

Devendra Kumar

List of Publications by Year in descending order

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Version: 2024-02-01

50
papers

1,488
citations

430843

18
h-index

315719

38
g-index

50
all docs

50
docs citations

50
times ranked

1870
citing authors

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

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

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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 â€“ 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 |