

Prodyut Dhar

List of Publications by Year in descending order

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Version: 2024-02-01

32
papers

1,181
citations

430442

18
h-index

454577

30
g-index

33
all docs

33
docs citations

33
times ranked

1603
citing authors

#	ARTICLE	IF	CITATIONS
1	Fabrication of wood-inspired high-performance composites through fermentation routes. <i>Cellulose</i> , 2022, 29, 2927-2947.	2.4	1
2	Biomedical engineering aspects of nanocellulose: A review. <i>Nanotechnology</i> , 2022, , .	1.3	13
3	Synthesis-property-performance relationships of multifunctional bacterial cellulose composites fermented in situ alkali lignin medium. <i>Carbohydrate Polymers</i> , 2021, 252, 117114.	5.1	14
4	Ion transfer channel network formed by flower and rod shape crystals of hair hydrolysate in poly(vinyl alcohol) matrix and its application as anion exchange membrane in fuel cells. <i>Journal of Colloid and Interface Science</i> , 2021, 587, 214-228.	5.0	7
5	Genetically engineered protein based nacre-like nanocomposites with superior mechanical and electrochemical performance. <i>Journal of Materials Chemistry A</i> , 2020, 8, 656-669.	5.2	10
6	Fabrication and characterization of clay nanoscrolls and stable zerovalent iron using montmorillonite. <i>Applied Clay Science</i> , 2020, 193, 105670.	2.6	2
7	Applicability of Fe-CNC/GR/PLA composite as potential sensor for biomolecules. <i>Journal of Materials Science: Materials in Electronics</i> , 2020, 31, 5984-5999.	1.1	7
8	Self-propelled cellulose nanocrystal based catalytic nanomotors for targeted hyperthermia and pollutant remediation applications. <i>International Journal of Biological Macromolecules</i> , 2020, 158, 1020-1036.	3.6	27
9	Valorization of sugarcane straw to produce highly conductive bacterial cellulose / graphene nanocomposite films through in situ fermentation: Kinetic analysis and property evaluation. <i>Journal of Cleaner Production</i> , 2019, 238, 117859.	4.6	44
10	<i>In Situ</i> Bioprocessing of Bacterial Cellulose with Graphene: Percolation Network Formation, Kinetic Analysis with Physicochemical and Structural Properties Assessment. <i>ACS Applied Bio Materials</i> , 2019, 2, 4052-4066.	2.3	29
11	Cellulose nanocrystal/clay based macroion nanogel as support for stable platinum catalyst for electrochemical oxidation of methanol in alkaline medium. <i>Applied Clay Science</i> , 2019, 182, 105277.	2.6	4
12	Cellulose Nanocrystal Templated Graphene Nanoscrolls for High Performance Supercapacitors and Hydrogen Storage: An Experimental and Molecular Simulation Study. <i>Scientific Reports</i> , 2018, 8, 3886.	1.6	30
13	Biodegradable poly (lactic acid)/Cellulose nanocrystals (CNCs) composite microcellular foam: Effect of nanofillers on foam cellular morphology, thermal and wettability behavior. <i>International Journal of Biological Macromolecules</i> , 2018, 106, 433-446.	3.6	69
14	Sustainable Approach for Mechanical Recycling of Poly(lactic acid)/Cellulose Nanocrystal Films: Investigations on Structure–Property Relationship and Underlying Mechanism. <i>Industrial & Engineering Chemistry Research</i> , 2018, 57, 14493-14508.	1.8	18
15	Investigations on rheological and mechanical behavior of poly(3-hydroxybutyrate)/cellulose nanocrystal based nanobiocomposites. <i>Polymer Composites</i> , 2017, 38, E392.	2.3	13
16	Reactive Extrusion of Polylactic Acid/Cellulose Nanocrystal Films for Food Packaging Applications: Influence of Filler Type on Thermomechanical, Rheological, and Barrier Properties. <i>Industrial & Engineering Chemistry Research</i> , 2017, 56, 4718-4735.	1.8	76
17	Thermo-mechanically stable sustainable polymer based solid electrolyte membranes for direct methanol fuel cell applications. <i>Journal of Membrane Science</i> , 2017, 526, 348-354.	4.1	32
18	Nanosilk-Grafted Poly(lactic acid) Films: Influence of Cross-Linking on Rheology and Thermal Stability. <i>ACS Omega</i> , 2017, 2, 7071-7084.	1.6	44

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19	Thermal degradation kinetics of polylactic acid/acid fabricated cellulose nanocrystal based bionanocomposites. International Journal of Biological Macromolecules, 2017, 104, 827-836.	3.6	47
20	Acid functionalized cellulose nanocrystals and its effect on mechanical, thermal, crystallization and surfaces properties of poly (lactic acid) bionanocomposites films: A comprehensive study. Polymer, 2016, 101, 75-92.	1.8	86
21	Magnetic Cellulose Nanocrystal Based Anisotropic Polylactic Acid Nanocomposite Films: Influence on Electrical, Magnetic, Thermal, and Mechanical Properties. ACS Applied Materials & Interfaces, 2016, 8, 18393-18409.	4.0	93
22	Thermally recyclable polylactic acid/cellulose nanocrystal films through reactive extrusion process. Polymer, 2016, 87, 268-282.	1.8	115
23	Colorimetric detection of Cu(II) ion with a 1,3-bis-azachalcone derivative. Sensors and Actuators B: Chemical, 2015, 219, 308-314.	4.0	16
24	Fabrication of Cellulose Nanocrystals from Agricultural Compost. Compost Science and Utilization, 2015, 23, 104-116.	1.2	21
25	Effect of cellulose nanocrystal polymorphs on mechanical, barrier and thermal properties of poly(lactic acid) based bionanocomposites. RSC Advances, 2015, 5, 60426-60440.	1.7	124
26	Fabrication of cellulose nanocrystal supported stable Fe(0) nanoparticles: a sustainable catalyst for dye reduction, organic conversion and chemo-magnetic propulsion. Cellulose, 2015, 22, 3755-3771.	2.4	48
27	Poly (3-hydroxybutyrate)/cellulose nanocrystal films for food packaging applications: Barrier and migration studies. Polymer Engineering and Science, 2015, 55, 2388-2395.	1.5	99
28	Prospects of poly (vinyl alcohol)/Chitosan/poly (styrene sulfonic acid) and montmorillonite Cloisite®30B clay composite membrane for direct methanol fuel cells. Journal of Renewable and Sustainable Energy, 2014, 6, 053135.	0.8	5
29	Polyhydroxyalkanoates (PHA)-Cellulose Based Nanobiocomposites for Food Packaging Applications. ACS Symposium Series, 2014, , 275-314.	0.5	54
30	Cellulose Nanocrystals: A Potential Nanofiller for Food Packaging Applications. ACS Symposium Series, 2014, , 197-239.	0.5	27
31	Automation of biodiesel plant with bio-sensing technologies. , 2012, , .		1
32	Development of a software tool for in silico biodiesel production from rapeseed oil. , 2011, , .		0