

Anil N Netravali

List of Publications by Year in descending order

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Version: 2024-02-01

88
papers

4,500
citations

117625

34
h-index

110387

64
g-index

96
all docs

96
docs citations

96
times ranked

3757
citing authors

#	ARTICLE	IF	CITATIONS
1	Composites get greener. <i>Materials Today</i> , 2003, 6, 22-29.	14.2	530
2	Mercerization of sisal fibers: Effect of tension on mechanical properties of sisal fiber and fiber-reinforced composites. <i>Composites Part A: Applied Science and Manufacturing</i> , 2010, 41, 1245-1252.	7.6	200
3	Thermal and mechanical properties of environment-friendly "green" plastics from stearic acid modified-soy protein isolate. <i>Industrial Crops and Products</i> , 2005, 21, 49-64.	5.2	188
4	Title is missing!. <i>Journal of Materials Science</i> , 2002, 37, 3657-3665.	3.7	166
5	Biodegradable green composites made using bamboo micro/nano-fibrils and chemically modified soy protein resin. <i>Composites Science and Technology</i> , 2009, 69, 1009-1015.	7.8	162
6	Characterization of flax fiber reinforced soy protein resin based green composites modified with nano-clay particles. <i>Composites Science and Technology</i> , 2007, 67, 2005-2014.	7.8	161
7	Characterization of stearic acid modified soy protein isolate resin and ramie fiber reinforced "green" composites. <i>Composites Science and Technology</i> , 2005, 65, 1211-1225.	7.8	152
8	Fabrication and characterization of biodegradable composites based on microfibrillated cellulose and polyvinyl alcohol. <i>Composites Science and Technology</i> , 2012, 72, 1588-1594.	7.8	137
9	A Review of Fabrication and Applications of Bacterial Cellulose Based Nanocomposites. <i>Polymer Reviews</i> , 2014, 54, 598-626.	10.9	126
10	Green composites. I. physical properties of ramie fibers for environment-friendly green composites. <i>Fibers and Polymers</i> , 2006, 7, 372-379.	2.1	106
11	"Green" crosslinking of native starches with malonic acid and their properties. <i>Carbohydrate Polymers</i> , 2012, 90, 1620-1628.	10.2	98
12	"Green" composites Part 1: Characterization of flax fabric and glutaraldehyde modified soy protein concentrate composites. <i>Journal of Materials Science</i> , 2005, 40, 6263-6273.	3.7	96
13	Advanced 'green' composites. <i>Advanced Composite Materials</i> , 2007, 16, 269-282.	1.9	81
14	Mechanical, Thermal, and Interfacial Properties of Green Composites with Ramie Fiber and Soy Resins. <i>Journal of Agricultural and Food Chemistry</i> , 2010, 58, 5400-5407.	5.2	80
15	Towards Sustainable and Multifunctional Air-Filters: A Review on Biopolymer-Based Filtration Materials. <i>Polymer Reviews</i> , 2019, 59, 651-686.	10.9	80
16	Mechanical properties and biodegradability of electrospun soy protein Isolate/PVA hybrid nanofibers. <i>Polymer Degradation and Stability</i> , 2012, 97, 747-754.	5.8	78
17	Sustainable polymers. <i>Nature Reviews Methods Primers</i> , 2022, 2, .	21.2	78
18	Characterization of Phytigel [®] modified soy protein isolate resin and unidirectional flax yarn reinforced "green" composites. <i>Polymer Composites</i> , 2005, 26, 647-659.	4.6	73

