

Nancy R Sottos

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

267
papers

26,749
citations

76
h-index

160
g-index

286
ext. papers

29,523
ext. citations

9.6
avg, IF

7.14
L-index

| # | Paper | IF | Citations |
|-----|---|------|-----------|
| 267 | Autonomic healing of polymer composites. <i>Nature</i> , 2001 , 409, 794-7 | 50.4 | 3147 |
| 266 | Force-induced activation of covalent bonds in mechanoresponsive polymeric materials. <i>Nature</i> , 2009 , 459, 68-72 | 50.4 | 1211 |
| 265 | Self-healing materials with microvascular networks. <i>Nature Materials</i> , 2007 , 6, 581-5 | 27 | 1198 |
| 264 | Self-Healing Polymers and Composites. <i>Annual Review of Materials Research</i> , 2010 , 40, 179-211 | 12.8 | 990 |
| 263 | Mechanically-induced chemical changes in polymeric materials. <i>Chemical Reviews</i> , 2009 , 109, 5755-98 | 68.1 | 969 |
| 262 | Biasing reaction pathways with mechanical force. <i>Nature</i> , 2007 , 446, 423-7 | 50.4 | 611 |
| 261 | In situ poly(urea-formaldehyde) microencapsulation of dicyclopentadiene. <i>Journal of Microencapsulation</i> , 2003 , 20, 719-730 | 3.4 | 581 |
| 260 | Self-healing structural composite materials. <i>Composites Part A: Applied Science and Manufacturing</i> , 2003 , 34, 743-753 | 8.4 | 572 |
| 259 | Microcapsule induced toughening in a self-healing polymer composite. <i>Journal of Materials Science</i> , 2004 , 39, 1703-1710 | 4.3 | 522 |
| 258 | Fracture testing of a self-healing polymer composite. <i>Experimental Mechanics</i> , 2002 , 42, 372-379 | 2.6 | 511 |
| 257 | Triggered Release from Polymer Capsules. <i>Macromolecules</i> , 2011 , 44, 5539-5553 | 5.5 | 487 |
| 256 | Effects of chemical bonding on heat transport across interfaces. <i>Nature Materials</i> , 2012 , 11, 502-6 | 27 | 458 |
| 255 | Effect of microcapsule size on the performance of self-healing polymers. <i>Polymer</i> , 2007 , 48, 3520-3529 | 3.9 | 374 |
| 254 | Microencapsulation of Isocyanates for Self-Healing Polymers. <i>Macromolecules</i> , 2008 , 41, 9650-9655 | 5.5 | 358 |
| 253 | In situ poly(urea-formaldehyde) microencapsulation of dicyclopentadiene. <i>Journal of Microencapsulation</i> , 2003 , 20, 719-30 | 3.4 | 339 |
| 252 | Microcapsules filled with reactive solutions for self-healing materials. <i>Polymer</i> , 2009 , 50, 990-997 | 3.9 | 334 |
| 251 | Nanocapsules for self-healing materials. <i>Composites Science and Technology</i> , 2008 , 68, 978-986 | 8.6 | 332 |

