Anil N Netravali

List of Publications by Year in Descending Order

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	Natural "Green" Sugar-Based Treatment for Hair Styling. *Fibers*, **2022**, 10, 13	3.7	
94	Bacterial cellulose integrated irregularly shaped microcapsules enhance self-healing efficiency and mechanical properties of green soy protein resins. *Journal of Materials Science*, **2021**, 56, 12030-12047	4.3	3
93	Review: Green composites for structural applications. *Composites Part C: Open Access*, **2021**, 6, 100169	1.6	8
92	"Green" composites based on liquid crystalline cellulose fibers and avocado seed starch. *Journal of Materials Science*, **2021**, 56, 6204-6216	4.3	3
91	A Novel Method for Electrospinning Nanofibrous 3-D Structures. *Fibers*, **2020**, 8, 27	3.7	7
90	Multifunctional sucrose acid as a "green" crosslinker for wrinkle-free cotton fabrics. *Cellulose*, **2020**, 27, 5407-5420	5.5	8
89	Bioinspired process using anisotropic silica particles and fatty acid for superhydrophobic cotton fabrics. *Cellulose*, **2020**, 27, 545-559	5.5	9
88	Toughening of thermoset green zein resin: A comparison between natural rubber-based additives and plasticizers. *Journal of Applied Polymer Science*, **2020**, 137, 48512	2.9	2
87	Green composites based on avocado seed starch and nano- and micro-scale cellulose. *Polymer Composites*, **2020**, 41, 4631-4648	3	5
86	A Seed Coating Delivery System for Bio-Based Biostimulants to Enhance Plant Growth. *Sustainability*, **2019**, 11, 5304	3.6	13
85	Direct Assembly of Silica Nanospheres on Halloysite Nanotubes for "Green" Ultrahydrophobic Cotton Fabrics. *Advanced Sustainable Systems*, **2019**, 3, 1900009	5.9	2
84	Towards Sustainable and Multifunctional Air-Filters: A Review on Biopolymer-Based Filtration Materials. *Polymer Reviews*, **2019**, 59, 651-686	14	39
83	Enhancing Strength of Wool Fiber Using a Soy Flour Sugar-Based "Green" Cross-linker. *ACS Omega*, **2019**, 4, 5392-5401	3.9	16
82	Advanced green composites: New directions. *Materials Today: Proceedings*, **2019**, 8, 832-838	1.4	4
81	Self-healing of "green" thermoset zein resins with irregular shaped waxy maize starch-based/poly(D,L-lactic-co-glycolic acid) microcapsules. *Composites Science and Technology*, **2019**, 183, 107831	8.6	7
80	Cyclodextrin-Based "Green" Wrinkle-Free Finishing of Cotton Fabrics. *Industrial & Engineering Chemistry Research*, **2019**, 58, 20496-20504	3.9	16
79	"Green" composites using bioresins from agro-wastes and modified sisal fibers. *Polymer Composites* , **2019**, 40, 99-108	3	15

