

Scott R White

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/2793103/scott-r-white-publications-by-year.pdf>

Version: 2024-04-25

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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	Localization of Spiropyran Activation. <i>Langmuir</i> , 2020 , 36, 5847-5854	4	2
161	A polarization reconfigurable microstrip patch antenna using liquid metal microfluidics. <i>Smart Materials and Structures</i> , 2020 , 29, 045032	3.4	1
160	Sunlight-Activated Self-Healing Polymer Coatings. <i>Advanced Engineering Materials</i> , 2020 , 22, 1901223	3.5	16
159	Self-healing of impact damage in fiber-reinforced composites. <i>Composites Part B: Engineering</i> , 2019 , 173, 106808	10	11
158	Self-healing of fatigue damage in cross-ply glass/epoxy laminates. <i>Composites Science and Technology</i> , 2019 , 175, 122-127	8.6	18
157	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
156	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
155	Strain and stress mapping by mechanochemical activation of spiropyran in poly(methyl methacrylate). <i>Strain</i> , 2019 , 55, e12310	1.7	16
154	Rapid Degradation of Poly(lactic acid) with Organometallic Catalysts. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 46226-46232	9.5	6
153	Fully Recyclable Metastable Polymers and Composites. <i>Chemistry of Materials</i> , 2019 , 31, 398-406	9.6	31
152	Processing-dependent mechanical properties of solvent cast cyclic polyphthalaldehyde. <i>Polymer</i> , 2019 , 162, 29-34	3.9	6
151	Multi-objective design of microvascular panels for battery cooling applications. <i>Applied Thermal Engineering</i> , 2018 , 135, 145-157	5.8	21
150	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
149	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
148	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
147	Cyclic Poly(phthalaldehyde): Thermoforming a Bulk Transient Material. <i>ACS Macro Letters</i> , 2018 , 7, 47-526.6		33
146	Interfacial Mechanophore Activation Using Laser-Induced Stress Waves. <i>Journal of the American Chemical Society</i> , 2018 , 140, 5000-5003	16.4	26

145	Effect of microchannels on the crashworthiness of fiber-reinforced composites. <i>Composite Structures</i> , 2018 , 184, 428-436	5.3	13
144	Accelerated Thermal Depolymerization of Cyclic Polyphthalaldehyde with a Polymeric Thermoacid Generator. <i>Macromolecular Rapid Communications</i> , 2018 , 39, e1800046	4.8	10
143	Rapid energy-efficient manufacturing of polymers and composites via frontal polymerization. <i>Nature</i> , 2018 , 557, 223-227	50.4	161
142	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
141	Design of redundant microvascular cooling networks for blockage tolerance. <i>Applied Thermal Engineering</i> , 2018 , 131, 965-976	5.8	12
140	Mechanical Reactivity of Two Different Spiropyran Mechanophores in Polydimethylsiloxane. <i>Macromolecules</i> , 2018 , 51, 9177-9183	5.5	75
139	Self-Protecting Epoxy Coatings with Anticorrosion Microcapsules. <i>ACS Omega</i> , 2018 , 3, 14157-14164	3.9	20
138	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
137	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
136	Silicon Composite Electrodes with Dynamic Ionic Bonding. <i>Advanced Energy Materials</i> , 2017 , 7, 1700045	21.8	31
135	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
134	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
133	Regenerative Polymeric Coatings Enabled by Pressure Responsive Surface Valves. <i>Advanced Engineering Materials</i> , 2017 , 19, 1700308	3.5	2
132	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
131	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
130	Manufacturing of unidirectional glass/epoxy prepreg with microencapsulated liquid healing agents. <i>Composites Science and Technology</i> , 2017 , 153, 190-197	8.6	15
129	Active cooling of microvascular composites for battery packaging. <i>Smart Materials and Structures</i> , 2017 , 26, 105004	3.4	6
128	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

