

Scott R White

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.

162
papers

16,412
citations

60
h-index

127
g-index

175
ext. papers

18,077
ext. citations

11.1
avg, IF

6.65
L-index

#	Paper	IF	Citations
162	Force-induced activation of covalent bonds in mechanoresponsive polymeric materials. <i>Nature</i> , 2009 , 459, 68-72	50.4	1211
161	Self-healing materials with microvascular networks. <i>Nature Materials</i> , 2007 , 6, 581-5	27	1198
160	Mechanically-induced chemical changes in polymeric materials. <i>Chemical Reviews</i> , 2009 , 109, 5755-98	68.1	969
159	Biasing reaction pathways with mechanical force. <i>Nature</i> , 2007 , 446, 423-7	50.4	611
158	Self-Healing Polymer Coatings. <i>Advanced Materials</i> , 2009 , 21, 645-649	24	575
157	Chaotic mixing in three-dimensional microvascular networks fabricated by direct-write assembly. <i>Nature Materials</i> , 2003 , 2, 265-71	27	554
156	Triggered Release from Polymer Capsules. <i>Macromolecules</i> , 2011 , 44, 5539-5553	5.5	487
155	Effect of microcapsule size on the performance of self-healing polymers. <i>Polymer</i> , 2007 , 48, 3520-3529	3.9	374
154	Microencapsulation of Isocyanates for Self-Healing Polymers. <i>Macromolecules</i> , 2008 , 41, 9650-9655	5.5	358
153	Self-Healing Materials with Interpenetrating Microvascular Networks. <i>Advanced Materials</i> , 2009 , 21, 4143-4147	14.7	305
152	Mechanophore-linked addition polymers. <i>Journal of the American Chemical Society</i> , 2007 , 129, 13808-9	16.4	296
151	Biomimetic Self-Healing. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 10428-47	16.4	271
150	Self-healing thermoset using encapsulated epoxy-amine healing chemistry. <i>Polymer</i> , 2012 , 53, 581-587	3.9	267
149	Solvent-Promoted Self-Healing Epoxy Materials. <i>Macromolecules</i> , 2007 , 40, 8830-8832	5.5	245
148	Autonomic restoration of electrical conductivity. <i>Advanced Materials</i> , 2012 , 24, 398-401	24	243
147	Delivery of Two-Part Self-Healing Chemistry via Microvascular Networks. <i>Advanced Functional Materials</i> , 2009 , 19, 1399-1405	15.6	233
146	Malleable and Recyclable Poly(urea-urethane) Thermosets bearing Hindered Urea Bonds. <i>Advanced Materials</i> , 2016 , 28, 7646-51	24	230

