

Anne J Mcneil

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.

72
papers

2,510
citations

30
h-index

48
g-index

82
ext. papers

2,799
ext. citations

7.9
avg, IF

5.59
L-index

#	Paper	IF	Citations
72	Mechanistic studies on Ni(dppe)Cl ₂ -catalyzed chain-growth polymerizations: evidence for rate-determining reductive elimination. <i>Journal of the American Chemical Society</i> , 2009 , 131, 16573-9	16.4	171
71	Probing substituent effects in aryl-aryl interactions using stereoselective Diels-Alder cycloadditions. <i>Journal of the American Chemical Society</i> , 2010 , 132, 3304-11	16.4	159
70	Conjugated Polymer Synthesis via Catalyst-Transfer Polycondensation (CTP): Mechanism, Scope, and Applications. <i>Macromolecules</i> , 2013 , 46, 8395-8405	5.5	148
69	Impact of Copolymer Sequence on Solid-State Properties for Random, Gradient and Block Copolymers containing Thiophene and Selenophene. <i>Macromolecules</i> , 2012 , 45, 5948-5955	5.5	121
68	Analyte-triggered gelation: initiating self-assembly via oxidation-induced planarization. <i>Journal of the American Chemical Society</i> , 2008 , 130, 16496-7	16.4	87
67	Evidence for Ligand-Dependent Mechanistic Changes in Nickel-Catalyzed Chain-Growth Polymerizations. <i>Macromolecules</i> , 2010 , 43, 8039-8044	5.5	83
66	Detecting a peroxide-based explosive via molecular gelation. <i>Chemical Communications</i> , 2012 , 48, 7310-3	5.8	71
65	A general method for detecting protease activity via gelation and its application to artificial clotting. <i>Chemical Communications</i> , 2012 , 48, 5482-4	5.8	69
64	Dissolution parameters reveal role of structure and solvent in molecular gelation. <i>Langmuir</i> , 2011 , 27, 13248-53	4	65
63	Ligand-Based Steric Effects in Ni-Catalyzed Chain-Growth Polymerizations Using Bis(dialkylphosphino)ethanes. <i>Macromolecules</i> , 2011 , 44, 5136-5145	5.5	65
62	Chain-growth polymerization of aryl Grignards initiated by a stabilized NHC-Pd precatalyst. <i>Macromolecular Rapid Communications</i> , 2012 , 33, 842-7	4.8	64
61	Lithium enolates of simple ketones: structure determination using the method of continuous variation. <i>Journal of the American Chemical Society</i> , 2008 , 130, 4859-68	16.4	64
60	Syntheses of Gradient π -Conjugated Copolymers of Thiophene. <i>Macromolecules</i> , 2010 , 43, 8709-8710	5.5	58
59	Streamlined approach to a new gelator: inspiration from solid-state interactions for a mercury-induced gelation. <i>Chemical Communications</i> , 2010 , 46, 3511-3	5.8	55
58	100th Anniversary of Macromolecular Science Viewpoint: Redefining Sustainable Polymers.. <i>ACS Macro Letters</i> , 2021 , 10, 41-53	6.6	55
57	Improving Science Education and Understanding through Editing Wikipedia. <i>Journal of Chemical Education</i> , 2010 , 87, 1159-1162	2.4	51
56	Matchmaking in Catalyst-Transfer Polycondensation: Optimizing Catalysts based on Mechanistic Insight. <i>Accounts of Chemical Research</i> , 2016 , 49, 2822-2831	24.3	51

