

Rajkumar Nirmala

List of Publications by Year in descending order

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66
papers

1,800
citations

257101

24
h-index

276539

41
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66
all docs

66
docs citations

66
times ranked

2826
citing authors

#	ARTICLE	IF	CITATIONS
1	Deriving activated carbon using microwave combustion technique and its energy storage applications: a topical review. <i>Carbon Letters</i> , 2022, 32, 1151-1171.	3.3	14
2	Green Synthesis of Silver Nanoparticles Using Aqueous Rhizome Extract of <i>Corallocarpus Epigaeus</i> for Biomedical Applications. <i>Applied Science and Convergence Technology</i> , 2021, 30, 54-61.	0.3	4
3	Autoclave Mediated Synthesis of Silver Nanoparticles Using Aqueous Extract of <i>Canna indica</i> L. Rhizome and Evaluation of Its Antimicrobial Activity. <i>Macromolecular Research</i> , 2019, 27, 1155-1160.	1.0	5
4	Improved Structural and Electrical Properties of ZnO-Based Thin Film Transistors by Using Pulsed KrF Excimer Laser Irradiation. <i>Journal of Electronic Materials</i> , 2019, 48, 3137-3144.	1.0	4
5	Growth of hierarchical GaN nanowires for optoelectronic device applications. <i>Journal of Photonics for Energy</i> , 2017, 7, 016001.	0.8	7
6	Highly Aligned Poly(vinylidene fluoride-co-hexafluoro propylene) Nanofibers via Electrospinning Technique. <i>Journal of Nanoscience and Nanotechnology</i> , 2016, 16, 595-600.	0.9	11
7	Flexible and Conducting Carbon Nanofibers Obtained from Electrospun Polyacrylonitrile/Phosphoric Acid Nanofibers. <i>Journal of Nanoscience and Nanotechnology</i> , 2016, 16, 1033-1037.	0.9	7
8	The Photovoltaic Performances of PVdF-HFP Electrospun Membranes Employed Quasi-Solid-State Dye Sensitized Solar Cells. <i>Journal of Nanoscience and Nanotechnology</i> , 2016, 16, 581-587.	0.9	19
9	Preparation and Characterizations of Rosin Based Thin Films and Fibers. <i>Journal of Nanoscience and Nanotechnology</i> , 2015, 15, 4653-4659.	0.9	4
10	Electrical Properties of Conductive Nylon66/Graphene Oxide Composite Nanofibers. <i>Journal of Nanoscience and Nanotechnology</i> , 2015, 15, 5718-5722.	0.9	5
11	Antimicrobial activity of electrospun polyurethane nanofibers containing composite materials. <i>Korean Journal of Chemical Engineering</i> , 2014, 31, 855-860.	1.2	9
12	The study of efficiency of Al ₂ O ₃ drop coated electrospun meta-aramid nanofibers as separating membrane in lithium-ion secondary batteries. <i>Materials Letters</i> , 2014, 132, 384-388.	1.3	31
13	Photodegradation of 4-Nitrophenol Using Cadmium Sulphide Nanoparticles. <i>Journal of Nanoscience and Nanotechnology</i> , 2014, 14, 2299-2306.	0.9	6
14	Recent Progress on the Fabrication of Ultrafine Polyamide-6 Based Nanofibers Via Electrospinning: A Topical Review. <i>Nano-Micro Letters</i> , 2014, 6, 89-107.	14.4	39
15	Enhanced electrical properties of electrospun nylon66 nanofibers containing carbon nanotube fillers and Ag nanoparticles. <i>Fibers and Polymers</i> , 2014, 15, 918-923.	1.1	7
16	Bactericidal efficacy of electrospun rosin/poly(ϵ -caprolactone) nanofibers. <i>Macromolecular Research</i> , 2014, 22, 139-145.	1.0	3
17	Facile stabilization process of polyacrylonitrile-based electrospun nanofibers by spraying 1% hydrogen peroxide and electron beam irradiation. <i>Materials Letters</i> , 2014, 123, 59-61.	1.3	13
18	Synthesis and characterization of electrospun cadmium sulfide- and lead sulfide-blended poly(vinyl) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	1.9	5

