John B Matson

List of Publications by Year
in descending order

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94 papers	5,146 citations	94381 37 h-index	91828 69 g-index
97 all docs	97 docs citations	97 times ranked	5683 citing authors

#	Article	IF	Citations
1	Peptide-based supramolecular photodynamic therapy systems: From rational molecular design to effective cancer treatment. Chemical Engineering Journal, 2022, 436, 135240.	6.6	15
2	Reconsidering terms for mechanisms of polymer growth: the â€œstep-growthâ€•and â€œchain-growthâ€• dilemma. Polymer Chemistry, 2022, 13, 2262-2270.	1.9	11
3	Green-light-responsive metalâ€“organic frameworks for colorectal cancer treatment. Chemical Communications, 2022, 58, 5225-5228.	2.2	8
4	Solvent Effects in Grafting-through Ring-Opening Metathesis Polymerization. Macromolecules, 2022, 55, 3522-3532.	2.2	15
5	pH-Responsive Self-Assembling Peptide-Based Biomaterials: Designs and Applications. ACS Applied Bio Materials, 2022, 5, 4635-4651.	2.3	17
6	Complex Polymer Architectures Using Ring-Opening Metathesis Polymerization: Synthesis, Applications, and Practical Considerations. Macromolecules, 2022, 55, 4200-4227.	2.2	30
7	Amino acid-based H2S donors: N-thiocarboxyanhydrides that release H2S with innocuous byproducts. Chemical Communications, 2021, 57, 5522-5525.	2.2	11
8	Targeted Delivery of Persulfides to the Gut: Effects on the Microbiome. Angewandte Chemie - International Edition, 2021, 60, 6061-6067.	7.2	22
9	Targeted Delivery of Persulfides to the Gut: Effects on the Microbiome. Angewandte Chemie, 2021, 133, 6126-6132.	1.6	5
10	A Review of Chemical Tools for Studying Small Molecule Persulfides: Detection and Delivery. ACS Chemical Biology, 2021, 16, 1128-1141.	1.6	26
11	Strong Variation of Micelleâ€“Unimer Coexistence as a Function of Core Chain Mobility. Macromolecules, 2021, 54, 6975-6981.	2.2	2
12	Poly(Î²-Cyclodextrin) Prepared by Ring-Opening Metathesis Polymerization Enables Creation of Supramolecular Polymeric Networks. ACS Macro Letters, 2021, 10, 1460-1466.	2.3	6
13	The Benefits of Macromolecular/Supramolecular Approaches in Hydrogen Sulfide Delivery: A Review of Polymeric and Self-Assembled Hydrogen Sulfide Donors. Antioxidants and Redox Signaling, 2020, 32, 79-95.	2.5	32
14	Elastase-triggered H₂S delivery from polymer hydrogels. Chemical Communications, 2020, 56, 1085-1088.	2.2	19
15	Polysaccharide-containing block copolymers: synthesis and applications. Materials Chemistry Frontiers, 2020, 4, 99-112.	3.2	30
16	Crescent-Shaped Supramolecular Tetrapeptide Nanostructures. Journal of the American Chemical Society, 2020, 142, 20058-20065.	6.6	33
17	Effect of Crosslinker Topology on Enzymatic Degradation of Hydrogels. Biomacromolecules, 2020, 21, 3279-3286.	2.6	12
18	Alleviating Cellular Oxidative Stress through Treatment with Superoxideâ€Triggered Persulfide Prodrugs. Angewandte Chemie, 2020, 132, 16841-16847.	1.6	8