145	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
144	Polymers with autonomous life-cycle control. <i>Nature</i> , 2016 , 540, 363-370	50.4	215
143	Force-induced redistribution of a chemical equilibrium. <i>Journal of the American Chemical Society</i> , 2010 , 132, 16107-11	16.4	213
142	Restoration of large damage volumes in polymers. <i>Science</i> , 2014 , 344, 620-3	33.3	198
141	Three-dimensional microvascular fiber-reinforced composites. <i>Advanced Materials</i> , 2011 , 23, 3654-8	24	178
140	Catalyst Morphology and Dissolution Kinetics of Self-Healing Polymers. <i>Chemistry of Materials</i> , 2006 , 18, 1312-1317	9.6	176
139	Robust, double-walled microcapsules for self-healing polymeric materials. <i>ACS Applied Materials & Interfaces</i> , 2010 , 2, 1195-9	9.5	173
138	Programmable microcapsules from self-immolative polymers. <i>Journal of the American Chemical Society</i> , 2010 , 132, 10266-8	16.4	172
137	Embedded Shape-Memory Alloy Wires for Improved Performance of Self-Healing Polymers. <i>Advanced Functional Materials</i> , 2008 , 18, 2253-2260	15.6	172
136	Continuous self-healing life cycle in vascularized structural composites. <i>Advanced Materials</i> , 2014 , 26, 4302-8	24	167
135	Proton-coupled mechanochemical transduction: a mechanogenerated acid. <i>Journal of the American Chemical Society</i> , 2012 , 134, 12446-9	16.4	163
134	Rapid energy-efficient manufacturing of polymers and composites via frontal polymerization. <i>Nature</i> , 2018 , 557, 223-227	50.4	161
133	Mechanically triggered heterolytic unzipping of a low-ceiling-temperature polymer. <i>Nature Chemistry</i> , 2014 , 6, 623-8	17.6	157
132	Thermally stable autonomic healing in epoxy using a dual-microcapsule system. <i>Advanced Materials</i> , 2014 , 26, 282-7	24	156
131	Self-healing of internal damage in synthetic vascular materials. <i>Advanced Materials</i> , 2010 , 22, 5159-63	24	150
130	Shear activation of mechanophore-crosslinked polymers. <i>Journal of Materials Chemistry</i> , 2011 , 21, 8381		141
129	Microencapsulation of a Reactive Liquid-Phase Amine for Self-Healing Epoxy Composites. <i>Macromolecules</i> , 2010 , 43, 1855-1859	5.5	141
128	Triggered transience of metastable poly(phthalaldehyde) for transient electronics. <i>Advanced Materials</i> , 2014 , 26, 7637-42	24	139

127	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
126	A self-healing conductive ink. <i>Advanced Materials</i> , 2012 , 24, 2578-81, 2509	24	135
125	Masked cyanoacrylates unveiled by mechanical force. <i>Journal of the American Chemical Society</i> , 2010 , 132, 4558-9	16.4	134
124	Autonomic Shutdown of Lithium-Ion Batteries Using Thermoresponsive Microspheres. <i>Advanced Energy Materials</i> , 2012 , 2, 583-590	21.8	130
123	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
122	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
121	Thermally triggered degradation of transient electronic devices. <i>Advanced Materials</i> , 2015 , 27, 3783-8	24	122
120	Regioisomer-Specific Mechanochromism of Naphthopyran in Polymeric Materials. <i>Journal of the American Chemical Society</i> , 2016 , 138, 12328-31	16.4	117
119	Environmental effects on mechanochemical activation of spiropyran in linear PMMA. <i>Journal of Materials Chemistry</i> , 2011 , 21, 8443		115
118	Restoration of Conductivity with TTF-TCNQ Charge-Transfer Salts. <i>Advanced Functional Materials</i> , 2010 , 20, 1721-1727	15.6	114
117	PROCESS-INDUCED RESIDUAL STRESS ANALYSIS OF AS4/3501-6 COMPOSITE MATERIAL. <i>Mechanics of Advanced Materials and Structures</i> , 1998 , 5, 153-186	1.8	112
116	Fracture and fatigue response of a self-healing epoxy adhesive. <i>Polymer</i> , 2011 , 52, 1628-1634	3.9	96
115	Self-healing kinetics and the stereoisomers of dicyclopentadiene. <i>Journal of the Royal Society Interface</i> , 2007 , 4, 389-93	4.1	96
114	Direct-write assembly of biomimetic microvascular networks for efficient fluid transport. <i>Soft Matter</i> , 2010 , 6, 739-742	3.6	95
113	Role of Mechanophore Orientation in Mechanochemical Reactions.. <i>ACS Macro Letters</i> , 2012 , 1, 163-166	6.6	90
112	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
111	Autonomous Indication of Mechanical Damage in Polymeric Coatings. <i>Advanced Materials</i> , 2016 , 28, 2189-94	2.4	76
110	Fracture behavior of a self-healing, toughened epoxy adhesive. <i>International Journal of Adhesion and Adhesives</i> , 2013 , 44, 157-165	3.4	76

