

Sridhar Vadahanambi

List of Publications by Year in descending order

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papers

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citations

236612

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62
docs citations

62
times ranked

3055
citing authors

#	ARTICLE	IF	CITATIONS
1	Grapheneâ€“Nanotubeâ€“Iron Hierarchical Nanostructure as Lithium Ion Battery Anode. ACS Nano, 2013, 7, 4242-4251.	7.3	192
2	Electro-active grapheneâ€“Nafion actuators. Carbon, 2011, 49, 1279-1289.	5.4	187
3	Defect-Engineered Three-Dimensional Grapheneâ€“Nanotubeâ€“Palladium Nanostructures with Ultrahigh Capacitance. ACS Nano, 2012, 6, 10562-10570.	7.3	141
4	Graphene reinforced biodegradable poly(3-hydroxybutyrate-co-4-hydroxybutyrate) nano-composites. EXPRESS Polymer Letters, 2013, 7, 320-328.	1.1	110
5	Synthesis of graphene nano-sheets using eco-friendly chemicals and microwave radiation. Carbon, 2010, 48, 2953-2957.	5.4	101
6	Electro-active nano-composite actuator based on fullerene-reinforced Nafion. Composites Science and Technology, 2010, 70, 584-592.	3.8	85
7	Arsenic Removal from Contaminated Water Using Three-Dimensional Graphene-Carbon Nanotube-Iron Oxide Nanostructures. Environmental Science & Technology, 2013, 47, 130904083814004.	4.6	79
8	An ionic liquid-assisted method for splitting carbon nanotubes to produce graphene nano-ribbons by microwave radiation. Carbon, 2013, 53, 391-398.	5.4	65
9	Electrospun Fullerenol-Cellulose Biocompatible Actuators. Biomacromolecules, 2011, 12, 2048-2054.	2.6	59
10	Microwave syntheses of graphene and graphene decorated with metal nanoparticles. Carbon, 2011, 49, 4449-4457.	5.4	59
11	Microwave synthesis of nitrogen-doped carbon nanotubes anchored on graphene substrates. Carbon, 2015, 87, 186-192.	5.4	45
12	Impedance analysis and electromagnetic interference shielding effectiveness of conductive carbon black reinforced microcellular EPDM rubber vulcanizates. Polymer Composites, 2008, 29, 465-472.	2.3	43
13	Fluoroelastomerâ€“MWNT nanocompositesâ€“1: Dispersion, morphology, physicoâ€“mechanical, and thermal properties. Polymer Composites, 2009, 30, 121-130.	2.3	43
14	A coagulation technique for purification of graphene sheets with grapheneâ€“reinforced PVA hydrogel as byproduct. Journal of Colloid and Interface Science, 2010, 348, 384-387.	5.0	42
15	Carbon nanofiber linked FeS ₂ mesoporous nano-alloys as high capacity anodes for lithium-ion batteries and supercapacitors. Journal of Alloys and Compounds, 2018, 732, 799-805.	2.8	40
16	Dielectric properties of exfoliated graphite reinforced flouroelastomer composites. Journal of Applied Polymer Science, 2009, 111, 1358-1368.	1.3	37
17	The effect of physical treatments of waste rubber powder on the mechanical properties of the revulcanizate. Journal of Applied Polymer Science, 2009, 112, 3048-3056.	1.3	36
18	Barrier properties of chlorobutyl nanoclay composites. Journal of Applied Polymer Science, 2006, 101, 3630-3637.	1.3	35