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19	A combined experimental and computational approach reveals how aromatic peptide amphiphiles self-assemble to form ion-conducting nanohelices. Materials Chemistry Frontiers, 2020, 4, 3022-3031.	3.2	13
20	Novel Electrospun Pullulan Fibers Incorporating Hydroxypropyl-Î²-Cyclodextrin: Morphology and Relation with Rheological Properties. Polymers, 2020, 12, 2558.	2.0	9
21	Tuning small molecule release from polymer micelles: Varying H2S release through crosslinking in the micelle core. European Polymer Journal, 2020, 141, 110077.	2.6	11
22	Molecular-Level Control over Plasmonic Properties in Silver Nanoparticle/Self-Assembling Peptide Hybrids. Journal of the American Chemical Society, 2020, 142, 9158-9162.	6.6	26
23	Quo Vadis, Macromolecular Science? Reflections by the IUPAC Polymer Division on the Occasion of the Staudinger Centenary. Israel Journal of Chemistry, 2020, 60, 9-19.	1.0	5
24	H₂S-releasing amphiphilic dipeptide hydrogels are potentS. aureusbiofilm disruptors. Biomaterials Science, 2020, 8, 2564-2576.	2.6	23
25	Alleviating Cellular Oxidative Stress through Treatment with Superoxideâ€Triggered Persulfide Prodrugs. Angewandte Chemie - International Edition, 2020, 59, 16698-16704.	7.2	40
26	Linker-Regulated H₂S Release from Aromatic Peptide Amphiphile Hydrogels. Biomacromolecules, 2020, 21, 1171-1178.	2.6	19
27	The evolving landscape for cellular nitric oxide and hydrogen sulfide delivery systems: A new era of customized medications. Biochemical Pharmacology, 2020, 176, 113931.	2.0	29
28	Polymeric Persulfide Prodrugs: Mitigating Oxidative Stress through Controlled Delivery of Reactive Sulfur Species. ACS Macro Letters, 2020, 9, 606-612.	2.3	29
29	EphA4/Tie2 crosstalk regulates leptomeningeal collateral remodeling following ischemic stroke. Journal of Clinical Investigation, 2020, 130, 1024-1035.	3.9	28
30	Hydrogen sulfide-releasing peptide hydrogel limits the development of intimal hyperplasia in human vein segments. Acta Biomaterialia, 2019, 97, 374-384.	4.1	50
31	Peripheral loss of EphA4 ameliorates TBI-induced neuroinflammation and tissue damage. Journal of Neuroinflammation, 2019, 16, 210.	3.1	23
32	Supramolecular Nanostructures with Tunable Donor Loading for Controlled H₂S Release. ACS Applied Bio Materials, 2019, 2, 5093-5098.	2.3	20
33	Enzyme-induced in vivo assembly of gold nanoparticles for imaging-guided synergistic chemo-photothermal therapy of tumor. Biomaterials, 2019, 223, 119460.	5.7	90
34	Hydrogels composed of hyaluronic acid and dendritic ELPs: hierarchical structure and physical properties. Soft Matter, 2019, 15, 917-925.	1.2	23
35	Tuning H₂S Release by Controlling Mobility in a Micelle Core. Macromolecules, 2019, 52, 1104-1111.	2.2	22
36	Supramolecular Tuning of H₂S Release from Aromatic Peptide Amphiphile Gels: Effect of Core Unit Substituents. Biomacromolecules, 2019, 20, 1077-1086.	2.6	22

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37	Effects of graft polymer compatibilizers in blends of cellulose triacetate and poly(lactic acid). Polymer International, 2019, 68, 1263-1270.	1.6	9
38	Functional N-Substituted N-Thiocarboxyanhydrides as Modular Tools for Constructing H₂S Donor Conjugates. ACS Chemical Biology, 2019, 14, 1129-1134.	1.6	24
39	Polymers for biology, medicine and sustainability. Polymer International, 2019, 68, 1219-1219.	1.6	1
40	Self-amplified depolymerization of oligo(thiourethanes) for the release of COS/H₂S. Polymer Chemistry, 2019, 10, 2991-2995.	1.9	18
41	Toughening Cellulose: Compatibilizing Polybutadiene and Cellulose Triacetate Blends. ACS Macro Letters, 2019, 8, 447-453.	2.3	14
42	Amphiphilic Bottlebrush Block Copolymers: Analysis of Aqueous Self-Assembly by Small-Angle Neutron Scattering and Surface Tension Measurements. Macromolecules, 2019, 52, 465-476.	2.2	56
43	Self-Immolative Prodrugs: Effective Tools for the Controlled Release of Sulfur Signaling Species. Synlett, 2019, 30, 525-531.	1.0	11
44	A Persulfide Donor Responsive to Reactive Oxygen Species: Insights into Reactivity and Therapeutic Potential. Angewandte Chemie - International Edition, 2018, 57, 6324-6328.	7.2	90
45	A review of hydrogen sulfide (H2S) donors: Chemistry and potential therapeutic applications. Biochemical Pharmacology, 2018, 149, 110-123.	2.0	380
46	Self-Assembled Nanostructures Regulate H₂S Release from Constitutionally Isomeric Peptides. Journal of the American Chemical Society, 2018, 140, 14945-14951.	6.6	62
47	Hydrolytic Decomposition of S-Aroylthiooximes: Effect of pH and N-Arylidene Substitution on Reaction Rate. Journal of Organic Chemistry, 2018, 83, 13363-13369.	1.7	10
48	Structure to Function in Supramolecular Polymers and Materials. Macromolecular Rapid Communications, 2018, 39, 1800574.	2.0	3
49	Reversibly Cross-linkable Bottlebrush Polymers as Pressure-Sensitive Adhesives. ACS Applied Materials & Interfaces, 2018, 10, 26662-26668.	4.0	50
50	A Persulfide Donor Responsive to Reactive Oxygen Species: Insights into Reactivity and Therapeutic Potential. Angewandte Chemie, 2018, 130, 6432-6436.	1.6	26
51	H2S Delivery from Aromatic Peptide Amphiphile Hydrogels. Methods in Molecular Biology, 2018, 1758, 193-208.	0.4	0
52	Gasotransmitter delivery via self-assembling peptides: Treating diseases with natural signaling gases. Advanced Drug Delivery Reviews, 2017, 110-111, 137-156.	6.6	69
53	Factors affecting bottlebrush polymer synthesis by the transfer-to method using reversible additionâ€"fragmentation chain transfer (RAFT) polymerization. Polymer Chemistry, 2017, 8, 1636-1643.	1.9	13
54	Multi-scale characterization of thermoresponsive dendritic elastin-like peptides. Colloids and Surfaces B: Biointerfaces, 2017, 153, 141-151.	2.5	16

