

# Sambhu Bhadra

## List of Publications by Year in descending order

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29  
papers

6,009  
citations

394286

19  
h-index

501076

28  
g-index

29  
all docs

29  
docs citations

29  
times ranked

7909  
citing authors

#	ARTICLE	IF	CITATIONS
1	Identification of glycerol as a novel accelerator for sulphur vulcanization of unsaturated rubbers. Journal of Elastomers and Plastics, 2022, 54, 319-338.	0.7	0
2	Tailor-made one-part epoxy resin for tire compound to improve ride and handling and reduce rolling resistance. Materials Today: Proceedings, 2022, , .	0.9	2
3	A novel economically viable method of preparation of graphene-rubber masterbatch for its application in tyre compound. Materials Today: Proceedings, 2022, 62, 7113-7117.	0.9	2
4	Thermal oxidation of graphite as the first step for graphene preparation: effect of heating temperature and time. Journal of Materials Science, 2021, 56, 3675-3691.	1.7	10
5	Efficiency of different methods of oxidation of graphite: a key route of graphene preparation. Graphene and 2D Materials Technologies, 2021, 6, 1-11.	0.8	1
6	Suitability of different biomaterials for the application in tire. SN Applied Sciences, 2019, 1, 1.	1.5	1
7	Possibility of artocarpus heterophyllus latex as an alternative source for natural rubber. Polymer Testing, 2019, 79, 106066.	2.3	12
8	New hyperbranched polymers for membranes of high-temperature polymer electrolyte membrane fuel cells: Determination of the crystal structure and free-volume size. Journal of Applied Polymer Science, 2011, 121, 923-929.	1.3	12
9	Synthesis of water soluble sulfonated polyaniline and determination of crystal structure. Journal of Applied Polymer Science, 2010, 117, 2025-2035.	1.3	37
10	Recent advances in graphene based polymer composites. Progress in Polymer Science, 2010, 35, 1350-1375.	11.8	2,949
11	Effect of dopant type on the properties of polyaniline. Journal of Applied Polymer Science, 2009, 112, 3135-3140.	1.3	131
12	Rheological properties, shear-dependent electrical resistance, and settling phenomena of polyaniline in ECO solution. Journal of Applied Polymer Science, 2009, 114, 238-245.	1.3	4
13	Synthesis of higher soluble nanostructured polyaniline by vapor-phase polymerization and determination of its crystal structure. Journal of Applied Polymer Science, 2009, 114, 331-340.	1.3	20
14	Dielectric properties and EMI shielding efficiency of polyaniline and ethylene 1-octene based semi-conducting composites. Current Applied Physics, 2009, 9, 396-403.	1.1	82
15	Preparation of nanosize polyaniline by solid-state polymerization and determination of crystal structure. Polymer International, 2009, 58, 1173-1180.	1.6	50
16	Progress in preparation, processing and applications of polyaniline. Progress in Polymer Science, 2009, 34, 783-810.	11.8	1,619
17	Class- rubber transition temperature of polyaniline: Experimental and molecular dynamic simulation. Synthetic Metals, 2009, 159, 1141-1146.	2.1	37
18	Extrinsic and intrinsic structural change during heat treatment of polyaniline. Polymer Degradation and Stability, 2008, 93, 1094-1099.	2.7	96

#	ARTICLE	IF	CITATIONS
19	Semiconductive composites from ethylene 1-octene copolymer and polyaniline coated nylon 6: Studies on mechanical, thermal, processability, electrical, and EMI shielding properties. <i>Polymer Engineering and Science</i> , 2008, 48, 995-1006.	1.5	47
20	Improvement of conductivity of electrochemically synthesized polyaniline. <i>Journal of Applied Polymer Science</i> , 2008, 108, 57-64.	1.3	112
21	Mechanical, dynamic mechanical, morphological, thermal behavior and processability of polyaniline and ethylene 1-octene based semi-conducting composites. <i>Journal of Applied Polymer Science</i> , 2008, 107, 2486-2493.	1.3	15
22	Determination of crystal structure of polyaniline and substituted polyanilines through powder X-ray diffraction analysis. <i>Polymer Testing</i> , 2008, 27, 851-857.	2.3	155
23	Effect of aromatic substitution in aniline on the properties of polyaniline. <i>European Polymer Journal</i> , 2008, 44, 1763-1770.	2.6	78
24	Electrochemical synthesis of polyaniline and its comparison with chemically synthesized polyaniline. <i>Journal of Applied Polymer Science</i> , 2007, 104, 1900-1904.	1.3	162
25	In situ preparation of polyaniline coated fumed and precipitated silica fillers and their composites with nitrile rubber (Investigation on structure-property relationship). <i>European Polymer Journal</i> , 2007, 43, 4332-4343.	2.6	38
26	Degradation and stability of polyaniline on exposure to electron beam irradiation (structure-property relationship). <i>Polymer Degradation and Stability</i> , 2007, 92, 1824-1832.	2.7	70
27	Effect of different reaction parameters on the conductivity and dielectric properties of polyaniline synthesized electrochemically and modeling of conductivity against reaction parameters through regression analysis. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2007, 45, 2046-2059.	2.4	75
28	Dual functionality of PTSA as electrolyte and dopant in the electrochemical synthesis of polyaniline, and its effect on electrical properties. <i>Polymer International</i> , 2007, 56, 919-927.	1.6	59
29	Polyaniline by new miniemulsion polymerization and the effect of reducing agent on conductivity. <i>Synthetic Metals</i> , 2006, 156, 1148-1154.	2.1	133