

Michael R Kessler

List of Publications by Year in descending order

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220
papers

16,271
citations

26630

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17105

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335
all docs

335
docs citations

335
times ranked

14566
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Functional liquid crystalline epoxy networks and composites: from materials design to applications. <i>International Materials Reviews</i> , 2022, 67, 201-229. | 19.3 | 11 |
| 2 | Fully Eugenol-Based Epoxy Thermosets: Synthesis, Curing, and Properties. <i>Macromolecular Materials and Engineering</i> , 2022, 307, . | 3.6 | 3 |
| 3 | Loss modulus measurement of a viscoelastic polymer at acoustic and ultrasonic frequencies using vibrothermography. <i>Measurement: Journal of the International Measurement Confederation</i> , 2021, 168, 108311. | 5.0 | 6 |
| 4 | Thermosetting polymers from renewable sources. <i>Polymer International</i> , 2021, 70, 167-180. | 3.1 | 38 |
| 5 | Multiscale Structural Characterization of a Smectic Liquid Crystalline Elastomer upon Mechanical Deformation Using Neutron Scattering. <i>Macromolecules</i> , 2021, 54, 10574-10582. | 4.8 | 3 |
| 6 | Liquid crystalline networks based on photo-initiated thiol-ene click chemistry. <i>Soft Matter</i> , 2020, 16, 1760-1770. | 2.7 | 12 |
| 7 | Combined light- and heat-induced shape memory behavior of anthracene-based epoxy elastomers. <i>Scientific Reports</i> , 2020, 10, 20214. | 3.3 | 13 |
| 8 | Sustainable Polyurethane-Lignin Aqueous Dispersions and Thin Films: Rheological Behavior and Thermomechanical Properties. <i>ACS Applied Polymer Materials</i> , 2020, 2, 5198-5207. | 4.4 | 7 |
| 9 | Preparation of Nanoscale Semi-IPNs with an Interconnected Microporous Structure via Cationic Polymerization of Bio-Based Tung Oil in a Homogeneous Solution of Poly(μ -caprolactone). <i>ACS Omega</i> , 2020, 5, 9977-9984. | 3.5 | 8 |
| 10 | High-performance thermosets with tailored properties derived from methacrylated eugenol and epoxy-based vinyl ester. <i>Polymer International</i> , 2018, 67, 544-549. | 3.1 | 21 |
| 11 | Bio-based reactive diluents as sustainable replacements for styrene in MAESO resin. <i>RSC Advances</i> , 2018, 8, 13780-13788. | 3.6 | 31 |
| 12 | Soybean-Oil-Based Thermosetting Resins with Methacrylated Vanillyl Alcohol as Bio-Based, Low-Viscosity Comonomer. <i>Macromolecular Materials and Engineering</i> , 2018, 303, 1700278. | 3.6 | 32 |
| 13 | Catalytic Conversion of Biomass-Derived 1,2-Propanediol to Propylene Oxide over Supported Solid-Base Catalysts. <i>ACS Omega</i> , 2018, 3, 8718-8723. | 3.5 | 4 |
| 14 | High Temperature Physical and Chemical Stability and Oxidation Reaction Kinetics of Ni-Cr Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2017, 121, 4018-4028. | 3.1 | 6 |
| 15 | Synthesis, characterization, and functionalization of ZrW_2O_8 nano-rods for advanced polymer nanocomposites. <i>Polymers for Advanced Technologies</i> , 2017, 28, 1375-1381. | 3.2 | 11 |
| 16 | Manufacturing PDMS micro lens array using spin coating under a multiphase system. <i>Journal of Micromechanics and Microengineering</i> , 2017, 27, 055012. | 2.6 | 7 |
| 17 | Liquid crystalline epoxy networks with exchangeable disulfide bonds. <i>Soft Matter</i> , 2017, 13, 5021-5027. | 2.7 | 56 |
| 18 | Recent advances in vegetable oil-based polymers and their composites. <i>Progress in Polymer Science</i> , 2017, 71, 91-143. | 24.7 | 497 |

