Anne J Mcneil

List of Publications by Year in Descending Order

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	Rapid Removal of Poly- and Perfluoroalkyl Substances with Quaternized Wood Pulp. *ACS ES&T Water*, **2022**, 2, 349-356		0
71	A Nonaqueous Redox-Matched Flow Battery with Charge Storage in Insoluble Polymer Beads.. *Chemistry - A European Journal*, **2022**, e202200149	4.8	1
70	100th Anniversary of Macromolecular Science Viewpoint: Redefining Sustainable Polymers.. *ACS Macro Letters*, **2021**, 10, 41-53	6.6	55
69	Giving superabsorbent polymers a second life as pressure-sensitive adhesives. *Nature Communications*, **2021**, 12, 4524	17.4	11
68	Using to Identify Ni Bidentate Phosphine Complexes. *Inorganic Chemistry*, **2021**, 60, 13400-13408	5.1	1
67	Air-tolerant poly(3-hexylthiophene) synthesis via catalyst-transfer polymerization. *Journal of Polymer Science*, **2021**, 59, 268-273	2.4	2
66	Construction from Destruction: Hydrogel Formation from Triggered Depolymerization-Based Release of an Enzymatic Catalyst. *ACS Macro Letters*, **2020**, 9, 377-381	6.6	9
65	Adapting Meaningful Learning Strategies to Teach Liquid□iquid Extractions. *Journal of Chemical Education*, **2020**, 97, 80-86	2.4	5
64	Localized hydrogels based on cellulose nanofibers and wood pulp for rapid removal of methylene blue. *Journal of Polymer Science*, **2020**, 58, 3042-3049	2.4	4
63	Short Course on Sustainable Polymers for High School Students. *Journal of Chemical Education*, **2020**, 97, 2160-2168	2.4	3
62	Functionalized and Degradable Polyphthalaldehyde Derivatives. *Journal of the American Chemical Society*, **2019**, 141, 14544-14548	16.4	21
61	Toward one-pot olefin/thiophene block copolymers using an in situ ligand exchange. *Journal of Polymer Science Part A*, **2019**, 57, 1601-1605	2.5	2
60	Random Copolymers Outperform Gradient and Block Copolymers in Stabilizing Organic Photovoltaics. *Advanced Functional Materials*, **2019**, 29, 1900467	15.6	4
59	Adapting Meaningful Learning Strategies for an Introductory Laboratory Course: Using Thin-Layer Chromatography to Monitor Reaction Progress. *Journal of Chemical Education*, **2019**, 96, 1873-1880	2.4	8
58	Connecting Organic Chemistry Concepts with Real-World Contexts by Creating Infographics. *Journal of Chemical Education*, **2019**, 96, 2524-2527	2.4	9
57	Student-Designed Green Chemistry Experiment for a Large-Enrollment, Introductory Organic Laboratory Course. *Journal of Chemical Education*, **2019**, 96, 2420-2425	2.4	9
56	Molecular weight dependent structure and charge transport in MAPLE-deposited poly(3-hexylthiophene) thin films. *Journal of Polymer Science, Part B: Polymer Physics*, **2018**, 56, 652-663	2.6	9

