## Devendra Kumar

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Biomolecular immobilization on conducting polymers for biosensing applications. Biomaterials, 2007, 28, 791-805.	11.4	458
2	Polyurea coatings for enhanced blast-mitigation: a review. RSC Advances, 2016, 6, 109706-109717.	3.6	114
3	Sustainable Bis-benzoxazines from Cardanol and PET-Derived Terephthalamides. ACS Sustainable Chemistry and Engineering, 2016, 4, 1085-1093.	6.7	81
4	Point-of-Care PCR Assays for COVID-19 Detection. Biosensors, 2021, 11, 141.	4.7	73
5	Microwave assisted glycolysis of poly(ethylene terepthalate) for preparation of polyester polyols. Journal of Applied Polymer Science, 2013, 129, 2779-2788.	2.6	70
6	Nanostructured SnO 2 encapsulated guar-gum hybrid nanocomposites for electrocatalytic determination of hydrazine. Materials Science and Engineering C, 2016, 58, 432-441.	7.3	43
7	Influence of microcapsule shell material on the mechanical behavior of epoxy composites for selfâ€healing applications. Journal of Applied Polymer Science, 2014, 131, .	2.6	42
8	Polysiloxane-based core-shell microspheres for toughening of epoxy resins. Journal of Polymer Research, 2014, 21, 1.	2.4	41
9	Amineâ€functionalized poly(styrene) microspheres as thermoplastic toughener for epoxy resin. Polymer Composites, 2015, 36, 174-183.	4.6	36
10	Recent progress in conductive polymeric materials for biomedical applications. Polymers for Advanced Technologies, 2019, 30, 2932-2953.	3.2	34
11	Highly sensitive electrochemical detection of cancer biomarker based on anti-EpCAM conjugated molybdenum disulfide grafted reduced graphene oxide nanohybrid. Bioelectrochemistry, 2021, 138, 107733.	4.6	31
12	Electrochemical biosensor for the epithelial cancer biomarker EpCAM based onÂreduced graphene oxide modified with nanostructured titanium dioxide. Mikrochimica Acta, 2020, 187, 275.	5.0	30
13	Removal of toxic metals using superabsorbent polyelectrolytic hydrogels. Journal of Applied Polymer Science, 2011, 122, 2415-2423.	2.6	29
14	Bio-functionalized Pt nanoparticles based electrochemical impedance immunosensor for human cardiac myoglobin. RSC Advances, 2014, 4, 21267-21276.	3.6	28
15	Melt-quenched vanadium pentoxide-stabilized chitosan nanohybrids for efficient hydrazine detection. Materials Advances, 2021, 2, 6665-6675.	5.4	28
16	Screening of polymer-plasticizer systems for propellant binder applications: an experimental and simulation approach. Journal of Energetic Materials, 2019, 37, 365-377.	2.0	22
17	Metalâ€Organic Frameworks as curing accelerators for benzoxazines. ChemistrySelect, 2016, 1, 3924-3932.	1.5	21
18	Electrospun Polyamide Nanofiber-Reinforced Hybrid Syntactic Foams. Polymer-Plastics Technology and Engineering, 2016, 55, 1797-1806.	1.9	18