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 19 | Additive Manufacturing With Conductive, Viscoelastic Polymer Composites: Direct-Ink-Writing of Electrolytic and Anodic Poly(Ethylene Oxide) Composites. <i>Journal of Manufacturing Science and Engineering, Transactions of the ASME</i> , 2017, 139, . | 2.2 | 17 |
| 20 | Recent Advances in Conductive Composites Based on Biodegradable Polymers for Regenerative Medicine Applications. , 2017, , 519-542. | | 0 |
| 21 | Effect of TiO ₂ nanoparticles on thermo-mechanical properties of cast zein protein films. <i>Food Packaging and Shelf Life</i> , 2017, 13, 35-43. | 7.5 | 22 |
| 22 | Photo-responsive liquid crystalline epoxy networks with exchangeable disulfide bonds. <i>RSC Advances</i> , 2017, 7, 37248-37254. | 3.6 | 53 |
| 23 | Ferrogels : Smart Materials for Biomedical and Remediation Applications. , 2017, , 561-579. | | 5 |
| 24 | Synthesis and Characterization of Methacrylated Eugenol as a Sustainable Reactive Diluent for a Maleinated Acrylated Epoxidized Soybean Oil Resin. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 8876-8883. | 6.7 | 59 |
| 25 | Poly (ethylene-terephthalate) Reinforced with Hemp Fibers: Elaboration, Characterization, and Potential Applications. , 2017, , 43-68. | | 0 |
| 26 | Biopolyamides and High-Performance Natural Fiber-Reinforced Biocomposites. , 2017, , 253-270. | | 3 |
| 27 | Lignocellulosic Fibers Composites: An Overview. , 2017, , 293-308. | | 2 |
| 28 | Impact of Chemical Treatment and the Manufacturing Process on Mechanical, Thermal, and Rheological Properties of Natural Fibers-Based Composites. , 2017, , 225-252. | | 13 |
| 29 | The Effect of Gamma Radiation on Biodegradability of Natural Fiber/PP-HMSPP Foams: A Study of Thermal Stability and Biodegradability. , 2017, , 339-353. | | 1 |
| 30 | Okra Bast Fiber as Potential Reinforcement Element of Biocomposites: Can It Be the Flax of the Future?. , 2017, , 379-405. | | 11 |
| 31 | Self-Metathesis of 10-Undecenol with Ru-Amine-Based Complex for Preparing the Soft Segment and Chain Extender of Novel Castor Oil-Based Polyurethanes. <i>Macromolecular Symposia</i> , 2016, 368, 30-39. | 0.7 | 8 |
| 32 | Synthesis of renewable isosorbide-based monomer and preparation of the corresponding thermosets. <i>Chinese Chemical Letters</i> , 2016, 27, 875-878. | 9.0 | 12 |
| 33 | Synthesis and Preparation of Bio-Based ROMP Thermosets from Functionalized Renewable Isosorbide Derivative. <i>Macromolecular Chemistry and Physics</i> , 2016, 217, 871-879. | 2.2 | 23 |
| 34 | Absorptive viscoelastic coatings for full field vibration coverage measurement in vibrothermography. <i>NDT and E International</i> , 2016, 82, 56-61. | 3.7 | 16 |
| 35 | Photoresponsive Liquid Crystalline Epoxy Networks with Shape Memory Behavior and Dynamic Ester Bonds. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 15750-15757. | 8.0 | 123 |
| 36 | Processing and characterization of low-cost electrospun carbon fibers from organosolv lignin/polyacrylonitrile blends. <i>Carbon</i> , 2016, 100, 126-136. | 10.3 | 166 |

