

Goutam Prasanna Kar

List of Publications by Year in descending order

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28
papers

1,170
citations

430442

18
h-index

500791

28
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28
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28
docs citations

28
times ranked

1191
citing authors

#	ARTICLE	IF	CITATIONS
1	High frequency millimetre wave absorbers derived from polymeric nanocomposites. <i>Polymer</i> , 2016, 84, 398-419.	1.8	191
2	Tailoring the dispersion of multiwall carbon nanotubes in co-continuous PVDF/ABS blends to design materials with enhanced electromagnetic interference shielding. <i>Journal of Materials Chemistry A</i> , 2015, 3, 7974-7985.	5.2	109
3	Engineering nanostructured polymer blends with controlled nanoparticle location for excellent microwave absorption: a compartmentalized approach. <i>Nanoscale</i> , 2015, 7, 11334-11351.	2.8	98
4	Tailor-Made Distribution of Nanoparticles in Blend Structure toward Outstanding Electromagnetic Interference Shielding. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 25448-25463.	4.0	93
5	Microwave absorbers designed from PVDF/SAN blends containing multiwall carbon nanotubes anchored cobalt ferrite via a pyrene derivative. <i>Journal of Materials Chemistry A</i> , 2015, 3, 12413-12426.	5.2	81
6	Scalable upcycling of thermoplastic polyolefins into vitrimers through transesterification. <i>Journal of Materials Chemistry A</i> , 2020, 8, 24137-24147.	5.2	68
7	Tailoring the interface of an immiscible polymer blend by a mutually miscible homopolymer grafted onto graphene oxide: outstanding mechanical properties. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 1811-1821.	1.3	57
8	Simultaneous enhancement in mechanical strength, electrical conductivity, and electromagnetic shielding properties in PVDF/ABS blends containing PMMA wrapped multiwall carbon nanotubes. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 14856-14865.	1.3	55
9	Attenuating microwave radiation by absorption through controlled nanoparticle localization in PC/PVDF blends. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 27698-27712.	1.3	46
10	Excellent Electromagnetic Interference Shielding by Graphene/MnFe ₂ O ₄ /Multiwalled Carbon Nanotube Hybrids at Very Low Weight Percentage in Polymer Matrix. <i>ChemistrySelect</i> , 2016, 1, 5995-6003.	0.7	40
11	Nanoparticle-Driven Intermolecular Cooperativity and Miscibility in Polystyrene/Poly(vinyl methyl) Tj ETQq1 1 0.784314 rgBT /Overloc 1.2 35	1.2	35
12	Tuning the microwave absorption through engineered nanostructures in co-continuous polymer blends. <i>Materials Research Express</i> , 2016, 3, 064002.	0.8	31
13	Synergistic effect of polymorphism, substrate conductivity and electric field stimulation towards enhancing muscle cell growth in vitro. <i>RSC Advances</i> , 2016, 6, 10837-10845.	1.7	29
14	Polymer-grafted multiwall carbon nanotubes functionalized by nitrene chemistry: effect on cooperativity and phase miscibility. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 17811.	1.3	26
15	Simultaneous Improvement in Structural Properties and Microwave Shielding of Polymer Blends with Carbon Nanotubes. <i>ChemNanoMat</i> , 2016, 2, 140-148.	1.5	25
16	Thermally Induced Demixing in an LCST Mixture in the Presence of Densely Grafted Nanoparticles: Tuning the Graft Chain Length To Induce Thermodynamic Miscibility. <i>Macromolecules</i> , 2014, 47, 7525-7532.	2.2	24
17	A high-performance BaTiO ₃ -grafted-GO-laden poly(ethylene oxide)-based membrane as an electrolyte for all-solid lithium-batteries. <i>Materials Chemistry Frontiers</i> , 2017, 1, 269-277.	3.2	22
18	Does the nature of chemically grafted polymer onto PVDF decide the extent of electroactive β -polymorph?. <i>Polymer</i> , 2019, 181, 121764.	1.8	20

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19	The key role of polymer grafted nanoparticles in the phase miscibility of an LCST mixture. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 868-877.	1.3	19
20	A unique strategy towards high dielectric constant and low loss with multiwall carbon nanotubes anchored onto graphene oxide sheets. <i>RSC Advances</i> , 2015, 5, 24132-24138.	1.7	16
21	Lightweight, flexible and ultra-thin sandwich architectures for screening electromagnetic radiation. <i>RSC Advances</i> , 2016, 6, 70018-70024.	1.7	16
22	Microwave Absorption in MWNTs-Based Soft Composites Containing Nanocrystalline Particles as Magnetic Core and Intrinsically Conducting Polymer as a Conductive Layer. <i>ChemistrySelect</i> , 2016, 1, 4747-4752.	0.7	15
23	X-ray micro computed tomography, segmental relaxation and crystallization kinetics in interfacial stabilized co-continuous immiscible PVDF/ABS blends. <i>Polymer</i> , 2016, 101, 291-304.	1.8	15
24	Phase miscibility and dynamic heterogeneity in PMMA/SAN blends through solvent free reactive grafting of SAN on graphene oxide. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 19470-19485.	1.3	13
25	N ⁺ -H ⁻ Interactions in Two Isomers of an Amino Group Containing bis-Phenol. <i>Journal of Chemical Crystallography</i> , 2010, 40, 702-706.	0.5	10
26	Nucleation barrier, growth kinetics in ternary polymer blend filled with preferentially distributed carbon nanotubes. <i>Polymer</i> , 2017, 128, 229-241.	1.8	8
27	Fused Filament Fabrication of a Dynamically Crosslinked Network Derived from Commodity Thermoplastics. <i>ACS Applied Polymer Materials</i> , 2022, 4, 4364-4372.	2.0	6
28	Phase separation and physico-chemical processes at microscopic and macroscopic levels in MWCNT laden polymer blends using a unique droplet based architecture. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 24961-24970.	1.3	2