78	Advanced Green composites using liquid crystalline cellulose fibers and waxy maize starch based resin. *Composites Science and Technology*, **2018**, 162, 110-116	8.6	16
77	Green Resins from Plant Sources and Strengthening Mechanisms **2018**, 11-55		1
76	Advanced Green Composites with High Strength and Toughness **2018**, 97-110		1
75	Self-Healing Green Polymers and Composites **2018**, 135-185		3
74	Self-healing green composites based on soy protein and microfibrillated cellulose. *Composites Science and Technology*, **2017**, 143, 22-30	8.6	29
73	Self-healing starch-based "green" thermoset resin. *Polymer*, **2017**, 117, 150-159	3.9	15
72	High-performance green nanocomposites using aligned bacterial cellulose and soy protein. *Composites Science and Technology*, **2017**, 146, 183-190	8.6	23
71	One-Step Toughening of Soy Protein Based Green Resin Using Electrospun Epoxidized Natural Rubber Fibers. *ACS Sustainable Chemistry and Engineering*, **2017**, 5, 4957-4968	8.3	20
70	Comparison of thermoset soy protein resin toughening by natural rubber and epoxidized natural rubber. *Journal of Applied Polymer Science*, **2017**, 134,	2.9	8
69	Parametric study of protein-encapsulated microcapsule formation and effect on self-healing efficiency of "green" soy protein resin. *Journal of Materials Science*, **2017**, 52, 3028-3047	4.3	15
68	In Situ Produced Bacterial Cellulose Nanofiber-Based Hybrids for Nanocomposites. *Fibers*, **2017**, 5, 31	3.7	16
67	Investigation of Soy Protein-Based Biostimulant Seed Coating for Broccoli Seedling and Plant Growth Enhancement. *Hortscience: A Publication of the American Society for Hortcultural Science*, **2016**, 51, 1121-1126	2.4	35
66	Micro-fibrillated cellulose reinforced eco-friendly polymeric resin from non-edible "Jatropha curcas" seed waste after biodiesel production. *RSC Advances*, **2016**, 6, 47101-47111	3.7	8
65	Self-Healing Properties of Protein Resin with Soy Protein Isolate-Loaded Poly(d,l-lactide-co-glycolide) Microcapsules. *Advanced Functional Materials*, **2016**, 26, 4786-4796	15.6	31
64	Microfibrillated cellulose-reinforced nonedible starch-based thermoset biocomposites. *Journal of Applied Polymer Science*, **2016**, 133,	2.9	22
63	Nonedible Starch Based "Green" Thermoset Resin Obtained via Esterification Using a Green Catalyst. *ACS Sustainable Chemistry and Engineering*, **2016**, 4, 1756-1764	8.3	24
62	Bio-inspired "green" nanocomposite using hydroxyapatite synthesized from eggshell waste and soy protein. *Journal of Applied Polymer Science*, **2016**, 133, n/a-n/a	2.9	19
61	Aligned Bacterial Cellulose Arrays as "Green" Nanofibers for Composite Materials. *ACS Macro Letters*, **2016**, 5, 1070-1074	6.6	36

60	Oriented bacterial cellulose-soy protein based fully "green" nanocomposites. *Composites Science and Technology*, **2016**, 136, 85-93	8.6	18
59	"Green" surface treatment for water-repellent cotton fabrics. *Surface Innovations*, **2016**, 4, 3-13	1.9	17
58	Bio-based polymeric resin from agricultural waste, neem (Azadirachta indica) seed cake, for green composites. *Journal of Applied Polymer Science*, **2015**, 132,	2.9	14
57	Water-resistant plant protein-based nanofiber membranes. *Journal of Applied Polymer Science*, **2015**, 132,	2.9	18
56	Can We Build with Plants? Cabin Construction Using Green Composites. *Journal of Renewable Materials*, **2015**, 3, 244-258	2.4	1
55	Environment-Friendly "Green" Resins and Advanced Green Composites **2014**, 137-155		
54	Biodegradable Polymer Materials from Proteins Produced by the Animal Coproducts Industry: Bloodmeal **2014**, 201-214		
53	Green Resin from Forestry Waste Residue "Karanja (Pongamia pinnata) Seed Cake" for Biobased Composite Structures. *ACS Sustainable Chemistry and Engineering*, **2014**, 2, 2318-2328	8.3	20
52	A Review of Fabrication and Applications of Bacterial Cellulose Based Nanocomposites. *Polymer Reviews*, **2014**, 54, 598-626	14	105
51	Laser Surface Modification of Fibers for Improving Fiber/Resin Interfacial Interactions in Composites **2014**, 139-166		
50	A Composting Study of Membrane-Like Polyvinyl Alcohol Based Resins and Nanocomposites. *Journal of Polymers and the Environment*, **2013**, 21, 658-674	4.5	20
49	Fabrication of advanced "green" composites using potassium hydroxide (KOH) treated liquid crystalline (LC) cellulose fibers. *Journal of Materials Science*, **2013**, 48, 3950-3957	4.3	15
48	Fully Biodegradable "Green" Composites **2013**, 431-463		1
47	A soy flour based thermoset resin without the use of any external crosslinker. *Green Chemistry*, **2013**, 15, 3243	10	58
46	Halloysite nanotube reinforced biodegradable nanocomposites using noncrosslinked and malonic acid crosslinked polyvinyl alcohol. *Polymer Composites*, **2013**, 34, 799-809	3	48
45	Cross-Linked Waxy Maize Starch-Based "Green" Composites. *ACS Sustainable Chemistry and Engineering*, **2013**, 1, 1537-1544	8.3	45
44	Performance of protein-based wood bioadhesives and development of small-scale test method for characterizing properties of adhesive-bonded wood specimens. *Journal of Adhesion Science and Technology*, **2013**, 27, 2083-2093	2	15
43	Mechanical properties and biodegradability of electrospun soy protein Isolate/PVA hybrid nanofibers. *Polymer Degradation and Stability*, **2012**, 97, 747-754	4.7	57