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|----|---|-----|-----------|
| 37 | Liquid Crystalline Epoxy Resins. , 2016, , 1-17. | | 3 |
| 38 | Novel low-cost hybrid composites from asphaltene/SBS tri-block copolymer with improved thermal and mechanical properties. Journal of Materials Science, 2016, 51, 2394-2403. | 3.7 | 63 |
| 39 | Plant Oil-Based Polyurethanes. , 2016, , 37-54. | | 9 |
| 40 | Renewable Polymers Prepared from Vanillin and Its Derivatives. Macromolecular Chemistry and Physics, 2015, 216, 1816-1822. | 2.2 | 61 |
| 41 | Processing and characterization of bio-based poly (hydroxyalkanoate)/poly(amide) blends: Improved flexibility and impact resistance of PHA-based plastics. Journal of Applied Polymer Science, 2015, 132, . | 2.6 | 12 |
| 42 | Biorenewable polymer composites from tall oil-based polyamide and lignin-cellulose fiber. Journal of Applied Polymer Science, 2015, 132, . | 2.6 | 12 |
| 43 | <i>in situ</i> synthesis of biopolyurethane nanocomposites reinforced with modified multiwalled carbon nanotubes. Journal of Applied Polymer Science, 2015, 132, . | 2.6 | 23 |
| 44 | Asphaltene: structural characterization, molecular functionalization, and application as a low-cost filler in epoxy composites. RSC Advances, 2015, 5, 24264-24273. | 3.6 | 33 |
| 45 | High bio-content polyurethane composites with urethane modified lignin as filler. Polymer, 2015, 69, 52-57. | 3.8 | 105 |
| 46 | Biorenewable thermosetting copolymer based on soybean oil and eugenol. European Polymer Journal, 2015, 69, 16-28. | 5.4 | 76 |
| 47 | Silanized-silicon/epoxy nanocomposites for structural capacitors with enhanced electrical energy storage capability. Composites Science and Technology, 2015, 121, 34-40. | 7.8 | 18 |
| 48 | Rapid room-temperature polymerization of bio-based multiaziridine-containing compounds. RSC Advances, 2015, 5, 1557-1563. | 3.6 | 8 |
| 49 | Unexpected Tackifiers from Isosorbide. ChemSusChem, 2015, 8, 448-451. | 6.8 | 10 |
| 50 | Biobased Polyurethanes Prepared from Different Vegetable Oils. ACS Applied Materials & Interfaces, 2015, 7, 1226-1233. | 8.0 | 264 |
| 51 | Multifunctional Cyanate Ester Nanocomposites Reinforced by Hexagonal Boron Nitride after Noncovalent Biomimetic Functionalization. ACS Applied Materials & Interfaces, 2015, 7, 5915-5926. | 8.0 | 177 |
| 52 | Bio-based Polyurethane Foam Made from Compatible Blends of Vegetable-Oil-based Polyol and Petroleum-based Polyol. ACS Sustainable Chemistry and Engineering, 2015, 3, 743-749. | 6.7 | 132 |
| 53 | Self-healing polymer nanocomposite materials: A review. Polymer, 2015, 69, 369-383. | 3.8 | 575 |
| 54 | Controlled Shape Memory Behavior of a Smectic Main-Chain Liquid Crystalline Elastomer. Macromolecules, 2015, 48, 2864-2874. | 4.8 | 45 |