109	Accelerated Self-Healing Via Ternary Interpenetrating Microvascular Networks. <i>Advanced Functional Materials</i> , 2011 , 21, 4320-4326	15.6	76
108	Mechanical Reactivity of Two Different Spiropyran Mechanophores in Polydimethylsiloxane. <i>Macromolecules</i> , 2018 , 51, 9177-9183	5.5	75
107	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
106	Core-shell polymeric microcapsules with superior thermal and solvent stability. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 10952-6	9.5	68
105	Fracture-induced activation in mechanophore-linked, rubber toughened PMMA. <i>Polymer</i> , 2014 , 55, 4164-4171	11.71	65
104	Introduction: self-healing polymers and composites. <i>Journal of the Royal Society Interface</i> , 2007 , 4, 347-84.1	4.1	63
103	The Continuous Curing Process for Thermoset Polymer Composites. Part 1: Modeling and Demonstration. <i>Journal of Composite Materials</i> , 1995 , 29, 1222-1253	2.7	60
102	Autonomic healing of carbon fiber/epoxy interfaces. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 6033-9	9.5	58
101	Autonomic Recovery of Fiber/Matrix Interfacial Bond Strength in a Model Composite. <i>Advanced Functional Materials</i> , 2010 , 20, 3547-3554	15.6	58
100	Autonomic Healing of Polymers. <i>MRS Bulletin</i> , 2008 , 33, 766-769	3.2	58
99	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
98	VISCOELASTIC ANALYSIS OF PROCESSING-INDUCED RESIDUAL STRESSES IN THICK COMPOSITE LAMINATES. <i>Mechanics of Advanced Materials and Structures</i> , 1997 , 4, 361-387	1.8	54
97	Time-Dependent Mechanochemical Response of SP-Cross-Linked PMMA. <i>Macromolecules</i> , 2013 , 46, 8917-8921	5.9	53
96	A Self-sealing Fiber-reinforced Composite. <i>Journal of Composite Materials</i> , 2010 , 44, 2573-2585	2.7	53
95	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
94	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
93	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
92	Design of microvascular flow networks using multi-objective genetic algorithms. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2008 , 197, 4399-4410	5.7	50

91	Multidimensional Vascularized Polymers using Degradable Sacrificial Templates. <i>Advanced Functional Materials</i> , 2015 , 25, 1043-1052	15.6	48
90	Microencapsulation of gallium-indium (Ga-In) liquid metal for self-healing applications. <i>Journal of Microencapsulation</i> , 2014 , 31, 350-4	3.4	48
89	Visual indication of mechanical damage using core-shell microcapsules. <i>ACS Applied Materials & Interfaces</i> , 2011 , 3, 4547-51	9.5	48
88	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
87	Microfluidically Switched Frequency-Reconfigurable Slot Antennas. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2013 , 12, 828-831	3.8	47
86	Room-Temperature Polydimethylsiloxane-Based Self-Healing Polymers. <i>Chemistry of Materials</i> , 2012 , 24, 4209-4214	9.6	46
85	Peripherally decorated binary microcapsules containing two liquids. <i>Journal of Materials Chemistry</i> , 2008 , 18, 5390		45
84	Characterization of core-shell microstructure and self-healing performance of electrospun fiber coatings. <i>Polymer</i> , 2016 , 107, 263-272	3.9	44
83	Autonomic restoration of electrical conductivity using polymer-stabilized carbon nanotube and graphene microcapsules. <i>Applied Physics Letters</i> , 2012 , 101, 043106	3.4	44
82	Modeling mechanophore activation within a viscous rubbery network. <i>Journal of the Mechanics and Physics of Solids</i> , 2014 , 63, 141-153	5	42
81	Repeatable self-healing of an epoxy matrix using imidazole initiated polymerization. <i>Polymer</i> , 2015 , 67, 174-184	3.9	41
80	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
79	Modeling mechanophore activation within a crosslinked glassy matrix. <i>Journal of Applied Physics</i> , 2013 , 114, 023504	2.5	41
78	Carbon fiber composites with 2D microvascular networks for battery cooling. <i>International Journal of Heat and Mass Transfer</i> , 2017 , 115, 513-522	4.9	39
77	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
76	Self-sealing of mechanical damage in a fully cured structural composite. <i>Composites Science and Technology</i> , 2013 , 79, 15-20	8.6	36
75	Structural health management technologies for inflatable/deployable structures: Integrating sensing and self-healing. <i>Acta Astronautica</i> , 2011 , 68, 883-903	2.9	36
74	Self-healing Polymers and Composites. <i>American Scientist</i> , 2011 , 99, 392	2.7	36