55	Spin-Switching Transmetalation at Ni Diimine Catalysts. *ACS Catalysis*, **2018**, 8, 3655-3666	13.1	15
54	Trials and tribulations of designing multitasking catalysts for olefin/thiophene block copolymerizations. *Journal of Polymer Science Part A*, **2018**, 56, 132-137	2.5	10
53	Polymers synthesized via catalyst-transfer polymerization and their applications. *Coordination Chemistry Reviews*, **2018**, 376, 225-247	23.2	37
52	Ring-Walking in Catalyst-Transfer Polymerization. *Journal of the American Chemical Society*, **2018**, 140, 7846-7850	16.4	24
51	The History of Palladium-Catalyzed Cross-Couplings Should Inspire the Future of Catalyst-Transfer Polymerization. *Journal of the American Chemical Society*, **2018**, 140, 15126-15139	16.4	48
50	Reactive ligand influence on initiation in phenylene catalyst-transfer polymerization. *Journal of Polymer Science Part A*, **2017**, 55, 1530-1535	2.5	8
49	Mechanistic Insight into Thiophene Catalyst-Transfer Polymerization Mediated by Nickel Diimine Catalysts. *Macromolecules*, **2017**, 50, 9121-9127	5.5	14
48	Limitations of Using Small Molecules to Identify Catalyst-Transfer Polycondensation Reactions. *ACS Macro Letters*, **2016**, 5, 69-72	6.6	16
47	My maize and blue brick road to physical organic chemistry in materials. *Beilstein Journal of Organic Chemistry*, **2016**, 12, 229-38	2.5	
46	Impact of Preferential Binding in Catalyst-Transfer Polycondensation of Thiazole Derivatives. *ACS Macro Letters*, **2016**, 5, 1411-1415	6.6	26
45	Matchmaking in Catalyst-Transfer Polycondensation: Optimizing Catalysts based on Mechanistic Insight. *Accounts of Chemical Research*, **2016**, 49, 2822-2831	24.3	51
44	Developing a Gel-Based Sensor Using Crystal Morphology Prediction. *Journal of the American Chemical Society*, **2016**, 138, 12228-33	16.4	34
43	Computational Mechanism for Initiation and Growth of Poly(3-hexylthiophene) Using Palladium N-Heterocyclic Carbene Precatalysts. *Macromolecules*, **2016**, 49, 7632-7641	5.5	18
42	Tools for identifying gelator scaffolds and solvents. *Journal of Organic Chemistry*, **2015**, 80, 2473-8	4.2	45
41	Effect of Solvent on Surface Ordering of Poly(3-hexylthiophene) Thin Films. *Langmuir*, **2015**, 31, 5050-6	4	23
40	An all-conjugated gradient copolymer approach for morphological control of polymer solar cells. *Journal of Materials Chemistry A*, **2015**, 3, 20174-20184	13	24
39	Conjugated gradient copolymers suppress phase separation and improve stability in bulk heterojunction solar cells. *Journal of Materials Chemistry C*, **2014**, 2, 3401	7.1	43
38	Enzyme-triggered gelation: targeting proteases with internal cleavage sites. *Chemical Communications*, **2014**, 50, 1691-3	5.8	30

37	Characterization of the bridged hyponitrite complex {[Fe(OEP)](2)(N(2)O(2))}: reactivity of hyponitrite complexes and biological relevance. *Inorganic Chemistry*, **2014**, 53, 6398-414	5.1	39
36	Improving Hg-triggered gelation via structural modifications. *Langmuir*, **2014**, 30, 3522-7	4	24
35	Enhancing Photovoltaic Performance Using an All-Conjugated Random Copolymer to Tailor Bulk and Interfacial Morphology of the P3HT:ICBA Active Layer. *Advanced Functional Materials*, **2014**, 24, 5594-5602	15.6	15
34	Modifying a known gelator scaffold for nitrite detection. *Chemical Communications*, **2014**, 50, 7813-6	5.8	41
33	Gradient Sequence Conjugated Copolymers. *ACS Symposium Series*, **2014**, 287-299	0.4	2
32	Conjugated Polymer Synthesis via Catalyst-Transfer Polycondensation (CTP): Mechanism, Scope, and Applications. *Macromolecules*, **2013**, 46, 8395-8405	5.5	148
31	Impact of conjugated gradient sequence copolymers on polymer blend morphology. *Polymer Chemistry*, **2013**, 4, 4606	4.9	30
30	Accelerating Ni(II) precatalyst initiation using reactive ligands and its impact on chain-growth polymerizations. *Dalton Transactions*, **2013**, 42, 4218-22	4.3	37
29	Evidence for a preferential intramolecular oxidative addition in Ni-catalyzed cross-coupling reactions and their impact on chain-growth polymerizations. *Chemical Science*, **2013**, 4, 1620	9.4	42
28	Effect of ligand electronic properties on precatalyst initiation and propagation in Ni-catalyzed cross-coupling polymerizations. *Chemical Science*, **2012**, 3, 1562	9.4	37
27	Impact of Copolymer Sequence on Solid-State Properties for Random, Gradient and Block Copolymers containing Thiophene and Selenophene. *Macromolecules*, **2012**, 45, 5948-5955	5.5	121
26	PROFILE: Early Excellence in Physical Organic Chemistry. *Journal of Physical Organic Chemistry*, **2012**, 25, 611-611	2.1	1
25	Using polymeric additives to enhance molecular gelation: impact of poly(acrylic acid) on pyridine-based gelators. *Soft Matter*, **2012**, 8, 430-434	3.6	48
24	Chain-growth polymerization of aryl Grignards initiated by a stabilized NHC-Pd precatalyst. *Macromolecular Rapid Communications*, **2012**, 33, 842-7	4.8	64
23	Detecting a peroxide-based explosive via molecular gelation. *Chemical Communications*, **2012**, 48, 7310-2	5.8	71
22	A general method for detecting protease activity via gelation and its application to artificial clotting. *Chemical Communications*, **2012**, 48, 5482-4	5.8	69
21	New Conjugated Polymers and Synthetic Methods **2012**, 475-486		
20	Dissolution parameters reveal role of structure and solvent in molecular gelation. *Langmuir*, **2011**, 27, 13248-53	4	65