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|----|--|------|-----------|
| 55 | Utilizing Wide Band Gap, High Dielectric Constant Nanoparticles as Additives in Organic Solar Cells. Journal of Physical Chemistry C, 2015, 119, 23883-23889. | 3.1 | 4 |
| 56 | Biorenewable polymers based on acrylated epoxidized soybean oil and methacrylated vanillin. Materials Today Communications, 2015, 5, 18-22. | 1.9 | 51 |
| 57 | Dynamics of poly(methyl methacrylate)-montmorillonite nanocomposites: A dielectric study. Journal of Non-Crystalline Solids, 2015, 410, 43-50. | 3.1 | 10 |
| 58 | Characterization and biodegradation behavior of bio-based poly(lactic acid) and soy protein blends for sustainable horticultural applications. Green Chemistry, 2015, 17, 380-393. | 9.0 | 100 |
| 59 | Polyols and polyurethanes prepared from epoxidized soybean oil ring-opened by polyhydroxy fatty acids with varying OH numbers. Journal of Applied Polymer Science, 2015, 132, . | 2.6 | 38 |
| 60 | Sustainable Materials for a Horticultural Application. Plastics Engineering, 2014, 70, 44-52. | 0.0 | 10 |
| 61 | Dielectric spectroscopy for biorenewable plant oil-based polyurethane. , 2014, , . | | 2 |
| 62 | Static characterization of a soft elastomeric capacitor for non destructive evaluation applications. , 2014, , . | | 1 |
| 63 | Biodegradation Behavior of Poly(lactic acid) (PLA)/Distiller's Dried Grains with Solubles (DDGS) Composites. ACS Sustainable Chemistry and Engineering, 2014, 2, 2699-2706. | 6.7 | 52 |
| 64 | A case study of the effects of a resident scientist on teaching experimental design to high school chemistry students. , 2014, , . | | 0 |
| 65 | Tailoring the toughness and CTE of high temperature bisphenol E cyanate ester (BECy) resin. EXPRESS Polymer Letters, 2014, 8, 336-344. | 2.1 | 12 |
| 66 | Thermal analysis of phase transitions in perovskite electroceramics. Journal of Thermal Analysis and Calorimetry, 2014, 115, 587-593. | 3.6 | 15 |
| 67 | Study of Physically Transient Insulating Materials as a Potential Platform for Transient Electronics and Bioelectronics. Advanced Functional Materials, 2014, 24, 4135-4143. | 14.9 | 127 |
| 68 | Rare Earth Triflate Initiators in the Cationic Polymerization of Tung Oil-Based Thermosetting Polymers for Self-Healing Applications. Macromolecular Materials and Engineering, 2014, 299, 1062-1069. | 3.6 | 9 |
| 69 | Thermo-Mechanical and Antibacterial Properties of Soybean Oil-Based Cationic Polyurethane Coatings: Effects of Amine Ratio and Degree of Crosslinking. Macromolecular Materials and Engineering, 2014, 299, 1042-1051. | 3.6 | 39 |
| 70 | Synthesis and characterization of phthalonitrile resins from <i>ortho</i> -linked aromatic and heterocyclic monomers. Polymer International, 2014, 63, 465-469. | 3.1 | 29 |
| 71 | Creep-resistant behavior of self-reinforcing liquid crystalline epoxy resins. Polymer, 2014, 55, 2021-2027. | 3.8 | 32 |
| 72 | Bio-renewable precursor fibers from lignin/poly lactide blends for conversion to carbon fibers. Carbon, 2014, 68, 159-166. | 10.3 | 151 |

