

Damien Montarnal

List of Publications by Year in descending order

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34
papers

5,116
citations

304602

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345118

36
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37
all docs

37
docs citations

37
times ranked

3847
citing authors

#	ARTICLE	IF	CITATIONS
1	Silica-Like Malleable Materials from Permanent Organic Networks. <i>Science</i> , 2011, 334, 965-968.	6.0	2,198
2	Metal-Catalyzed Transesterification for Healing and Assembling of Thermosets. <i>Journal of the American Chemical Society</i> , 2012, 134, 7664-7667.	6.6	875
3	Reprocessing and Recycling of Highly Cross-Linked Ion-Conducting Networks through Transalkylation Exchanges of C-N Bonds. <i>Journal of the American Chemical Society</i> , 2015, 137, 6078-6083.	6.6	407
4	Versatile One-Pot Synthesis of Supramolecular Plastics and Self-Healing Rubbers. <i>Journal of the American Chemical Society</i> , 2009, 131, 7966-7967.	6.6	219
5	Tuning the Viscosity Profile of Ionic Vitrimers Incorporating 1,2,3-Triazolium Cross-Links. <i>Advanced Functional Materials</i> , 2017, 27, 1703258.	7.8	153
6	Synthesis of self-healing supramolecular rubbers from fatty acid derivatives, diethylene triamine, and urea. <i>Journal of Polymer Science Part A</i> , 2008, 46, 7925-7936.	2.5	139
7	Rheological Properties of Covalent Adaptable Networks with 1,2,3-Triazolium Cross-Links: The Missing Link between Vitrimers and Dissociative Networks. <i>Macromolecules</i> , 2020, 53, 1884-1900.	2.2	131
8	Poly(dimethylsiloxane- <i>b</i> -methyl methacrylate): A Promising Candidate for Sub-10 nm Patterning. <i>Macromolecules</i> , 2015, 48, 3422-3430.	2.2	121
9	Activation and deactivation of self-healing in supramolecular rubbers. <i>Soft Matter</i> , 2012, 8, 1681-1687.	1.2	93
10	Vitrimer Chemistry Meets Cellulose Nanofibrils: Bioinspired Nanopapers with High Water Resistance and Strong Adhesion. <i>Biomacromolecules</i> , 2019, 20, 1045-1055.	2.6	77
11	Epoxy-based networks combining chemical and supramolecular hydrogen bonding crosslinks. <i>Journal of Polymer Science Part A</i> , 2010, 48, 1133-1141.	2.5	73
12	Toward Strong Thermoplastic Elastomers with Asymmetric Miktoarm Block Copolymer Architectures. <i>Macromolecules</i> , 2014, 47, 2037-2043.	2.2	69
13	A One-Step Strategy for End-Functionalized Donor-Acceptor Conjugated Polymers. <i>Macromolecules</i> , 2013, 46, 6431-6438.	2.2	49
14	Accelerated Solvent- and Catalyst-Free Synthesis of 1,2,3-Triazolium-Based Poly(Ionic Liquid)s. <i>Macromolecular Rapid Communications</i> , 2014, 35, 794-800.	2.0	46
15	Self-Healing Supramolecular Networks. <i>Macromolecular Symposia</i> , 2010, 291-292, 84-88.	0.4	43
16	Highly Ordered Nanoporous Films from Supramolecular Diblock Copolymers with Hydrogen Bonding Junctions. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 11117-11121.	7.2	43
17	Formation of Cross-Linked Films from Immiscible Precursors through Sintering of Vitrimer Nanoparticles. <i>ACS Macro Letters</i> , 2018, 7, 376-380.	2.3	43
18	Enhanced Block Copolymer Phase Separation Using Click Chemistry and Ionic Junctions. <i>ACS Macro Letters</i> , 2015, 4, 1332-1336.	2.3	42

#	ARTICLE	IF	CITATIONS
19	Tuning the Viscosity Profiles of High-T _g Poly(1,2,3-triazolium) Covalent Adaptable Networks by the Chemical Structure of the N-Substituents. <i>Macromolecules</i> , 2021, 54, 3281-3292.	2.2	33
20	UV-Patterning of Ion Conducting Negative Tone Photoresists Using Azide-Functionalized Poly(Ionic) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	2.3	27
21	Hydrolyzable Biobased Polyhydroxyurethane Networks with Shape Memory Behavior at Body Temperature. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 9125-9135.	3.2	27
22	Evidence for a narrow band gap phase in 1Tâ€² WS2 nanosheet. <i>Applied Physics Letters</i> , 2019, 115, .	1.5	25
23	Polyethylene Aerogels with Combined Physical and Chemical Crosslinking: Improved Mechanical Resilience and Shapeâ€Memory Properties. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 15883-15889.	7.2	24
24	High Glassâ€Transition Temperature Polymer Networks Harnessing the Dynamic Ring Opening of Pinacol Boronates. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 12216-12222.	7.2	24
25	Porous functionalized polymers enable generating and transporting hyperpolarized mixtures of metabolites. <i>Nature Communications</i> , 2021, 12, 4695.	5.8	23
26	Expanding the structural variety of poly(1,2,3-triazolium)s obtained by simultaneous 1,3-dipolar Huisgen polyaddition and N-alkylation. <i>Polymer</i> , 2015, 79, 309-315.	1.8	22
27	Synthesis and Photophysics of Coaxial Threaded Molecular Wires: Polyrotaxanes with Triarylamine Jackets. <i>Journal of Physical Chemistry C</i> , 2014, 118, 4553-4566.	1.5	21
28	Revisiting thiolâ€yne chemistry: Selective and efficient monoaddition for block and graft copolymer formation. <i>Journal of Polymer Science Part A</i> , 2015, 53, 319-326.	2.5	18
29	Improved selfâ€assembly of poly(dimethylsiloxaneâ€i>b</i>â€ethylene oxide) using a hydrogenâ€bonding additive. <i>Journal of Polymer Science Part A</i> , 2016, 54, 2200-2208.	2.5	17
30	One-pot syntheses of heterotelechelic Î±-vinyl,Î±-methoxysilane polyethylenes and condensation into comb-like and star-like polymers with high chain end functionality. <i>Polymer Chemistry</i> , 2020, 11, 3884-3891.	1.9	11
31	Improved malleability of miniemulsion-based vitrimers through <i>in situ</i> generation of carboxylate surfactants. <i>Polymer Chemistry</i> , 2019, 10, 3001-3005.	1.9	10
32	Recodable surfaces based on switchable hydrogen bonds. <i>Chemical Communications</i> , 2016, 52, 8753-8756.	2.2	6
33	Polyethylene Aerogels with Combined Physical and Chemical Crosslinking: Improved Mechanical Resilience and Shapeâ€Memory Properties. <i>Angewandte Chemie</i> , 2019, 131, 16030-16036.	1.6	3
34	High Glassâ€Transition Temperature Polymer Networks Harnessing the Dynamic Ring Opening of Pinacol Boronates. <i>Angewandte Chemie</i> , 2019, 131, 12344-12350.	1.6	1