

Saravanan Nagappan

List of Publications by Year in descending order

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Version: 2024-02-01

52
papers

1,310
citations

393982

19
h-index

360668

35
g-index

52
all docs

52
docs citations

52
times ranked

1346
citing authors

#	ARTICLE	IF	CITATIONS
1	Recent Advances in durability of superhydrophobic self-cleaning technology: A critical review. <i>Progress in Organic Coatings</i> , 2020, 138, 105381.	1.9	266
2	Recent developments in air-trapped superhydrophobic and liquid-infused slippery surfaces for anti-icing application. <i>Progress in Organic Coatings</i> , 2019, 137, 105373.	1.9	129
3	Emerging trends in superhydrophobic surface based magnetic materials: fabrications and their potential applications. <i>Journal of Materials Chemistry A</i> , 2015, 3, 3224-3251.	5.2	90
4	Bio-inspired, multi-purpose and instant superhydrophobicâ€“superoleophilic lotus leaf powder hybrid microâ€“nanocomposites for selective oil spill capture. <i>Journal of Materials Chemistry A</i> , 2013, 1, 6761.	5.2	64
5	Sawdust-based superhydrophobic pellets for efficient oil-water separation. <i>Materials Chemistry and Physics</i> , 2020, 243, 122634.	2.0	63
6	Synthesis and characterization of highly transparent and hydrophobic fluorinated polyimides derived from perfluorodecylthio substituted diamine monomers. <i>Journal of Polymer Science Part A</i> , 2015, 53, 479-488.	2.5	55
7	Recent Advances in Superhydrophobic Nanomaterials and Nanoscale Systems. <i>Journal of Nanoscience and Nanotechnology</i> , 2014, 14, 1441-1462.	0.9	43
8	Highly transparent, hydrophobic fluorinated polymethylsiloxane/silica organic-inorganic hybrids for anti-stain coating. <i>Macromolecular Research</i> , 2013, 21, 669-680.	1.0	38
9	A highly transparent, amphiphobic, stable and multi-purpose poly(vinyl chloride) metallopolymer for anti-fouling and anti-staining coatings. <i>Journal of Materials Chemistry A</i> , 2013, 1, 12144.	5.2	36
10	Highly Transparent, Robust Hydrophobic, and Amphiphilic Organicâ€“Inorganic Hybrid Coatings for Antifogging and Antibacterial Applications. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 6615-6630.	4.0	35
11	Superior one-pot synthesis of a doped graphene oxide electrode for a high power density supercapacitor. <i>New Journal of Chemistry</i> , 2018, 42, 11093-11101.	1.4	34
12	Sulfamerazine Schiff-base complex intercalated layered double hydroxide: synthesis, characterization, and antimicrobial activity. <i>Heliyon</i> , 2019, 5, e01521.	1.4	26
13	Fabrication of robust self-cleaning superhydrophobic coating by deposition of polymer layer on candle soot surface. <i>Journal of Applied Polymer Science</i> , 2021, 138, 49943.	1.3	26
14	Heteroatom-doped nanomaterials/coreâ€“shell nanostructure based electrocatalysts for the oxygen reduction reaction. <i>Journal of Materials Chemistry A</i> , 2022, 10, 987-1021.	5.2	24
15	Polyethyleneimine-grafted polysilsesquioxane hollow spheres for the highly efficient removal of anionic dyes and selective adsorption of Cr(VI). <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 104814.	3.3	23
16	Superhydrophobic mesoporous material as a pH-sensitive organic dye adsorbent. <i>Journal of Industrial and Engineering Chemistry</i> , 2015, 22, 288-295.	2.9	21
17	One-pot synthesis of multi-functional magnetiteâ€“polysilsesquioxane hybrid nanoparticles for the selective Fe ³⁺ and some heavy metal ions adsorption. <i>RSC Advances</i> , 2017, 7, 19106-19116.	1.7	21
18	Hexadecyltrimethylammonium Bromide Surfactant-Supported Silica Material for the Effective Adsorption of Metanil Yellow Dye. <i>ACS Omega</i> , 2019, 4, 8548-8558.	1.6	21

