

Suman Thakur

List of Publications by Year in descending order

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34
papers

2,133
citations

304602

22
h-index

434063

31
g-index

34
all docs

34
docs citations

34
times ranked

3137
citing authors

#	ARTICLE	IF	CITATIONS
1	Green reduction of graphene oxide by aqueous phytoextracts. Carbon, 2012, 50, 5331-5339.	5.4	539
2	Alternative methods and nature-based reagents for the reduction of graphene oxide: A review. Carbon, 2015, 94, 224-242.	5.4	194
3	Castor oil-based hyperbranched polyurethanes as advanced surface coating materials. Progress in Organic Coatings, 2013, 76, 157-164.	1.9	169
4	Sunlight-driven sustainable production of hydrogen peroxide using a CdS@graphene hybrid photocatalyst. Journal of Catalysis, 2017, 345, 78-86.	3.1	130
5	Bio-based tough hyperbranched polyurethane@graphene oxide nanocomposites as advanced shape memory materials. RSC Advances, 2013, 3, 9476.	1.7	88
6	Multi-stimuli responsive smart elastomeric hyperbranched polyurethane/reduced graphene oxide nanocomposites. Journal of Materials Chemistry A, 2014, 2, 14867-14875.	5.2	87
7	Ultratough, Ductile, Castor Oil-Based, Hyperbranched, Polyurethane Nanocomposite Using Functionalized Reduced Graphene Oxide. ACS Sustainable Chemistry and Engineering, 2014, 2, 1195-1202.	3.2	79
8	Green One-Step Approach to Prepare Sulfur/Reduced Graphene Oxide Nanohybrid for Effective Mercury Ions Removal. Journal of Physical Chemistry C, 2013, 117, 7636-7642.	1.5	77
9	One-step approach to prepare magnetic iron oxide/reduced graphene oxide nanohybrid for efficient organic and inorganic pollutants removal. Materials Chemistry and Physics, 2014, 144, 425-432.	2.0	74
10	One step preparation of a biocompatible, antimicrobial reduced graphene oxide@silver nanohybrid as a topical antimicrobial agent. RSC Advances, 2014, 4, 9777.	1.7	67
11	Bio-based waterborne polyurethane/carbon dot nanocomposite as a surface coating material. Progress in Organic Coatings, 2016, 90, 324-330.	1.9	62
12	Tuning of sunlight-induced self-cleaning and self-healing attributes of an elastomeric nanocomposite by judicious compositional variation of the TiO ₂ @reduced graphene oxide nanohybrid. Journal of Materials Chemistry A, 2015, 3, 12334-12342.	5.2	61
13	Biocarbon from peanut hulls and their green composites with biobased poly(trimethylene) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf	1.6	55
14	Self-healable castor oil based tough smart hyperbranched polyurethane nanocomposite with antimicrobial attributes. RSC Advances, 2015, 5, 2167-2176.	1.7	54
15	A tough, smart elastomeric bio-based hyperbranched polyurethane nanocomposite. New Journal of Chemistry, 2015, 39, 2146-2154.	1.4	47
16	<i>Miscanthus</i> grass-derived carbon dots to selectively detect Fe ³⁺ ions. RSC Advances, 2019, 9, 8628-8637.	1.7	38
17	Enhanced physical properties of two dimensional MoS ₂ /poly(vinyl alcohol) nanocomposites. Composites Part A: Applied Science and Manufacturing, 2018, 110, 284-293.	3.8	35
18	Durable Antimicrobial Behaviour from Silver-Graphene Coated Medical Textile Composites. Polymers, 2019, 11, 2000.	2.0	31

#	ARTICLE	IF	CITATIONS
19	Novel sustainable biobased flame retardant from functionalized vegetable oil for enhanced flame retardancy of engineering plastic. <i>Scientific Reports</i> , 2019, 9, 15971.	1.6	30
20	Development of a battery-free ultrasonically powered functional electrical stimulator for movement restoration after paralyzing spinal cord injury. <i>Journal of NeuroEngineering and Rehabilitation</i> , 2019, 16, 36.	2.4	29
21	Study on the 3D printability of poly(3-hydroxybutyrate-co-3-hydroxyvalerate)/poly(lactic acid) blends with chain extender using fused filament fabrication. <i>Scientific Reports</i> , 2020, 10, 11804.	1.6	26
22	Sustainable Hydrophobic and Moisture-Resistant Coating Derived from Downstream Corn Oil. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 8766-8774.	3.2	24
23	Copper nanoparticle decorated organically modified montmorillonite (OMMT): An efficient catalyst for the N-arylation of indoles and similar heterocycles. <i>Catalysis Communications</i> , 2015, 59, 238-243.	1.6	22
24	Shape Memory Polyurethane-Based Smart Polymer Substrates for Physiologically Responsive, Dynamic Pressure (Re)Distribution. <i>ACS Omega</i> , 2019, 4, 15348-15358.	1.6	22
25	Polyurethane: A Shape Memory Polymer (SMP). , 2017, , .		19
26	Shape Memory Polymers for Smart Textile Applications. , 0, , .		15
27	Green Toughness Modifier from Downstream Corn Oil in Improving Poly(lactic acid) Performance. <i>ACS Applied Polymer Materials</i> , 2019, 1, 3396-3406.	2.0	15
28	Mechanically strong shape memory polyurethane for water vapour permeable membranes. <i>Polymer International</i> , 2018, 67, 1386-1392.	1.6	12
29	Mechanically Robust, Responsive Composite Membrane for a Thermoregulating Textile. <i>ACS Omega</i> , 2020, 5, 3899-3907.	1.6	12
30	Melt and solution processable novel photoluminescent polymer blends for multifaceted advanced applications. <i>Polymer</i> , 2021, 215, 123378.	1.8	9
31	Sustainable Nanostructural Materials for Shape Memory, Self-Healing, and Self-Cleaning Applications. , 2019, , 235-250.		4
32	Novel approach of making porous polyurethane membrane and its properties for apparel application. <i>Journal of Applied Polymer Science</i> , 2020, 137, 48566.	1.3	3
33	Castor oil based hyperbranched polyester/bitumen modified fly ash nanocomposite. <i>Advances in Nano Research</i> , 2016, 4, 15-29.	0.9	2
34	Use of Novel Non-Toxic Bismuth Catalyst for the Preparation of Flexible Polyurethane Foam. <i>Polymers</i> , 2021, 13, 4460.	2.0	2