

John B Matson

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.

89
papers

3,931
citations

33
h-index

61
g-index

97
ext. papers

4,569
ext. citations

7.7
avg, IF

6.1
L-index

#	Paper	IF	Citations
89	Self-assembling peptide scaffolds for regenerative medicine. <i>Chemical Communications</i> , 2012 , 48, 26-33	5.8	403
88	A review of hydrogen sulfide (HS) donors: Chemistry and potential therapeutic applications. <i>Biochemical Pharmacology</i> , 2018 , 149, 110-123	6	243
87	Dendrimers Clicked Together Divergently. <i>Macromolecules</i> , 2005 , 38, 5436-5443	5.5	227
86	Peptide Self-Assembly for Crafting Functional Biological Materials. <i>Current Opinion in Solid State and Materials Science</i> , 2011 , 15, 225-235	12	218
85	Controlled release of dexamethasone from peptide nanofiber gels to modulate inflammatory response. <i>Biomaterials</i> , 2012 , 33, 6823-32	15.6	189
84	Internal dynamics of a supramolecular nanofibre. <i>Nature Materials</i> , 2014 , 13, 812-6	27	131
83	Neuroactive chondroitin sulfate glycomimetics. <i>Journal of the American Chemical Society</i> , 2008 , 130, 2959-61	16.1	121
82	Cell death versus cell survival instructed by supramolecular cohesion of nanostructures. <i>Nature Communications</i> , 2014 , 5, 3321	17.4	120
81	Bottlebrush Polymer Synthesis by Ring-Opening Metathesis Polymerization: The Significance of the Anchor Group. <i>Journal of the American Chemical Society</i> , 2016 , 138, 6998-7004	16.4	115
80	Drug release from hydrazone-containing peptide amphiphiles. <i>Chemical Communications</i> , 2011 , 47, 7962-48	5.8	111
79	Synthesis of fluorine-18 functionalized nanoparticles for use as in vivo molecular imaging agents. <i>Journal of the American Chemical Society</i> , 2008 , 130, 6731-3	16.4	105
78	Therapeutic Delivery of HS via COS: Small Molecule and Polymeric Donors with Benign Byproducts. <i>Journal of the American Chemical Society</i> , 2016 , 138, 13477-13480	16.4	90
77	Nanostructure-templated control of drug release from peptide amphiphile nanofiber gels. <i>Soft Matter</i> , 2012 , 8, 3586-3595	3.6	86
76	S-arylthiooximes: a facile route to hydrogen sulfide releasing compounds with structure-dependent release kinetics. <i>Organic Letters</i> , 2014 , 16, 1558-61	6.2	85
75	End-functionalized glycopolymers as mimetics of chondroitin sulfate proteoglycans. <i>Chemical Science</i> , 2010 , 1, 322-325	9.4	80
74	Photodynamic control of bioactivity in a nanofiber matrix. <i>ACS Nano</i> , 2012 , 6, 10776-85	16.7	79
73	A Peptide-Based Material for Therapeutic Carbon Monoxide Delivery. <i>Soft Matter</i> , 2012 , 8, 2689-2692	3.6	76

