

# Anil N Netravali

## List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

95  
papers

3,550  
citations

32  
h-index

58  
g-index

96  
ext. papers

3,947  
ext. citations

4.9  
avg, IF

6.08  
L-index

#	Paper	IF	Citations
95	Composites get greener. <i>Materials Today</i> , <b>2003</b> , 6, 22-29	21.8	436
94	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> , <b>2010</b> , 41, 1245-1252	8.4	161
93	Thermal and mechanical properties of environment-friendly 'green' plastics from stearic acid modified-soy protein isolate. <i>Industrial Crops and Products</i> , <b>2005</b> , 21, 49-64	5.9	161
92	Characterization of interfacial and mechanical properties of 'green' composites with soy protein isolate and ramie fiber. <i>Journal of Materials Science</i> , <b>2002</b> , 37, 3657-3665	4.3	149
91	Characterization of flax fiber reinforced soy protein resin based green composites modified with nano-clay particles. <i>Composites Science and Technology</i> , <b>2007</b> , 67, 2005-2014	8.6	140
90	Biodegradable green composites made using bamboo micro/nano-fibrils and chemically modified soy protein resin. <i>Composites Science and Technology</i> , <b>2009</b> , 69, 1009-1015	8.6	137
89	Characterization of stearic acid modified soy protein isolate resin and ramie fiber reinforced 'green' composites. <i>Composites Science and Technology</i> , <b>2005</b> , 65, 1211-1225	8.6	129
88	Fabrication and characterization of biodegradable composites based on microfibrillated cellulose and polyvinyl alcohol. <i>Composites Science and Technology</i> , <b>2012</b> , 72, 1588-1594	8.6	114
87	A Review of Fabrication and Applications of Bacterial Cellulose Based Nanocomposites. <i>Polymer Reviews</i> , <b>2014</b> , 54, 598-626	14	105
86	Green composites. I. physical properties of ramie fibers for environment-friendly green composites. <i>Fibers and Polymers</i> , <b>2006</b> , 7, 372-379	2	90
85	'Green' composites Part 1: Characterization of flax fabric and glutaraldehyde modified soy protein concentrate composites. <i>Journal of Materials Science</i> , <b>2005</b> , 40, 6263-6273	4.3	84
84	'Green' crosslinking of native starches with malonic acid and their properties. <i>Carbohydrate Polymers</i> , <b>2012</b> , 90, 1620-8	10.3	72
83	Mechanical, thermal, and interfacial properties of green composites with ramie fiber and soy resins. <i>Journal of Agricultural and Food Chemistry</i> , <b>2010</b> , 58, 5400-7	5.7	71
82	Characterization of nano-clay reinforced phytagel-modified soy protein concentrate resin. <i>Biomacromolecules</i> , <b>2006</b> , 7, 2783-9	6.9	66
81	Advanced 'green' composites. <i>Advanced Composite Materials</i> , <b>2007</b> , 16, 269-282	2.8	64
80	Characterization of Phytagel modified soy protein isolate resin and unidirectional flax yarn reinforced 'green' composites. <i>Polymer Composites</i> , <b>2005</b> , 26, 647-659	3	62
79	A soy flour based thermoset resin without the use of any external crosslinker. <i>Green Chemistry</i> , <b>2013</b> , 15, 3243	10	58