55	Using polymeric additives to enhance molecular gelation: impact of poly(acrylic acid) on pyridine-based gelators. <i>Soft Matter</i> , 2012 , 8, 430-434	3.6	48
54	Diastereoselective alkylation of beta-amino esters: structural and rate studies reveal alkylations of hexameric lithium enolates. <i>Journal of the American Chemical Society</i> , 2004 , 126, 16559-68	16.4	48
53	The History of Palladium-Catalyzed Cross-Couplings Should Inspire the Future of Catalyst-Transfer Polymerization. <i>Journal of the American Chemical Society</i> , 2018 , 140, 15126-15139	16.4	48
52	Tools for identifying gelator scaffolds and solvents. <i>Journal of Organic Chemistry</i> , 2015 , 80, 2473-8	4.2	45
51	Conjugated gradient copolymers suppress phase separation and improve stability in bulk heterojunction solar cells. <i>Journal of Materials Chemistry C</i> , 2014 , 2, 3401	7.1	43
50	Evidence for a preferential intramolecular oxidative addition in Ni-catalyzed cross-coupling reactions and their impact on chain-growth polymerizations. <i>Chemical Science</i> , 2013 , 4, 1620	9.4	42
49	Modifying a known gelator scaffold for nitrite detection. <i>Chemical Communications</i> , 2014 , 50, 7813-6	5.8	41
48	Characterization of the bridged hyponitrite complex {[Fe(OEP)](2)(EN(2)O(2))}: reactivity of hyponitrite complexes and biological relevance. <i>Inorganic Chemistry</i> , 2014 , 53, 6398-414	5.1	39
47	Polymers synthesized via catalyst-transfer polymerization and their applications. <i>Coordination Chemistry Reviews</i> , 2018 , 376, 225-247	23.2	37
46	Accelerating Ni(II) precatalyst initiation using reactive ligands and its impact on chain-growth polymerizations. <i>Dalton Transactions</i> , 2013 , 42, 4218-22	4.3	37
45	Effect of ligand electronic properties on precatalyst initiation and propagation in Ni-catalyzed cross-coupling polymerizations. <i>Chemical Science</i> , 2012 , 3, 1562	9.4	37
44	Developing a Gel-Based Sensor Using Crystal Morphology Prediction. <i>Journal of the American Chemical Society</i> , 2016 , 138, 12228-33	16.4	34
43	Comparing molecular gelators and nongelators based on solubilities and solid-state interactions. <i>Langmuir</i> , 2010 , 26, 13076-80	4	32
42	Enzyme-triggered gelation: targeting proteases with internal cleavage sites. <i>Chemical Communications</i> , 2014 , 50, 1691-3	5.8	30
41	Impact of Conjugated gradient sequence copolymers on polymer blend morphology. <i>Polymer Chemistry</i> , 2013 , 4, 4606	4.9	30
40	Solution structures of lithium enolates, phenolates, carboxylates, and alkoxides in the presence of N,N,N',N'-tetramethylethylenediamine: a prevalence of cyclic dimers. <i>Journal of Organic Chemistry</i> , 2008 , 73, 7743-7	4.2	30
39	Conjugated polymers in an arene sandwich. <i>Journal of the American Chemical Society</i> , 2006 , 128, 12426-7	16.4	26
38	Impact of Preferential Binding in Catalyst-Transfer Polycondensation of Thiazole Derivatives. <i>ACS Macro Letters</i> , 2016 , 5, 1411-1415	6.6	26

37	An all-conjugated gradient copolymer approach for morphological control of polymer solar cells. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 20174-20184	13	24
36	Ring-Walking in Catalyst-Transfer Polymerization. <i>Journal of the American Chemical Society</i> , 2018 , 140, 7846-7850	16.4	24
35	Improving Hg-triggered gelation via structural modifications. <i>Langmuir</i> , 2014 , 30, 3522-7	4	24
34	Reversible enolization of beta-amino carboxamides by lithium hexamethyldisilazide. <i>Journal of the American Chemical Society</i> , 2005 , 127, 5655-61	16.4	24
33	Effect of Solvent on Surface Ordering of Poly(3-hexylthiophene) Thin Films. <i>Langmuir</i> , 2015 , 31, 5050-6	4	23
32	Characterization of beta-amino ester enolates as hexamers via ⁶ Li NMR spectroscopy. <i>Journal of the American Chemical Society</i> , 2004 , 126, 5938-9	16.4	23
31	Primary Vinyl Cations in Solution: Kinetics and Products of β -Disubstituted Alkenyl(aryl)iodonium Triflate Fragmentations. <i>Journal of the American Chemical Society</i> , 1999 , 121, 7437-7438	16.4	22
30	Functionalized and Degradable Polyphthalaldehyde Derivatives. <i>Journal of the American Chemical Society</i> , 2019 , 141, 14544-14548	16.4	21
29	Structures of beta-amino ester enolates: new strategies using the method of continuous variation. <i>Journal of the American Chemical Society</i> , 2008 , 130, 17334-41	16.4	21
28	Computational Mechanism for Initiation and Growth of Poly(3-hexylthiophene) Using Palladium N-Heterocyclic Carbene Precatalysts. <i>Macromolecules</i> , 2016 , 49, 7632-7641	5.5	18
27	Vinyl carbocations: solution studies of alkenyl(aryl)iodonium triflate fragmentations. <i>Journal of Organic Chemistry</i> , 2001 , 66, 5556-65	4.2	17
26	Limitations of Using Small Molecules to Identify Catalyst-Transfer Polycondensation Reactions. <i>ACS Macro Letters</i> , 2016 , 5, 69-72	6.6	16
25	Spin-Switching Transmetalation at Ni Diimine Catalysts. <i>ACS Catalysis</i> , 2018 , 8, 3655-3666	13.1	15
24	Enhancing Photovoltaic Performance Using an All-Conjugated Random Copolymer to Tailor Bulk and Interfacial Morphology of the P3HT:ICBA Active Layer. <i>Advanced Functional Materials</i> , 2014 , 24, 5594-5602	15.6	15
23	Mechanistic Insight into Thiophene Catalyst-Transfer Polymerization Mediated by Nickel Diimine Catalysts. <i>Macromolecules</i> , 2017 , 50, 9121-9127	5.5	14
22	Giving superabsorbent polymers a second life as pressure-sensitive adhesives. <i>Nature Communications</i> , 2021 , 12, 4524	17.4	11
21	Trials and tribulations of designing multitasking catalysts for olefin/thiophene block copolymerizations. <i>Journal of Polymer Science Part A</i> , 2018 , 56, 132-137	2.5	10
20	Construction from Destruction: Hydrogel Formation from Triggered Depolymerization-Based Release of an Enzymatic Catalyst. <i>ACS Macro Letters</i> , 2020 , 9, 377-381	6.6	9

