

# Goutam Prasanna Kar

## List of Publications by Citations

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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	High frequency millimetre wave absorbers derived from polymeric nanocomposites. <i>Polymer</i> , <b>2016</b> , 84, 398-419	3.9	154
26	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> , <b>2015</b> , 3, 7974-7985	13	97
25	Engineering nanostructured polymer blends with controlled nanoparticle location for excellent microwave absorption: a compartmentalized approach. <i>Nanoscale</i> , <b>2015</b> , 7, 11334-51	7.7	83
24	Tailor-Made Distribution of Nanoparticles in Blend Structure toward Outstanding Electromagnetic Interference Shielding. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2015</b> , 7, 25448-63	9.5	72
23	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> , <b>2015</b> , 3, 12413-12426	13	66
22	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> , <b>2015</b> , 17, 1811-21	3.6	51
21	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> , <b>2015</b> , 17, 14856-65	3.6	46
20	Attenuating microwave radiation by absorption through controlled nanoparticle localization in PC/PVDF blends. <i>Physical Chemistry Chemical Physics</i> , <b>2015</b> , 17, 27698-712	3.6	41
19	Nanoparticle-driven intermolecular cooperativity and miscibility in polystyrene/poly(vinyl methyl ether) blends. <i>Journal of Physical Chemistry B</i> , <b>2014</b> , 118, 2214-25	3.4	33
18	Excellent Electromagnetic Interference Shielding by Graphene- MnFe <sub>2</sub> O <sub>4</sub> -Multiwalled Carbon Nanotube Hybrids at Very Low Weight Percentage in Polymer Matrix. <i>ChemistrySelect</i> , <b>2016</b> , 1, 5995-6003 <sup>18</sup>	1.8	30
17	Tuning the microwave absorption through engineered nanostructures in co-continuous polymer blends. <i>Materials Research Express</i> , <b>2016</b> , 3, 064002	1.7	28
16	Synergistic effect of polymorphism, substrate conductivity and electric field stimulation towards enhancing muscle cell growth in vitro. <i>RSC Advances</i> , <b>2016</b> , 6, 10837-10845	3.7	26
15	Polymer-grafted multiwall carbon nanotubes functionalized by nitrene chemistry: effect on cooperativity and phase miscibility. <i>Physical Chemistry Chemical Physics</i> , <b>2014</b> , 16, 17811-21	3.6	26
14	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> , <b>2014</b> , 47, 7525-7532 <sup>55</sup>	5.5	23
13	Simultaneous Improvement in Structural Properties and Microwave Shielding of Polymer Blends with Carbon Nanotubes. <i>ChemNanoMat</i> , <b>2016</b> , 2, 140-148	3.5	21
12	A high-performance BaTiO <sub>3</sub> -grafted-GO-laden poly(ethylene oxide)-based membrane as an electrolyte for all-solid lithium-batteries. <i>Materials Chemistry Frontiers</i> , <b>2017</b> , 1, 269-277	7.8	19
11	The key role of polymer grafted nanoparticles in the phase miscibility of an LCST mixture. <i>Physical Chemistry Chemical Physics</i> , <b>2015</b> , 17, 868-77	3.6	18

10	A unique strategy towards high dielectric constant and low loss with multiwall carbon nanotubes anchored onto graphene oxide sheets. <i>RSC Advances</i> , <b>2015</b> , 5, 24132-24138	3.7	14
9	Scalable upcycling of thermoplastic polyolefins into vitrimers through transesterification. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 24137-24147	13	14
8	X-ray micro computed tomography, segmental relaxation and crystallization kinetics in interfacial stabilized co-continuous immiscible PVDF/ABS blends. <i>Polymer</i> , <b>2016</b> , 101, 291-304	3.9	12
7	Lightweight, flexible and ultra-thin sandwich architectures for screening electromagnetic radiation. <i>RSC Advances</i> , <b>2016</b> , 6, 70018-70024	3.7	12
6	Does the nature of chemically grafted polymer onto PVDF decide the extent of electroactive Epolymer?. <i>Polymer</i> , <b>2019</b> , 181, 121764	3.9	11
5	Microwave Absorption in MWNTs-Based Soft Composites Containing Nanocrystalline Particles as Magnetic Core and Intrinsically Conducting Polymer as a Conductive Layer. <i>ChemistrySelect</i> , <b>2016</b> , 1, 4747-4752	1.8	11
4	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> , <b>2018</b> , 20, 19470-19485	3.6	10
3	NE interactions in Two Isomers of an Amino Group Containing bis-Phenol. <i>Journal of Chemical Crystallography</i> , <b>2010</b> , 40, 702-706	0.5	9
2	Nucleation barrier, growth kinetics in ternary polymer blend filled with preferentially distributed carbon nanotubes. <i>Polymer</i> , <b>2017</b> , 128, 229-241	3.9	7
1	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> , <b>2017</b> , 19, 24961-24970	3.6	2