78	Mechanical properties and biodegradability of electrospun soy protein Isolate/PVA hybrid nanofibers. <i>Polymer Degradation and Stability</i> , <b>2012</b> , 97, 747-754	4.7	57
77	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> , <b>1998</b> , 12, 957-982	2	55
76	Green composites. II. Environment-friendly, biodegradable composites using ramie fibers and soy protein concentrate (SPC) resin. <i>Fibers and Polymers</i> , <b>2006</b> , 7, 380-388	2	54
75	Green Composites Part 2: Characterization of flax yarn and glutaraldehyde/poly(vinyl alcohol) modified soy protein concentrate composites. <i>Journal of Materials Science</i> , <b>2005</b> , 40, 6275-6282	4.3	52
74	Bacterial cellulose-based membrane-like biodegradable composites using cross-linked and noncross-linked polyvinyl alcohol. <i>Journal of Materials Science</i> , <b>2012</b> , 47, 6066-6075	4.3	50
73	Electrospun Hybrid Soy Protein/PVA Fibers. <i>Macromolecular Materials and Engineering</i> , <b>2010</b> , 295, 763-773	3.9	50
72	Halloysite nanotube reinforced biodegradable nanocomposites using noncrosslinked and malonic acid crosslinked polyvinyl alcohol. <i>Polymer Composites</i> , <b>2013</b> , 34, 799-809	3	48
71	Cross-Linked Waxy Maize Starch-Based Green Composites. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2013</b> , 1, 1537-1544	8.3	45
70	Towards Sustainable and Multifunctional Air-Filters: A Review on Biopolymer-Based Filtration Materials. <i>Polymer Reviews</i> , <b>2019</b> , 59, 651-686	14	39
69	Aligned Bacterial Cellulose Arrays as Green Nanofibers for Composite Materials. <i>ACS Macro Letters</i> , <b>2016</b> , 5, 1070-1074	6.6	36
68	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> , <b>2016</b> , 51, 1121-1126	2.4	35
67	Ethylene/ ammonia plasma polymer deposition for controlled adhesion of graphite fibers to PEEK. <i>Journal of Adhesion Science and Technology</i> , <b>1995</b> , 9, 1475-1503	2	35
66	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> , <b>2011</b> , 71, 541-547	8.6	34
65	Characterization of ramie fiber/soy protein concentrate (SPC) resin interface. <i>Journal of Adhesion Science and Technology</i> , <b>2004</b> , 18, 1063-1076	2	33
64	Effect of soy protein isolate resin modifications on their biodegradation in a compost medium. <i>Polymer Degradation and Stability</i> , <b>2005</b> , 87, 465-477	4.7	33
63	Self-Healing Properties of Protein Resin with Soy Protein Isolate-Loaded Poly(d,l-lactide-co-glycolide) Microcapsules. <i>Advanced Functional Materials</i> , <b>2016</b> , 26, 4786-4796	15.6	31
62	A Numerical and Experimental Study of Delaminated Layered Composites. <i>Journal of Composite Materials</i> , <b>1994</b> , 28, 837-870	2.7	30
61	Self-healing green composites based on soy protein and microfibrillated cellulose. <i>Composites Science and Technology</i> , <b>2017</b> , 143, 22-30	8.6	29

60	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> , <b>1998</b> , 12, 983-998	2	28
59	Nonedible Starch Based Green Thermoset Resin Obtained via Esterification Using a Green Catalyst. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2016</b> , 4, 1756-1764	8.3	24
58	High-performance green nanocomposites using aligned bacterial cellulose and soy protein. <i>Composites Science and Technology</i> , <b>2017</b> , 146, 183-190	8.6	23
57	Microfibrillated cellulose-reinforced nonedible starch-based thermoset biocomposites. <i>Journal of Applied Polymer Science</i> , <b>2016</b> , 133,	2.9	22
56	Adhesion Promotion in Fibers and Textiles Using Photonic Surface Modifications. <i>Journal of Adhesion Science and Technology</i> , <b>2010</b> , 24, 45-75	2	22
55	Effect of Protein Content in Soy Protein Resins on Their Interfacial Shear Strength with Ramie Fibers. <i>Journal of Adhesion Science and Technology</i> , <b>2010</b> , 24, 203-215	2	21
54	Improving Resin and Film Forming Properties of Native Starches by Chemical and Physical Modification. <i>Journal of Biobased Materials and Bioenergy</i> , <b>2012</b> , 6, 1-24	1.4	21
53	One-Step Toughening of Soy Protein Based Green Resin Using Electrospun Epoxidized Natural Rubber Fibers. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2017</b> , 5, 4957-4968	8.3	20
52	Green Resin from Forestry Waste Residue Karanja (Pongamia pinnata) Seed Cake for Biobased Composite Structures. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2014</b> , 2, 2318-2328	8.3	20
51	A Composting Study of Membrane-Like Polyvinyl Alcohol Based Resins and Nanocomposites. <i>Journal of Polymers and the Environment</i> , <b>2013</b> , 21, 658-674	4.5	20
50	The effect of silica (SiO <sub>2</sub> ) 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> , <b>2007</b> , 21, 1407-1424	2	20
49	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> , <b>2008</b> , 45, 899-906	2.2	19
48	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> , <b>1999</b> , 13, 501-516	2	19
47	Bio-inspired Green Nanocomposite using hydroxyapatite synthesized from eggshell waste and soy protein. <i>Journal of Applied Polymer Science</i> , <b>2016</b> , 133, n/a-n/a	2.9	19
46	Water-resistant plant protein-based nanofiber membranes. <i>Journal of Applied Polymer Science</i> , <b>2015</b> , 132,	2.9	18
45	Oriented bacterial cellulose-soy protein based fully Green Nanocomposites. <i>Composites Science and Technology</i> , <b>2016</b> , 136, 85-93	8.6	18
44	'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> , <b>2004</b> , 47, 556-560		17
43	Green Surface treatment for water-repellent cotton fabrics. <i>Surface Innovations</i> , <b>2016</b> , 4, 3-13	1.9	17