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| 250 | Wax-Protected Catalyst Microspheres for Efficient Self-Healing Materials. <i>Advanced Materials</i> , 2005 , 17, 205-208 | 24 | 332 |
| 249 | Self-Healing Materials with Interpenetrating Microvascular Networks. <i>Advanced Materials</i> , 2009 , 21, 4143-4147 | 14.3 | 305 |
| 248 | Mechanophore-linked addition polymers. <i>Journal of the American Chemical Society</i> , 2007 , 129, 13808-9 | 16.4 | 296 |
| 247 | Biomimetic Self-Healing. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 10428-47 | 16.4 | 271 |
| 246 | Self-healing thermoset using encapsulated epoxy-amine healing chemistry. <i>Polymer</i> , 2012 , 53, 581-587 | 3.9 | 267 |
| 245 | Solvent-Promoted Self-Healing Epoxy Materials. <i>Macromolecules</i> , 2007 , 40, 8830-8832 | 5.5 | 245 |
| 244 | Autonomic restoration of electrical conductivity. <i>Advanced Materials</i> , 2012 , 24, 398-401 | 24 | 243 |
| 243 | Delivery of Two-Part Self-Healing Chemistry via Microvascular Networks. <i>Advanced Functional Materials</i> , 2009 , 19, 1399-1405 | 15.6 | 233 |
| 242 | Malleable and Recyclable Poly(urea-urethane) Thermosets bearing Hindered Urea Bonds. <i>Advanced Materials</i> , 2016 , 28, 7646-51 | 24 | 230 |
| 241 | Full Recovery of Fracture Toughness Using a Nontoxic Solvent-Based Self-Healing System. <i>Advanced Functional Materials</i> , 2008 , 18, 1898-1904 | 15.6 | 218 |
| 240 | Polymers with autonomous life-cycle control. <i>Nature</i> , 2016 , 540, 363-370 | 50.4 | 215 |
| 239 | Force-induced redistribution of a chemical equilibrium. <i>Journal of the American Chemical Society</i> , 2010 , 132, 16107-11 | 16.4 | 213 |
| 238 | Restoration of large damage volumes in polymers. <i>Science</i> , 2014 , 344, 620-3 | 33.3 | 198 |
| 237 | Retardation and repair of fatigue cracks in a microcapsule toughened epoxy composite [Part I: Manual infiltration. <i>Composites Science and Technology</i> , 2005 , 65, 2466-2473 | 8.6 | 190 |
| 236 | Mechanical Properties of Microcapsules Used in a Self-Healing Polymer. <i>Experimental Mechanics</i> , 2006 , 46, 725-733 | 2.6 | 179 |
| 235 | Three-dimensional microvascular fiber-reinforced composites. <i>Advanced Materials</i> , 2011 , 23, 3654-8 | 24 | 178 |
| 234 | Catalyst Morphology and Dissolution Kinetics of Self-Healing Polymers. <i>Chemistry of Materials</i> , 2006 , 18, 1312-1317 | 9.6 | 176 |
| 233 | Robust, double-walled microcapsules for self-healing polymeric materials. <i>ACS Applied Materials & Interfaces</i> , 2010 , 2, 1195-9 | 9.5 | 173 |