127	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
126	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
125	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
124	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
123	Malleable and Recyclable Poly(urea-urethane) Thermosets bearing Hindered Urea Bonds. <i>Advanced Materials</i> , 2016 , 28, 7646-51	24	230
122	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
121	Characterization of core-shell microstructure and self-healing performance of electrospun fiber coatings. <i>Polymer</i> , 2016 , 107, 263-272	3.9	44
120	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
119	Autonomous Indication of Mechanical Damage in Polymeric Coatings. <i>Advanced Materials</i> , 2016 , 28, 2189-94	2.7	76
118	Strategies for Volumetric Recovery of Large Scale Damage in Polymers. <i>Advanced Functional Materials</i> , 2016 , 26, 4561-4569	15.6	15
117	Polymers with autonomous life-cycle control. <i>Nature</i> , 2016 , 540, 363-370	50.4	215
116	Damage Detection: Autonomous Indication of Mechanical Damage in Polymeric Coatings (Adv. Mater. 11/2016). <i>Advanced Materials</i> , 2016 , 28, 2275-2275	24	4
115	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
114	Regioisomer-Specific Mechanochromism of Naphthopyran in Polymeric Materials. <i>Journal of the American Chemical Society</i> , 2016 , 138, 12328-31	16.4	117
113	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
112	Biopolymers: Multidimensional Vascularized Polymers using Degradable Sacrificial Templates (Adv. Funct. Mater. 7/2015). <i>Advanced Functional Materials</i> , 2015 , 25, 1042-1042	15.6	
111	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
110	Repeatable self-healing of an epoxy matrix using imidazole initiated polymerization. <i>Polymer</i> , 2015 , 67, 174-184	3.9	41

109	Autonomic healing of PMMA via microencapsulated solvent. <i>Polymer</i> , 2015 , 69, 241-248	3.9	24
108	Core-shell polymeric microcapsules with superior thermal and solvent stability. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 10952-6	9.5	68
107	Multidimensional Vascularized Polymers using Degradable Sacrificial Templates. <i>Advanced Functional Materials</i> , 2015 , 25, 1043-1052	15.6	48
106	Autonomic healing of acrylic bone cement. <i>Advanced Healthcare Materials</i> , 2015 , 4, 202-7	10.1	16
105	Transient Electronics: Thermally Triggered Degradation of Transient Electronic Devices (Adv. Mater. 25/2015). <i>Advanced Materials</i> , 2015 , 27, 3782-3782	24	
104	Biomimetische Selbstheilung. <i>Angewandte Chemie</i> , 2015 , 127, 10572-10593	3.6	21
103	Thermally triggered degradation of transient electronic devices. <i>Advanced Materials</i> , 2015 , 27, 3783-8	24	122
102	Biomimetic Self-Healing. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 10428-47	16.4	271
101	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
100	Continuous self-healing life cycle in vascularized structural composites. <i>Advanced Materials</i> , 2014 , 26, 4302-8	24	167
99	Modeling mechanophore activation within a viscous rubbery network. <i>Journal of the Mechanics and Physics of Solids</i> , 2014 , 63, 141-153	5	42
98	Restoration of large damage volumes in polymers. <i>Science</i> , 2014 , 344, 620-3	33.3	198
97	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
96	Rapid stiffening of a microfluidic endoskeleton via frontal polymerization. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 18469-74	9.5	22
95	Triggered transience of metastable poly(phthalaldehyde) for transient electronics. <i>Advanced Materials</i> , 2014 , 26, 7637-42	24	139
94	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
93	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
92	Fracture-induced activation in mechanophore-linked, rubber toughened PMMA. <i>Polymer</i> , 2014 , 55, 4164-4171	3.9	65

91	Microencapsulation of gallium-indium (Ga-In) liquid metal for self-healing applications. <i>Journal of Microencapsulation</i> , 2014 , 31, 350-4	3.4	48
90	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
89	Microencapsulated Carbon Black Suspensions for Restoration of Electrical Conductivity. <i>Advanced Functional Materials</i> , 2014 , 24, 2947-2956	15.6	31
88	Mechanically triggered heterolytic unzipping of a low-ceiling-temperature polymer. <i>Nature Chemistry</i> , 2014 , 6, 623-8	17.6	157
87	Autonomic healing of carbon fiber/epoxy interfaces. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 6033-9	9.5	58
86	Microvascular composite skin panels for hypersonic aircraft 2014 ,		5
85	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	
84	Thermally stable autonomic healing in epoxy using a dual-microcapsule system. <i>Advanced Materials</i> , 2014 , 26, 282-7	24	156
83	Microfluidically Switched Frequency-Reconfigurable Slot Antennas. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2013 , 12, 828-831	3.8	47
82	Self-Healing Epoxies and Their Composites 2013 , 361-380		9
81	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
80	Fracture behavior of a self-healing, toughened epoxy adhesive. <i>International Journal of Adhesion and Adhesives</i> , 2013 , 44, 157-165	3.4	76
79	Multi-physics optimization of three-dimensional microvascular polymeric components. <i>Journal of Computational Physics</i> , 2013 , 233, 132-147	4.1	25
78	Time-Dependent Mechanochemical Response of SP-Cross-Linked PMMA. <i>Macromolecules</i> , 2013 , 46, 8917-8921	5.9	53
77	Self-sealing of mechanical damage in a fully cured structural composite. <i>Composites Science and Technology</i> , 2013 , 79, 15-20	8.6	36
76	Modeling mechanophore activation within a crosslinked glassy matrix. <i>Journal of Applied Physics</i> , 2013 , 114, 023504	2.5	41
75	Computational Design of Actively-Cooled Microvascular Composite Skin Panels for Hypersonic Aircraft 2013 ,		5
74	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	