42	Enhancing Strength of Wool Fiber Using a Soy Flour Sugar-Based "Green" Cross-linker. <i>ACS Omega</i> , <b>2019</b> , 4, 5392-5401	3.9	16
41	In Situ Produced Bacterial Cellulose Nanofiber-Based Hybrids for Nanocomposites. <i>Fibers</i> , <b>2017</b> , 5, 31	3.7	16
40	Advanced Green composites using liquid crystalline cellulose fibers and waxy maize starch based resin. <i>Composites Science and Technology</i> , <b>2018</b> , 162, 110-116	8.6	16
39	Cyclodextrin-Based "Green" Wrinkle-Free Finishing of Cotton Fabrics. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2019</b> , 58, 20496-20504	3.9	16
38	Self-healing starch-based "green" thermoset resin. <i>Polymer</i> , <b>2017</b> , 117, 150-159	3.9	15
37	Parametric study of protein-encapsulated microcapsule formation and effect on self-healing efficiency of "green" soy protein resin. <i>Journal of Materials Science</i> , <b>2017</b> , 52, 3028-3047	4.3	15
36	Fabrication of advanced "green" composites using potassium hydroxide (KOH) treated liquid crystalline (LC) cellulose fibers. <i>Journal of Materials Science</i> , <b>2013</b> , 48, 3950-3957	4.3	15
35	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> , <b>2012</b> , 26, 1295-1312	2	15
34	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> , <b>2013</b> , 27, 2083-2093	2	15
33	"Green" composites using bioresins from agro-wastes and modified sisal fibers. <i>Polymer Composites</i> , <b>2019</b> , 40, 99-108	3	15
32	Bio-based polymeric resin from agricultural waste, neem ( <i>Azadirachta indica</i> ) seed cake, for green composites. <i>Journal of Applied Polymer Science</i> , <b>2015</b> , 132,	2.9	14
31	A Seed Coating Delivery System for Bio-Based Biostimulants to Enhance Plant Growth. <i>Sustainability</i> , <b>2019</b> , 11, 5304	3.6	13
30	Physical Properties of Biodegradable Films of Soy Protein Concentrate/Gelling Agent Blends. <i>Macromolecular Materials and Engineering</i> , <b>2012</b> , 297, 176-183	3.9	13
29	Elastic Properties of Green Composites Reinforced with Ramie Twisted Yarn. <i>Journal of Solid Mechanics and Materials Engineering</i> , <b>2010</b> , 4, 1605-1614		12
28	Mechanical and Thermal Properties of Sisal Fiber-Reinforced Green Composites with Soy Protein/Gelatin Resins. <i>Journal of Biobased Materials and Bioenergy</i> , <b>2010</b> , 4, 338-345	1.4	12
27	Carbon fibers as a novel material for high-performance microelectromechanical systems (MEMS). <i>Journal of Micromechanics and Microengineering</i> , <b>2006</b> , 16, 1403-1407	2	11
26	Non-food application of camelina meal: Development of sustainable and green biodegradable paper-camelina composite sheets and fibers. <i>Polymer Composites</i> , <b>2012</b> , 33, 1969-1976	3	10
25	Bioinspired process using anisotropic silica particles and fatty acid for superhydrophobic cotton fabrics. <i>Cellulose</i> , <b>2020</b> , 27, 545-559	5.5	9