72	ROMP-ATRP Block Copolymers Prepared from Monotelechelic Poly(oxa)norbornenes Using a Difunctional Terminating Agent. <i>Macromolecules</i> , 2008 , 41, 5626-5631	5.5	74
71	Pulsed-addition ring-opening metathesis polymerization: catalyst-economical syntheses of homopolymers and block copolymers. <i>Journal of the American Chemical Society</i> , 2009 , 131, 3355-62	16.4	64
70	A Persulfide Donor Responsive to Reactive Oxygen Species: Insights into Reactivity and Therapeutic Potential. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 6324-6328	16.4	59
69	Enzyme-induced in vivo assembly of gold nanoparticles for imaging-guided synergistic chemo-photothermal therapy of tumor. <i>Biomaterials</i> , 2019 , 223, 119460	15.6	55
68	Functionalization of Methacrylate Polymers with Thiooximes: A Robust Postpolymerization Modification Reaction and a Method for the Preparation of H ₂ S-Releasing Polymers. <i>Macromolecules</i> , 2014 , 47, 5089-5095	5.5	54
67	Tapered Bottlebrush Polymers: Cone-Shaped Nanostructures by Sequential Addition of Macromonomers. <i>ACS Macro Letters</i> , 2017 , 6, 1175-1179	6.6	53
66	Gasotrasmmitter delivery via self-assembling peptides: Treating diseases with natural signaling gases. <i>Advanced Drug Delivery Reviews</i> , 2017 , 110-111, 137-156	18.5	50
65	Monotelechelic Poly(oxa)norbornenes by Ring-Opening Metathesis Polymerization using Direct End-Capping and Cross Metathesis. <i>Macromolecules</i> , 2010 , 43, 213-221	5.5	50
64	HS-Releasing Polymer Micelles for Studying Selective Cell Toxicity. <i>Molecular Pharmaceutics</i> , 2017 , 14, 1300-1306	5.6	49
63	Peptide-based hydrogen sulphide-releasing gels. <i>Chemical Communications</i> , 2015 , 51, 13131-4	5.8	49
62	Synthesis of bottlebrush polymers via transfer-to and grafting-through approaches using a RAFT chain transfer agent with a ROMP-active Z-group. <i>Polymer Chemistry</i> , 2015 , 6, 5643-5652	4.9	43
61	Olefin Cross-Metathesis in Polymer and Polysaccharide Chemistry: A Review. <i>Biomacromolecules</i> , 2017 , 18, 1661-1676	6.9	38
60	Amphiphilic Bottlebrush Block Copolymers: Analysis of Aqueous Self-Assembly by Small-Angle Neutron Scattering and Surface Tension Measurements. <i>Macromolecules</i> , 2019 , 52, 465-476	5.5	38
59	Olefin cross-metathesis, a mild, modular approach to functionalized cellulose esters. <i>Polymer Chemistry</i> , 2014 , 5, 7021-7033	4.9	36
58	Preparation of Bottlebrush Polymers via a One-Pot Ring-Opening Polymerization (ROP) and Ring-Opening Metathesis Polymerization (ROMP) Grafting-Through Strategy. <i>Macromolecular Rapid Communications</i> , 2016 , 37, 616-21	4.8	36
57	Self-Assembled Nanostructures Regulate HS Release from Constitutionally Isomeric Peptides. <i>Journal of the American Chemical Society</i> , 2018 , 140, 14945-14951	16.4	36
56	Reversibly Cross-linkable Bottlebrush Polymers as Pressure-Sensitive Adhesives. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 26662-26668	9.5	33
55	Epitope topography controls bioactivity in supramolecular nanofibers. <i>Biomaterials Science</i> , 2015 , 3, 530-532	5.3	32

54	Graft polymer synthesis by RAFT transfer-to. <i>Journal of Polymer Science Part A</i> , 2017 , 55, 2865-2876	2.5	31
53	Hydrogen sulfide-releasing peptide hydrogel limits the development of intimal hyperplasia in human vein segments. <i>Acta Biomaterialia</i> , 2019 , 97, 374-384	10.8	31
52	Olefin cross-metathesis as a source of polysaccharide derivatives: cellulose β -carboxyalkanoates. <i>Biomacromolecules</i> , 2014 , 15, 177-87	6.9	31
51	Light-Controlled Hierarchical Self-Assembly of Polyelectrolytes and Supramolecular Polymers. <i>ACS Macro Letters</i> , 2015 , 4, 43-47	6.6	25
50	Cationic polythiophenes as responsive DNA-binding polymers. <i>Polymer Chemistry</i> , 2014 , 5, 314-317	4.9	22
49	Photo- and Biodegradable Thermoplastic Elastomers: Combining Ketone-Containing Polybutadiene with Polylactide Using Ring-Opening Polymerization and Ring-Opening Metathesis Polymerization. <i>Macromolecules</i> , 2017 , 50, 4180-4187	5.5	21
48	Polysaccharide-containing block copolymers: synthesis and applications. <i>Materials Chemistry Frontiers</i> , 2020 , 4, 99-112	7.8	21
47	Alleviating Cellular Oxidative Stress through Treatment with Superoxide-Triggered Persulfide Prodrugs. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 16698-16704	16.4	20
46	The Benefits of Macromolecular/Supramolecular Approaches in Hydrogen Sulfide Delivery: A Review of Polymeric and Self-Assembled Hydrogen Sulfide Donors. <i>Antioxidants and Redox Signaling</i> , 2020 , 32, 79-95	8.4	20
45	A Persulfide Donor Responsive to Reactive Oxygen Species: Insights into Reactivity and Therapeutic Potential. <i>Angewandte Chemie</i> , 2018 , 130, 6432-6436	3.6	19
44	Norbornene-containing dithiocarbamates for use in reversible addition-fragmentation chain transfer (RAFT) polymerization and ring-opening metathesis polymerization (ROMP). <i>Polymer</i> , 2015 , 79, 205-211	3.9	18
43	Dendritic Elastin-like Peptides: The Effect of Branching on Thermoresponsiveness. <i>Biomacromolecules</i> , 2016 , 17, 262-70	6.9	18
42	Functional N-Substituted N-Thiocarboxyanhydrides as Modular Tools for Constructing HS Donor Conjugates. <i>ACS Chemical Biology</i> , 2019 , 14, 1129-1134	4.9	17
41	Supramolecular Tuning of HS Release from Aromatic Peptide Amphiphile Gels: Effect of Core Unit Substituents. <i>Biomacromolecules</i> , 2019 , 20, 1077-1086	6.9	16
40	Polymeric persulfide prodrugs: Mitigating oxidative stress through controlled delivery of reactive sulfur species. <i>ACS Macro Letters</i> , 2020 , 9, 606-612	6.6	16
39	Precision Polyketones by Ring-Opening Metathesis Polymerization: Effects of Regular and Irregular Ketone Spacing. <i>Macromolecules</i> , 2016 , 49, 3655-3662	5.5	16
38	Hydrogels composed of hyaluronic acid and dendritic ELPs: hierarchical structure and physical properties. <i>Soft Matter</i> , 2019 , 15, 917-925	3.6	14
37	The evolving landscape for cellular nitric oxide and hydrogen sulfide delivery systems: A new era of customized medications. <i>Biochemical Pharmacology</i> , 2020 , 176, 113931	6	14