73	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	
72	Multiscale Modeling of Mechanoresponsive Polymers. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , 2013 , 37-39	0.3	
71	Self-healing thermoset using encapsulated epoxy-amine healing chemistry. <i>Polymer</i> , 2012 , 53, 581-587	3.9	267
70	Autonomic restoration of electrical conductivity. <i>Advanced Materials</i> , 2012 , 24, 398-401	24	243
69	Self-Healing Circuits: Autonomic Restoration of Electrical Conductivity (Adv. Mater. 3/2012). <i>Advanced Materials</i> , 2012 , 24, 397-397	24	2
68	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
67	Role of Mechanophore Orientation in Mechanochemical Reactions.. <i>ACS Macro Letters</i> , 2012 , 1, 163-166	6.6	90
66	Room-Temperature Polydimethylsiloxane-Based Self-Healing Polymers. <i>Chemistry of Materials</i> , 2012 , 24, 4209-4214	9.6	46
65	A self-healing conductive ink. <i>Advanced Materials</i> , 2012 , 24, 2578-81, 2509	24	135
64	Proton-coupled mechanochemical transduction: a mechanogenerated acid. <i>Journal of the American Chemical Society</i> , 2012 , 134, 12446-9	16.4	163
63	Autonomic Shutdown of Lithium-Ion Batteries Using Thermoresponsive Microspheres. <i>Advanced Energy Materials</i> , 2012 , 2, 583-590	21.8	130
62	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
61	Autonomic restoration of electrical conductivity using polymer-stabilized carbon nanotube and graphene microcapsules. <i>Applied Physics Letters</i> , 2012 , 101, 043106	3.4	44
60	Computational Design of Actively-Cooled Microvascular Composites for High Temperature Applications 2012 ,		2
59	Shear activation of mechanophore-crosslinked polymers. <i>Journal of Materials Chemistry</i> , 2011 , 21, 8381		141
58	Visual indication of mechanical damage using core-shell microcapsules. <i>ACS Applied Materials & Interfaces</i> , 2011 , 3, 4547-51	9.5	48
57	Triggered Release from Polymer Capsules. <i>Macromolecules</i> , 2011 , 44, 5539-5553	5.5	487
56	Accelerated Self-Healing Via Ternary Interpenetrating Microvascular Networks. <i>Advanced Functional Materials</i> , 2011 , 21, 4320-4326	15.6	76

55	Three-dimensional microvascular fiber-reinforced composites. <i>Advanced Materials</i> , 2011 , 23, 3654-8	24	178
54	Hybrid Materials: Three-Dimensional Microvascular Fiber-Reinforced Composites (Adv. Mater. 32/2011). <i>Advanced Materials</i> , 2011 , 23, 3653-3653	24	1
53	Environmental effects on mechanochemical activation of spiropyran in linear PMMA. <i>Journal of Materials Chemistry</i> , 2011 , 21, 8443		115
52	Adhesion promotion via noncovalent interactions in self-healing polymers. <i>ACS Applied Materials & Interfaces</i> , 2011 , 3, 3072-7	9.5	33
51	Structural health management technologies for inflatable/deployable structures: Integrating sensing and self-healing. <i>Acta Astronautica</i> , 2011 , 68, 883-903	2.9	36
50	Multi-physics design of microvascular materials for active cooling applications. <i>Journal of Computational Physics</i> , 2011 , 230, 5178-5198	4.1	18
49	Fracture and fatigue response of a self-healing epoxy adhesive. <i>Polymer</i> , 2011 , 52, 1628-1634	3.9	96
48	Self-healing Polymers and Composites. <i>American Scientist</i> , 2011 , 99, 392	2.7	36
47	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
46	A Self-sealing Fiber-reinforced Composite. <i>Journal of Composite Materials</i> , 2010 , 44, 2573-2585	2.7	53
45	Force-induced redistribution of a chemical equilibrium. <i>Journal of the American Chemical Society</i> , 2010 , 132, 16107-11	16.4	213
44	Direct-write assembly of biomimetic microvascular networks for efficient fluid transport. <i>Soft Matter</i> , 2010 , 6, 739-742	3.6	95
43	Self-Healing Polymers 2010 ,		8
42	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
41	Robust, double-walled microcapsules for self-healing polymeric materials. <i>ACS Applied Materials & Interfaces</i> , 2010 , 2, 1195-9	9.5	173
40	Programmable microcapsules from self-immolative polymers. <i>Journal of the American Chemical Society</i> , 2010 , 132, 10266-8	16.4	172
39	Microencapsulation of a Reactive Liquid-Phase Amine for Self-Healing Epoxy Composites. <i>Macromolecules</i> , 2010 , 43, 1855-1859	5.5	141
38	Masked cyanoacrylates unveiled by mechanical force. <i>Journal of the American Chemical Society</i> , 2010 , 132, 4558-9	16.4	134