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19	Graphene “ carbon nanotube “ Mn ₃ O ₄ mesoporous nano-alloys as high capacity anodes for lithium-ion batteries. <i>Journal of Alloys and Compounds</i> , 2017, 699, 106-111.	2.8	35
20	Carbon sheathed molybdenum nitride nanoparticles anchored on reduced graphene oxide as high-capacity sodium-ion battery anodes and supercapacitors. <i>New Journal of Chemistry</i> , 2018, 42, 5668-5673.	1.4	34
21	Fly ash reinforced thermoplastic vulcanizates obtained from waste tire powder. <i>Waste Management</i> , 2009, 29, 1058-1066.	3.7	33
22	Microwave extraction of graphene from carbon fibers. <i>Carbon</i> , 2011, 49, 222-226.	5.4	33
23	Manganese nitride stabilized on reduced graphene oxide substrate for high performance sodium ion batteries, super-capacitors and EMI shielding. <i>Journal of Alloys and Compounds</i> , 2019, 808, 151748.	2.8	31
24	Hydroquinone as a single precursor for concurrent reduction and growth of carbon nanotubes on graphene oxide. <i>RSC Advances</i> , 2015, 5, 68270-68275.	1.7	29
25	Effect of fillers on the relaxation behavior of chlorobutyl vulcanizates. <i>Journal of Applied Polymer Science</i> , 2006, 100, 3161-3173.	1.3	26
26	Hollow SnO ₂ @carbon core“shell spheres stabilized on reduced graphene oxide for high-performance sodium-ion batteries. <i>New Journal of Chemistry</i> , 2017, 41, 442-446.	1.4	26
27	Nitrogen doped holey carbon nano-sheets as anodes in sodium ion battery. <i>RSC Advances</i> , 2016, 6, 38112-38116.	1.7	25
28	Electro-chemo-mechanical characteristics of fullerene-reinforced ionic polymer“metal composite transducers. <i>Smart Materials and Structures</i> , 2010, 19, 075009.	1.8	24
29	Dielectric properties of nanotube reinforced butyl elastomer composites. <i>Journal of Applied Polymer Science</i> , 2009, 113, 1690-1700.	1.3	23
30	Carbon encapsulated cobalt sulfide nano-particles anchored on reduced graphene oxide as high capacity anodes for sodium-ion batteries and glucose sensor. <i>Journal of Alloys and Compounds</i> , 2018, 764, 490-497.	2.8	23
31	Taguchi method for optimization of reaction conditions in microwave glycolysis of waste PET. <i>Journal of Material Cycles and Waste Management</i> , 2020, 22, 664-672.	1.6	23
32	Microwave synthesis of three dimensional graphene-based shell-plate hybrid nanostructures. <i>Carbon</i> , 2013, 61, 633-639.	5.4	20
33	Preparation and characterization of polypropylene and waste tire powder modified by allylamine blends. <i>Polymers for Advanced Technologies</i> , 2009, 20, 620-625.	1.6	18
34	Optimization of carbon black and nanoclay filler loading in chlorobutyl vulcanizates using response surface methodology. <i>Polymer Composites</i> , 2009, 30, 691-701.	2.3	18
35	Dielectric studies of conductive carbon black reinforced microcellular ethylene“propylene“diene monomer vulcanizates. <i>Journal of Applied Polymer Science</i> , 2007, 106, 192-204.	1.3	16
36	Relaxation behavior of conductive carbon black reinforced EPDM microcellular vulcanizates. <i>Polymer Engineering and Science</i> , 2007, 47, 984-995.	1.5	16