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19	Characterization of Nano-Clay Reinforced Phytigel-Modified Soy Protein Concentrate Resin. <i>Biomacromolecules</i> , 2006, 7, 2783-2789.	5.4	70
20	Electrospun Hybrid Soy Protein/PVA Fibers. <i>Macromolecular Materials and Engineering</i> , 2010, 295, 763-773.	3.6	67
21	A soy flour based thermoset resin without the use of any external crosslinker. <i>Green Chemistry</i> , 2013, 15, 3243.	9.0	67
22	Bacterial cellulose-based membrane-like biodegradable composites using cross-linked and noncross-linked polyvinyl alcohol. <i>Journal of Materials Science</i> , 2012, 47, 6066-6075.	3.7	64
23	Excimer laser surface modification of ultra-high-strength polyethylene fibers for enhanced adhesion with epoxy resins. Part 1. Effect of laser operating parameters. <i>Journal of Adhesion Science and Technology</i> , 1998, 12, 957-982.	2.6	63
24	Green composites. II. Environment-friendly, biodegradable composites using ramie fibers and soy protein concentrate (SPC) resin. <i>Fibers and Polymers</i> , 2006, 7, 380-388.	2.1	61
25	Halloysite nanotube reinforced biodegradable nanocomposites using noncrosslinked and malonic acid crosslinked polyvinyl alcohol. <i>Polymer Composites</i> , 2013, 34, 799-809.	4.6	61
26	Cross-Linked Waxy Maize Starch-Based "Green" Composites. <i>ACS Sustainable Chemistry and Engineering</i> , 2013, 1, 1537-1544.	6.7	59
27	"Green"™ composites Part 2: Characterization of flax yarn and glutaraldehyde/poly(vinyl alcohol) modified soy protein concentrate composites. <i>Journal of Materials Science</i> , 2005, 40, 6275-6282.	3.7	57
28	Investigation of Soy Protein-based Biostimulant Seed Coating for Broccoli Seedling and Plant Growth Enhancement. <i>Hortscience: A Publication of the American Society for Horticultural Science</i> , 2016, 51, 1121-1126.	1.0	56
29	Aligned Bacterial Cellulose Arrays as "Green" Nanofibers for Composite Materials. <i>ACS Macro Letters</i> , 2016, 5, 1070-1074.	4.8	53
30	Development of aligned-hemp yarn-reinforced green composites with soy protein resin: Effect of pH on mechanical and interfacial properties. <i>Composites Science and Technology</i> , 2011, 71, 541-547.	7.8	46
31	Ethylene/ ammonia plasma polymer deposition for controlled adhesion of graphite fibers to PEEK. <i>Journal of Adhesion Science and Technology</i> , 1995, 9, 1475-1503.	2.6	38
32	Effect of soy protein isolate resin modifications on their biodegradation in a compost medium. <i>Polymer Degradation and Stability</i> , 2005, 87, 465-477.	5.8	38
33	Self-Healing Properties of Protein Resin with Soy Protein Isolate-Loaded Poly(lactide-co-glycolide) Microcapsules. <i>Advanced Functional Materials</i> , 2016, 26, 4786-4796.	14.9	38
34	Self-healing green composites based on soy protein and microfibrillated cellulose. <i>Composites Science and Technology</i> , 2017, 143, 22-30.	7.8	38
35	A Numerical and Experimental Study of Delaminated Layered Composites. <i>Journal of Composite Materials</i> , 1994, 28, 837-870.	2.4	36
36	Characterization of ramie fiber/soy protein concentrate (SPC) resin interface. <i>Journal of Adhesion Science and Technology</i> , 2004, 18, 1063-1076.	2.6	36

