ZnO. <i>Applied Surface Science</i> , 2016, 390, 936-940.	3.1	56
18	Energy Efficient Manufacturing of Nanocellulose by Chemo- and Bio-Mechanical Processes: A Review. <i>World Journal of Nano Science and Engineering</i> , 2015, 05, 204-212.	0.3	53

#	ARTICLE	IF	CITATIONS
19	Extraction of nanolignin from coconut fibers by controlled microbial hydrolysis. <i>Industrial Crops and Products</i> , 2017, 109, 420-425.	2.5	45
20	Toxicological effects of TiO ₂ nanoparticles on plant growth promoting soil bacteria. <i>Emerging Contaminants</i> , 2020, 6, 87-92.	2.2	45
21	Functional behaviour of paper coated with zinc oxide soluble starch nanocomposites. <i>Journal of Materials Processing Technology</i> , 2010, 210, 1962-1967.	3.1	43
22	Effect of Fenton's pretreatment on cotton cellulosic substrates to enhance its enzymatic hydrolysis response. <i>Bioresource Technology</i> , 2012, 103, 219-226.	4.8	41
23	Effect of Gum arabic on distribution behavior of nanocellulose fillers in starch film. <i>Applied Nanoscience (Switzerland)</i> , 2011, 1, 137-142.	1.6	36
24	Preparation of cotton linter nanowhiskers by high-pressure homogenization process and its application in thermoplastic starch. <i>Applied Nanoscience (Switzerland)</i> , 2015, 5, 281-290.	1.6	32
25	A simple and efficient protocol to develop durable multifunctional property to cellulosic materials using in situ generated nano-ZnO. <i>Cellulose</i> , 2017, 24, 3399-3410.	2.4	26
26	Shifts in metabolic patterns of soil bacterial communities on exposure to metal engineered nanomaterials. <i>Ecotoxicology and Environmental Safety</i> , 2020, 189, 110012.	2.9	25
27	Autofluorescence characterization of advanced glycation end products of hemoglobin. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2005, 61, 163-170.	2.0	23
28	Improving the stability of bacteriocin extracted from <i>Enterococcus faecium</i> by immobilization onto cellulose nanocrystals. <i>Carbohydrate Polymers</i> , 2019, 209, 172-180.	5.1	23
29	Evaluation of Autofluorescent Property of Hemoglobin-Advanced Glycation End Product as a Long-Term Glycemic Index of Diabetes. <i>Diabetes</i> , 2003, 52, 1041-1046.	0.3	22
30	Nanocellulose reinforced corn starch-based biocomposite films: Composite optimization, characterization and storage studies. <i>Food Packaging and Shelf Life</i> , 2022, 33, 100860.	3.3	21
31	Moisture management finish on cotton fabric by electrospraying. <i>Textile Research Journal</i> , 2017, 87, 2154-2165.	1.1	17
32	Micro/Nano-fibrillated Cellulose from Cotton Linters as Strength Additive in Unbleached Kraft Paper: Experimental, Semi-empirical, and Mechanistic Studies. <i>BioResources</i> , 2017, 12, .	0.5	15
33	Microbial Production of Nanolignin from Cotton Stalks and Its Application onto Cotton and Linen Fabrics for Multifunctional Properties. <i>Waste and Biomass Valorization</i> , 2020, 11, 6073-6083.	1.8	14
34	Cotton linter nano-fibers as the potential reinforcing agent for guar gum. <i>Iranian Polymer Journal (English Edition)</i> , 2014, 23, 869-879.	1.3	12
35	Microbial production of coconut fiber nanolignin for application onto cotton and linen fabrics to impart multifunctional properties. <i>Surfaces and Interfaces</i> , 2017, 9, 147-153.	1.5	12
36	Effect of green tea extract, ginger essential oil and nanofibrillated cellulose reinforcements in starch films on the keeping quality of strawberries. <i>Journal of Food Processing and Preservation</i> , 2022, 46, .	0.9	12

#	ARTICLE	IF	CITATIONS
37	Nanocellulose induces cellulase production in <i>Trichoderma reesei</i> . <i>Process Biochemistry</i> , 2016, 51, 1452-1457.	1.8	11
38	Modification of textile surfaces using nanoparticles. , 2009, , 164-184.		10
39	Evaluation of two-stage process (refining and homogenization) for nanofibrillation of cotton fibers. <i>Polymer Engineering and Science</i> , 2013, 53, 1590-1597.	1.5	10
40	Functional Behaviour of Polyethylene-ZnO Nanocomposites. <i>Journal of Nanoscience and Nanotechnology</i> , 2008, 8, 4121-4126.	0.9	7
41	Fibrillation of Coconut Fibers by Mechanical Refining to Enhance Its Reinforcing Potential in Epoxy Composites. <i>Fibers and Polymers</i> , 2020, 21, 2111-2117.	1.1	7
42	Ionic liquid mediated application of nano zinc oxide on cotton fabric for multi-functional properties. <i>Journal of the Textile Institute</i> , 2016, , 1-9.	1.0	6
43	Nanocellulose as Functional Filler in Starch/Polyvinyl Alcohol Film for Preparation of Urea Biosensor. <i>Current Science</i> , 2018, 114, 897.	0.4	6
44	Nanocellulose Production Using Cellulose Degrading Fungi. <i>Fungal Biology</i> , 2016, , 321-331.	0.3	5
45	Fluorescence and biochemical characterization of glycated hemoglobin. <i>Macromolecular Symposia</i> , 2003, 193, 119-128.	0.4	4
46	Nanopore-based metagenomic analysis of the impact of nanoparticles on soil microbial communities. <i>Heliyon</i> , 2022, 8, e09693.	1.4	4
47	Biomolecules – Nanoparticles: Interaction in Nanoscale. , 2011, , 135-150.		3
48	Preparation of Cellulose Nano-Whiskers and Its Effect on Performance Properties of <l>k</l>-Carrageenan. <i>Journal of Biobased Materials and Bioenergy</i> , 2014, 8, 618-626.	0.1	3
49	Process optimization and modelling the BET surface area of electrospun cellulose acetate nanofibres using response surface methodology. <i>Bulletin of Materials Science</i> , 2022, 45, ,	0.8	3
50	Development of multi-functional cotton surface for sportswear using nano zinc oxide. <i>Journal of Natural Fibers</i> , 2020, 17, 346-358.	1.7	2
51	Nanomaterials for Active and Smart Packaging of Food. , 2019, , 581-600.		2
52	Nanocellulose from Agro-Residues and Forest Biomass for Pulp and Paper Product. , 2019, , 355-372.		1
53	Nanotechnology in Electronics. , 2014, , 32-51.		0
54	Application of nanocrystals as antimicrobials. , 2022, , 315-328.		0