

# Samuel W Thomas

## List of Publications by Year in Descending Order

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**Version:** 2024-04-09

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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.

79 papers	6,882 citations	27 h-index	82 g-index
84 ext. papers	7,370 ext. citations	8.9 avg, IF	6.07 L-index

#	Paper	IF	Citations
79	Red-Emitting, Acene-Doped Conjugated Polymer Nanoparticles that Respond Ratiometrically to Photogenerated O. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 13658-13665	9.5	1
78	Optimizing the self-assembly of conjugated polymers and small molecules through structurally programmed non-covalent control. <i>Journal of Polymer Science</i> , <b>2021</b> , 59, 1643-1663	2.4	4
77	Bridging the Void: Halogen Bonding and Aromatic Interactions to Program Luminescence and Electronic Properties of $\pi$ -Conjugated Materials in the Solid State. <i>Chemistry of Materials</i> , <b>2021</b> , 33, 6640-6661	8.6	4
76	Acenes beyond organic electronics: sensing of singlet oxygen and stimuli-responsive materials. <i>Organic and Biomolecular Chemistry</i> , <b>2020</b> , 18, 9191-9209	3.9	11
75	Side Chain Regioisomers that Dictate Optical Properties and Mechanofluorochromism through Crystal Packing. <i>Chemistry of Materials</i> , <b>2020</b> , 32, 5785-5801	9.6	10
74	Turning on solid-state phosphorescence of platinum acetylides with aromatic stacking. <i>Chemical Communications</i> , <b>2020</b> , 56, 6854-6857	5.8	4
73	Resistance to Unwanted Photo-Oxidation of Multi-Acene Molecules. <i>Journal of Organic Chemistry</i> , <b>2020</b> , 85, 12731-12739	4.2	4
72	Combining Top-Down and Bottom-Up with Photodegradable Layer-by-Layer Films. <i>Langmuir</i> , <b>2019</b> , 35, 13791-13804	4	7
71	Programmed twisting of phenylene-ethynylene linkages from aromatic stacking interactions. <i>Journal of Materials Chemistry C</i> , <b>2019</b> , 7, 1198-1207	7.1	6
70	Directed Polymorphism and Mechanofluorochromism of Conjugated Materials through Weak Non-Covalent Control. <i>Journal of Materials Chemistry C</i> , <b>2019</b> , 7, 8316-8324	7.1	18
69	Spectroscopy and Reactivity of Dialkoxy Acenes. <i>Chemistry - A European Journal</i> , <b>2019</b> , 25, 10400-10407	4.8	6
68	Polymer Amphiphiles for Photoregulated Anticancer Drug Delivery. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 2814-2820	9.5	13
67	Tuning the Negative Photochromism of Water-Soluble Spiropyran Polymers. <i>Macromolecules</i> , <b>2018</b> , 51, 8027-8037	5.5	34
66	Small Changes With Big Consequences: Swapping Two Atoms In Side Chains Changes Phenylene-Ethynylene Packing And Fluorescence. <i>Chemistry - A European Journal</i> , <b>2018</b> , 24, 16987-16994	4.8	3
65	Tuning the Key Properties of Singlet Oxygen-Responsive Acene-Doped Conjugated Polymer Nanoparticles. <i>ChemPhotoChem</i> , <b>2018</b> , 2, 632-639	3.3	7
64	Reversible mechanofluorochromism of aniline-terminated phenylene ethynylenes. <i>Chemical Science</i> , <b>2018</b> , 9, 5415-5426	9.4	28
63	Light-Controlled Selective Disruption, Multilevel Patterning, and Sequential Release with Polyelectrolyte Multilayer Films Incorporating Four Photocleavable Chromophores. <i>Chemistry of Materials</i> , <b>2017</b> , 29, 2951-2960	9.6	23

