

# Will R Gutekunst

## List of Publications by Year in descending order

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Version: 2024-02-01

31  
papers

1,137  
citations

567281

15  
h-index

434195

31  
g-index

32  
all docs

32  
docs citations

32  
times ranked

1180  
citing authors

#	ARTICLE	IF	CITATIONS
1	A General Approach to Sequence-Controlled Polymers Using Macrocyclic Ring Opening Metathesis Polymerization. <i>Journal of the American Chemical Society</i> , 2015, 137, 8038-8041.	13.7	239
2	Radical Approach to Thioester-Containing Polymers. <i>Journal of the American Chemical Society</i> , 2019, 141, 1446-1451.	13.7	118
3	A Versatile and Scalable Strategy to Discrete Oligomers. <i>Journal of the American Chemical Society</i> , 2016, 138, 6306-6310.	13.7	115
4	Established and emerging strategies for polymer chain-end modification. <i>Journal of Polymer Science Part A</i> , 2017, 55, 2903-2914.	2.3	78
5	Properties and applications of precision oligomer materials; where organic and polymer chemistry join forces. <i>Journal of Polymer Science</i> , 2021, 59, 373-403.	3.8	70
6	End group modification of poly(acrylates) obtained via ATRP: a user guide. <i>Polymer Chemistry</i> , 2017, 8, 689-697.	3.9	56
7	Controlled Formation and Binding Selectivity of Discrete Oligo(methyl methacrylate) Stereocomplexes. <i>Journal of the American Chemical Society</i> , 2018, 140, 1945-1951.	13.7	51
8	Modular Approach to Degradable Acetal Polymers Using Cascade Enyne Metathesis Polymerization. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 15726-15730.	13.8	43
9	Polymers for Extreme Conditions Designed Using Syntax-Directed Variational Autoencoders. <i>Chemistry of Materials</i> , 2020, 32, 10489-10500.	6.7	43
10	Alternating Cascade Metathesis Polymerization of Enynes and Cyclic Enol Ethers with Active Ruthenium Fischer Carbenes. <i>Journal of the American Chemical Society</i> , 2020, 142, 12942-12947.	13.7	41
11	Metal-Free Removal of Polymer Chain Ends Using Light. <i>Macromolecules</i> , 2016, 49, 8162-8166.	4.8	36
12	Efficient Synthesis of Asymmetric Miktoarm Star Polymers. <i>Macromolecules</i> , 2020, 53, 702-710.	4.8	33
13	Relay Conjugation of Living Metathesis Polymers. <i>Journal of the American Chemical Society</i> , 2018, 140, 12181-12188.	13.7	29
14	Modulating Polymerization Thermodynamics of Thiolactones Through Substituent and Heteroatom Incorporation. <i>ACS Macro Letters</i> , 2022, 11, 895-901.	4.8	28
15	Practical Synthesis of Functional Metathesis Initiators Using Enynes. <i>Macromolecules</i> , 2018, 51, 6497-6503.	4.8	22
16	Cascade Alternating Metathesis Cyclopolymerization of Diynes and Dihydrofuran. <i>ACS Macro Letters</i> , 2022, 11, 630-635.	4.8	15
17	Tuning of protease resistance in oligopeptides through <i>N</i> -alkylation. <i>Chemical Communications</i> , 2018, 54, 9631-9634.	4.1	13
18	Synthesis of perfectly sulfonated sodium polystyrene sulfonate over a wide molar mass range via reversible-deactivation radical polymerization. <i>Journal of Polymer Science Part A</i> , 2019, 57, 1527-1537.	2.3	12

#	ARTICLE	IF	CITATIONS
19	Halide-Rebound Polymerization of Twisted Amides. <i>Journal of the American Chemical Society</i> , 2019, 141, 2906-2910.	13.7	12
20	Toward Recyclable Polymers: Ring-Opening Polymerization Enthalpy from First-Principles. <i>Journal of Physical Chemistry Letters</i> , 2022, 13, 4778-4785.	4.6	12
21	Gatekeeping Ketosynthases Dictate Initiation of Assembly Line Biosynthesis of Pyrrolic Polyketides. <i>Journal of the American Chemical Society</i> , 2021, 143, 7617-7622.	13.7	10
22	Modification of cellulose nanocrystal surface chemistry with diverse nucleophiles for materials integration. <i>Journal of Materials Chemistry A</i> , 2020, 8, 18024-18031.	10.3	9
23	Measuring the Glass Transition Temperature of Vapor-Phase-Infiltrated ALO <sub>x</sub> -PS-r-PHEMA Organic-Inorganic Hybrid Thin-Film Materials. <i>Macromolecules</i> , 2021, 54, 6790-6798.	4.8	9
24	Pulsed-addition ring-opening metathesis polymerization with functional enyne reagents. <i>Polymer Chemistry</i> , 2020, 11, 259-264.	3.9	8
25	Resonance promoted ring-opening metathesis polymerization of twisted amides. <i>Chemical Science</i> , 2019, 10, 9729-9734.	7.4	7
26	Convergent Synthesis of Branched Metathesis Polymers with Enyne Reagents. <i>Macromolecules</i> , 2021, 54, 8435-8442.	4.8	6
27	Modulating Twisted Amide Geometry and Reactivity Through Remote Substituent Effects. <i>Journal of the American Chemical Society</i> , 2021, 143, 14657-14666.	13.7	5
28	Upcycling polystyrene with oxygen and light. , 2022, 1, 508-509.		5
29	A Nonfunctional Halogenase Masquerades as an Aromatizing Dehydratase in Biosynthesis of Pyrrolic Polyketides by Type I Polyketide Synthases. <i>ACS Chemical Biology</i> , 2022, 17, 1351-1356.	3.4	5
30	Modular Approach to Degradable Acetal Polymers Using Cascade Enyne Metathesis Polymerization. <i>Angewandte Chemie</i> , 2019, 131, 15873-15877.	2.0	4
31	Synthesis and Characterization of Cationic Dendrimer-PDMS Hybrids. <i>Macromolecular Rapid Communications</i> , 2021, 42, 2000652.	3.9	2