

POORNIMA VIJAYAN P

List of Publications by Citations

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papers

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35
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1,112
ext. citations

4.5
avg, IF

4.66
L-index

#	Paper	IF	Citations
33	Effect of organically modified nanoclay on the miscibility, rheology, morphology and properties of epoxy/carboxyl-terminated (butadiene-co-acrylonitrile) blend. <i>Soft Matter</i> , 2013 , 9, 2899	3.6	87
32	Flexible Pressure Sensor Based on PVDF Nanocomposites Containing Reduced Graphene Oxide-Titania Hybrid Nanolayers. <i>Polymers</i> , 2017 , 9,	4.5	77
31	Elastomer/thermoplastic modified epoxy nanocomposites: The hybrid effect of micro and nano scale. <i>Materials Science and Engineering Reports</i> , 2017 , 116, 1-29	30.9	68
30	Selective localisation of multi walled carbon nanotubes in polypropylene/natural rubber blends to reduce the percolation threshold. <i>Composites Science and Technology</i> , 2015 , 116, 9-17	8.6	68
29	Calorimetric analysis and molecular dynamics simulation of cure kinetics of epoxy/chitosan-modified Fe ₃ O ₄ nanocomposites. <i>Progress in Organic Coatings</i> , 2017 , 112, 176-186	4.8	52
28	Cure kinetics of epoxy/MWCNTs nanocomposites: Isothermal calorimetric and rheological analyses. <i>Progress in Organic Coatings</i> , 2017 , 108, 75-83	4.8	51
27	Biowaste chicken eggshell powder as a potential cure modifier for epoxy/anhydride systems: competitiveness with terpolymer-modified calcium carbonate at low loading levels. <i>RSC Advances</i> , 2017 , 7, 2218-2230	3.7	50
26	Halloysite Nanotube as Multifunctional Component in Epoxy Protective Coating. <i>Industrial & Engineering Chemistry Research</i> , 2016 , 55, 11186-11192	3.9	48
25	Containers for self-healing epoxy composites and coating: Trends and advances. <i>EXPRESS Polymer Letters</i> , 2016 , 10, 506-524	3.4	43
24	Effect of nanoclay and carboxyl-terminated (butadiene-co-acrylonitrile) (CTBN) rubber on the reaction induced phase separation and cure kinetics of an epoxy/cyclic anhydride system. <i>Journal of Materials Science</i> , 2012 , 47, 5241-5253	4.3	42
23	Cellulose nanofibers to assist the release of healing agents in epoxy coatings. <i>Progress in Organic Coatings</i> , 2017 , 112, 127-132	4.8	37
22	3D architectures of titania nanotubes and graphene with efficient nanosynergy for supercapacitors. <i>Materials and Design</i> , 2017 , 117, 203-212	8.1	36
21	Copper oxide nanoparticles in an epoxy network: microstructure, chain confinement and mechanical behaviour. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 19655-67	3.6	35
20	TiO nanotubes and mesoporous silica as containers in self-healing epoxy coatings. <i>Scientific Reports</i> , 2016 , 6, 38812	4.9	35
19	Liquid rubber and silicon carbide nanofiber modified epoxy nanocomposites: Volume shrinkage, cure kinetics and properties. <i>Composites Science and Technology</i> , 2014 , 102, 65-73	8.6	30
18	Clay nanostructure and its localisation in an epoxy/liquid rubber blend. <i>RSC Advances</i> , 2013 , 3, 24634	3.7	30
17	Volume shrinkage and rheological studies of epoxidised and unepoxidised poly(styrene-block-butadiene-block-styrene) triblock copolymer modified epoxy resin-diamino diphenyl methane nanostructured blend systems. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 12760-70	3.6	26

16	Liquid-rubber-modified epoxy/clay nanocomposites: effect of dispersion methods on morphology and ultimate properties. <i>Polymer Bulletin</i> , 2015 , 72, 1703-1722	2.4	23
15	Self-Repairing Composites for Corrosion Protection: A Review on Recent Strategies and Evaluation Methods. <i>Materials</i> , 2019 , 12,	3.5	21
14	Mechanical and thermal properties of epoxy/silicon carbide nanofiber composites. <i>Polymers for Advanced Technologies</i> , 2015 , 26, 142-146	3.2	19
13	Volume Shrinkage and Cure Kinetics in Carboxyl-Terminated Poly(butadiene-co-acrylonitrile) (CTBN) Modified Epoxy/Clay Nanocomposites. <i>Journal of Macromolecular Science - Pure and Applied Chemistry</i> , 2015 , 52, 353-359	2.2	13
12	TiO ₂ /Halloysite hybrid filler reinforced epoxy nanocomposites. <i>Polymer Composites</i> , 2018 , 39, E2426-E2435	3.5	13
11	To What Extent Can Hyperelastic Models Make Sense the Effect of Clay Surface Treatment on the Mechanical Properties of Elastomeric Nanocomposites?. <i>Macromolecular Materials and Engineering</i> , 2017 , 302, 1700036	3.9	12
10	The role of clay modifier on cure characteristics and properties of epoxy/clay/carboxyl-terminated poly(butadiene-co-acrylonitrile) (CTBN) hybrid. <i>Materials Technology</i> , 2017 , 32, 171-177	2.1	11
9	Biomimetic multifunctional materials: a review. <i>Emergent Materials</i> , 2019 , 2, 391-415	3.5	11
8	A comparative study on long term stability of self-healing epoxy coating with different inorganic nanotubes as healing agent reservoirs. <i>EXPRESS Polymer Letters</i> , 2017 , 11, 863-872	3.4	10
7	A Comparative Study on Cure Kinetics of Layered Double Hydroxide (LDH)/Epoxy Nanocomposites. <i>Journal of Composites Science</i> , 2020 , 4, 111	3	9
6	Solvent Uptake of Liquid Rubber Toughened Epoxy/Clay Nanocomposites. <i>Advances in Polymer Technology</i> , 2016 , 35,	1.9	6
5	Cuprous oxide nanoparticles in epoxy network: Cure reaction, morphology, and thermal stability. <i>Polymer Engineering and Science</i> , 2015 , 55, 2293-2306	2.3	4
4	Sugarcane Bagasse-Derived Activated Carbon- (AC-) Epoxy Vitrimer Biocomposite: Thermomechanical and Self-Healing Performance. <i>International Journal of Polymer Science</i> , 2021 , 2021, 1-7	2.4	4
3	Evaluation of Corrosion Protection of Self-Healing Coatings Containing Tung and Copaiba Oil Microcapsules. <i>International Journal of Polymer Science</i> , 2021 , 2021, 1-13	2.4	3
2	Integration of antifouling properties into epoxy coatings: a review 2022 , 19, 269		2
1	Effect of Nickel Doping on the Cure Kinetics of Epoxy/Fe ₃ O ₄ Nanocomposites. <i>Journal of Composites Science</i> , 2020 , 4, 102	3	2