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37	Bound rubber in chlorobutyl compounds: Influence of filler type and storage time. <i>Journal of Applied Polymer Science</i> , 2006, 102, 715-720.	1.3	13
38	Zeolitic imidazolate frameworks as novel precursors for microwave synthesis of carbon nanotubes. <i>Journal of Alloys and Compounds</i> , 2019, 781, 166-173.	2.8	13
39	Polypropylene-waste ground rubber tire powder microcellular composites: Effect of processing variables on morphology and physico-mechanical properties. <i>Polymer Composites</i> , 2008, 29, 1276-1284.	2.3	12
40	Sugar-derived disordered carbon nano-sheets as high-performance electrodes in sodium-ion batteries. <i>New Journal of Chemistry</i> , 2017, 41, 4286-4290.	1.4	12
41	Transforming Waste Poly(Ethylene Terephthalate) into Nitrogen Doped Carbon Nanotubes and Its Utility in Oxygen Reduction Reaction and Bisphenol-A Removal from Contaminated Water. <i>Materials</i> , 2020, 13, 4144.	1.3	12
42	Dynamic mechanical and dielectric relaxation characteristics of microcellular rubber composites. <i>Polymers for Advanced Technologies</i> , 2008, 19, 1311-1322.	1.6	11
43	Dielectric and dynamic mechanical relaxation behavior of exfoliated nano graphite reinforced fluoroelastomer composites. <i>Polymer Composites</i> , 2009, 30, 334-342.	2.3	11
44	Blister Packing of Copper Hydroxide and Titania Nanoparticles on Graphene and Its Recycling. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 12323-12328.	4.0	11
45	Microwave induced transformation of metal organic frameworks into defect rich carbon nanofibers. <i>New Journal of Chemistry</i> , 2020, 44, 5666-5672.	1.4	10
46	AC conductivity and positive temperature coefficient effect in microcellular EPDM vulcanizates. <i>Polymer Composites</i> , 2008, 29, 1125-1136.	2.3	9
47	Metal Organic Frameworks Derived Fe-N-C Nanostructures as High-Performance Electrodes for Sodium Ion Batteries and Electromagnetic Interference (EMI) Shielding. <i>Molecules</i> , 2021, 26, 1018.	1.7	9
48	Relaxation behavior of carbon silica dual phase filler reinforced chlorobutyl vulcanizates. <i>Journal of Applied Polymer Science</i> , 2006, 101, 4320-4327.	1.3	7
49	Dielectric relaxation of Ensaco®350G reinforced microcellular EPDM vulcanizates. <i>Polymer Composites</i> , 2007, 28, 657-666.	2.3	7
50	Effect of carbon blacks on relaxation phenomenon of chlorobutyl vulcanizates. <i>Journal of Applied Polymer Science</i> , 2006, 102, 1809-1820.	1.3	6
51	Role of Different Nanoparticles in Elastomeric Nanocomposites. <i>Advanced Structured Materials</i> , 2011, 3-55.	0.3	6
52	3D functional hetero-nanostructures of vertically anchored metal oxide nanowire arrays on porous graphene substrates. <i>Carbon</i> , 2014, 79, 330-336.	5.4	6
53	3D graphene-carbon nanotube-nickel ensembles as anodes in sodium-ion batteries. <i>RSC Advances</i> , 2016, 6, 99914-99918.	1.7	6
54	Extraction of Microfibrillar Cellulose From Waste Paper by NaOH/Urethane Aqueous System and Its Utility in Removal of Lead from Contaminated Water. <i>Materials</i> , 2020, 13, 2850.	1.3	6

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55	Metal Organic Framework Derived MnO ₂ -Carbon Nanotubes for Efficient Oxygen Reduction Reaction and Arsenic Removal from Contaminated Water. <i>Nanomaterials</i> , 2020, 10, 1895.	1.9	6
56	Vitamin Derived Nitrogen Doped Carbon Nanotubes for Efficient Oxygen Reduction Reaction and Arsenic Removal from Contaminated Water. <i>Materials</i> , 2020, 13, 1686.	1.3	6
57	Metal-Organic Framework Reinforced Acrylic Polymer Marine Coatings. <i>Materials</i> , 2022, 15, 27.	1.3	5
58	A Novel Biocompatible Actuator Based on Electrospun Cellulose Acetate. <i>Advanced Materials Research</i> , 2011, 214, 359-363.	0.3	3
59	DABCO Derived Nitrogen-Doped Carbon Nanotubes for Oxygen Reduction Reaction (ORR) and Removal of Hexavalent Chromium from Contaminated Water. <i>Materials</i> , 2021, 14, 2871.	1.3	2
60	Coordination Polymer Framework-Derived Ni-N-Doped Carbon Nanotubes for Electro-Oxidation of Urea. <i>Materials</i> , 2022, 15, 2048.	1.3	2
61	Physico-mechanical, dynamic mechanical, and swelling properties of sodium chloride filled chlorobutyl vulcanizates. <i>Journal of Applied Polymer Science</i> , 2006, 102, 707-714.	1.3	0