

# Maxwell J Robb

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2647829/publications.pdf>

Version: 2024-02-01

46  
papers

3,276  
citations

117453

34  
h-index

223531

46  
g-index

50  
all docs

50  
docs citations

50  
times ranked

4336  
citing authors

#	ARTICLE	IF	CITATIONS
1	Polymers with autonomous life-cycle control. <i>Nature</i> , 2016, 540, 363-370.	13.7	322
2	Power Factor Enhancement in Solution-Processed Organic n-Type Thermoelectrics Through Molecular Design. <i>Advanced Materials</i> , 2014, 26, 3473-3477.	11.1	196
3	Regioisomer-Specific Mechanochromism of Naphthopyran in Polymeric Materials. <i>Journal of the American Chemical Society</i> , 2016, 138, 12328-12331.	6.6	163
4	Pushing the Limits for Thiol-Ene and CuAAC Reactions: Synthesis of a 6th Generation Dendrimer in a Single Day. <i>Macromolecules</i> , 2010, 43, 6625-6631.	2.2	158
5	A Modular Strategy for Fully Conjugated Donor-Acceptor Block Copolymers. <i>Journal of the American Chemical Society</i> , 2012, 134, 16040-16046.	6.6	124
6	Force-Dependent Multicolor Mechanochromism from a Single Mechanophore. <i>Journal of the American Chemical Society</i> , 2019, 141, 11388-11392.	6.6	122
7	Mechanically Triggered Small Molecule Release from a Masked Furfuryl Carbonate. <i>Journal of the American Chemical Society</i> , 2019, 141, 15018-15023.	6.6	114
8	A Robust Damage-Reporting Strategy for Polymeric Materials Enabled by Aggregation-Induced Emission. <i>ACS Central Science</i> , 2016, 2, 598-603.	5.3	113
9	Validation of the CoGEF Method as a Predictive Tool for Polymer Mechanochemistry. <i>Journal of the American Chemical Society</i> , 2020, 142, 16364-16381.	6.6	112
10	Synthetic Aptamer-Polymer Hybrid Constructs for Programmed Drug Delivery into Specific Target Cells. <i>Journal of the American Chemical Society</i> , 2014, 136, 15010-15015.	6.6	110
11	Mechanical Reactivity of Two Different Spiropyran Mechanophores in Polydimethylsiloxane. <i>Macromolecules</i> , 2018, 51, 9177-9183.	2.2	110
12	A renaissance of color: New structures and building blocks for organic electronics. <i>Journal of Polymer Science Part A</i> , 2013, 51, 1263-1271.	2.5	109
13	Is Molecular Weight or Degree of Polymerization a Better Descriptor of Ultrasound-Induced Mechanochemical Transduction?. <i>ACS Macro Letters</i> , 2016, 5, 177-180.	2.3	108
14	Fabrication of Unique Chemical Patterns and Concentration Gradients with Visible Light. <i>Journal of the American Chemical Society</i> , 2013, 135, 14106-14109.	6.6	106
15	Tethered tertiary amines as solid-state n-type dopants for solution-processable organic semiconductors. <i>Chemical Science</i> , 2016, 7, 1914-1919.	3.7	91
16	Mechanochemical Regulation of a Photochemical Reaction. <i>Journal of the American Chemical Society</i> , 2018, 140, 14073-14077.	6.6	76
17	25th Anniversary Article: No Assembly Required: Recent Advances in Fully Conjugated Block Copolymers. <i>Advanced Materials</i> , 2013, 25, 5686-5700.	11.1	74
18	Modulating structure and properties in organic chromophores: influence of azulene as a building block. <i>Chemical Science</i> , 2014, 5, 3753-3760.	3.7	74