36	Assembly of a visible light photoreactor: an inexpensive tool for bottlebrush polymer synthesis via photoiniferter polymerization. <i>Polymer Chemistry</i> , 2017 , 8, 7452-7456	4.9	14
35	Tuning HS Release by Controlling Mobility in a Micelle Core. <i>Macromolecules</i> , 2019 , 52, 1104-1111	5.5	12
34	Peripheral loss of EphA4 ameliorates TBI-induced neuroinflammation and tissue damage. <i>Journal of Neuroinflammation</i> , 2019 , 16, 210	10.1	12
33	Molecular-Level Control over Plasmonic Properties in Silver Nanoparticle/Self-Assembling Peptide Hybrids. <i>Journal of the American Chemical Society</i> , 2020 , 142, 9158-9162	16.4	11
32	Multi-scale characterization of thermoresponsive dendritic elastin-like peptides. <i>Colloids and Surfaces B: Biointerfaces</i> , 2017 , 153, 141-151	6	10
31	Self-Amplified Depolymerization of Oligo(thiourethanes) for the Release of COS/HS. <i>Polymer Chemistry</i> , 2019 , 10, 2991-2995	4.9	10
30	HS-releasing amphiphilic dipeptide hydrogels are potent <i>S. aureus</i> biofilm disruptors. <i>Biomaterials Science</i> , 2020 , 8, 2564-2576	7.4	10
29	Linker-Regulated HS Release from Aromatic Peptide Amphiphile Hydrogels. <i>Biomacromolecules</i> , 2020 , 21, 1171-1178	6.9	10
28	Supramolecular nanostructures with tunable donor loading for controlled HS release. <i>ACS Applied Bio Materials</i> , 2019 , 2, 5093-5098	4.1	10
27	Elastase-triggered HS delivery from polymer hydrogels. <i>Chemical Communications</i> , 2020 , 56, 1085-1088	5.8	10
26	Factors affecting bottlebrush polymer synthesis by the transfer-to method using reversible addition-fragmentation chain transfer (RAFT) polymerization. <i>Polymer Chemistry</i> , 2017 , 8, 1636-1643	4.9	9
25	EphA4/Tie2 crosstalk regulates leptomenigeal collateral remodeling following ischemic stroke. <i>Journal of Clinical Investigation</i> , 2020 , 130, 1024-1035	15.9	9
24	Hydrolytic Decomposition of S-Aroylthiooximes: Effect of pH and N-Arylidene Substitution on Reaction Rate. <i>Journal of Organic Chemistry</i> , 2018 , 83, 13363-13369	4.2	9
23	Toughening Cellulose: Compatibilizing Polybutadiene and Cellulose Triacetate Blends. <i>ACS Macro Letters</i> , 2019 , 8, 447-453	6.6	8
22	Crescent-Shaped Supramolecular Tetrapeptide Nanostructures. <i>Journal of the American Chemical Society</i> , 2020 , 142, 20058-20065	16.4	8
21	Self-Immolative Prodrugs: Effective Tools for the Controlled Release of Sulfur Signaling Species. <i>Synlett</i> , 2019 , 30, 525-531	2.2	8
20	Targeted Delivery of Persulfides to the Gut: Effects on the Microbiome. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 6061-6067	16.4	8
19	A Review of Chemical Tools for Studying Small Molecule Persulfides: Detection and Delivery. <i>ACS Chemical Biology</i> , 2021 , 16, 1128-1141	4.9	7