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37	Excimer laser surface modification of ultra-high-strength polyethylene fibers for enhanced adhesion with epoxy resins. Part 2. Effect of treatment environment. <i>Journal of Adhesion Science and Technology</i> , 1998, 12, 983-998.	2.6	33
38	Enhancing Strength of Wool Fiber Using a Soy Flour Sugar-Based "Green" Cross-linker. <i>ACS Omega</i> , 2019, 4, 5392-5401.	3.5	33
39	Review: Green composites for structural applications. <i>Composites Part C: Open Access</i> , 2021, 6, 100169.	3.2	33
40	Nonedible Starch Based "Green" Thermoset Resin Obtained via Esterification Using a Green Catalyst. <i>ACS Sustainable Chemistry and Engineering</i> , 2016, 4, 1756-1764.	6.7	32
41	A Composting Study of Membrane-Like Polyvinyl Alcohol Based Resins and Nanocomposites. <i>Journal of Polymers and the Environment</i> , 2013, 21, 658-674.	5.0	31
42	High-performance green nanocomposites using aligned bacterial cellulose and soy protein. <i>Composites Science and Technology</i> , 2017, 146, 183-190.	7.8	31
43	One-Step Toughening of Soy Protein Based Green Resin Using Electrospun Epoxidized Natural Rubber Fibers. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 4957-4968.	6.7	27
44	Microfibrillated cellulose reinforced nonedible starch based thermoset biocomposites. <i>Journal of Applied Polymer Science</i> , 2016, 133, .	2.6	26
45	A Seed Coating Delivery System for Bio-Based Biostimulants to Enhance Plant Growth. <i>Sustainability</i> , 2019, 11, 5304.	3.2	26
46	Adhesion Promotion in Fibers and Textiles Using Photonic Surface Modifications. <i>Journal of Adhesion Science and Technology</i> , 2010, 24, 45-75.	2.6	24
47	Effect of Protein Content in Soy Protein Resins on Their Interfacial Shear Strength with Ramie Fibers. <i>Journal of Adhesion Science and Technology</i> , 2010, 24, 203-215.	2.6	24
48	Green Resin from Forestry Waste Residue "Karanja" (<i>Pongamia pinnata</i>) Seed Cake for Biobased Composite Structures. <i>ACS Sustainable Chemistry and Engineering</i> , 2014, 2, 2318-2328.	6.7	24
49	Bio-inspired "green" nanocomposite using hydroxyapatite synthesized from eggshell waste and soy protein. <i>Journal of Applied Polymer Science</i> , 2016, 133, .	2.6	24
50	In Situ Produced Bacterial Cellulose Nanofiber-Based Hybrids for Nanocomposites. <i>Fibers</i> , 2017, 5, 31.	4.0	24
51	Cyclodextrin-Based "Green" Wrinkle-Free Finishing of Cotton Fabrics. <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 20496-20504.	3.7	24
52	"Green" composites using bioresins from agro-wastes and modified sisal fibers. <i>Polymer Composites</i> , 2019, 40, 99-108.	4.6	24
53	Improving Resin and Film Forming Properties of Native Starches by Chemical and Physical Modification. <i>Journal of Biobased Materials and Bioenergy</i> , 2012, 6, 1-24.	0.3	24
54	Effects of a pulsed XeCl excimer laser on ultra-high strength polyethylene fiber and its interface with epoxy resin. <i>Journal of Adhesion Science and Technology</i> , 1999, 13, 501-516.	2.6	23

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55	The effect of silica (SiO ₂) nanoparticles and ammonia/ethylene plasma treatment on the interfacial and mechanical properties of carbon-fiber-reinforced epoxy composites. <i>Journal of Adhesion Science and Technology</i> , 2007, 21, 1407-1424.	2.6	23
56	Water-resistant plant protein-based nanofiber membranes. <i>Journal of Applied Polymer Science</i> , 2015, 132, .	2.6	23
57	Environmentally Friendly Green Materials from Plant-Based Resources: Modification of Soy Protein using Gellan and Micro/Nano-Fibrillated Cellulose. <i>Journal of Macromolecular Science - Pure and Applied Chemistry</i> , 2008, 45, 899-906.	2.2	22
58	Advanced Green composites using liquid crystalline cellulose fibers and waxy maize starch based resin. <i>Composites Science and Technology</i> , 2018, 162, 110-116.	7.8	22
59	'Green' Composites Using Modified Soy Protein Concentrate Resin and Flax Fabrics and Yarns. <i>JSME International Journal Series A-Solid Mechanics and Material Engineering</i> , 2004, 47, 556-560.	0.4	21
60	“Green” surface treatment for water-repellent cotton fabrics. <i>Surface Innovations</i> , 2016, 4, 3-13.	2.3	21
61	Fabrication of advanced “green” composites using potassium hydroxide (KOH) treated liquid crystalline (LC) cellulose fibers. <i>Journal of Materials Science</i> , 2013, 48, 3950-3957.	3.7	20
62	Oriented bacterial cellulose-soy protein based fully “green” nanocomposites. <i>Composites Science and Technology</i> , 2016, 136, 85-93.	7.8	20
63	Self-healing starch-based “green” thermoset resin. <i>Polymer</i> , 2017, 117, 150-159.	3.8	20
64	Green composites based on avocado seed starch and nano- and micro-scale cellulose. <i>Polymer Composites</i> , 2020, 41, 4631-4648.	4.6	19
65	Bio-based polymeric resin from agricultural waste, neem (<i>azadirachta indica</i>) seed cake, for green composites. <i>Journal of Applied Polymer Science</i> , 2015, 132, .	2.6	18
66	Parametric study of protein-encapsulated microcapsule formation and effect on self-healing efficiency of “green” soy protein resin. <i>Journal of Materials Science</i> , 2017, 52, 3028-3047.	3.7	18
67	Effect of Halloysite Nanotube Incorporation in Epoxy Resin and Carbon Fiber Ethylene/Ammonia Plasma Treatment on Their Interfacial Property. <i>Journal of Adhesion Science and Technology</i> , 2012, 26, 1295-1312.	2.6	17
68	Performance of protein-based wood bioadhesives and development of small-scale test method for characterizing properties of adhesive-bonded wood specimens. <i>Journal of Adhesion Science and Technology</i> , 2013, 27, 2083-2093.	2.6	17
69	Physical Properties of Biodegradable Films of Soy Protein Concentrate/Gelling Agent Blends. <i>Macromolecular Materials and Engineering</i> , 2012, 297, 176-183.	3.6	16
70	Comparison of thermoset soy protein resin toughening by natural rubber and epoxidized natural rubber. <i>Journal of Applied Polymer Science</i> , 2017, 134, .	2.6	15
71	Multifunctional sucrose acid as a “green” crosslinker for wrinkle-free cotton fabrics. <i>Cellulose</i> , 2020, 27, 5407-5420.	4.9	15
72	Mechanical and Thermal Properties of Sisal Fiber-Reinforced Green Composites with Soy Protein/Gelatin Resins. <i>Journal of Biobased Materials and Bioenergy</i> , 2010, 4, 338-345.	0.3	14