(2009-2012)

42	Fabrication and characterization of biodegradable composites based on microfibrillated cellulose and polyvinyl alcohol. *Composites Science and Technology*, **2012**, 72, 1588-1594	8.6	114
41	Non-food application of camelina meal: Development of sustainable and green biodegradable paper-camelina composite sheets and fibers. *Polymer Composites*, **2012**, 33, 1969-1976	3	10
40	Effect of Halloysite Nanotube Incorporation in Epoxy Resin and Carbon Fiber Ethylene/Ammonia Plasma Treatment on Their Interfacial Property. *Journal of Adhesion Science and Technology*, **2012**, 26, 1295-1312	2	15
39	'Green' crosslinking of native starches with malonic acid and their properties. *Carbohydrate Polymers*, **2012**, 90, 1620-8	10.3	72
38	Fiber Surface Treatment: Relevance to Interfacial Characteristics **2012**, 1		3
37	Physical Properties of Biodegradable Films of Soy Protein Concentrate/Gelling Agent Blends. *Macromolecular Materials and Engineering*, **2012**, 297, 176-183	3.9	13
36	Bacterial cellulose-based membrane-like biodegradable composites using cross-linked and noncross-linked polyvinyl alcohol. *Journal of Materials Science*, **2012**, 47, 6066-6075	4.3	50
35	Improving Resin and Film Forming Properties of Native Starches by Chemical and Physical Modification. *Journal of Biobased Materials and Bioenergy*, **2012**, 6, 1-24	1.4	21
34	Development of aligned-hemp yarn-reinforced green composites with soy protein resin: Effect of pH on mechanical and interfacial properties. *Composites Science and Technology*, **2011**, 71, 541-547	8.6	34
33	Adhesion Promotion in Fibers and Textiles Using Photonic Surface Modifications. *Journal of Adhesion Science and Technology*, **2010**, 24, 45-75	2	22
32	Characterization of Interface Properties of Clay Nanoplatelet-Filled Epoxy Resin and Carbon Fiber by Single Fiber Composite Technique. *Journal of Adhesion Science and Technology*, **2010**, 24, 217-236	2	8
31	Effect of Protein Content in Soy Protein Resins on Their Interfacial Shear Strength with Ramie Fibers. *Journal of Adhesion Science and Technology*, **2010**, 24, 203-215	2	21
30	Mechanical, thermal, and interfacial properties of green composites with ramie fiber and soy resins. *Journal of Agricultural and Food Chemistry*, **2010**, 58, 5400-7	5.7	71
29	Mercerization of sisal fibers: Effect of tension on mechanical properties of sisal fiber and fiber-reinforced composites. *Composites Part A: Applied Science and Manufacturing*, **2010**, 41, 1245-1252	8.4	161
28	Elastic Properties of Green Composites Reinforced with Ramie Twisted Yarn. *Journal of Solid Mechanics and Materials Engineering*, **2010**, 4, 1605-1614		12
27	Electrospun Hybrid Soy Protein/PVA Fibers. *Macromolecular Materials and Engineering*, **2010**, 295, 763-773	3.9	50
26	Mechanical and Thermal Properties of Sisal Fiber-Reinforced Green Composites with Soy Protein/Gelatin Resins. *Journal of Biobased Materials and Bioenergy*, **2010**, 4, 338-345	1.4	12
25	Biodegradable green composites made using bamboo micro/nano-fibrils and chemically modified soy protein resin. *Composites Science and Technology*, **2009**, 69, 1009-1015	8.6	137