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|----|---|-----|-----------|
| 73 | Effect of silane structure on the properties of silanized multiwalled carbon nanotube-epoxy nanocomposites. <i>Polymer</i> , 2014, 55, 1854-1865. | 3.8 | 76 |
| 74 | Investigation of the effect of clay nanoparticles on the thermal behavior of PLA using a heat flux rapid scanning rate calorimeter. <i>Polymer Testing</i> , 2014, 35, 1-9. | 4.8 | 8 |
| 75 | PMMA-g-SOY as a sustainable novel dielectric material. <i>RSC Advances</i> , 2014, 4, 18240. | 3.6 | 59 |
| 76 | Tung oil-based thermosetting polymers for self-healing applications. <i>Journal of Applied Polymer Science</i> , 2014, 131, . | 2.6 | 24 |
| 77 | Progress in Green Polymer Composites from Lignin for Multifunctional Applications: A Review. <i>ACS Sustainable Chemistry and Engineering</i> , 2014, 2, 1072-1092. | 6.7 | 1,073 |
| 78 | Matrices from vegetable oils, cashew nut shell liquid, and other relevant systems for biocomposite applications. <i>Green Chemistry</i> , 2014, 16, 1700-1715. | 9.0 | 92 |
| 79 | Effects of unsaturation and different ring-opening methods on the properties of vegetable oil-based polyurethane coatings. <i>Polymer</i> , 2014, 55, 1004-1011. | 3.8 | 106 |
| 80 | Modeling the interphase of a polymer-based nanodielectric. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , 2014, 21, 488-496. | 2.9 | 26 |
| 81 | Thermomagnetic Processing of Liquid-Crystalline Epoxy Resins and Their Mechanical Characterization Using Nanoindentation. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 19456-19464. | 8.0 | 14 |
| 82 | Peel and shear strength and tear resistance of ultrasonically sealed coextruded polyolefin films for packaging applications. <i>Welding in the World, Le Soudage Dans Le Monde</i> , 2014, 58, 619-636. | 2.5 | 2 |
| 83 | Semi-interpenetrating polymer networks prepared from in situ cationic polymerization of bio-based tung oil with biodegradable polycaprolactone. <i>RSC Advances</i> , 2014, 4, 6710. | 3.6 | 15 |
| 84 | Bio-inspired green surface functionalization of PMMA for multifunctional capacitors. <i>RSC Advances</i> , 2014, 4, 6677. | 3.6 | 137 |
| 85 | Biodegradation behavior of bacterial-based polyhydroxyalkanoate (PHA) and DDGS composites. <i>Green Chemistry</i> , 2014, 16, 1911-1920. | 9.0 | 57 |
| 86 | Free radical induced graft copolymerization of ethyl acrylate onto SOY for multifunctional materials. <i>Materials Today Communications</i> , 2014, 1, 34-41. | 1.9 | 28 |
| 87 | Novel Composites from Eco-Friendly Soy Flour/SBS Triblock Copolymer. <i>Macromolecular Materials and Engineering</i> , 2014, 299, 953-958. | 3.6 | 50 |
| 88 | Oxidation Behavior of Multiwalled Carbon Nanotubes Fluidized with Ozone. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 1835-1842. | 8.0 | 47 |
| 89 | Novel bio-based composites of polyhydroxyalkanoate (PHA)/distillers dried grains with solubles (DDGS). <i>RSC Advances</i> , 2014, 4, 39802-39808. | 3.6 | 23 |
| 90 | Reduction of Epoxidized Vegetable Oils: A Novel Method to Prepare Bio-Based Polyols for Polyurethanes. <i>Macromolecular Rapid Communications</i> , 2014, 35, 1068-1074. | 3.9 | 81 |