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| 232 | Programmable microcapsules from self-immolative polymers. <i>Journal of the American Chemical Society</i> , 2010 , 132, 10266-8 | 16.4 | 172 |
| 231 | Embedded Shape-Memory Alloy Wires for Improved Performance of Self-Healing Polymers. <i>Advanced Functional Materials</i> , 2008 , 18, 2253-2260 | 15.6 | 172 |
| 230 | Continuous self-healing life cycle in vascularized structural composites. <i>Advanced Materials</i> , 2014 , 26, 4302-8 | 24 | 167 |
| 229 | Micro- and Nanoscale Deformation Measurement of Surface and Internal Planes via Digital Image Correlation. <i>Experimental Mechanics</i> , 2007 , 47, 51-62 | 2.6 | 166 |
| 228 | Proton-coupled mechanochemical transduction: a mechanogenerated acid. <i>Journal of the American Chemical Society</i> , 2012 , 134, 12446-9 | 16.4 | 163 |
| 227 | Rapid energy-efficient manufacturing of polymers and composites via frontal polymerization. <i>Nature</i> , 2018 , 557, 223-227 | 50.4 | 161 |
| 226 | Thermally stable autonomic healing in epoxy using a dual-microcapsule system. <i>Advanced Materials</i> , 2014 , 26, 282-7 | 24 | 156 |
| 225 | Performance of self-healing epoxy with microencapsulated healing agent and shape memory alloy wires. <i>Polymer</i> , 2009 , 50, 5533-5538 | 3.9 | 151 |
| 224 | Self-healing of internal damage in synthetic vascular materials. <i>Advanced Materials</i> , 2010 , 22, 5159-63 | 24 | 150 |
| 223 | Life extension of self-healing polymers with rapidly growing fatigue cracks. <i>Journal of the Royal Society Interface</i> , 2007 , 4, 395-403 | 4.1 | 147 |
| 222 | Shear activation of mechanophore-crosslinked polymers. <i>Journal of Materials Chemistry</i> , 2011 , 21, 8381 | | 141 |
| 221 | Microencapsulation of a Reactive Liquid-Phase Amine for Self-Healing Epoxy Composites. <i>Macromolecules</i> , 2010 , 43, 1855-1859 | 5.5 | 141 |
| 220 | Triggered transience of metastable poly(phthalaldehyde) for transient electronics. <i>Advanced Materials</i> , 2014 , 26, 7637-42 | 24 | 139 |
| 219 | Autonomic healing of low-velocity impact damage in fiber-reinforced composites. <i>Composites Part A: Applied Science and Manufacturing</i> , 2010 , 41, 360-368 | 8.4 | 137 |
| 218 | A self-healing conductive ink. <i>Advanced Materials</i> , 2012 , 24, 2578-81, 2509 | 24 | 135 |
| 217 | Masked cyanoacrylates unveiled by mechanical force. <i>Journal of the American Chemical Society</i> , 2010 , 132, 4558-9 | 16.4 | 134 |
| 216 | Autonomic Shutdown of Lithium-Ion Batteries Using Thermoresponsive Microspheres. <i>Advanced Energy Materials</i> , 2012 , 2, 583-590 | 21.8 | 130 |
| 215 | A new self-healing epoxy with tungsten (VI) chloride catalyst. <i>Journal of the Royal Society Interface</i> , 2008 , 5, 95-103 | 4.1 | 127 |

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| 214 | Effects of thickness on the piezoelectric and dielectric properties of lead zirconate titanate thin films. <i>Journal of Applied Physics</i> , 2000 , 87, 3941-3949 | 2.5 | 126 |
| 213 | Evaluation of Ruthenium Catalysts for Ring-Opening Metathesis Polymerization-Based Self-Healing Applications. <i>Chemistry of Materials</i> , 2008 , 20, 3288-3297 | 9.6 | 125 |
| 212 | Thermally triggered degradation of transient electronic devices. <i>Advanced Materials</i> , 2015 , 27, 3783-8 | 24 | 122 |
| 211 | Regioisomer-Specific Mechanochromism of Naphthopyran in Polymeric Materials. <i>Journal of the American Chemical Society</i> , 2016 , 138, 12328-31 | 16.4 | 117 |
| 210 | Environmental effects on mechanochemical activation of spiropyran in linear PMMA. <i>Journal of Materials Chemistry</i> , 2011 , 21, 8443 | | 115 |
| 209 | Restoration of Conductivity with TTF-TCNQ Charge-Transfer Salts. <i>Advanced Functional Materials</i> , 2010 , 20, 1721-1727 | 15.6 | 114 |
| 208 | Fatigue crack propagation in microcapsule-toughened epoxy. <i>Journal of Materials Science</i> , 2006 , 41, 6266-6273 | 4.9 | 112 |
| 207 | In Situ Measurements of Strains in Composite Battery Electrodes during Electrochemical Cycling. <i>Experimental Mechanics</i> , 2014 , 54, 971-985 | 2.6 | 111 |
| 206 | Exploiting Force Sensitive Spiroprans as Molecular Level Probes. <i>Macromolecules</i> , 2013 , 46, 3746-3752 | 5.5 | 109 |
| 205 | Characterization of Microvascular-Based Self-healing Coatings. <i>Experimental Mechanics</i> , 2009 , 49, 707-717 | 7.6 | 108 |
| 204 | Fracture and fatigue response of a self-healing epoxy adhesive. <i>Polymer</i> , 2011 , 52, 1628-1634 | 3.9 | 96 |
| 203 | Self-healing kinetics and the stereoisomers of dicyclopentadiene. <i>Journal of the Royal Society Interface</i> , 2007 , 4, 389-93 | 4.1 | 96 |
| 202 | Bioinspired Materials for Self-Cleaning and Self-Healing. <i>MRS Bulletin</i> , 2008 , 33, 732-741 | 3.2 | 93 |
| 201 | A parametric study of laser induced thin film spallation. <i>Experimental Mechanics</i> , 2002 , 42, 74-83 | 2.6 | 91 |
| 200 | Role of Mechanophore Orientation in Mechanochemical Reactions.. <i>ACS Macro Letters</i> , 2012 , 1, 163-166 | 6.6 | 90 |
| 199 | A Robust Damage-Reporting Strategy for Polymeric Materials Enabled by Aggregation-Induced Emission. <i>ACS Central Science</i> , 2016 , 2, 598-603 | 16.8 | 87 |
| 198 | Electrochemical stiffness in lithium-ion batteries. <i>Nature Materials</i> , 2016 , 15, 1182-1187 | 27 | 85 |
| 197 | Torsion fatigue response of self-healing poly(dimethylsiloxane) elastomers. <i>Polymer</i> , 2008 , 49, 3136-3145 | 3.9 | 84 |