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19	Multipurpose polyurethane antimicrobial metal composite films via wet cast technology. <i>Macromolecular Research</i> , 2013, 21, 843-851.	1.0	6
20	Preparation of nylon-6/chitosan composites by nanospider technology and their use as candidate for antibacterial agents. <i>Korean Journal of Chemical Engineering</i> , 2013, 30, 422-428.	1.2	22
21	Influence of antimicrobial additives on the formation of rosin nanofibers via electrospinning. <i>Colloids and Surfaces B: Biointerfaces</i> , 2013, 104, 262-267.	2.5	29
22	Mechanical behavior of electrospun Nylon66 fibers reinforced with pristine and treated multi-walled carbon nanotube fillers. <i>Ceramics International</i> , 2013, 39, 8199-8206.	2.3	17
23	Fabrication and characterization of ZnO semiconductor nanoparticles decorated electrospun polyacrylonitrile nanofibers. <i>Journal of Colloid and Interface Science</i> , 2013, 397, 65-72.	5.0	18
24	Preparation and characterization of copper oxide particles incorporated polyurethane composite nanofibers by electrospinning. <i>Ceramics International</i> , 2013, 39, 9651-9658.	2.3	25
25	Antibacterial ciprofloxacin HCl incorporated polyurethane composite nanofibers via electrospinning for biomedical applications. <i>Ceramics International</i> , 2013, 39, 4937-4944.	2.3	29
26	Preparation and Characterizations of Silver Incorporated Polyurethane Composite Nanofibers via Electrospinning for Biomedical Applications. <i>Journal of Nanoscience and Nanotechnology</i> , 2013, 13, 4686-4693.	0.9	20
27	Characterisation of bioresourced hydroxyapatite containing silver nanoparticles. <i>Materials Research Innovations</i> , 2012, 16, 249-256.	1.0	3
28	Electrical characterization of nylon-6 composite nanofibers. <i>Journal of Physics and Chemistry of Solids</i> , 2012, 73, 1326-1330.	1.9	4
29	Silver-Loaded Biomimetic Hydroxyapatite Grafted Poly(ϵ -caprolactone) Composite Nanofibers: A Cytotoxicity Study. <i>Journal of Biomedical Nanotechnology</i> , 2012, 8, 125-132.	0.5	19
30	Synthesis and characterizations of Pt nanorods on electrospun polyamide-6 nanofibers templates. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2012, 177, 826-831.	1.7	3
31	Electrospun core-shell nanofibers from homogeneous solution of poly(vinyl alcohol)/bovine serum albumin. <i>International Journal of Biological Macromolecules</i> , 2012, 50, 1292-1298.	3.6	28
32	Electrospun nickel doped titanium dioxide nanofibers as an effective photocatalyst for the hydrolytic dehydrogenation of ammonia borane. <i>International Journal of Hydrogen Energy</i> , 2012, 37, 10036-10045.	3.8	37
33	Wound-dressing materials with antibacterial activity from electrospun polyurethane-dextran nanofiber mats containing ciprofloxacin HCl. <i>Carbohydrate Polymers</i> , 2012, 90, 1786-1793.	5.1	404
34	Mechanical property enhancement of non-bonding electrospun mats via adhesive. <i>Polymer International</i> , 2012, 61, 844-849.	1.6	10
35	A study on electrospun nylon-6/TiO ₂ composite nanofibers. <i>Journal of the Korean Physical Society</i> , 2012, 60, 1741-1744.	0.3	0
36	Photocatalytic activities of electrospun tin oxide doped titanium dioxide nanofibers. <i>Ceramics International</i> , 2012, 38, 4533-4540.	2.3	33