73	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
72	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
71	Cyclic Poly(phthalaldehyde): Thermoforming a Bulk Transient Material. <i>ACS Macro Letters</i> , 2018 , 7, 47-526.6		33
70	Adhesion promotion via noncovalent interactions in self-healing polymers. <i>ACS Applied Materials & Interfaces</i> , 2011 , 3, 3072-7	9.5	33
69	Silicon Composite Electrodes with Dynamic Ionic Bonding. <i>Advanced Energy Materials</i> , 2017 , 7, 1700045	21.8	31
68	Microencapsulated Carbon Black Suspensions for Restoration of Electrical Conductivity. <i>Advanced Functional Materials</i> , 2014 , 24, 2947-2956	15.6	31
67	Fully Recyclable Metastable Polymers and Composites. <i>Chemistry of Materials</i> , 2019 , 31, 398-406	9.6	31
66	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
65	Rheological Behavior of Fugitive Organic Inks for Direct-Write Assembly. <i>Applied Rheology</i> , 2007 , 17, 10112-1-10112-8	1.2	29
64	Characterization of Active Cooling and Flow Distribution in Microvascular Polymers. <i>Journal of Intelligent Material Systems and Structures</i> , 2010 , 21, 1147-1156	2.3	28
63	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
62	Gradient-based design of actively-cooled microvascular composite panels. <i>International Journal of Heat and Mass Transfer</i> , 2016 , 103, 594-606	4.9	27
61	Interfacial Mechanophore Activation Using Laser-Induced Stress Waves. <i>Journal of the American Chemical Society</i> , 2018 , 140, 5000-5003	16.4	26
60	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
59	Multi-physics optimization of three-dimensional microvascular polymeric components. <i>Journal of Computational Physics</i> , 2013 , 233, 132-147	4.1	25
58	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
57	Autonomic healing of PMMA via microencapsulated solvent. <i>Polymer</i> , 2015 , 69, 241-248	3.9	24
56	A self-healing biomaterial based on free-radical polymerization. <i>Journal of Biomedical Materials Research - Part A</i> , 2014 , 102, 3024-32	5.4	23