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55	Olefin Cross-Metathesis in Polymer and Polysaccharide Chemistry: A Review. Biomacromolecules, 2017, 18, 1661-1676.	2.6	44
56	Graft polymer synthesis by RAFT transferâ€to. Journal of Polymer Science Part A, 2017, 55, 2865-2876.	2.5	44
57	Photo- and Biodegradable Thermoplastic Elastomers: Combining Ketone-Containing Polybutadiene with Polylactide Using Ring-Opening Polymerization and Ring-Opening Metathesis Polymerization. Macromolecules, 2017, 50, 4180-4187.	2.2	34
58	H₂S-Releasing Polymer Micelles for Studying Selective Cell Toxicity. Molecular Pharmaceutics, 2017, 14, 1300-1306.	2.3	66
59	Tapered Bottlebrush Polymers: Cone-Shaped Nanostructures by Sequential Addition of Macromonomers. ACS Macro Letters, 2017, 6, 1175-1179.	2.3	71
60	Assembly of a visible light photoreactor: an inexpensive tool for bottlebrush polymer synthesis via photoiniferter polymerization. Polymer Chemistry, 2017, 8, 7452-7456.	1.9	23
61	Preparation of Bottlebrush Polymers via a One-Pot Ring-Opening Polymerization (ROP) and Ring-Opening Metathesis Polymerization (ROMP) Grafting-Through Strategy. Macromolecular Rapid Communications, 2016, 37, 616-621.	2.0	44
62	Bottlebrush Polymer Synthesis by Ring-Opening Metathesis Polymerization: The Significance of the Anchor Group. Journal of the American Chemical Society, 2016, 138, 6998-7004.	6.6	156
63	Precision Polyketones by Ring-Opening Metathesis Polymerization: Effects of Regular and Irregular Ketone Spacing. Macromolecules, 2016, 49, 3655-3662.	2.2	21
64	Therapeutic Delivery of H₂S via COS: Small Molecule and Polymeric Donors with Benign Byproducts. Journal of the American Chemical Society, 2016, 138, 13477-13480.	6.6	113
65	Dendritic Elastin-like Peptides: The Effect of Branching on Thermoresponsiveness. Biomacromolecules, 2016, 17, 262-270.	2.6	24
66	Epitope topography controls bioactivity in supramolecular nanofibers. Biomaterials Science, 2015, 3, 520-532.	2.6	43
67	Synthesis of bottlebrush polymers via transfer-to and grafting-through approaches using a RAFT chain transfer agent with a ROMP-active Z-group. Polymer Chemistry, 2015, 6, 5643-5652.	1.9	51
68	Peptide-based hydrogen sulphide-releasing gels. Chemical Communications, 2015, 51, 13131-13134.	2.2	58
69	Light-Controlled Hierarchical Self-Assembly of Polyelectrolytes and Supramolecular Polymers. ACS Macro Letters, 2015, 4, 43-47.	2.3	28
70	Norbornene-containing dithiocarbamates for use in reversible additionâ€"fragmentation chain transfer (RAFT) polymerization and ring-opening metathesis polymerization (ROMP). Polymer, 2015, 79, 205-211.	1.8	19
71	Olefin cross-metathesis, a mild, modular approach to functionalized cellulose esters. Polymer Chemistry, 2014, 5, 7021-7033.	1.9	39
72	Cationic polythiophenes as responsive DNA-binding polymers. Polymer Chemistry, 2014, 5, 314-317.	1.9	32