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73	Elastic Properties of Green Composites Reinforced with Ramie Twisted Yarn. <i>Journal of Solid Mechanics and Materials Engineering</i> , 2010, 4, 1605-1614.	0.5	13
74	Self-healing of "green"™ thermoset zein resins with irregular shaped waxy maize starch-based/poly(D,L-lactic-co-glycolic acid) microcapsules. <i>Composites Science and Technology</i> , 2019, 183, 107831.	7.8	12
75	Bioinspired process using anisotropic silica particles and fatty acid for superhydrophobic cotton fabrics. <i>Cellulose</i> , 2020, 27, 545-559.	4.9	12
76	Carbon fibers as a novel material for high-performance microelectromechanical systems (MEMS). <i>Journal of Micromechanics and Microengineering</i> , 2006, 16, 1403-1407.	2.6	11
77	Non-food application of camelina meal: Development of sustainable and green biodegradable paper-camelina composite sheets and fibers. <i>Polymer Composites</i> , 2012, 33, 1969-1976.	4.6	11
78	Micro-fibrillated cellulose reinforced eco-friendly polymeric resin from non-edible "Jatropha curcas"™ seed waste after biodiesel production. <i>RSC Advances</i> , 2016, 6, 47101-47111.	3.6	11
79	Characterization of Interface Properties of Clay Nanoplatelet-Filled Epoxy Resin and Carbon Fiber by Single Fiber Composite Technique. <i>Journal of Adhesion Science and Technology</i> , 2010, 24, 217-236.	2.6	9
80	A Novel Method for Electrospinning Nanofibrous 3-D Structures. <i>Fibers</i> , 2020, 8, 27.	4.0	9
81	Advanced green composites: New directions. <i>Materials Today: Proceedings</i> , 2019, 8, 832-838.	1.8	8
82	Direct Assembly of Silica Nanospheres on Halloysite Nanotubes for "Green"•Ultrahydrophobic Cotton Fabrics. <i>Advanced Sustainable Systems</i> , 2019, 3, 1900009.	5.3	6
83	Bacterial cellulose integrated irregularly shaped microcapsules enhance self-healing efficiency and mechanical properties of green soy protein resins. <i>Journal of Materials Science</i> , 2021, 56, 12030-12047.	3.7	6
84	Toughening of thermoset green zein resin: A comparison between natural rubber-based additives and plasticizers. <i>Journal of Applied Polymer Science</i> , 2020, 137, 48512.	2.6	4
85	"Green"™ composites based on liquid crystalline cellulose fibers and avocado seed starch. <i>Journal of Materials Science</i> , 2021, 56, 6204-6216.	3.7	4
86	Comparison of effects of ultraviolet and ⁶⁰ Co gamma ray irradiation on nylon 6 mono-filaments. <i>Fibers and Polymers</i> , 2004, 5, 225-229.	2.1	2
87	Can We Build with Plants? Cabin Construction Using Green Composites. <i>Journal of Renewable Materials</i> , 2015, 3, 244-258.	2.2	1
88	Natural "Green"™ Sugar-Based Treatment for Hair Styling. <i>Fibers</i> , 2022, 10, 13.	4.0	0