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| 91 | Polyurethanes from Solvent-Free Vegetable Oil-Based Polyols. ACS Sustainable Chemistry and Engineering, 2014, 2, 2465-2476. | 6.7 | 88 |
| 92 | Anionic waterborne polyurethane dispersion from a bio-based ionic segment. RSC Advances, 2014, 4, 35476-35483. | 3.6 | 66 |
| 93 | Green Aqueous Surface Modification of Polypropylene for Novel Polymer Nanocomposites. ACS Applied Materials & Interfaces, 2014, 6, 9349-9356. | 8.0 | 176 |
| 94 | Pultruded glass fiber/bio-based polymer: Interface tailoring with silane coupling agent. Composites Part A: Applied Science and Manufacturing, 2014, 65, 83-90. | 7.6 | 30 |
| 95 | Supercritical carbon dioxide-assisted silanization of multi-walled carbon nanotubes and their effect on the thermo-mechanical properties of epoxy nanocomposites. Polymer, 2014, 55, 4156-4163. | 3.8 | 35 |
| 96 | Interfacial treatment effects on behavior of soft nano-composites for highly stretchable dielectrics. Polymer, 2014, 55, 4531-4537. | 3.8 | 18 |
| 97 | Biorenewable ROMP-based thermosetting copolymers from functionalized castor oil derivative with various cross-linking agents. Polymer, 2014, 55, 5718-5726. | 3.8 | 15 |
| 98 | Anisotropic buckypaper through shear-induced mechanical alignment of carbon nanotubes in water. Carbon, 2014, 80, 433-439. | 10.3 | 15 |
| 99 | Composition-dependent fracture toughness of ROMP-based Dilulin/dicyclopentadiene copolymers. Journal of Materials Science, 2014, 49, 4880-4890. | 3.7 | 4 |
| 100 | Cure kinetics of liquid crystalline epoxy resins based on biphenyl mesogen. Journal of Thermal Analysis and Calorimetry, 2014, 117, 481-488. | 3.6 | 13 |
| 101 | Synthesis and Characterization of AN-g-SOY for Sustainable Polymer Composites. ACS Sustainable Chemistry and Engineering, 2014, 2, 2454-2460. | 6.7 | 46 |
| 102 | Shear thinning behavior of aqueous alumina nanoparticle suspensions with saccharides. Ceramics International, 2014, 40, 3533-3542. | 4.8 | 14 |
| 103 | Injection repair of carbon fiber/bismaleimide composite panels with bisphenol E cyanate ester resin. Composites Science and Technology, 2014, 100, 174-181. | 7.8 | 36 |
| 104 | Epoxy Composites Reinforced with Negative-CTE ZrW ₂ O ₈ Nanoparticles for Electrical Applications. Macromolecular Materials and Engineering, 2013, 298, 136-144. | 3.6 | 13 |
| 105 | An efficient approach to prepare ether and amide-based self-catalyzed phthalonitrile resins. Polymer Chemistry, 2013, 4, 3617. | 3.9 | 52 |
| 106 | Effect of PEGDE addition on rheological and mechanical properties of bisphenol E cyanate ester. Journal of Applied Polymer Science, 2013, 130, 463-469. | 2.6 | 10 |
| 107 | Soft Elastomeric Capacitor Network for Strain Sensing Over Large Surfaces. IEEE/ASME Transactions on Mechatronics, 2013, 18, 1647-1654. | 5.8 | 81 |
| 108 | Liquid crystalline epoxy resin based on biphenyl mesogen: Thermal characterization. Polymer, 2013, 54, 3017-3025. | 3.8 | 73 |