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73	Cell death versus cell survival instructed by supramolecular cohesion of nanostructures. Nature Communications, 2014, 5, 3321.	5.8	135
74	Olefin Cross-Metathesis as a Source of Polysaccharide Derivatives: Cellulose Ï‰-Carboxyalkanoates. Biomacromolecules, 2014, 15, 177-187.	2.6	38
75	Functionalization of Methacrylate Polymers with Thiooximes: A Robust Postpolymerization Modification Reaction and a Method for the Preparation of H₂S-Releasing Polymers. Macromolecules, 2014, 47, 5089-5095.	2.2	64
76	S-Aroylthiooximes: A Facile Route to Hydrogen Sulfide Releasing Compounds with Structure-Dependent Release Kinetics. Organic Letters, 2014, 16, 1558-1561.	2.4	113
77	Internal dynamics of a supramolecular nanofibre. Nature Materials, 2014, 13, 812-816.	13.3	154
78	Photodynamic Control of Bioactivity in a Nanofiber Matrix. ACS Nano, 2012, 6, 10776-10785.	7.3	88
79	A peptide-based material for therapeutic carbon monoxide delivery. Soft Matter, 2012, 8, 6689.	1.2	83
80	Self-assembling peptide scaffolds for regenerative medicine. Chemical Communications, 2012, 48, 26-33.	2.2	446
81	Nanostructure-templated control of drug release from peptide amphiphile nanofiber gels. Soft Matter, 2012, 8, 3586.	1.2	95
82	Controlled release of dexamethasone from peptide nanofiber gels to modulate inflammatory response. Biomaterials, 2012, 33, 6823-6832.	5.7	214
83	Drug release from hydrazone-containing peptide amphiphiles. Chemical Communications, 2011, 47, 7962.	2.2	128
84	Peptide self-assembly for crafting functional biological materials. Current Opinion in Solid State and Materials Science, 2011, 15, 225-235.	5.6	251
85	Monotelechelic Poly(oxa)norbornenes by Ring-Opening Metathesis Polymerization Using Direct End-Capping and Cross-Metathesis. Macromolecules, 2010, 43, 213-221.	2.2	55
86	End-functionalized glycopolymers as mimetics of chondroitin sulfate proteoglycans. Chemical Science, 2010, 1, 322.	3.7	83
87	Pulsed-Addition Ring-Opening Metathesis Polymerization: Catalyst-Economical Syntheses of Homopolymers and Block Copolymers. Journal of the American Chemical Society, 2009, 131, 3355-3362.	6.6	72
88	Synthesis of Fluorine-18 Functionalized Nanoparticles for Use as in Vivo Molecular Imaging Agents. NATO Science for Peace and Security Series A: Chemistry and Biology, 2009, , 237-247.	0.5	1
89	ROMPâˆ'ATRP Block Copolymers Prepared from Monotelechelic Poly(oxa)norbornenes Using a Difunctional Terminating Agent. Macromolecules, 2008, 41, 5626-5631.	2.2	75
90	Synthesis of Fluorine-18 Functionalized Nanoparticles for use as in vivo Molecular Imaging Agents. Journal of the American Chemical Society, 2008, 130, 6731-6733.	6.6	120

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91	Neuroactive Chondroitin Sulfate Glycomimetics. Journal of the American Chemical Society, 2008, 130, 2959-2961.	6.6	136
92	Dendrimers Clicked Together Divergently Volume 38, Number 13, June 28, 2005, pp 5436â˜5443.. Macromolecules, 2006, 39, 900-900.	2.2	3
93	Dendrimers Clicked Together Divergently. Macromolecules, 2005, 38, 5436-5443.	2.2	240
94	Electrospun Scaffolds Functionalized with a Hydrogen Sulfide Donor Stimulate Angiogenesis. ACS Applied Materials & Interfaces, 0, , .	4.0	2