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| 196 | Stress effects in sol-gel derived ferroelectric thin films. <i>Journal of Applied Physics</i> , 2004 , 95, 629-634 | 2.5 | 82 |
| 195 | Self-healing of a high temperature cured epoxy using poly(dimethylsiloxane) chemistry. <i>Polymer</i> , 2010 , 51, 4063-4068 | 3.9 | 81 |
| 194 | Mechanophore-Functionalized Nanoparticles: Interfacial Force-Focusing Effect in Mechanophore-Linked Nanocomposites (Adv. Sci. 7/2020). <i>Advanced Science</i> , 2020 , 7, 2070037 | 13.6 | 78 |
| 193 | Characterizing the mechanochemically active domains in gem-dihalocyclopropanated polybutadiene under compression and tension. <i>Journal of Materials Chemistry</i> , 2011 , 21, 8454 | | 78 |
| 192 | Autonomous Indication of Mechanical Damage in Polymeric Coatings. <i>Advanced Materials</i> , 2016 , 28, 2189-2194 | 2.4 | 76 |
| 191 | Fracture behavior of a self-healing, toughened epoxy adhesive. <i>International Journal of Adhesion and Adhesives</i> , 2013 , 44, 157-165 | 3.4 | 76 |
| 190 | Accelerated Self-Healing Via Ternary Interpenetrating Microvascular Networks. <i>Advanced Functional Materials</i> , 2011 , 21, 4320-4326 | 15.6 | 76 |
| 189 | Mechanical Reactivity of Two Different Spiropyran Mechanophores in Polydimethylsiloxane. <i>Macromolecules</i> , 2018 , 51, 9177-9183 | 5.5 | 75 |
| 188 | The Effect of Polymer Chain Alignment and Relaxation on Force-Induced Chemical Reactions in an Elastomer. <i>Advanced Functional Materials</i> , 2014 , 24, 1529-1537 | 15.6 | 72 |
| 187 | Cure-dependent Viscoelastic Poisson's Ratio of Epoxy. <i>Experimental Mechanics</i> , 2007 , 47, 237-249 | 2.6 | 69 |
| 186 | Core-shell polymeric microcapsules with superior thermal and solvent stability. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 10952-6 | 9.5 | 68 |
| 185 | Processing Effects for Integrated PZT: Residual Stress, Thickness, and Dielectric Properties. <i>Journal of the American Ceramic Society</i> , 2005 , 88, 2839-2847 | 3.8 | 68 |
| 184 | Microvascular based self-healing polymeric foam. <i>Polymer</i> , 2012 , 53, 4231-4240 | 3.9 | 66 |
| 183 | High-affinity DNA base analogs as supramolecular, nanoscale promoters of macroscopic adhesion. <i>Journal of the American Chemical Society</i> , 2013 , 135, 7288-95 | 16.4 | 66 |
| 182 | Fracture-induced activation in mechanophore-linked, rubber toughened PMMA. <i>Polymer</i> , 2014 , 55, 4164-4171 | 3.9 | 65 |
| 181 | Local displacements and load transfer in shape memory alloy composites. <i>Experimental Mechanics</i> , 1997 , 37, 78-86 | 2.6 | 65 |
| 180 | Silica-protected micron and sub-micron capsules and particles for self-healing at the microscale. <i>Macromolecular Rapid Communications</i> , 2011 , 32, 82-7 | 4.8 | 64 |
| 179 | Introduction: self-healing polymers and composites. <i>Journal of the Royal Society Interface</i> , 2007 , 4, 347-84.1 | 4.1 | 63 |