24	Comparison of thermoset soy protein resin toughening by natural rubber and epoxidized natural rubber. <i>Journal of Applied Polymer Science</i> , <b>2017</b> , 134,	2.9	8
23	Multifunctional sucrose acid as a <b>Green</b> crosslinker for wrinkle-free cotton fabrics. <i>Cellulose</i> , <b>2020</b> , 27, 5407-5420	5.5	8
22	Micro-fibrillated cellulose reinforced eco-friendly polymeric resin from non-edible <b>Atropa curcas</b> seed waste after biodiesel production. <i>RSC Advances</i> , <b>2016</b> , 6, 47101-47111	3.7	8
21	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> , <b>2010</b> , 24, 217-236	2	8
20	Review: Green composites for structural applications. <i>Composites Part C: Open Access</i> , <b>2021</b> , 6, 100169	1.6	8
19	A Novel Method for Electrospinning Nanofibrous 3-D Structures. <i>Fibers</i> , <b>2020</b> , 8, 27	3.7	7
18	Self-healing of <b>Green</b> thermoset zein resins with irregular shaped waxy maize starch-based/poly(D,L-lactic-co-glycolic acid) microcapsules. <i>Composites Science and Technology</i> , <b>2019</b> , 183, 107831	8.6	7
17	Green composites based on avocado seed starch and nano- and micro-scale cellulose. <i>Polymer Composites</i> , <b>2020</b> , 41, 4631-4648	3	5
16	Advanced green composites: New directions. <i>Materials Today: Proceedings</i> , <b>2019</b> , 8, 832-838	1.4	4
15	Fiber Surface Treatment: Relevance to Interfacial Characteristics <b>2012</b> , 1		3
14	Bacterial cellulose integrated irregularly shaped microcapsules enhance self-healing efficiency and mechanical properties of green soy protein resins. <i>Journal of Materials Science</i> , <b>2021</b> , 56, 12030-12047	4.3	3
13	Self-Healing Green Polymers and Composites <b>2018</b> , 135-185		3
12	<b>Green</b> composites based on liquid crystalline cellulose fibers and avocado seed starch. <i>Journal of Materials Science</i> , <b>2021</b> , 56, 6204-6216	4.3	3
11	Direct Assembly of Silica Nanospheres on Halloysite Nanotubes for <b>Green</b> Ultrahydrophobic Cotton Fabrics. <i>Advanced Sustainable Systems</i> , <b>2019</b> , 3, 1900009	5.9	2
10	Comparison of effects of ultraviolet and <sup>60</sup> Co gamma ray irradiation on nylon 6 mono-filaments. <i>Fibers and Polymers</i> , <b>2004</b> , 5, 225-229	2	2
9	Toughening of thermoset green zein resin: A comparison between natural rubber-based additives and plasticizers. <i>Journal of Applied Polymer Science</i> , <b>2020</b> , 137, 48512	2.9	2
8	Fully Biodegradable <b>Green</b> Composites <b>2013</b> , 431-463		1
7	Can We Build with Plants? Cabin Construction Using Green Composites. <i>Journal of Renewable Materials</i> , <b>2015</b> , 3, 244-258	2.4	1

- 6 Green Resins from Plant Sources and Strengthening Mechanisms **2018**, 11-55 1
- 5 Advanced Green Composites with High Strength and Toughness **2018**, 97-110 1
- 4 Environment-Friendly Green Resins and Advanced Green Composites **2014**, 137-155
- 3 Biodegradable Polymer Materials from Proteins Produced by the Animal Coproducts Industry: Bloodmeal **2014**, 201-214
- 2 Laser Surface Modification of Fibers for Improving Fiber/Resin Interfacial Interactions in Composites **2014**, 139-166
- 1 Natural Green Sugar-Based Treatment for Hair Styling. *Fibers*, **2022**, 10, 13 3-7