55	Rapid stiffening of a microfluidic endoskeleton via frontal polymerization. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 18469-74	9.5	22
54	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
53	Multi-objective design of microvascular panels for battery cooling applications. <i>Applied Thermal Engineering</i> , 2018 , 135, 145-157	5.8	21
52	Biomimetische Selbstheilung. <i>Angewandte Chemie</i> , 2015 , 127, 10572-10593	3.6	21
51	CURE-DEPENDENT VISCOELASTIC RESIDUAL STRESS ANALYSIS OF FILAMENT-WOUND COMPOSITE CYLINDERS. <i>Mechanics of Advanced Materials and Structures</i> , 1998 , 5, 327-354	1.8	21
50	Self-Protecting Epoxy Coatings with Anticorrosion Microcapsules. <i>ACS Omega</i> , 2018 , 3, 14157-14164	3.9	20
49	Self-healing of fatigue damage in cross-ply glass/epoxy laminates. <i>Composites Science and Technology</i> , 2019 , 175, 122-127	8.6	18
48	Multi-physics design of microvascular materials for active cooling applications. <i>Journal of Computational Physics</i> , 2011 , 230, 5178-5198	4.1	18
47	Self Healing Polymers and Composites. <i>Springer Series in Materials Science</i> , 2007 , 19-44	0.9	18
46	Active Cooling of a Microvascular Shape Memory Alloy-Polymer Matrix Composite Hybrid Material. <i>Advanced Engineering Materials</i> , 2016 , 18, 1145-1153	3.5	17
45	Autonomic healing of acrylic bone cement. <i>Advanced Healthcare Materials</i> , 2015 , 4, 202-7	10.1	16
44	Sunlight-Activated Self-Healing Polymer Coatings. <i>Advanced Engineering Materials</i> , 2020 , 22, 1901223	3.5	16
43	Strain and stress mapping by mechanochemical activation of spiropyran in poly(methyl methacrylate). <i>Strain</i> , 2019 , 55, e12310	1.7	16
42	Manufacturing of unidirectional glass/epoxy prepreg with microencapsulated liquid healing agents. <i>Composites Science and Technology</i> , 2017 , 153, 190-197	8.6	15
41	Core-Shell Microcapsules Containing Flame Retardant Tris(2-chloroethyl phosphate) for Lithium-Ion Battery Applications. <i>ACS Omega</i> , 2018 , 3, 1609-1613	3.9	15
40	Repeated healing of delamination damage in vascular composites by pressurized delivery of reactive agents. <i>Composites Science and Technology</i> , 2017 , 151, 1-9	8.6	15
39	Strategies for Volumetric Recovery of Large Scale Damage in Polymers. <i>Advanced Functional Materials</i> , 2016 , 26, 4561-4569	15.6	15
38	Survival of actively cooled microvascular polymer matrix composites under sustained thermomechanical loading. <i>Composites Part A: Applied Science and Manufacturing</i> , 2016 , 82, 170-179	8.4	14

37	Manufacture of carbon-fiber prepreg with thermoplastic/epoxy resin blends and microencapsulated solvent healing agents. <i>Composites Part A: Applied Science and Manufacturing</i> , 2019 , 121, 365-375	8.4	13
36	Effect of microchannels on the crashworthiness of fiber-reinforced composites. <i>Composite Structures</i> , 2018 , 184, 428-436	5.3	13
35	Continuous Curing and Induced Thermal Stresses of a Thick Filament Wound Composite Cylinder. <i>Journal of Reinforced Plastics and Composites</i> , 2001 , 20, 166-180	2.9	12
34	Design of redundant microvascular cooling networks for blockage tolerance. <i>Applied Thermal Engineering</i> , 2018 , 131, 965-976	5.8	12
33	Self-healing of impact damage in fiber-reinforced composites. <i>Composites Part B: Engineering</i> , 2019 , 173, 106808	10	11
32	Computational design and optimization of a biomimetic self-healing/cooling composite material 2007 , 6526, 323		11
31	Accelerated Thermal Depolymerization of Cyclic Polyphthalaldehyde with a Polymeric Thermoacid Generator. <i>Macromolecular Rapid Communications</i> , 2018 , 39, e1800046	4.8	10
30	The Continuous Curing Process for Thermoset Polymer Composites. Part 2: Experimental Results for a Graphite/Epoxy Laminate. <i>Journal of Composite Materials</i> , 1996 , 30, 627-647	2.7	10
29	Encapsulation of grape seed extract in polylactide microcapsules for sustained bioactivity and time-dependent release in dental material applications. <i>Dental Materials</i> , 2017 , 33, 630-636	5.7	9
28	Direct Detection of Manganese Ions in Organic Electrolyte by UV-vis Spectroscopy. <i>Journal of the Electrochemical Society</i> , 2018 , 165, A345-A348	3.9	9
27	Self-Healing Epoxies and Their Composites 2013 , 361-380		9
26	Time Release of Encapsulated Additives for Enhanced Performance of Lithium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 40244-40251	9.5	8
25	Self-Healing Polymers 2010 ,		8
24	Controlling Expansion in Lithium Manganese Oxide Composite Electrodes via Surface Modification. <i>Journal of the Electrochemical Society</i> , 2019 , 166, A2357-A2362	3.9	7
23	Enhanced Mixing of Microvascular Self-Healing Reagents Using Segmented Gas-Liquid Flow. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 32659-32667	9.5	7
22	Active cooling of microvascular composites for battery packaging. <i>Smart Materials and Structures</i> , 2017 , 26, 105004	3.4	6
21	Use of composite materials, health monitoring and self-healing concepts to refurbish our civil and military infrastructure. 2007 ,		6
20	Rapid Degradation of Poly(lactic acid) with Organometallic Catalysts. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 46226-46232	9.5	6