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| 178 | Pressurized vascular systems for self-healing materials. <i>Journal of the Royal Society Interface</i> , 2012 , 9, 1020-8 | 4.1 | 62 |
| 177 | Shockwave loading of mechanochemically active polymer coatings. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 5350-5 | 9.5 | 61 |
| 176 | Simulation of fiber debonding with friction in a model composite pushout test. <i>International Journal of Solids and Structures</i> , 2001 , 38, 8547-8562 | 3.1 | 61 |
| 175 | Autonomic healing of carbon fiber/epoxy interfaces. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 6033-9 | 9.5 | 58 |
| 174 | Polymer Microvascular Network Composites. <i>Journal of Composite Materials</i> , 2010 , 44, 2587-2603 | 2.7 | 58 |
| 173 | Autonomic Recovery of Fiber/Matrix Interfacial Bond Strength in a Model Composite. <i>Advanced Functional Materials</i> , 2010 , 20, 3547-3554 | 15.6 | 58 |
| 172 | Self-healing flexible laminates for resealing of puncture damage. <i>Smart Materials and Structures</i> , 2009 , 18, 085001 | 3.4 | 57 |
| 171 | Light-triggered thermal conductivity switching in azobenzene polymers. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 5973-5978 | 11.5 | 56 |
| 170 | Evaluation of peroxide initiators for radical polymerization-based self-healing applications. <i>Journal of Polymer Science Part A</i> , 2010 , 48, 2698-2708 | 2.5 | 55 |
| 169 | Fluorescent image correlation for nanoscale deformation measurements. <i>Small</i> , 2006 , 2, 631-5 | 11 | 55 |
| 168 | Time-Dependent Mechanochemical Response of SP-Cross-Linked PMMA. <i>Macromolecules</i> , 2013 , 46, 8917-8921 | 5.9 | 53 |
| 167 | A Self-sealing Fiber-reinforced Composite. <i>Journal of Composite Materials</i> , 2010 , 44, 2573-2585 | 2.7 | 53 |
| 166 | Tensile properties and damage evolution in vascular 3D woven glass/epoxy composites. <i>Composites Part A: Applied Science and Manufacturing</i> , 2014 , 59, 9-17 | 8.4 | 52 |
| 165 | Mechanisms and characterization of impact damage in 2D and 3D woven fiber-reinforced composites. <i>Composites Part A: Applied Science and Manufacturing</i> , 2017 , 101, 432-443 | 8.4 | 52 |
| 164 | Chemical treatment of poly(lactic acid) fibers to enhance the rate of thermal depolymerization. <i>ACS Applied Materials & Interfaces</i> , 2012 , 4, 503-9 | 9.5 | 51 |
| 163 | Multidimensional Vascularized Polymers using Degradable Sacrificial Templates. <i>Advanced Functional Materials</i> , 2015 , 25, 1043-1052 | 15.6 | 48 |
| 162 | Microencapsulation of gallium-indium (Ga-In) liquid metal for self-healing applications. <i>Journal of Microencapsulation</i> , 2014 , 31, 350-4 | 3.4 | 48 |
| 161 | Visual indication of mechanical damage using core-shell microcapsules. <i>ACS Applied Materials & Interfaces</i> , 2011 , 3, 4547-51 | 9.5 | 48 |