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19	Silver nanoparticles impregnated pH-responsive nanohybrid system for the catalytic reduction of dyes. <i>Microporous and Mesoporous Materials</i> , 2020, 303, 110260.	2.2	21
20	Polymethylhydrosiloxane-based organic-inorganic hybrids for amphiphobic coatings. <i>Composite Interfaces</i> , 2013, 20, 33-43.	1.3	19
21	Palladium nanoparticles-anchored dual-responsive SBA-15-PNIPAM/PMAA nanoreactor: a novel heterogeneous catalyst for a green Suzuki-Miyaura cross-coupling reaction. <i>RSC Advances</i> , 2020, 10, 28193-28204.	1.7	19
22	Pd nanoparticle incorporated mesoporous silicas with excellent catalytic activity and dual responsiveness. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2020, 585, 124074.	2.3	17
23	Octadecyltrichlorosilane-Modified Superhydrophobic-Superoleophilic Stainless Steel Mesh for Oil-Water Separation. <i>Macromolecular Symposia</i> , 2021, 400, .	0.4	15
24	Polynorbornene/fluorosilica hybrids for hydrophobic and oleophobic coatings. <i>Polymer Bulletin</i> , 2013, 70, 619-630.	1.7	14
25	Facile synthesis of silver nanoparticles stabilized dual responsive silica nanohybrid: A highly active switchable catalyst for oxidation of alcohols in aqueous medium. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2021, 611, 125846.	2.3	14
26	Superhydrophobic Al ₂ O ₃ -Polymer Composite Coating for Self-Cleaning Applications. <i>Coatings</i> , 2021, 11, 1162.	1.2	14
27	Recent Advances on Conducting Polymer-Supported Nanocomposites for Nonenzymatic Electrochemical Sensing. <i>Industrial & Engineering Chemistry Research</i> , 2021, 60, 13425-13437.	1.8	12
28	Superhydrophobic and self-cleaning natural leaf powder/poly(methylhydroxysiloxane) hybrid micro-nanocomposites. <i>Macromolecular Research</i> , 2014, 22, 843-852.	1.0	11
29	In-situ addition of graphene oxide for improving the thermal stability of superhydrophobic hybrid materials. <i>Polymer</i> , 2017, 116, 412-422.	1.8	11
30	Synthesis and functionalisation of mesoporous materials for transparent coatings and organic dye adsorption. <i>New Journal of Chemistry</i> , 2018, 42, 10254-10262.	1.4	11
31	Polyketone nanofiber: an effective reinforcement for the development of novel UV-curable, highly transparent and flexible polyurethane nanocomposite films. <i>Polymer International</i> , 2020, 69, 1008-1017.	1.6	11
32	Dual (thermo-/pH-) responsive P(NIPAM-co-AA-co-HEMA) nanocapsules for controlled release of 5-fluorouracil. <i>Journal of Macromolecular Science - Pure and Applied Chemistry</i> , 2021, 58, 860-871.	1.2	11
33	Transition metal oxy/hydroxides functionalized flexible halloysite nanotubes for hydrogen evolution reaction. <i>Journal of Colloid and Interface Science</i> , 2022, 618, 518-528.	5.0	11
34	Metal-free pristine halloysite nanotubes: Electrochemically active and stable oxygen evolution reaction. <i>Applied Clay Science</i> , 2022, 219, 106442.	2.6	10
35	Preparation and properties of poly(lactic acid)/lipophilized graphene oxide nanohybrids. <i>Polymer International</i> , 2018, 67, 91-99.	1.6	9
36	Dual Stimuli-Responsive Copper Nanoparticles Decorated SBA-15: A Highly Efficient Catalyst for the Oxidation of Alcohols in Water. <i>Nanomaterials</i> , 2020, 10, 2051.	1.9	8

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37	Ethylene vinyl acetate (EVA)/poly(lactic acid) (PLA) blends and their foams. <i>Molecular Crystals and Liquid Crystals</i> , 2020, 707, 38-45.	0.4	8
38	Implementation of heteroatom-doped nanomaterial/core-shell nanostructure based electrocatalysts for fuel cells and metal-ion/air/sulfur batteries. <i>Materials Advances</i> , 2022, 3, 6096-6124.	2.6	8
39	Camellia japonica-polysiloxane based superhydrophobic hybrid powder for the selective adsorption of metal ions from a mixture of metal ions in artificial sea water. <i>Journal of Porous Materials</i> , 2015, 22, 229-238.	1.3	7
40	Dual stimuli-responsive silver nanoparticles decorated SBA-15 hybrid catalyst for selective oxidation of alcohols under mild conditions. <i>Microporous and Mesoporous Materials</i> , 2021, 311, 110697.	2.2	7
41	Superhydrophobic hybrid micro-nanocomposites for non-stick and self-cleaning coatings. <i>Composite Interfaces</i> , 2014, 21, 597-609.	1.3	6
42	Superhydrophobic Hybrid Micro-Nanocomposites with Various Applications. <i>Macromolecular Symposia</i> , 2015, 358, 202-211.	0.4	4
43	Stimuli-Responsive Smart Polymeric Coatings: An Overview. , 2016, , 27-49.		4
44	Thermally stable superhydrophobic polymethylhydrosiloxane nanohybrids with liquid marble-like structure. <i>Macromolecular Research</i> , 2017, 25, 387-390.	1.0	4
45	Photocatalytic and Superhydrophilic TiO ₂ /SiO ₂ Coatings on Marble for Self-Cleaning Applications. <i>Macromolecular Symposia</i> , 2021, 400, 2100083.	0.4	3
46	Properties of hydrophobically-modified graphene oxide (HG)/butyl rubber (IIR) nanocomposites prepared by shear mixing process. <i>Composite Interfaces</i> , 2016, 23, 819-829.	1.3	2
47	UV-curable organic-inorganic hybrid hard coatings for metal sheets. <i>Journal of Coatings Technology Research</i> , 2019, 16, 771-780.	1.2	2
48	Transparent and Hard Siloxane Based Hybrid UV-Curable Coating Materials with Amphiphobic Properties. <i>Journal of Nanoscience and Nanotechnology</i> , 2021, 21, 4450-4456.	0.9	1
49	Synthesis of size-controlled and highly monodispersed silica nanoparticles using a short alkyl-chain fluorinated surfactant. <i>RSC Advances</i> , 2021, 11, 2194-2201.	1.7	1
50	Cover Image, Volume 67, Issue 1. <i>Polymer International</i> , 2018, 67, i-i.	1.6	0
51	Superhydrophobic Polymer/Nanoparticle Hybrids. , 2021, , 91-116.		0
52	Vulcanization behavior and mechanical properties of isoprene-modified silica reinforced butyl rubber composites. <i>Molecular Crystals and Liquid Crystals</i> , 2020, 707, 46-58.	0.4	0