

# Gavin O Jones

## List of Publications by Year in descending order

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42  
papers

3,676  
citations

230014

27  
h-index

299063

42  
g-index

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45  
docs citations

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times ranked

4699  
citing authors

#	ARTICLE	IF	CITATIONS
1	A Cation-Dependent Dual Activation Motif for Anionic Ring-Opening Polymerization of Cyclic Esters. <i>Journal of the American Chemical Society</i> , 2022, 144, 8439-8443.	6.6	10
2	Computational Investigations of the Lithium Superoxide Dimer Rearrangement on Noisy Quantum Devices. <i>Journal of Physical Chemistry A</i> , 2021, 125, 1827-1836.	1.1	37
3	Applications of quantum computing for investigations of electronic transitions in phenylsulfonyl-carbazole TADF emitters. <i>Npj Computational Materials</i> , 2021, 7, .	3.5	32
4	Formation of bis-benzimidazole and bis-benzoxazole through organocatalytic depolymerization of poly(ethylene terephthalate) and its mechanism. <i>Polymer Chemistry</i> , 2020, 11, 4904-4913.	1.9	13
5	Contributions of quantum chemistry to the development of ring opening polymerizations and chemical recycling. <i>Tetrahedron</i> , 2019, 75, 2047-2055.	1.0	4
6	Catalysis as an Enabling Science for Sustainable Polymers. <i>Chemical Reviews</i> , 2018, 118, 839-885.	23.0	669
7	Ion Pairing Limits Crystal Growth in Metal–Oxygen Batteries. <i>ACS Energy Letters</i> , 2018, 3, 2342-2348.	8.8	15
8	Non-Isocyanate Polyurethane Soft Nanoparticles Obtained by Surfactant-Assisted Interfacial Polymerization. <i>Langmuir</i> , 2017, 33, 1959-1968.	1.6	36
9	The trimerization of acetylenes involves a cascade of biradical and pericyclic processes. <i>Organic and Biomolecular Chemistry</i> , 2017, 15, 8326-8333.	1.5	7
10	Organocatalyzed synthesis of fluorinated poly(aryl thioethers). <i>Nature Communications</i> , 2017, 8, 166.	5.8	33
11	Synthesis of diblock copolymers by combination of organocatalyzed ring-opening polymerization and atom transfer radical polymerization using trichloroethanol as a bifunctional initiator. <i>Journal of Polymer Science Part A</i> , 2016, 54, 563-569.	2.5	9
12	Fast and selective ring-opening polymerizations by alkoxides and thioureas. <i>Nature Chemistry</i> , 2016, 8, 1047-1053.	6.6	224
13	Computational and experimental investigations of one-step conversion of poly(carbonate)s into value-added poly(aryl ether sulfone)s. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 7722-7726.	3.3	62
14	Investigation of Electrolyte Concentration Effects on the Performance of Lithium–Oxygen Batteries. <i>Journal of Physical Chemistry C</i> , 2016, 120, 5949-5957.	1.5	22
15	Melt-Processable Dynamic Covalent Poly(hemiaminal) Organogels as Scaffolds for UV-Induced Polymerization. <i>Advanced Materials</i> , 2015, 27, 4714-4718.	11.1	8
16	Development of a method for detecting trace metals in aqueous solutions based on the coordination chemistry of hexahydrotriazines. <i>Analyst</i> , 2015, 140, 5184-5189.	1.7	6
17	Supramolecular motifs in dynamic covalent PEG-hemiaminal organogels. <i>Nature Communications</i> , 2015, 6, 7417.	5.8	53
18	N-Heterocyclic Carbene-Catalyzed Ring Opening Polymerization of $\epsilon$ -Caprolactone with and without Alcohol Initiators: Insights from Theory and Experiment. <i>Journal of Physical Chemistry B</i> , 2015, 119, 5728-5737.	1.2	38

