

Sambhu Bhadra

List of Publications by Year in descending order

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29
papers

6,009
citations

394421

19
h-index

501196

28
g-index

29
all docs

29
docs citations

29
times ranked

7909
citing authors

#	ARTICLE	IF	CITATIONS
1	Recent advances in graphene based polymer composites. Progress in Polymer Science, 2010, 35, 1350-1375.	24.7	2,949
2	Progress in preparation, processing and applications of polyaniline. Progress in Polymer Science, 2009, 34, 783-810.	24.7	1,619
3	Electrochemical synthesis of polyaniline and its comparison with chemically synthesized polyaniline. Journal of Applied Polymer Science, 2007, 104, 1900-1904.	2.6	162
4	Determination of crystal structure of polyaniline and substituted polyanilines through powder X-ray diffraction analysis. Polymer Testing, 2008, 27, 851-857.	4.8	155
5	Polyaniline by new miniemulsion polymerization and the effect of reducing agent on conductivity. Synthetic Metals, 2006, 156, 1148-1154.	3.9	133
6	Effect of dopant type on the properties of polyaniline. Journal of Applied Polymer Science, 2009, 112, 3135-3140.	2.6	131
7	Improvement of conductivity of electrochemically synthesized polyaniline. Journal of Applied Polymer Science, 2008, 108, 57-64.	2.6	112
8	Extrinsic and intrinsic structural change during heat treatment of polyaniline. Polymer Degradation and Stability, 2008, 93, 1094-1099.	5.8	96
9	Dielectric properties and EMI shielding efficiency of polyaniline and ethylene 1-octene based semi-conducting composites. Current Applied Physics, 2009, 9, 396-403.	2.4	82
10	Effect of aromatic substitution in aniline on the properties of polyaniline. European Polymer Journal, 2008, 44, 1763-1770.	5.4	78
11	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. Journal of Polymer Science, Part B: Polymer Physics, 2007, 45, 2046-2059.	2.1	75
12	Degradation and stability of polyaniline on exposure to electron beam irradiation (structure-property relationship). Polymer Degradation and Stability, 2007, 92, 1824-1832.	5.8	70
13	Dual functionality of PTSA as electrolyte and dopant in the electrochemical synthesis of polyaniline, and its effect on electrical properties. Polymer International, 2007, 56, 919-927.	3.1	59
14	Preparation of nanosize polyaniline by solid-state polymerization and determination of crystal structure. Polymer International, 2009, 58, 1173-1180.	3.1	50
15	Semiconductive composites from ethylene 1-octene copolymer and polyaniline coated nylon 6: Studies on mechanical, thermal, processability, electrical, and EMI shielding properties. Polymer Engineering and Science, 2008, 48, 995-1006.	3.1	47
16	In situ preparation of polyaniline coated fumed and precipitated silica fillers and their composites with nitrile rubber (Investigation on structure-property relationship). European Polymer Journal, 2007, 43, 4332-4343.	5.4	38
17	Class-rubber transition temperature of polyaniline: Experimental and molecular dynamic simulation. Synthetic Metals, 2009, 159, 1141-1146.	3.9	37
18	Synthesis of water soluble sulfonated polyaniline and determination of crystal structure. Journal of Applied Polymer Science, 2010, 117, 2025-2035.	2.6	37

#	ARTICLE	IF	CITATIONS
19	Synthesis of higher soluble nanostructured polyaniline by vaporâ€phase polymerization and determination of its crystal structure. <i>Journal of Applied Polymer Science</i> , 2009, 114, 331-340.	2.6	20
20	Mechanical, dynamic mechanical, morphological, thermal behavior and processability of polyaniline and ethylene 1â€octene based semiâ€conducting composites. <i>Journal of Applied Polymer Science</i> , 2008, 107, 2486-2493.	2.6	15
21	New hyperbranched polymers for membranes of highâ€temperature polymer electrolyte membrane fuel cells: Determination of the crystal structure and freeâ€volume size. <i>Journal of Applied Polymer Science</i> , 2011, 121, 923-929.	2.6	12
22	Possibility of artocarpus heterophyllus latex as an alternative source for natural rubber. <i>Polymer Testing</i> , 2019, 79, 106066.	4.8	12
23	Thermal oxidation of graphite as the first step for graphene preparation: effect of heating temperature and time. <i>Journal of Materials Science</i> , 2021, 56, 3675-3691.	3.7	10
24	Rheological properties, shearâ€dependent electrical resistance, and settling phenomena of polyaniline in ECO solution. <i>Journal of Applied Polymer Science</i> , 2009, 114, 238-245.	2.6	4
25	Tailor-made one-part epoxy resin for tire compound to improve ride and handling and reduce rolling resistance. <i>Materials Today: Proceedings</i> , 2022, , .	1.8	2
26	A novel economically viable method of preparation of graphene-rubber masterbatch for its application in tyre compound. <i>Materials Today: Proceedings</i> , 2022, 62, 7113-7117.	1.8	2
27	Suitability of different biomaterials for the application in tire. <i>SN Applied Sciences</i> , 2019, 1, 1.	2.9	1
28	Efficiency of different methods of oxidation of graphite: a key route of graphene preparation. <i>Graphene and 2D Materials Technologies</i> , 2021, 6, 1-11.	1.3	1
29	Identification of glycerol as a novel accelerator for sulphur vulcanization of unsaturated rubbers. <i>Journal of Elastomers and Plastics</i> , 2022, 54, 319-338.	1.5	0