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| 109 | Zirconium Tungstate/Epoxy Nanocomposites: Effect of Nanoparticle Morphology and Negative Thermal Expansivity. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 9478-9487. | 8.0 | 44 |
| 110 | Bisphenol E cyanate ester as a novel resin for repairing BMI/carbon fiber composites: Influence of cure temperature on adhesive bond strength. <i>Polymer</i> , 2013, 54, 3994-4002. | 3.8 | 36 |
| 111 | Liquid crystalline epoxy resin based on biphenyl mesogen: Effect of magnetic field orientation during cure. <i>Polymer</i> , 2013, 54, 5741-5746. | 3.8 | 32 |
| 112 | Degradation of ROMP-based bio-renewable polymers by UV radiation. <i>Polymer Degradation and Stability</i> , 2013, 98, 2357-2365. | 5.8 | 36 |
| 113 | Low viscosity cyanate ester resin for the injection repair of hole-edge delaminations in bismaleimide/carbon fiber composites. <i>Composites Part A: Applied Science and Manufacturing</i> , 2013, 52, 31-37. | 7.6 | 28 |
| 114 | Multifunctional Properties of Cyanate Ester Composites with SiO ₂ Coated Fe ₃ O ₄ Fillers. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 1636-1642. | 8.0 | 28 |
| 115 | Preparation and characterization of whey protein isolate films reinforced with porous silica coated titania nanoparticles. <i>Journal of Food Engineering</i> , 2013, 117, 133-140. | 5.2 | 62 |
| 116 | Soy-castor oil based polyols prepared using a solvent-free and catalyst-free method and polyurethanes therefrom. <i>Green Chemistry</i> , 2013, 15, 1477. | 9.0 | 153 |
| 117 | Cure kinetics characterization and monitoring of an epoxy resin using DSC, Raman spectroscopy, and DEA. <i>Composites Part A: Applied Science and Manufacturing</i> , 2013, 49, 100-108. | 7.6 | 343 |
| 118 | Polyurethanes from Isosorbide-Based Diisocyanates. <i>ChemSusChem</i> , 2013, 6, 1182-1185. | 6.8 | 68 |
| 119 | Rheological Behavior of Environmentally Friendly Castor Oil-Based Waterborne Polyurethane Dispersions. <i>Macromolecules</i> , 2013, 46, 4606-4616. | 4.8 | 128 |
| 120 | Silicon/epoxy nanocomposites for capacitors as the energy storage element. , 2013, , . | | 0 |
| 121 | Broadband Dielectric Relaxation Spectroscopy of Functionalized Biobased Castor Oil Copolymer Thermosets. <i>Macromolecular Chemistry and Physics</i> , 2013, 214, 2891-2902. | 2.2 | 3 |
| 122 | Electrothermal lifetime prediction of polyimide wire insulation with application to aircraft. <i>Journal of Applied Polymer Science</i> , 2013, 130, 1639-1644. | 2.6 | 9 |
| 123 | Degradation kinetics of polytetrafluoroethylene and poly(ethylene-alt-tetrafluoroethylene). <i>High Performance Polymers</i> , 2013, 25, 535-542. | 1.8 | 22 |
| 124 | A Novel Microwave-Assisted Carbothermic Route for the Production of Copper-Carbon Nanotube Metal Matrix Composites Directly from Copper Oxide. <i>Advanced Engineering Materials</i> , 2013, 15, 366-372. | 3.5 | 11 |
| 125 | Enhanced polymer nanocomposites for condition assessment of wind turbine blades. , 2013, , . | | 0 |
| 126 | Dielectric properties of cyanate ester/silicon nanocomposites for multifunctional structural capacitors. , 2012, , . | | 2 |

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|-----|--|------|-----------|
| 127 | Dielectric and mechanical properties of polyimide-barium titanate nanocomposites. , 2012, , . | | 0 |
| 128 | On the nanoparticle interphase. , 2012, , . | | 3 |
| 129 | Special Chapter on State-of-the-art Advances in Thermal Analysis and Calorimetry. Journal of Thermal Analysis and Calorimetry, 2012, 109, 1091-1094. | 3.6 | 0 |
| 130 | Modified Rheokinetic Technique to Enhance the Understanding of Microcapsule-Based Self-Healing Polymers. ACS Applied Materials & Interfaces, 2012, 4, 1831-1837. | 8.0 | 16 |
| 131 | Carbon Fiber-Reinforced Cyanate Ester/Nano-ZrW ₂ O ₈ Composites with Tailored Thermal Expansion. ACS Applied Materials & Interfaces, 2012, 4, 510-517. | 8.0 | 59 |
| 132 | Glass fiber reinforced ROMP-based bio-renewable polymers: Enhancement of the interface with silane coupling agents. Composites Science and Technology, 2012, 72, 1264-1272. | 7.8 | 44 |
| 133 | Antibacterial Soybean Oil-Based Cationic Polyurethane Coatings Prepared from Different Amino Polyols. ChemSusChem, 2012, 5, 2221-2227. | 6.8 | 59 |
| 134 | Effect of Hydrothermal Synthesis Conditions on the Morphology and Negative Thermal Expansivity of Zirconium Tungstate Nanoparticles. Journal of the American Ceramic Society, 2012, 95, 3643-3650. | 3.8 | 12 |
| 135 | Novel Si/cyanate ester nanocomposites with multifunctional properties. Composites Science and Technology, 2012, 72, 1692-1696. | 7.8 | 19 |
| 136 | Polymer Matrix Composites: A Perspective for a Special Issue of Polymer Reviews. Polymer Reviews, 2012, 52, 229-233. | 10.9 | 73 |
| 137 | Rheokinetics of Ring-Opening Metathesis Polymerization of Bio-Based Castor Oil Thermoset. Macromolecules, 2012, 45, 7729-7739. | 4.8 | 18 |
| 138 | Influence of Electron Beam Irradiation on the Mechanical Properties of Vegetable Oil-Based Biopolymers. Macromolecular Materials and Engineering, 2012, 297, 799-806. | 3.6 | 4 |
| 139 | Activation energy for diffusion and welding of PLA films. Polymer Engineering and Science, 2012, 52, 1693-1700. | 3.1 | 12 |
| 140 | Statistical analysis of electrical breakdown behavior of polyimide following degrading processes. IEEE Transactions on Dielectrics and Electrical Insulation, 2011, 18, 1955-1962. | 2.9 | 24 |
| 141 | Enhanced Reaction Kinetics and Impact Strength of Cyanate Ester Reinforced with Multiwalled Carbon Nanotubes. Journal of Nanoscience and Nanotechnology, 2011, 11, 3970-3978. | 0.9 | 13 |
| 142 | Evaluation of different catalyst systems for bulk polymerization through click-chemistry. Polymer, 2011, 52, 4435-4441. | 3.8 | 19 |
| 143 | Synthesis, processing, and characterization of negative thermal expansion zirconium tungstate nanoparticles with different morphologies. Materials Chemistry and Physics, 2011, 131, 12-17. | 4.0 | 12 |
| 144 | Microencapsulation of self-healing agents with melamine-urea-formaldehyde by the Shirasu porous glass (SPG) emulsification technique. Macromolecular Research, 2011, 19, 1056-1061. | 2.4 | 15 |