37	Restoration of Conductivity with TTF-TCNQ Charge-Transfer Salts. <i>Advanced Functional Materials</i> , 2010 , 20, 1721-1727	15.6	114
36	Autonomic Recovery of Fiber/Matrix Interfacial Bond Strength in a Model Composite. <i>Advanced Functional Materials</i> , 2010 , 20, 3547-3554	15.6	58
35	Self-healing of internal damage in synthetic vascular materials. <i>Advanced Materials</i> , 2010 , 22, 5159-63	24	150
34	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
33	Delivery of Two-Part Self-Healing Chemistry via Microvascular Networks. <i>Advanced Functional Materials</i> , 2009 , 19, 1399-1405	15.6	233
32	Self-Healing Polymer Coatings. <i>Advanced Materials</i> , 2009 , 21, 645-649	24	575
31	Self-Healing Materials with Interpenetrating Microvascular Networks. <i>Advanced Materials</i> , 2009 , 21, 4143-4147	24	305
30	Force-induced activation of covalent bonds in mechanoresponsive polymeric materials. <i>Nature</i> , 2009 , 459, 68-72	50.4	1211
29	Mechanically-induced chemical changes in polymeric materials. <i>Chemical Reviews</i> , 2009 , 109, 5755-98	68.1	969
28	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
27	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
26	Microencapsulation of Isocyanates for Self-Healing Polymers. <i>Macromolecules</i> , 2008 , 41, 9650-9655	5.5	358
25	Peripherally decorated binary microcapsules containing two liquids. <i>Journal of Materials Chemistry</i> , 2008 , 18, 5390		45
24	Autonomic Healing of Polymers. <i>MRS Bulletin</i> , 2008 , 33, 766-769	3.2	58
23	Embedded Shape-Memory Alloy Wires for Improved Performance of Self-Healing Polymers. <i>Advanced Functional Materials</i> , 2008 , 18, 2253-2260	15.6	172
22	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
21	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
20	Introduction: self-healing polymers and composites. <i>Journal of the Royal Society Interface</i> , 2007 , 4, 347-354	4.1	63

19	Self-healing kinetics and the stereoisomers of dicyclopentadiene. <i>Journal of the Royal Society Interface</i> , 2007 , 4, 389-93	4.1	96
18	Rheological Behavior of Fugitive Organic Inks for Direct-Write Assembly. <i>Applied Rheology</i> , 2007 , 17, 10112-1-10112-8	1.2	29
17	Effect of microcapsule size on the performance of self-healing polymers. <i>Polymer</i> , 2007 , 48, 3520-3529	3.9	374
16	Self-healing materials with microvascular networks. <i>Nature Materials</i> , 2007 , 6, 581-5	27	1198
15	Biasing reaction pathways with mechanical force. <i>Nature</i> , 2007 , 446, 423-7	50.4	611
14	Self Healing Polymers and Composites. <i>Springer Series in Materials Science</i> , 2007 , 19-44	0.9	18
13	Computational design and optimization of a biomimetic self-healing/cooling composite material 2007 , 6526, 323		11
12	Active repair of self-healing polymers with shape memory alloy wires 2007 ,		1
11	Mechanophore-linked addition polymers. <i>Journal of the American Chemical Society</i> , 2007 , 129, 13808-9	16.4	296
10	Solvent-Promoted Self-Healing Epoxy Materials. <i>Macromolecules</i> , 2007 , 40, 8830-8832	5.5	245
9	Use of composite materials, health monitoring and self-healing concepts to refurbish our civil and military infrastructure. 2007 ,		6
8	Catalyst Morphology and Dissolution Kinetics of Self-Healing Polymers. <i>Chemistry of Materials</i> , 2006 , 18, 1312-1317	9.6	176
7	Chaotic mixing in three-dimensional microvascular networks fabricated by direct-write assembly. <i>Nature Materials</i> , 2003 , 2, 265-71	27	554
6	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
5	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
4	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
3	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
2	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

1	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
---	---	-----	----