Goutam Prasanna Kar

List of Publications by Year in Descending Order

27 papers	936 citations	17 h-index	28 g-index
28 ext. papers	1,061 ext. citations	4.8 avg, IF	4.7 L-index

#	Paper	IF	Citations
27	Scalable upcycling of thermoplastic polyolefins into vitrimers through transesterification. *Journal of Materials Chemistry A*, **2020**, 8, 24137-24147	13	14
26	Does the nature of chemically grafted polymer onto PVDF decide the extent of electroactive polymorph?. *Polymer*, **2019**, 181, 121764	3.9	11
25	Phase miscibility and dynamic heterogeneity in PMMA/SAN blends through solvent free reactive grafting of SAN on graphene oxide. *Physical Chemistry Chemical Physics*, **2018**, 20, 19470-19485	3.6	10
24	Phase separation and physico-chemical processes at microscopic and macroscopic levels in MWCNT laden polymer blends using a unique droplet based architecture. *Physical Chemistry Chemical Physics*, **2017**, 19, 24961-24970	3.6	2
23	Nucleation barrier, growth kinetics in ternary polymer blend filled with preferentially distributed carbon nanotubes. *Polymer*, **2017**, 128, 229-241	3.9	7
22	A high-performance BaTiO3-grafted-GO-laden poly(ethylene oxide)-based membrane as an electrolyte for all-solid lithium-batteries. *Materials Chemistry Frontiers*, **2017**, 1, 269-277	7.8	19
21	X-ray micro computed tomography, segmental relaxation and crystallization kinetics in interfacial stabilized co-continuous immiscible PVDF/ABS blends. *Polymer*, **2016**, 101, 291-304	3.9	12
20	Lightweight, flexible and ultra-thin sandwich architectures for screening electromagnetic radiation. *RSC Advances*, **2016**, 6, 70018-70024	3.7	12
19	Excellent Electromagnetic Interference Shielding by Graphene- MnFe2O4-Multiwalled Carbon Nanotube Hybrids at Very Low Weight Percentage in Polymer Matrix. *ChemistrySelect*, **2016**, 1, 5995-6003	1.8	30
18	Tuning the microwave absorption through engineered nanostructures in co-continuous polymer blends. *Materials Research Express*, **2016**, 3, 064002	1.7	28
17	Synergistic effect of polymorphism, substrate conductivity and electric field stimulation towards enhancing muscle cell growth in vitro. *RSC Advances*, **2016**, 6, 10837-10845	3.7	26
16	High frequency millimetre wave absorbers derived from polymeric nanocomposites. *Polymer*, **2016**, 84, 398-419	3.9	154
15	Simultaneous Improvement in Structural Properties and Microwave Shielding of Polymer Blends with Carbon Nanotubes. *ChemNanoMat*, **2016**, 2, 140-148	3.5	21
14	Microwave Absorption in MWNTs-Based Soft Composites Containing Nanocrystalline Particles as Magnetic Core and Intrinsically Conducting Polymer as a Conductive Layer. *ChemistrySelect*, **2016**, 1, 4747-4752	1.8	11
13	Microwave absorbers designed from PVDF/SAN blends containing multiwall carbon nanotubes anchored cobalt ferrite via a pyrene derivative. *Journal of Materials Chemistry A*, **2015**, 3, 12413-12426	13	66
12	A unique strategy towards high dielectric constant and low loss with multiwall carbon nanotubes anchored onto graphene oxide sheets. *RSC Advances*, **2015**, 5, 24132-24138	3.7	14
11	Attenuating microwave radiation by absorption through controlled nanoparticle localization in PC/PVDF blends. *Physical Chemistry Chemical Physics*, **2015**, 17, 27698-712	3.6	41

10	The key role of polymer grafted nanoparticles in the phase miscibility of an LCST mixture. *Physical Chemistry Chemical Physics*, **2015**, 17, 868-77	3.6	18
9	Tailoring the interface of an immiscible polymer blend by a mutually miscible homopolymer grafted onto graphene oxide: outstanding mechanical properties. *Physical Chemistry Chemical Physics*, **2015**, 17, 1811-21	3.6	51
8	Tailoring the dispersion of multiwall carbon nanotubes in co-continuous PVDF/ABS blends to design materials with enhanced electromagnetic interference shielding. *Journal of Materials Chemistry A*, **2015**, 3, 7974-7985	13	97
7	Simultaneous enhancement in mechanical strength, electrical conductivity, and electromagnetic shielding properties in PVDF-ABS blends containing PMMA wrapped multiwall carbon nanotubes. *Physical Chemistry Chemical Physics*, **2015**, 17, 14856-65	3.6	46
6	Engineering nanostructured polymer blends with controlled nanoparticle location for excellent microwave absorption: a compartmentalized approach. *Nanoscale*, **2015**, 7, 11334-51	7.7	83
5	Tailor-Made Distribution of Nanoparticles in Blend Structure toward Outstanding Electromagnetic Interference Shielding. *ACS Applied Materials & Interfaces*, **2015**, 7, 25448-63	9.5	72
4	Nanoparticle-driven intermolecular cooperativity and miscibility in polystyrene/poly(vinyl methyl ether) blends. *Journal of Physical Chemistry B*, **2014**, 118, 2214-25	3.4	33
3	Polymer-grafted multiwall carbon nanotubes functionalized by nitrene chemistry: effect on cooperativity and phase miscibility. *Physical Chemistry Chemical Physics*, **2014**, 16, 17811-21	3.6	26
2	Thermally Induced Demixing in an LCST Mixture in the Presence of Densely Grafted Nanoparticles: Tuning the Graft Chain Length To Induce Thermodynamic Miscibility. *Macromolecules*, **2014**, 47, 7525-7532	5.5	23
1	N□H□□□Interactions in Two Isomers of an Amino Group Containing bis-Phenol. *Journal of Chemical Crystallography*, **2010**, 40, 702-706	0.5	9