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|-----|--|-----|-----------|
| 145 | Cyanate ester/alumina nanoparticle suspensions: Effect of alumina concentration on viscosity and cure behavior. <i>Polymer Engineering and Science</i> , 2011, 51, 1409-1417. | 3.1 | 4 |
| 146 | Ultrasonic and impulse welding of polylactic acid films. <i>Polymer Engineering and Science</i> , 2011, 51, 1059-1067. | 3.1 | 5 |
| 147 | Rubbers Based on Conjugated Soybean Oil: Synthesis and Characterization. <i>Macromolecular Materials and Engineering</i> , 2011, 296, 444-454. | 3.6 | 6 |
| 148 | Evaluation of Norbornene-Based Adhesives to Amine-Cured Epoxy for Self-Healing Applications. <i>Macromolecular Materials and Engineering</i> , 2011, 296, 965-972. | 3.6 | 14 |
| 149 | Adhesive repair of bismaleimide/carbon fiber composites with bisphenol E cyanate ester. <i>Composites Science and Technology</i> , 2011, 71, 239-245. | 7.8 | 36 |
| 150 | Zirconium tungstate/cyanate ester nanocomposites with tailored thermal expansivity. <i>Composites Science and Technology</i> , 2011, 71, 1385-1391. | 7.8 | 38 |
| 151 | Influence of thermal degradation and saline exposure on dielectric permittivity of polyimide. <i>Journal of Physics and Chemistry of Solids</i> , 2011, 72, 875-881. | 4.0 | 10 |
| 152 | Multifunctional fiberglass-reinforced PMMA-BaTiO ₃ structural/dielectric composites. <i>Polymer</i> , 2011, 52, 2016-2024. | 3.8 | 65 |
| 153 | Influence of crosslinking density on the tribological behavior of norbornene-based polymeric materials. <i>Wear</i> , 2011, 270, 550-554. | 3.1 | 6 |
| 154 | Degradation kinetics of polyimide film. <i>High Performance Polymers</i> , 2011, 23, 335-342. | 1.8 | 24 |
| 155 | Enhanced bulk catalyst dissolution for self-healing materials. <i>Journal of Materials Chemistry</i> , 2010, 20, 4198. | 6.7 | 18 |
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