19	Ligand-Based Steric Effects in Ni-Catalyzed Chain-Growth Polymerizations Using Bis(dialkylphosphino)ethanes. *Macromolecules*, **2011**, 44, 5136-5145	5.5	65
18	Probing substituent effects in aryl-aryl interactions using stereoselective Diels-Alder cycloadditions. *Journal of the American Chemical Society*, **2010**, 132, 3304-11	16.4	159
17	Comparing molecular gelators and nongelators based on solubilities and solid-state interactions. *Langmuir*, **2010**, 26, 13076-80	4	32
16	Improving Science Education and Understanding through Editing Wikipedia. *Journal of Chemical Education*, **2010**, 87, 1159-1162	2.4	51
15	Evidence for Ligand-Dependent Mechanistic Changes in Nickel-Catalyzed Chain-Growth Polymerizations. *Macromolecules*, **2010**, 43, 8039-8044	5.5	83
14	Syntheses of Gradient □Conjugated Copolymers of Thiophene. *Macromolecules*, **2010**, 43, 8709-8710	5.5	58
13	Streamlined approach to a new gelator: inspiration from solid-state interactions for a mercury-induced gelation. *Chemical Communications*, **2010**, 46, 3511-3	5.8	55
12	Mechanistic studies on Ni(dppe)Cl(2)-catalyzed chain-growth polymerizations: evidence for rate-determining reductive elimination. *Journal of the American Chemical Society*, **2009**, 131, 16573-9	16.4	171
11	Analyte-triggered gelation: initiating self-assembly via oxidation-induced planarization. *Journal of the American Chemical Society*, **2008**, 130, 16496-7	16.4	87
10	Solution structures of lithium enolates, phenolates, carboxylates, and alkoxides in the presence of N,N,N□,N□-tetramethylethylenediamine: a prevalence of cyclic dimers. *Journal of Organic Chemistry*, **2008**, 73, 7743-7	4.2	30
9	Lithium enolates of simple ketones: structure determination using the method of continuous variation. *Journal of the American Chemical Society*, **2008**, 130, 4859-68	16.4	64
8	Structures of beta-amino ester enolates: new strategies using the method of continuous variation. *Journal of the American Chemical Society*, **2008**, 130, 17334-41	16.4	21
7	Conjugated polymers in an arene sandwich. *Journal of the American Chemical Society*, **2006**, 128, 12426-7	16.4	26
6	Reversible enolization of beta-amino carboxamides by lithium hexamethyldisilazide. *Journal of the American Chemical Society*, **2005**, 127, 5655-61	16.4	24
5	Diastereoselective alkylation of beta-amino esters: structural and rate studies reveal alkylations of hexameric lithium enolates. *Journal of the American Chemical Society*, **2004**, 126, 16559-68	16.4	48
4	Characterization of beta-amino ester enolates as hexamers via 6Li NMR spectroscopy. *Journal of the American Chemical Society*, **2004**, 126, 5938-9	16.4	23
3	Vinyl carbocations: solution studies of alkenyl(aryl)iodonium triflate fragmentations. *Journal of Organic Chemistry*, **2001**, 66, 5556-65	4.2	17
2	Primary Vinyl Cations in Solution: Kinetics and Products of □Disubstituted Alkenyl(aryl)iodonium Triflate Fragmentations. *Journal of the American Chemical Society*, **1999**, 121, 7437-7438	16.4	22

1	Fullerene-Functionalized Poly(3-hexylthiophene) Additive Stabilizes Conjugated Polymer–Fullerene Blend Morphologies. *ACS Applied Polymer Materials*,	4.3	1