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19	Developments in Dynamic Covalent Chemistries from the Reaction of Thiols with Hexahydrotriazines. <i>Journal of the American Chemical Society</i> , 2015, 137, 14248-14251.	6.6	28
20	A Simple and Facile Approach to Aliphatic <i>N</i> -Substituted Functional Eight-Membered Cyclic Carbonates and Their Organocatalytic Polymerization. <i>Journal of the American Chemical Society</i> , 2015, 137, 13851-13860.	6.6	81
21	Meisenheimer Complex Inspired Catalyst- and Solvent-Free Synthesis of Noncyclic Poly(aryl ether) Tj ETQq1 1 0.784314 rgBT /Overloc	2.2	13
22	Recyclable, Strong Thermosets and Organogels via Paraformaldehyde Condensation with Diamines. <i>Science</i> , 2014, 344, 732-735.	6.0	362
23	Experimental and Computational Studies on the Mechanism of Zwitterionic Ring-Opening Polymerization of $\gamma$ -Valerolactone with <i>N</i> -Heterocyclic Carbenes. <i>Journal of Physical Chemistry B</i> , 2014, 118, 6553-6560.	1.2	57
24	Computational and Experimental Studies on the Mechanism of Formation of Poly(hexahydrotriazine)s and Poly(hemiaminal)s from the Reactions of Amines with Formaldehyde. <i>Organic Letters</i> , 2014, 16, 5502-5505.	2.4	57
25	Organic Acid-Catalyzed Polyurethane Formation via a Dual-Activated Mechanism: Unexpected Preference of <i>N</i> -Activation over <i>O</i> -Activation of Isocyanates. <i>Journal of the American Chemical Society</i> , 2013, 135, 16235-16241.	6.6	76
26	Polymerizing Base Sensitive Cyclic Carbonates Using Acid Catalysis. <i>ACS Macro Letters</i> , 2013, 2, 306-312.	2.3	83
27	Advanced chemical recycling of poly(ethylene terephthalate) through organocatalytic aminolysis. <i>Polymer Chemistry</i> , 2013, 4, 1610-1616.	1.9	136
28	Unexpected efficiency of cyclic amidine catalysts in depolymerizing poly(ethylene terephthalate). <i>Journal of Polymer Science Part A</i> , 2013, 51, 1606-1611.	2.5	70
29	Computational Investigations on Base-Catalyzed Diaryl Ether Formation. <i>Journal of Organic Chemistry</i> , 2013, 78, 5436-5443.	1.7	20
30	Catalyst Chelation Effects in Organocatalyzed Ring-Opening Polymerization of Lactide. <i>ACS Macro Letters</i> , 2012, 1, 19-22.	2.3	64
31	Mechanisms of Organocatalytic Amidation and Trans-Esterification of Aromatic Esters As a Model for the Depolymerization of Poly(ethylene) Terephthalate. <i>Journal of Physical Chemistry A</i> , 2012, 116, 12389-12398.	1.1	73
32	Computational Explorations of Mechanisms and Ligand-Directed Selectivities of Copper-Catalyzed Ullmann-Type Reactions. <i>Journal of the American Chemical Society</i> , 2010, 132, 6205-6213.	6.6	324
33	Enantioselective Synthesis of Axially Chiral Biaryls by the Pd-Catalyzed Suzuki-Miyaura Reaction: Substrate Scope and Quantum Mechanical Investigations. <i>Journal of the American Chemical Society</i> , 2010, 132, 11278-11287.	6.6	249
34	Reactivity and Regioselectivity in 1,3-Dipolar Cycloadditions of Azides to Strained Alkynes and Alkenes: A Computational Study. <i>Journal of the American Chemical Society</i> , 2009, 131, 8121-8133.	6.6	197
35	A Polar Radical Pair Pathway To Assemble the Pyrimidinone Core of the HIV Integrase Inhibitor Raltegravir Potassium. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 4134-4136.	7.2	25
36	Transition States of Strain-Promoted Metal-Free Click Chemistry: 1,3-Dipolar Cycloadditions of Phenyl Azide and Cyclooctynes. <i>Organic Letters</i> , 2008, 10, 1633-1636.	2.4	183

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37	Predictions of Substituent Effects in Thermal Azide 1,3-Dipolar Cycloadditions: Implications for Dynamic Combinatorial (Reversible) and Click (Irreversible) Chemistry. <i>Journal of Organic Chemistry</i> , 2008, 73, 1333-1342.	1.7	80
38	The Coupling of Isonitriles and Carboxylic Acids Occurring By Sequential Concerted Rearrangement Mechanisms. <i>Organic Letters</i> , 2008, 10, 4093-4096.	2.4	62
39	Highly Selective Diels-Alder Reactions of Directly Connected Enyne Dienophiles. <i>Journal of the American Chemical Society</i> , 2007, 129, 645-657.	6.6	45
40	Creating Quaternary Centers with High Exo Stereoselectivity Using Activated $\hat{\pm}$ -Alkynyl Dienophiles. <i>Journal of the American Chemical Society</i> , 2007, 129, 10078-10079.	6.6	18
41	Diels-Alder Reactions of Cyclopentadiene and 9,10-Dimethylantracene with Cyanoalkenes: The Performance of Density Functional Theory and Hartree-Fock Calculations for the Prediction of Substituent Effects. <i>Journal of Physical Chemistry A</i> , 2006, 110, 1216-1224.	1.1	67
42	Activation Energies and Reaction Energetics for 1,3-Dipolar Cycloadditions of Hydrazoic Acid with $C\equiv C$ and $C\equiv N$ Multiple Bonds from High-Accuracy and Density Functional Quantum Mechanical Calculations. <i>Helvetica Chimica Acta</i> , 2005, 88, 1702-1710.	1.0	28