18	Effects of graft polymer compatibilizers in blends of cellulose triacetate and poly(lactic acid). <i>Polymer International</i> , 2019 , 68, 1263-1270	3.3	6
17	Effect of Crosslinker Topology on Enzymatic Degradation of Hydrogels. <i>Biomacromolecules</i> , 2020 , 21, 3279-3286	6.9	5
16	Amino acid-based HS donors: -thiocarboxyanhydrides that release HS with innocuous byproducts. <i>Chemical Communications</i> , 2021 , 57, 5522-5525	5.8	5
15	Tuning small molecule release from polymer micelles: Varying HS release through cross linking in the micelle core. <i>European Polymer Journal</i> , 2020 , 141, 110077-110077	5.2	4
14	Quo Vadis, Macromolecular Science? Reflections by the IUPAC Polymer Division on the Occasion of the Staudinger Centenary. <i>Israel Journal of Chemistry</i> , 2020 , 60, 9-19	3.4	4
13	Peptide-based supramolecular photodynamic therapy systems: From rational molecular design to effective cancer treatment. <i>Chemical Engineering Journal</i> , 2022 , 436, 135240	14.7	4
12	A combined experimental and computational approach reveals how aromatic peptide amphiphiles self-assemble to form ion-conducting nanohelices. <i>Materials Chemistry Frontiers</i> , 2020 , 4, 3022-3031	7.8	4
11	Novel Electrospun Pullulan Fibers Incorporating Hydroxypropyl- β -Cyclodextrin: Morphology and Relation with Rheological Properties. <i>Polymers</i> , 2020 , 12,	4.5	3
10	Dendrimers Clicked Together Divergently Volume 38, Number 13, June 28, 2005, pp 5436-5443.. <i>Macromolecules</i> , 2006 , 39, 900-900	5.5	3
9	Solvent Effects in Grafting-through Ring-Opening Metathesis Polymerization. <i>Macromolecules</i> , 2022 , 55, 3522-3532	5.5	3
8	Complex Polymer Architectures Using Ring-Opening Metathesis Polymerization: Synthesis, Applications, and Practical Considerations. <i>Macromolecules</i> ,	5.5	3
7	Poly(β -Cyclodextrin) Prepared by Ring-Opening Metathesis Polymerization Enables Creation of Supramolecular Polymeric Networks.. <i>ACS Macro Letters</i> , 2021 , 10, 1460-1466	6.6	2
6	Targeted Delivery of Persulfides to the Gut: Effects on the Microbiome. <i>Angewandte Chemie</i> , 2021 , 133, 6126-6132	3.6	2
5	Reconsidering terms for mechanisms of polymer growth: the 'step-growth' and 'chain-growth' dilemma. <i>Polymer Chemistry</i> ,	4.9	1
4	Synthesis of Fluorine-18 Functionalized Nanoparticles for Use as in Vivo Molecular Imaging Agents. <i>NATO Science for Peace and Security Series A: Chemistry and Biology</i> , 2009 , 237-247	0.1	0
3	Strong Variation of Micelle-Unimer Coexistence as a Function of Core Chain Mobility. <i>Macromolecules</i> , 2021 , 54, 6975-6981	5.5	0
2	HS Delivery from Aromatic Peptide Amphiphile Hydrogels. <i>Methods in Molecular Biology</i> , 2018 , 1758, 193-208	1.4	
1	Alleviating Cellular Oxidative Stress through Treatment with Superoxide-Triggered Persulfide Prodrugs. <i>Angewandte Chemie</i> , 2020 , 132, 16841	3.6	