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37	Novel electrospun nanofiber mats as effective catalysts for water photosplitting. <i>Ceramics International</i> , 2012, 38, 5175-5180.	2.3	19
38	Encapsulation of CdO/ZnO NPs in PU electrospun nanofibers as novel strategy for effective immobilization of the photocatalysts. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2012, 401, 8-16.	2.3	56
39	A study on structural and electrical properties of low dielectric constant SiOC(H) thin films deposited via PECVD. <i>Journal of Physics and Chemistry of Solids</i> , 2012, 73, 641-645.	1.9	4
40	Fabrication of highly porous poly (μ -caprolactone) microfibers via electrospinning. <i>Journal of Porous Materials</i> , 2012, 19, 217-223.	1.3	32
41	Hydroxyapatite Mineralization on the Calcium Chloride Blended Polyurethane Nanofiber via Biomimetic Method. <i>Nanoscale Research Letters</i> , 2011, 6, 2.	3.1	63
42	Synthesis and Electrical Properties of TiO ₂ Nanoparticles Embedded in Polyamide-6 Nanofibers Via Electrospinning. <i>Nano-Micro Letters</i> , 2011, 3, 56-61.	14.4	17
43	Electrospun cross linked rosin fibers. <i>Applied Surface Science</i> , 2011, 258, 1385-1389.	3.1	12
44	Bactericidal Activity and In Vitro Cytotoxicity Assessment of Hydroxyapatite Containing Gold Nanoparticles. <i>Journal of Biomedical Nanotechnology</i> , 2011, 7, 342-350.	0.5	19
45	Photocatalytic Properties of Silver Nanoparticles Decorated Nanobranched TiO ₂ Nanofibers. <i>Journal of Nanoscience and Nanotechnology</i> , 2011, 11, 6886-6892.	0.9	3
46	Preparation and electrical characterization of polyamide-6/chitosan composite nanofibers via electrospinning. <i>Materials Letters</i> , 2011, 65, 493-496.	1.3	29
47	Preparation of the crosslinked poly(vinyl alcohol)/blocked isocyanate prepolymers nanofibers with hydrolyzed products of <i>Scutellariae Radix</i> . <i>Materials Letters</i> , 2011, 65, 2772-2775.	1.3	6
48	Synthesis of aluminium oxide nanoflakes on hollow periphery by hydrothermal coating using electrospun poly(acrylonitrile) nanofibres template. <i>Micro and Nano Letters</i> , 2011, 6, 86-89.	0.6	3
49	Effect of adhesive on the morphology and mechanical properties of electrospun fibrous mat of cellulose acetate. <i>Carbohydrate Research</i> , 2011, 346, 1956-1961.	1.1	15
50	Electrical properties of ultrafine nylon-6 nanofibers prepared via electrospinning. <i>Fibers and Polymers</i> , 2011, 12, 1021-1024.	1.1	12
51	Synthesis and characterization of bovine femur bone hydroxyapatite containing silver nanoparticles for the biomedical applications. <i>Journal of Nanoparticle Research</i> , 2011, 13, 1917-1927.	0.8	58
52	Fabrication of poly(caprolactone) nanofibers containing hydroxyapatite nanoparticles and their mineralization in a simulated body fluid. <i>Fibers and Polymers</i> , 2011, 12, 50-56.	1.1	11
53	Preparation and characterizations of anisotropic chitosan nanofibers via electrospinning. <i>Macromolecular Research</i> , 2011, 19, 345-350.	1.0	42
54	Preparation and characterization of electrospun ultrafine polyamide-6 nanofibers. <i>Polymer International</i> , 2011, 60, 1475-1480.	1.6	27

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55	Multifunctional baicalein blended poly(vinyl alcohol) composite nanofibers via electrospinning. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2011, 384, 605-611.	2.3	27
56	Preparation of polyamide-6/chitosan composite nanofibers by a single solvent system via electrospinning for biomedical applications. <i>Colloids and Surfaces B: Biointerfaces</i> , 2011, 83, 173-178.	2.5	100
57	Lecithin blended polyamide-6 high aspect ratio nanofiber scaffolds via electrospinning for human osteoblast cell culture. <i>Materials Science and Engineering C</i> , 2011, 31, 486-493.	3.8	53
58	Effect of NH ₃ plasma treatment on the device performance of ZnO based thin film transistors. <i>Vacuum</i> , 2011, 85, 904-907.	1.6	17
59	Preparation of Photocrosslinkable Polystyrene Methylene Cinnamate Nanofibers via Electrospinning. <i>Journal of Nanoscience and Nanotechnology</i> , 2011, 11, 8474-8480.	0.9	2
60	Human Osteoblast Cytotoxicity Study of Electrospun Polyurethane/Calcium Chloride Ultrafine Nanofibers. <i>Journal of Nanoscience and Nanotechnology</i> , 2011, 11, 4749-4756.	0.9	14
61	Effect of solvents on high aspect ratio polyamide-6 nanofibers via electrospinning. <i>Macromolecular Research</i> , 2010, 18, 759-765.	1.0	33
62	Electrospun titanium dioxide nanofibers containing hydroxyapatite and silver nanoparticles as future implant materials. <i>Journal of Materials Science: Materials in Medicine</i> , 2010, 21, 2551-2559.	1.7	26
63	Structural, thermal, mechanical and bioactivity evaluation of silver-loaded bovine bone hydroxyapatite grafted poly(μ -caprolactone) nanofibers via electrospinning. <i>Surface and Coatings Technology</i> , 2010, 205, 174-181.	2.2	54
64	Formation of high aspect ratio polyamide-6 nanofibers via electrically induced double layer during electrospinning. <i>Applied Surface Science</i> , 2010, 256, 6318-6323.	3.1	41
65	Effect of successive electrospinning and the strength of hydrogen bond on the morphology of electrospun nylon-6 nanofibers. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2010, 370, 87-94.	2.3	103
66	Preparation and Properties of Low Dielectric Constant SiOC(-H) Thin Films Deposited by Using PECVD. <i>Journal of the Korean Physical Society</i> , 2010, 56, 818-822.	0.3	2