19	Molecular weight dependent structure and charge transport in MAPLE-deposited poly(3-hexylthiophene) thin films. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2018 , 56, 652-663	2.6	9
18	Connecting Organic Chemistry Concepts with Real-World Contexts by Creating Infographics. <i>Journal of Chemical Education</i> , 2019 , 96, 2524-2527	2.4	9
17	Student-Designed Green Chemistry Experiment for a Large-Enrollment, Introductory Organic Laboratory Course. <i>Journal of Chemical Education</i> , 2019 , 96, 2420-2425	2.4	9
16	Reactive ligand influence on initiation in phenylene catalyst-transfer polymerization. <i>Journal of Polymer Science Part A</i> , 2017 , 55, 1530-1535	2.5	8
15	Adapting Meaningful Learning Strategies for an Introductory Laboratory Course: Using Thin-Layer Chromatography to Monitor Reaction Progress. <i>Journal of Chemical Education</i> , 2019 , 96, 1873-1880	2.4	8
14	Adapting Meaningful Learning Strategies to Teach Liquid-Liquid Extractions. <i>Journal of Chemical Education</i> , 2020 , 97, 80-86	2.4	5
13	Random Copolymers Outperform Gradient and Block Copolymers in Stabilizing Organic Photovoltaics. <i>Advanced Functional Materials</i> , 2019 , 29, 1900467	15.6	4
12	Localized hydrogels based on cellulose nanofibers and wood pulp for rapid removal of methylene blue. <i>Journal of Polymer Science</i> , 2020 , 58, 3042-3049	2.4	4
11	Short Course on Sustainable Polymers for High School Students. <i>Journal of Chemical Education</i> , 2020 , 97, 2160-2168	2.4	3
10	Toward one-pot olefin/thiophene block copolymers using an in situ ligand exchange. <i>Journal of Polymer Science Part A</i> , 2019 , 57, 1601-1605	2.5	2
9	Gradient Sequence π -Conjugated Copolymers. <i>ACS Symposium Series</i> , 2014 , 287-299	0.4	2
8	Air-tolerant poly(3-hexylthiophene) synthesis via catalyst-transfer polymerization. <i>Journal of Polymer Science</i> , 2021 , 59, 268-273	2.4	2
7	PROFILE: Early Excellence in Physical Organic Chemistry. <i>Journal of Physical Organic Chemistry</i> , 2012 , 25, 611-611	2.1	1
6	Using to Identify Ni Bidentate Phosphine Complexes. <i>Inorganic Chemistry</i> , 2021 , 60, 13400-13408	5.1	1
5	Fullerene-Functionalized Poly(3-hexylthiophene) Additive Stabilizes Conjugated Polymer/Fullerene Blend Morphologies. <i>ACS Applied Polymer Materials</i> ,	4.3	1
4	A Nonaqueous Redox-Matched Flow Battery with Charge Storage in Insoluble Polymer Beads.. <i>Chemistry - A European Journal</i> , 2022 , e202200149	4.8	1
3	Rapid Removal of Poly- and Perfluoroalkyl Substances with Quaternized Wood Pulp. <i>ACS ES&T Water</i> , 2022 , 2, 349-356		0
2	New Conjugated Polymers and Synthetic Methods 2012 , 475-486		

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