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|-----|---|-----|----|
| 160 | Alkyl Phosphite Inhibitors for Frontal Ring-Opening Metathesis Polymerization Greatly Increase Pot Life. <i>ACS Macro Letters</i> , 2017 , 6, 609-612 | 6.6 | 47 |
| 159 | Microfluidically Switched Frequency-Reconfigurable Slot Antennas. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2013 , 12, 828-831 | 3.8 | 47 |
| 158 | Full recovery of fiber/matrix interfacial bond strength using a microencapsulated solvent-based healing system. <i>Composites Science and Technology</i> , 2013 , 79, 1-7 | 8.6 | 47 |
| 157 | Peripherally decorated binary microcapsules containing two liquids. <i>Journal of Materials Chemistry</i> , 2008 , 18, 5390 | | 45 |
| 156 | Characterization of core-shell microstructure and self-healing performance of electrospun fiber coatings. <i>Polymer</i> , 2016 , 107, 263-272 | 3.9 | 44 |
| 155 | Autonomic restoration of electrical conductivity using polymer-stabilized carbon nanotube and graphene microcapsules. <i>Applied Physics Letters</i> , 2012 , 101, 043106 | 3.4 | 44 |
| 154 | Tensile and mixed-mode strength of a thin film-substrate interface under laser induced pulse loading. <i>Journal of the Mechanics and Physics of Solids</i> , 2004 , 52, 999-1022 | 5 | 44 |
| 153 | Adhesion strength measurement of polymer dielectric interfaces using laser spallation technique. <i>Thin Solid Films</i> , 2008 , 516, 7627-7635 | 2.2 | 43 |
| 152 | Modeling mechanophore activation within a viscous rubbery network. <i>Journal of the Mechanics and Physics of Solids</i> , 2014 , 63, 141-153 | 5 | 42 |
| 151 | Self-healing thermoplastic-toughened epoxy. <i>Polymer</i> , 2015 , 74, 254-261 | 3.9 | 41 |
| 150 | Repeatable self-healing of an epoxy matrix using imidazole initiated polymerization. <i>Polymer</i> , 2015 , 67, 174-184 | 3.9 | 41 |
| 149 | Computational analysis of actively-cooled 3D woven microvascular composites using a stabilized interface-enriched generalized finite element method. <i>International Journal of Heat and Mass Transfer</i> , 2013 , 65, 153-164 | 4.9 | 41 |
| 148 | Laser-induced decompression shock development in fused silica. <i>Journal of Applied Physics</i> , 2003 , 93, 9529-9536 | 2.5 | 38 |
| 147 | Application of debond length measurements to examine the mechanics of fiber pushout. <i>Journal of the Mechanics and Physics of Solids</i> , 1998 , 46, 1675-1697 | 5 | 37 |
| 146 | Computational modeling and design of actively-cooled microvascular materials. <i>International Journal of Heat and Mass Transfer</i> , 2012 , 55, 5309-5321 | 4.9 | 36 |
| 145 | Self-sealing of mechanical damage in a fully cured structural composite. <i>Composites Science and Technology</i> , 2013 , 79, 15-20 | 8.6 | 36 |
| 144 | Structural health management technologies for inflatable/deployable structures: Integrating sensing and self-healing. <i>Acta Astronautica</i> , 2011 , 68, 883-903 | 2.9 | 36 |
| 143 | Effect of surface treatment on the hydrolytic stability of E-glass fiber bundle tensile strength. <i>Composites Science and Technology</i> , 2005 , 65, 129-136 | 8.6 | 36 |