19	Processing-dependent mechanical properties of solvent cast cyclic polyphthalaldehyde. <i>Polymer</i> , 2019 , 162, 29-34	3.9	6
18	A Microvascular System for the Autonomous Regeneration of Large Scale Damage in Polymeric Coatings . <i>Advanced Engineering Materials</i> , 2017 , 19, 1700319	3.5	5
17	Microvascular composite skin panels for hypersonic aircraft 2014 ,		5
16	Computational Design of Actively-Cooled Microvascular Composite Skin Panels for Hypersonic Aircraft 2013 ,		5
15	Damage Detection: Autonomous Indication of Mechanical Damage in Polymeric Coatings (Adv. Mater. 11/2016). <i>Advanced Materials</i> , 2016 , 28, 2275-2275	24	4
14	Regenerative Polymeric Coatings Enabled by Pressure Responsive Surface Valves . <i>Advanced Engineering Materials</i> , 2017 , 19, 1700308	3.5	2
13	Localization of Spiropyran Activation. <i>Langmuir</i> , 2020 , 36, 5847-5854	4	2
12	Biomimetics: Restoration of Impact Damage in Polymers via a Hybrid Microcapsule-Microvascular Self-Healing System (Adv. Funct. Mater. 2/2018). <i>Advanced Functional Materials</i> , 2018 , 28, 1870012	15.6	2
11	Self-Healing Circuits: Autonomic Restoration of Electrical Conductivity (Adv. Mater. 3/2012). <i>Advanced Materials</i> , 2012 , 24, 397-397	24	2
10	Computational Design of Actively-Cooled Microvascular Composites for High Temperature Applications 2012 ,		2
9	A polarization reconfigurable microstrip patch antenna using liquid metal microfluidics. <i>Smart Materials and Structures</i> , 2020 , 29, 045032	3.4	1
8	Hybrid Materials: Three-Dimensional Microvascular Fiber-Reinforced Composites (Adv. Mater. 32/2011). <i>Advanced Materials</i> , 2011 , 23, 3653-3653	24	1
7	Active repair of self-healing polymers with shape memory alloy wires 2007 ,		1
6	Biopolymers: Multidimensional Vascularized Polymers using Degradable Sacrificial Templates (Adv. Funct. Mater. 7/2015). <i>Advanced Functional Materials</i> , 2015 , 25, 1042-1042	15.6	
5	Transient Electronics: Thermally Triggered Degradation of Transient Electronic Devices (Adv. Mater. 25/2015). <i>Advanced Materials</i> , 2015 , 27, 3782-3782	24	
4	Carbon Black: Microencapsulated Carbon Black Suspensions for Restoration of Electrical Conductivity (Adv. Funct. Mater. 20/2014). <i>Advanced Functional Materials</i> , 2014 , 24, 2922-2922	15.6	
3	Characterization of Mechanochemically Active Polymers Using Combined Photoelasticity and Fluorescence Measurements. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , 2013 , 167-178	0.3	
2	Simultaneous Observation of Phase-Stepped Photoelastic Images Using Diffraction Gratings. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , 2013 , 327-332	0.3	

- 1 Multiscale Modeling of Mechanoresponsive Polymers. *Conference Proceedings of the Society for Experimental Mechanics*, **2013**, 37-39 0.3