

# Nalin De Silva

## List of Publications by Year in descending order

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Version: 2024-02-01

60  
papers

2,494  
citations

186209

28  
h-index

197736

49  
g-index

60  
all docs

60  
docs citations

60  
times ranked

3346  
citing authors

#	ARTICLE	IF	CITATIONS
1	Electrospun Fibers in Drug Delivery. , 2022, , 159-181.		1
2	Low-temperature thermocatalytic particulate carbon decomposition via urea solution-combustion derived CeO <sub>2</sub> nanostructures. Journal of Rare Earths, 2021, 39, 67-74.	2.5	8
3	Microwave assisted accelerated fluoride adsorption by porous nanohydroxyapatite. Materials Chemistry and Physics, 2021, 257, 123712.	2.0	20
4	Combined Zr and Y phosphate coatings reinforced with chemically anchored B <sub>2</sub> O <sub>3</sub> for the oxidation inhibition of carbon fiber. Materialia, 2021, 15, 100984.	1.3	5
5	Industrial and environmental significance of photonic zirconia nanoflakes: Influence of boron doping on structure and band states. Journal of Industrial and Engineering Chemistry, 2021, 95, 203-214.	2.9	3
6	Biopolymer-Based Nanohydroxyapatite Composites for the Removal of Fluoride, Lead, Cadmium, and Arsenic from Water. ACS Omega, 2021, 6, 8517-8530.	1.6	39
7	Infrared absorbing nanoparticle impregnated self-heating fabrics for significantly improved moisture management under ambient conditions. Royal Society Open Science, 2021, 8, 202222.	1.1	2
8	Structure-Activity Relationship of Lanthanide-Incorporated Nano-Hydroxyapatite for the Adsorption of Fluoride and Lead. ACS Omega, 2021, 6, 13527-13543.	1.6	10
9	Magnetite nanoparticles incorporated porous kaolin as a superior heavy metal sorbent for water purification. Groundwater for Sustainable Development, 2021, 14, 100606.	2.3	13
10	Nano-manganese oxide and reduced graphene oxide-incorporated polyacrylonitrile fiber mats as an electrode material for capacitive deionization (CDI) technology. Nanoscale Advances, 2021, 3, 2585-2597.	2.2	11
11	Nanomagnetite- and Nanotitania-Incorporated Polyacrylonitrile Nanofibers for Simultaneous Cd(II)- and As(V)-Ion Removal Applications. ACS Omega, 2021, 6, 28171-28181.	1.6	2
12	Recent developments in the use of organic-inorganic nanohybrids for drug delivery. Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology, 2020, 12, e1605.	3.3	28
13	A magnetically retrievable air and moisture stable gold and palladium nanocatalyst for efficient C-C coupling reactions. Royal Society Open Science, 2020, 7, 200916.	1.1	4
14	Gold nanoparticle decorated titania for sustainable environmental remediation: green synthesis, enhanced surface adsorption and synergistic photocatalysis. RSC Advances, 2020, 10, 29594-29602.	1.7	22
15	Nanofibrous cosmetic face mask for transdermal delivery of nano gold: synthesis, characterization, release and zebra fish employed toxicity studies. Royal Society Open Science, 2020, 7, 201266.	1.1	16
16	Curcumin loaded zinc oxide nanoparticles for activity-enhanced antibacterial and anticancer applications. RSC Advances, 2020, 10, 30785-30795.	1.7	66
17	Shape-stabilization of polyethylene glycol phase change materials with chitin nanofibers for applications in smart windows. Carbohydrate Polymers, 2020, 237, 116132.	5.1	26
18	Colloidal stability of chitin nanofibers in aqueous systems: Effect of pH, ionic strength, temperature & concentration. Carbohydrate Polymers, 2020, 235, 116024.	5.1	28