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|-----|---|------|----|
| 142 | Self-healing Polymers and Composites. <i>American Scientist</i> , 2011 , 99, 392 | 2.7 | 36 |
| 141 | Comparison of Compression-After-Impact and Flexure-After-Impact protocols for 2D and 3D woven fiber-reinforced composites. <i>Composites Part A: Applied Science and Manufacturing</i> , 2017 , 101, 471-479 | 8.4 | 35 |
| 140 | Thermally Induced Interfacial Microcracking in Polymer Matrix Composites. <i>Journal of Composite Materials</i> , 1993 , 27, 1030-1051 | 2.7 | 35 |
| 139 | Restoration of Impact Damage in Polymers via a Hybrid Microcapsule-Microvascular Self-Healing System. <i>Advanced Functional Materials</i> , 2018 , 28, 1704197 | 15.6 | 34 |
| 138 | Cyclic Poly(phthalaldehyde): Thermoforming a Bulk Transient Material. <i>ACS Macro Letters</i> , 2018 , 7, 47-52.6 | | 33 |
| 137 | Adhesion promotion via noncovalent interactions in self-healing polymers. <i>ACS Applied Materials & Interfaces</i> , 2011 , 3, 3072-7 | 9.5 | 33 |
| 136 | Three-dimensional viscoelastic simulation of woven composite substrates for multilayer circuit boards. <i>Composites Science and Technology</i> , 2003 , 63, 1971-1983 | 8.6 | 32 |
| 135 | Silicon Composite Electrodes with Dynamic Ionic Bonding. <i>Advanced Energy Materials</i> , 2017 , 7, 1700045 | 21.8 | 31 |
| 134 | Spatially Selective and Density-Controlled Activation of Interfacial Mechanophores. <i>Journal of the American Chemical Society</i> , 2019 , 141, 4080-4085 | 16.4 | 31 |
| 133 | Reversible and Irreversible Deformation Mechanisms of Composite Graphite Electrodes in Lithium-Ion Batteries. <i>Journal of the Electrochemical Society</i> , 2016 , 163, A1965-A1974 | 3.9 | 31 |
| 132 | Microencapsulated Carbon Black Suspensions for Restoration of Electrical Conductivity. <i>Advanced Functional Materials</i> , 2014 , 24, 2947-2956 | 15.6 | 31 |
| 131 | The influence of interphase regions on local thermal displacements in composites. <i>Composites Science and Technology</i> , 1992 , 44, 319-332 | 8.6 | 31 |
| 130 | Fully Recyclable Metastable Polymers and Composites. <i>Chemistry of Materials</i> , 2019 , 31, 398-406 | 9.6 | 31 |
| 129 | Effect of Mechanical Stress on Spiropyran-Merocyanine Reaction Kinetics in a Thermoplastic Polymer. <i>ACS Macro Letters</i> , 2016 , 5, 1312-1316 | 6.6 | 30 |
| 128 | Interfacial adhesion of photodefinable polyimide films on passivated silicon. <i>Thin Solid Films</i> , 2014 , 552, 116-123 | 2.2 | 29 |
| 127 | Improving hydrostatic performance of 1-3 piezocomposites. <i>Journal of Applied Physics</i> , 1995 , 77, 4595-4603 | | 29 |
| 126 | Fast, reversible mechanochromism of regioisomeric oxazine mechanophores: Developing in situ responsive force probes for polymeric materials. <i>CheM</i> , 2021 , 7, 1080-1091 | 16.2 | 28 |
| 125 | Enhanced autonomic shutdown of Li-ion batteries by polydopamine coated polyethylene microspheres. <i>Journal of Power Sources</i> , 2014 , 269, 735-739 | 8.9 | 27 |