24	Environmentally Friendly Green Materials from Plant-Based Resources: Modification of Soy Protein using Gellan and Micro/Nano-Fibrillated Cellulose. *Journal of Macromolecular Science - Pure and Applied Chemistry*, **2008**, 45, 899-906	2.2	19
23	Characterization of flax fiber reinforced soy protein resin based green composites modified with nano-clay particles. *Composites Science and Technology*, **2007**, 67, 2005-2014	8.6	140
22	The effect of silica (SiO2) nanoparticles and ammonia/ethylene plasma treatment on the interfacial and mechanical properties of carbon-fiber-reinforced epoxy composites. *Journal of Adhesion Science and Technology*, **2007**, 21, 1407-1424	2	20
21	Advanced 'green' composites. *Advanced Composite Materials*, **2007**, 16, 269-282	2.8	64
20	Green composites. I. physical properties of ramie fibers for environment-friendly green composites. *Fibers and Polymers*, **2006**, 7, 372-379	2	90
19	Green composites. II. Environment-friendly, biodegradable composites using ramie fibers and soy protein concentrate (SPC) resin. *Fibers and Polymers*, **2006**, 7, 380-388	2	54
18	Carbon fibers as a novel material for high-performance microelectromechanical systems (MEMS). *Journal of Micromechanics and Microengineering*, **2006**, 16, 1403-1407	2	11
17	Characterization of nano-clay reinforced phytagel-modified soy protein concentrate resin. *Biomacromolecules*, **2006**, 7, 2783-9	6.9	66
16	Effect of soy protein isolate resin modifications on their biodegradation in a compost medium. *Polymer Degradation and Stability*, **2005**, 87, 465-477	4.7	33
15	Thermal and mechanical properties of environment-friendly "green" plastics from stearic acid modified-soy protein isolate. *Industrial Crops and Products*, **2005**, 21, 49-64	5.9	161
14	Characterization of stearic acid modified soy protein isolate resin and ramie fiber reinforced "green" composites. *Composites Science and Technology*, **2005**, 65, 1211-1225	8.6	129
13	"Green" composites Part 1: Characterization of flax fabric and glutaraldehyde modified soy protein concentrate composites. *Journal of Materials Science*, **2005**, 40, 6263-6273	4.3	84
12	"Green" composites Part 2: Characterization of flax yarn and glutaraldehyde/poly(vinyl alcohol) modified soy protein concentrate composites. *Journal of Materials Science*, **2005**, 40, 6275-6282	4.3	52
11	Characterization of Phytagel modified soy protein isolate resin and unidirectional flax yarn reinforced "green" composites. *Polymer Composites*, **2005**, 26, 647-659	3	62
10	Characterization of ramie fiber/soy protein concentrate (SPC) resin interface. *Journal of Adhesion Science and Technology*, **2004**, 18, 1063-1076	2	33
9	Comparison of effects of ultraviolet and60Co gamma ray irradiation on nylon 6 mono-filaments. *Fibers and Polymers*, **2004**, 5, 225-229	2	2
8	'Green' Composites Using Modified Soy Protein Concentrate Resin and Flax Fabrics and Yarns. *JSME International Journal Series A-Solid Mechanics and Material Engineering*, **2004**, 47, 556-560		17
7	Composites get greener. *Materials Today*, **2003**, 6, 22-29	21.8	436

6	Characterization of interfacial and mechanical properties of green composites with soy protein isolate and ramie fiber. *Journal of Materials Science*, **2002**, 37, 3657-3665	4.3	149
5	Effects of a pulsed XeCl excimer laser on ultra-high strength polyethylene fiber and its interface with epoxy resin. *Journal of Adhesion Science and Technology*, **1999**, 13, 501-516	2	19
4	Excimer laser surface modification of ultra-high-strength polyethylene fibers for enhanced adhesion with epoxy resins. Part 1. Effect of laser operating parameters. *Journal of Adhesion Science and Technology*, **1998**, 12, 957-982	2	55
3	Excimer laser surface modification of ultra-high-strength polyethylene fibers for enhanced adhesion with epoxy resins. Part 2. Effect of treatment environment. *Journal of Adhesion Science and Technology*, **1998**, 12, 983-998	2	28
2	Ethylene/ ammonia plasma polymer deposition for controlled adhesion of graphite fibers to PEEK. *Journal of Adhesion Science and Technology*, **1995**, 9, 1475-1503	2	35
1	A Numerical and Experimental Study of Delaminated Layered Composites. *Journal of Composite Materials*, **1994**, 28, 837-870	2.7	30