#	ARTICLE	IF	CITATIONS
19	Modulating the Properties of Azulene-Containing Polymers through Controlled Incorporation of Regioisomers. <i>Advanced Functional Materials</i> , 2014, 24, 7338-7347.	7.8	65
20	Interpreting the Density of States Extracted from Organic Solar Cells Using Transient Photocurrent Measurements. <i>Journal of Physical Chemistry C</i> , 2013, 117, 12407-12414.	1.5	63
21	A Retro-Staudinger Cycloaddition: Mechanochemical Cycloelimination of a $\hat{1}^2$ -Lactam Mechanophore. <i>Journal of the American Chemical Society</i> , 2015, 137, 10946-10949.	6.6	61
22	Designing naphthopyran mechanophores with tunable mechanochromic behavior. <i>Chemical Science</i> , 2020, 11, 4525-4530.	3.7	61
23	Functional block copolymer nanoparticles: toward the next generation of delivery vehicles. <i>Polymer Chemistry</i> , 2012, 3, 1618.	1.9	56
24	Harnessing the Power of Force: Development of Mechanophores for Molecular Release. <i>Journal of the American Chemical Society</i> , 2021, 143, 21461-21473.	6.6	54
25	Exhaustive glycosylation, pegylation, and glutathionylation of a [G4] dendrimer via photoinduced thiol coupling. <i>Journal of Polymer Science Part A</i> , 2011, 49, 4468-4475.	2.5	51
26	Mesostructured Block Copolymer Nanoparticles: Versatile Templates for Hybrid Inorganic/Organic Nanostructures. <i>Chemistry of Materials</i> , 2012, 24, 4036-4042.	3.2	51
27	De Novo Design of Bioactive Protein-Resembling Nanospheres via Dendrimer-Templated Peptide Amphiphile Assembly. <i>Nano Letters</i> , 2011, 11, 3946-3950.	4.5	49
28	A One-Step Strategy for End-Functionalized Donor-Acceptor Conjugated Polymers. <i>Macromolecules</i> , 2013, 46, 6431-6438.	2.2	49
29	Spatially Selective and Density-Controlled Activation of Interfacial Mechanophores. <i>Journal of the American Chemical Society</i> , 2019, 141, 4080-4085.	6.6	48
30	Exploring the synthesis and impact of end-functional poly(3-hexylthiophene). <i>Journal of Polymer Science Part A</i> , 2015, 53, 831-841.	2.5	43
31	Supramolecular guests in solvent driven block copolymer assembly: from internally structured nanoparticles to micelles. <i>Polymer Chemistry</i> , 2013, 4, 5038.	1.9	40
32	Generation of an Elusive Permanent Merocyanine via a Unique Mechanochemical Reaction Pathway. <i>Journal of the American Chemical Society</i> , 2021, 143, 7925-7929.	6.6	37
33	Interfacial Mechanophore Activation Using Laser-Induced Stress Waves. <i>Journal of the American Chemical Society</i> , 2018, 140, 5000-5003.	6.6	36
34	Mechanically Triggered Release of Functionally Diverse Molecular Payloads from Masked 2-Furylcarbinol Derivatives. <i>ACS Central Science</i> , 2021, 7, 1216-1224.	5.3	36
35	Poly(arylene sulfide)s by nucleophilic aromatic substitution polymerization of 2,7-difluorothianthrene. <i>Journal of Polymer Science Part A</i> , 2009, 47, 2453-2461.	2.5	34
36	One-Step Synthesis of Unsymmetrical <i>N</i> -Alkyl- <i>N</i> -aryl Perylene Diimides. <i>Journal of Organic Chemistry</i> , 2014, 79, 6360-6365.	1.7	28

#	ARTICLE	IF	CITATIONS
37	Mechanochemically Gated Photoswitching: Expanding the Scope of Polymer Mechanochromism. <i>Synlett</i> , 2019, 30, 1725-1732.	1.0	19
38	A modular approach to mechanically gated photoswitching with color-tunable molecular force probes. <i>Chemical Science</i> , 2021, 12, 11703-11709.	3.7	19
39	Significance of miscibility in multidonor bulk heterojunction solar cells. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2016, 54, 237-246.	2.4	16
40	Comparison of the reactivity of isomeric 2 <i>H</i> and 3 <i>H</i> -naphthopyran mechanophores. <i>Journal of Polymer Science</i> , 2021, 59, 2537-2544.	2.0	16
41	5-Aryloxy substitution enables efficient mechanically triggered release from a synthetically accessible masked 2-furylcarbinol mechanophore. <i>Chemical Communications</i> , 2021, 57, 11173-11176.	2.2	16
42	Quantifying Activation Rates of Scissile Mechanophores and the Influence of Dispersity. <i>Macromolecules</i> , 2022, 55, 276-283.	2.2	15
43	Examining the Impact of Relative Mechanophore Activity on the Selectivity of Ultrasound-Induced Mechanochemical Chain Scission. <i>ACS Macro Letters</i> , 2022, 11, 733-738.	2.3	14
44	Incorporation of a Tethered Alcohol Enables Efficient Mechanically Triggered Release in Aprotic Environments. <i>ACS Macro Letters</i> , 2022, 11, 948-953.	2.3	7
45	Poly(ether sulfone)s using a rigid dibenzothiophene dioxide heterocycle. <i>Journal of Polymer Science Part A</i> , 2016, 54, 3127-3131.	2.5	5
46	A mechanochemical two for one: Mechanical activation of norbornene releases carbon monoxide and switches on aggregation-induced emission. <i>Aggregate</i> , 2022, 3, .	5.2	0