

# POORNIMA VIJAYAN P

## List of Publications by Year in descending order

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35  
papers

1,258  
citations

361413

20  
h-index

361022

35  
g-index

35  
all docs

35  
docs citations

35  
times ranked

1423  
citing authors

#	ARTICLE	IF	CITATIONS
1	Flexible Pressure Sensor Based on PVDF Nanocomposites Containing Reduced Graphene Oxide-Titania Hybrid Nanolayers. <i>Polymers</i> , 2017, 9, 33.	4.5	108
2	Elastomer/thermoplastic modified epoxy nanocomposites: The hybrid effect of $\mu\text{m}^{\text{TM}}$ and $\text{nm}^{\text{TM}}$ scale. <i>Materials Science and Engineering Reports</i> , 2017, 116, 1-29.	31.8	99
3	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.	2.7	96
4	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.	7.8	86
5	Halloysite Nanotube as Multifunctional Component in Epoxy Protective Coating. <i>Industrial &amp; Engineering Chemistry Research</i> , 2016, 55, 11186-11192.	3.7	65
6	Cure kinetics of epoxy/MWCNTs nanocomposites: Isothermal calorimetric and rheological analyses. <i>Progress in Organic Coatings</i> , 2017, 108, 75-83.	3.9	60
7	Calorimetric analysis and molecular dynamics simulation of cure kinetics of epoxy/chitosan-modified Fe <sub>3</sub> O <sub>4</sub> nanocomposites. <i>Progress in Organic Coatings</i> , 2017, 112, 176-186.	3.9	56
8	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.	3.6	55
9	$\mu\text{Containers}^{\text{TM}}$ for self-healing epoxy composites and coating: Trends and advances. <i>EXPRESS Polymer Letters</i> , 2016, 10, 506-524.	2.1	52
10	Cellulose nanofibers to assist the release of healing agents in epoxy coatings. <i>Progress in Organic Coatings</i> , 2017, 112, 127-132.	3.9	48
11	Self-Repairing Composites for Corrosion Protection: A Review on Recent Strategies and Evaluation Methods. <i>Materials</i> , 2019, 12, 2754.	2.9	47
12	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.	3.7	44
13	TiO <sub>2</sub> nanotubes and mesoporous silica as containers in self-healing epoxy coatings. <i>Scientific Reports</i> , 2016, 6, 38812.	3.3	44
14	3D architectures of titania nanotubes and graphene with efficient nanosynergy for supercapacitors. <i>Materials and Design</i> , 2017, 117, 203-212.	7.0	44
15	Copper oxide nanoparticles in an epoxy network: microstructure, chain confinement and mechanical behaviour. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 19655-19667.	2.8	40
16	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.	7.8	36
17	Clay nanostructure and its localisation in an epoxy/liquid rubber blend. <i>RSC Advances</i> , 2013, 3, 24634.	3.6	31
18	Volume shrinkage and rheological studies of epoxidised and unepoxidised poly(styrene-block-butadiene-block-styrene) triblock copolymer modified epoxy resin $\mu$ -diamino diphenyl methane nanostructured blend systems. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 12760-12770.	2.8	28

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19	Biomimetic multifunctional materials: a review. Emergent Materials, 2019, 2, 391-415.	5.7	27
20	Liquid-rubber-modified epoxy/clay nanocomposites: effect of dispersion methods on morphology and ultimate properties. Polymer Bulletin, 2015, 72, 1703-1722.	3.3	26
21	Mechanical and thermal properties of epoxy/silicon carbide nanofiber composites. Polymers for Advanced Technologies, 2015, 26, 142-146.	3.2	21
22	Integration of antifouling properties into epoxy coatings: a review. Journal of Coatings Technology Research, 2022, 19, 269-284.	2.5	21
23	The role of clay modifier on cure characteristics and properties of epoxy/clay/carboxyl-terminated poly(butadiene-co-acrylonitrile) (CTBN) hybrid. Materials Technology, 2017, 32, 171-177.	3.0	19
24	TiO <sub>2</sub> /Halloysite hybrid filler reinforced epoxy nanocomposites. Polymer Composites, 2018, 39, E2426.	4.6	17
25	To What Extent Can Hyperelastic Models Make Sense the Effect of Clay Surface Treatment on the Mechanical Properties of Elastomeric Nanocomposites?. Macromolecular Materials and Engineering, 2017, 302, 1700036.	3.6	16
26	Volume Shrinkage and Cure Kinetics in Carboxyl-Terminated Poly(butadiene-co-acrylonitrile) (CTBN) Modified Epoxy/Clay Nanocomposites. Journal of Macromolecular Science - Pure and Applied Chemistry, 2015, 52, 353-359.	2.2	14
27	A Comparative Study on Cure Kinetics of Layered Double Hydroxide (LDH)/Epoxy Nanocomposites. Journal of Composites Science, 2020, 4, 111.	3.0	13
28	A comparative study on long term stability of self-healing epoxy coating with different inorganic nanotubes as healing agent reservoirs. EXPRESS Polymer Letters, 2017, 11, 863-872.	2.1	11
29	Sugarcane Bagasse-Derived Activated Carbon- (AC-) Epoxy Vitrimer Biocomposite: Thermomechanical and Self-Healing Performance. International Journal of Polymer Science, 2021, 2021, 1-7.	2.7	8
30	Solvent Uptake of Liquid Rubber Toughened Epoxy/Clay Nanocomposites. Advances in Polymer Technology, 2016, 35, .	1.7	6
31	Evaluation of Corrosion Protection of Self-Healing Coatings Containing Tung and Copaiba Oil Microcapsules. International Journal of Polymer Science, 2021, 2021, 1-13.	2.7	6
32	Cuprous oxide nanoparticles in epoxy network: Cure reaction, morphology, and thermal stability. Polymer Engineering and Science, 2015, 55, 2293-2306.	3.1	5
33	Development, characterization, and tribological behavior of polymeric carbon nitride/acrylonitrile butadiene styrene nanocomposites. Polymer Composites, 2022, 43, 848-861.	4.6	5
34	Effect of Nickel Doping on the Cure Kinetics of Epoxy/Fe <sub>3</sub> O <sub>4</sub> Nanocomposites. Journal of Composites Science, 2020, 4, 102.	3.0	3
35	Anomalous Dielectric Behavior in Co-Doped TiO <sub>2</sub> Nanotubes: Effect of Oxygen Vacancy Mediated Defect Dipole Pairs. ECS Journal of Solid State Science and Technology, 2021, 10, 113006.	1.8	1