Devendra Kumar

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19	Thermal Activation of Mendable Epoxy through Inclusion of Microcapsules and Imidazole Complexes. Polymer-Plastics Technology and Engineering, 2016, 55, 129-137.	1.9	18
20	Development of Polypyrrole/Epoxy Composites as Isotropically Conductive Adhesives. Journal of Adhesion, 2010, 86, 447-462.	3.0	17
21	Influence of Dopant Ions on the Properties of Conducting Polyacrylamide/Polyaniline Hydrogels. Polymer-Plastics Technology and Engineering, 2016, 55, 46-53.	1.9	17
22	Tuning the properties of segmented polyurea by regulating softâ€segment length. Journal of Applied Polymer Science, 2018, 135, 46284.	2.6	17
23	<scp>PEDOT</scp> : <scp>PSS</scp> â€grafted graphene oxideâ€titanium dioxide nanohybridâ€based conducting paper for glucose detection. Polymers for Advanced Technologies, 2021, 32, 1774-1782.	3.2	16
24	Curing kinetics of self-healing epoxy thermosets. Journal of Thermal Analysis and Calorimetry, 2015, 119, 547-555.	3.6	14
25	Poly(dimethylsiloxane)â€ŧoughened syntactic foams. Journal of Applied Polymer Science, 2018, 135, 45882.	2.6	14
26	Highly Sensitive Enzymatic Biosensor Based on Polyaniline-Wrapped Titanium Dioxide Nanohybrid for Fish Freshness Detection. Applied Biochemistry and Biotechnology, 2022, 194, 3765-3778.	2.9	14
27	Toughening of Epoxy with Preformed Polyethylene Thermoplastic Filler. Polymer-Plastics Technology and Engineering, 2015, 54, 907-915.	1.9	13
28	Understanding the role of isocyanate dilution toward spraying of polyurea. Journal of Applied Polymer Science, 2018, 135, 45869.	2.6	13
29	Graftâ€interpenetrating polymer networks of epoxy with polyurethanes derived from poly(ethyleneterephthalate) waste. Journal of Applied Polymer Science, 2014, 131, .	2.6	12
30	Rubber toughening of unsaturated polyester with core–shell poly(siloxane)-epoxy microspheres. Polymer Bulletin, 2014, 71, 2733-2748.	3.3	12
31	Poly(benzoxazine-co-urea): A Solventless Approach Towards The Introduction of Alternating Urea Linkages In Polybenzoxazine. ChemistrySelect, 2017, 2, 5372-5377.	1.5	11
32	Interfacial encapsulation of bioâ€based benzoxazines in epoxy shells for temperature triggered healing. Journal of Applied Polymer Science, 2015, 132, .	2.6	10
33	Epoxy-Glass Microballoon Syntactic Foams: Rheological Optimization of the Processing Window. Advances in Polymer Technology, 2019, 2019, 1-12.	1.7	10
34	Strain rate sensitivity of toughened epoxy. Iranian Polymer Journal (English Edition), 2015, 24, 871-881.	2.4	9
35	Microwaveâ€Assisted Sustainable Synthesis of Telechelic Poly(ethylene glycol)s with Benzoxazine End Groups. ChemistrySelect, 2016, 1, 6941-6947	1.5	9
36	Manganese stearate initiated photoâ€oxidative and thermoâ€oxidative degradation of LDPE, LLDPE and their blends. Journal of Applied Polymer Science, 2010, 117, 524-533.	2.6	8

Devendra Kumar

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37	Rheokinetic studies and compressive response of high performance polybenzoxazine syntactic foams. Journal of Applied Polymer Science, 2019, 136, 47234.	2.6	8
38	Microencapsulation of reactive amine by interfacially engineered epoxy microcapsules for smart applications. Iranian Polymer Journal (English Edition), 2017, 26, 489-497.	2.4	7
39	Emergence of timeâ€dependent material properties in chain extended polyureas. Journal of Applied Polymer Science, 2018, 135, 46730.	2.6	6
40	Investigating the Degradation Behavior of LDPE-grafted Maleic Anhydride for Use as Compatibilizer in Environmentally Degradable Compositions. International Journal of Polymeric Materials and Polymeric Biomaterials, 2012, 61, 241-262.	3.4	5
41	Poly(ethyleneterephthalate) glycolysates as effective toughening agents for epoxy resin. Journal of Applied Polymer Science, 2014, 131, .	2.6	5
42	Application of microencapsulated unsaturated polyester toward temperature-triggered healing in epoxy composites. Journal of Intelligent Material Systems and Structures, 2016, 27, 1650-1657.	2.5	4
43	Review – polymeric materials for energy harvesting and storage applications. Polymer-Plastics Technology and Materials, 2021, 60, 626-649.	1.3	4
44	Exfoliated two-dimensional molybdenum disulfide reinforced epoxy syntactic foams. Journal of Cellular Plastics, 0, , 0021955X2098715.	2.4	4
45	Epoxy-Filled Microcapsules by Interfacial Engineering. Polymer-Plastics Technology and Engineering, 2016, 55, 937-942.	1.9	3
46	Effect of coâ€solvents on the photovoltaic performance of an inverted organic solar cell. Polymer Engineering and Science, 2015, 55, 1382-1388.	3.1	2
47	Study of the processing pathway for cosolvent addition in active layer preparation of inverted organic solar cell. Polymer Engineering and Science, 2015, 55, 1758-1766.	3.1	2
48	Ternary Solvent System to Control the Morphology of Active Blend in Inverted Organic Solar Cells. Polymer-Plastics Technology and Engineering, 2017, 56, 974-982.	1.9	2
49	Understanding the role of internal microstructure in capsuleâ€based healing of polymeric composites. Journal of Applied Polymer Science, 2017, 134, 45471.	2.6	2
50	Microencapsulation of reactive amine by interfacially engineered epoxy microcapsules for smart applications. , 0, .		1