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19	Fibrous keratin protein bio micro structure for efficient removal of hazardous dye waste from water: Surface charge mediated interfaces for multiple adsorption desorption cycles. <i>Materials Chemistry and Physics</i> , 2020, 246, 122790.	2.0	30
20	Titanium carbide ceramic nanocrystals to enhance the physicochemical properties of natural rubber composites. <i>RSC Advances</i> , 2020, 10, 19290-19299.	1.7	10
21	Synthesis of calcium carbonate microcapsules as self-healing containers. <i>RSC Advances</i> , 2019, 9, 23666-23677.	1.7	11
22	Facile and low-cost synthesis of pure hematite ( $\text{Fe}_2\text{O}_3$ ) nanoparticles from naturally occurring laterites and their superior adsorption capability towards acid-dyes. <i>RSC Advances</i> , 2019, 9, 21249-21257.	1.7	29
23	The effect of collection substrate on electrospun ciprofloxacin-loaded poly(vinylpyrrolidone) and ethyl cellulose nanofibers as potential wound dressing materials. <i>Materials Science and Engineering C</i> , 2019, 104, 109917.	3.8	49
24	Effect of networked hybridized nanoparticle reinforcement on the thermal conductivity and mechanical properties of natural rubber composites. <i>RSC Advances</i> , 2019, 9, 636-644.	1.7	12
25	Tunable drug release from blend poly(vinyl pyrrolidone)-ethyl cellulose nanofibers. <i>International Journal of Pharmaceutics</i> , 2019, 562, 172-179.	2.6	54
26	Akaganeite nanorices deposited muscovite mica surfaces as sunlight active green photocatalyst. <i>Royal Society Open Science</i> , 2019, 6, 182212.	1.1	9
27	Eco-Friendly, Green Packaging Materials from Akaganeite and Hematite Nanoparticle-Reinforced Chitosan Nanocomposite Films. <i>Journal of Nanomaterials</i> , 2019, 2019, 1-11.	1.5	7
28	Improved nanocomposite of montmorillonite and hydroxyapatite for defluoridation of water. <i>RSC Advances</i> , 2019, 9, 35588-35598.	1.7	25
29	Carbon quantum dots-decorated nano-zirconia: A highly efficient photocatalyst. <i>Applied Catalysis A: General</i> , 2019, 570, 23-30.	2.2	40
30	Effective delivery of hydrophobic drugs to breast and liver cancer cells using a hybrid inorganic nanocarrier: A detailed investigation using cytotoxicity assays, fluorescence imaging and flow cytometry. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2018, 128, 18-26.	2.0	33
31	Heterogeneous in situ polymerization of polyaniline (PANI) nanofibers on cotton textiles: Improved electrical conductivity, electrical switching, and tuning properties. <i>Carbohydrate Polymers</i> , 2018, 186, 35-44.	5.1	73
32	Heterogeneous photocatalytic degradation of toluene in static environment employing thin films of nitrogen-doped nano-titanium dioxide. <i>International Nano Letters</i> , 2018, 8, 31-39.	2.3	20
33	Synthesis of multifunctional activated carbon nanocomposite comprising biocompatible flake nano hydroxyapatite and natural turmeric extract for the removal of bacteria and lead ions from aqueous solution. <i>Chemistry Central Journal</i> , 2018, 12, 18.	2.6	30
34	Metal and polymer-mediated synthesis of porous crystalline hydroxyapatite nanocomposites for environmental remediation. <i>Royal Society Open Science</i> , 2018, 5, 171557.	1.1	39
35	Photocatalytic activity of ZnO nanoparticle encapsulated poly(acrylonitrile) nanofibers. <i>Materials Chemistry and Physics</i> , 2018, 204, 195-206.	2.0	38
36	Photocatalytic activity of electrospun MgO nanofibres: Synthesis, characterization and applications. <i>Materials Research Bulletin</i> , 2018, 99, 204-210.	2.7	49