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|-----|--|------|----|
| 124 | Polymer mechanochemistry: Flex, release and repeat. <i>Nature Chemistry</i> , 2014 , 6, 381-3 | 17.6 | 27 |
| 123 | Sol-gel derived Pb(Zr,Ti)O ₃ thin films: Residual stress and electrical properties. <i>Journal of the European Ceramic Society</i> , 2005 , 25, 2247-2251 | 6 | 27 |
| 122 | Interfacial Mechanophore Activation Using Laser-Induced Stress Waves. <i>Journal of the American Chemical Society</i> , 2018 , 140, 5000-5003 | 16.4 | 26 |
| 121 | Structural reinforcement of microvascular networks using electrostatic layer-by-layer assembly with halloysite nanotubes. <i>Soft Matter</i> , 2014 , 10, 544-8 | 3.6 | 26 |
| 120 | Mixed-mode failure of thin films using laser-generated shear waves. <i>Experimental Mechanics</i> , 2003 , 43, 323-330 | 2.6 | 26 |
| 119 | Local Strain Concentrations in a Microvascular Network. <i>Experimental Mechanics</i> , 2010 , 50, 255-263 | 2.6 | 25 |
| 118 | Transformation of Embedded Shape Memory Alloy Ribbons. <i>Journal of Intelligent Material Systems and Structures</i> , 1998 , 9, 379-390 | 2.3 | 25 |
| 117 | Retention of mechanical performance of polymer matrix composites above the glass transition temperature by vascular cooling. <i>Composites Part A: Applied Science and Manufacturing</i> , 2015 , 78, 412-423 | 8.4 | 24 |
| 116 | Autonomic healing of PMMA via microencapsulated solvent. <i>Polymer</i> , 2015 , 69, 241-248 | 3.9 | 24 |
| 115 | Dynamic delamination of patterned thin films. <i>Applied Physics Letters</i> , 2008 , 93, 261902 | 3.4 | 24 |
| 114 | Robust sacrificial polymer templates for 3D interconnected microvasculature in fiber-reinforced composites. <i>Composites Part A: Applied Science and Manufacturing</i> , 2017 , 100, 361-370 | 8.4 | 23 |
| 113 | Mitigation of fatigue damage in self-healing vascular materials. <i>Polymer</i> , 2012 , 53, 5575-5581 | 3.9 | 23 |
| 112 | Creep and relaxation behavior of woven glass/epoxy substrates for multilayer circuit board applications. <i>Polymer Composites</i> , 1998 , 19, 567-578 | 3 | 23 |
| 111 | Autonomous Damage Detection in Multilayered Coatings via Integrated Aggregation-Induced Emission Luminogens. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 40361-40365 | 9.5 | 23 |
| 110 | A comparison of calculated and measured debond lengths from fiber push-out tests. <i>Composites Science and Technology</i> , 1998 , 58, 1727-1739 | 8.6 | 22 |
| 109 | Viscoelastic response of woven composite substrates. <i>Composites Science and Technology</i> , 2005 , 65, 621-634 | 8.4 | 22 |
| 108 | Low-Ceiling-Temperature Polymer Microcapsules with Hydrophobic Payloads via Rapid Emulsion-Solvent Evaporation. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 20115-20123 | 9.5 | 21 |
| 107 | Biomimetische Selbstheilung. <i>Angewandte Chemie</i> , 2015 , 127, 10572-10593 | 3.6 | 21 |

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| 106 | Hybrid spectral/finite element analysis of dynamic delamination of patterned thin films. <i>Engineering Fracture Mechanics</i> , 2008 , 75, 4217-4233 | 4.2 | 21 |
| 105 | Rapid Synthesis of Elastomers and Thermosets with Tunable Thermomechanical Properties. <i>ACS Macro Letters</i> , 2020 , 9, 819-824 | 6.6 | 21 |
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