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37	Magnetofection and isolation of DNA using polyethyleneimine functionalized magnetic iron oxide nanoparticles. Royal Society Open Science, 2018, 5, 181369.	1.1	16
38	Fabrication of 6-gingerol, doxorubicin and alginate hydroxyapatite into a bio-compatible formulation: enhanced anti-proliferative effect on breast and liver cancer cells. Chemistry Central Journal, 2018, 12, 119.	2.6	29
39	Drug-Loaded Halloysite Nanotube-Reinforced Electrospun Alginate-Based Nanofibrous Scaffolds with Sustained Antimicrobial Protection. ACS Applied Materials & Interfaces, 2018, 10, 33913-33922.	4.0	72
40	The state of nanomedicine in Sri Lanka: challenges and opportunities. Journal of Interdisciplinary Nanomedicine, 2018, 3, 32-37.	3.6	1
41	In-situ formation of supramolecular aggregates between chitin nanofibers and silver nanoparticles. Carbohydrate Polymers, 2017, 173, 295-304.	5.1	20
42	Carbon black functionalized stretchable conductive fabrics for wearable heating applications. RSC Advances, 2017, 7, 19174-19180.	1.7	68
43	pH responsive controlled release of anti-cancer hydrophobic drugs from sodium alginate and hydroxyapatite bi-coated iron oxide nanoparticles. European Journal of Pharmaceutics and Biopharmaceutics, 2017, 117, 29-38.	2.0	97
44	Is nano ZrO <sub>2</sub> a better photocatalyst than nano TiO <sub>2</sub> for degradation of plastics?. RSC Advances, 2017, 7, 46155-46163.	1.7	38
45	Nano-MgO reinforced chitosan nanocomposites for high performance packaging applications with improved mechanical, thermal and barrier properties. Carbohydrate Polymers, 2017, 157, 739-747.	5.1	155
46	Magnesium Oxide Nanoparticles Reinforced Electrospun Alginate-Based Nanofibrous Scaffolds with Improved Physical Properties. International Journal of Biomaterials, 2017, 2017, 1-9.	1.1	55
47	Nanosilver rainbow: a rapid and facile method to tune different colours of nanosilver through the controlled synthesis of stable spherical silver nanoparticles. RSC Advances, 2016, 6, 48792-48799.	1.7	38
48	Natural polysaccharides leading to super adsorbent hydroxyapatite nanoparticles for the removal of heavy metals and dyes from aqueous solutions. RSC Advances, 2016, 6, 105618-105630.	1.7	50
49	Double layer approach to create durable superhydrophobicity on cotton fabric using nano silica and auxiliary non fluorinated materials. Applied Surface Science, 2016, 360, 777-788.	3.1	67
50	Ultrasound energy to accelerate dye uptake and dye-fiber interaction of reactive dye on knitted cotton fabric at low temperatures. Ultrasonics Sonochemistry, 2016, 29, 270-278.	3.8	68
51	Synthesis, characterization, and application of nano hydroxyapatite and nanocomposite of hydroxyapatite with granular activated carbon for the removal of Pb <sup>2+</sup> from aqueous solutions. Applied Surface Science, 2015, 351, 95-103.	3.1	97
52	Coloration of cotton fibers using nano chitosan. Carbohydrate Polymers, 2015, 134, 182-189.	5.1	21
53	Biocompatible nano hydroxyapatite - curcumin bi-coated antibacterial activated carbon for water purification. RSC Advances, 2015, 5, 64696-64703.	1.7	10
54	A curcumin activated carboxymethyl cellulose-montmorillonite clay nanocomposite having enhanced curcumin release in aqueous media. Carbohydrate Polymers, 2015, 134, 695-699.	5.1	62

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55	Slightly carbomethylated cotton supported TiO <sub>2</sub> nanoparticles as self-cleaning fabrics. <i>Journal of Molecular Catalysis A</i> , 2015, 398, 107-114.	4.8	25
56	Hydrophobic cotton textile surfaces using an amphiphilic graphene oxide (GO) coating. <i>Applied Surface Science</i> , 2015, 324, 455-463.	3.1	130
57	A method for top down preparation of chitosan nanoparticles and nanofibers. <i>Carbohydrate Polymers</i> , 2015, 117, 731-738.	5.1	74
58	Side selective surface modification of chitin nanofibers on anionically modified cotton fabrics. <i>Carbohydrate Polymers</i> , 2014, 109, 56-63.	5.1	22
59	Meso- $\mu^2$ doubly linked and meso- $\mu^2$ meso- $\mu^2$ triply linked oligoporphyrin molecular tapes as potential non linear optical (NLO) materials: quantum chemical calculations. <i>Computational and Theoretical Chemistry</i> , 2005, 726, 39-45.	1.5	4
60	Non-linear optical properties of novel fluorenyl derivatives- <i>ab initio</i> quantum chemical calculations. <i>Computational and Theoretical Chemistry</i> , 2002, 617, 169-175.	1.5	413