62	Ratiometric Singlet Oxygen Detection in Water Using Acene-Doped Conjugated Polymer Nanoparticles. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 15768-15775	9.5	28
61	Self-Cleaning Membranes from Comb-Shaped Copolymers with Photoresponsive Side Groups. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 13619-13631	9.5	33
60	Substituent Effects That Control Conjugated Oligomer Conformation through Non-covalent Interactions. <i>Journal of the American Chemical Society</i> , <b>2017</b> , 139, 5164-5174	16.4	39
59	UV and NIR-Responsive Layer-by-Layer Films Containing 6-Bromo-7-hydroxycoumarin Photolabile Groups. <i>Langmuir</i> , <b>2017</b> , 33, 10877-10885	4	6
58	Forcing Ladderenes into Plastic Semiconductors with Mechanochemistry. <i>Angewandte Chemie - International Edition</i> , <b>2017</b> , 56, 15196-15198	16.4	3
57	Berführung von Ladderenen in plastische Halbleiter mithilfe der Mechanochemie. <i>Angewandte Chemie</i> , <b>2017</b> , 129, 15394-15396	3.6	
56	Directly Photopatternable Polythiophene as Dual-Tone Photoresist. <i>Macromolecules</i> , <b>2017</b> , 50, 7258-7267	5.5	6
55	Correlated rotational switching in two-dimensional self-assembled molecular rotor arrays. <i>Nature Communications</i> , <b>2017</b> , 8, 16057	17.4	16
54	Triggered Release of Encapsulated Cargo from Photoresponsive Polyelectrolyte Nanocomplexes. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 23517-22	9.5	16
53	Stimuli-Responsive Free-Standing Layer-By-Layer Films. <i>Advanced Materials</i> , <b>2016</b> , 28, 715-21	24	29
52	Cycloadditions of Singlet Oxygen for Responsive Fluorescent Polymers. <i>Synlett</i> , <b>2016</b> , 27, 355-368	2.2	3
51	Stimuli-responsive side chains for new function from conjugated materials. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , <b>2016</b> , 322-323, 119-128	4.7	4
50	Water-soluble fluorescent polymers that respond to singlet oxygen. <i>Journal of Polymer Science Part A</i> , <b>2016</b> , 54, 2526-2535	2.5	9
49	Photolabile ROMP gels using ortho-nitrobenzyl functionalized crosslinkers. <i>Polymer Chemistry</i> , <b>2015</b> , 6, 4966-4971	4.9	22
48	Two-dimensional bricklayer arrangements of tolans using halogen bonding interactions. <i>Chemical Communications</i> , <b>2015</b> , 51, 8825-8	5.8	11
47	Two-Dimensional, Acene-Containing Conjugated Polymers That Show Ratiometric Fluorescent Response to Singlet Oxygen. <i>Macromolecules</i> , <b>2015</b> , 48, 6825-6831	5.5	27
46	Steric and Electronic Substituent Effects Influencing Regioselectivity of Tetracene Endoperoxidation. <i>Journal of Organic Chemistry</i> , <b>2015</b> , 80, 11086-91	4.2	13
45	Ullmann coupling mediated assembly of an electrically driven altitudinal molecular rotor. <i>Physical Chemistry Chemical Physics</i> , <b>2015</b> , 17, 31931-7	3.6	9

44	Thiophene-Based Conjugated Polymers with Photolabile Solubilizing Side Chains. <i>Macromolecules</i> , <b>2015</b> , 48, 959-966	5.5	45
43	Reversible photochemical tuning of net charge separation from contact electrification. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2014</b> , 6, 8754-61	9.5	11
42	Combining electronic and steric effects for highly stable unsymmetric pentacenes. <i>Chemistry - A European Journal</i> , <b>2014</b> , 20, 5880-4	4.8	18
41	Bandgap Engineering of Conjugated Materials with Nonconjugated Side Chains. <i>Macromolecules</i> , <b>2014</b> , 47, 2250-2256	5.5	14
40	Electronic effects of ring fusion and alkyne substitution on acene properties and reactivity. <i>Journal of Organic Chemistry</i> , <b>2014</b> , 79, 10081-93	4.2	37
39	Twisting and piezochromism of phenylene-ethynylenes with aromatic interactions between side chains and main chains. <i>Chemical Science</i> , <b>2014</b> , 5, 4184-4188	9.4	60
38	Wavelength-Selective Disruption and Triggered Release with Photolabile Polyelectrolyte Multilayers. <i>Chemistry of Materials</i> , <b>2014</b> , 26, 1450-1456	9.6	22
37	Furan-Containing Singlet Oxygen-Responsive Conjugated Polymers. <i>Macromolecules</i> , <b>2013</b> , 46, 756-762	5.5	16
36	Photoresponsive gels prepared by ring-opening metathesis polymerization. <i>Macromolecular Rapid Communications</i> , <b>2013</b> , 34, 1838-43	4.8	9
35	Photochemical disruption of polyelectrolyte multilayers. <i>Advanced Materials</i> , <b>2012</b> , 24, 1451-4	2.4	21
34	New Applications of Photolabile Nitrobenzyl Groups in Polymers. <i>Macromolecular Chemistry and Physics</i> , <b>2012</b> , 213, 2443-2449	2.6	29
33	CMOS Fluorometer for Oxygen Sensing. <i>IEEE Sensors Journal</i> , <b>2012</b> , 12, 2506-2507	4	
32	Acene-doped polymer films: singlet oxygen dosimetry and protein sensing. <i>Chemical Communications</i> , <b>2012</b> , 48, 9489-91	5.8	22
31	Structure, photophysics, and photooxidation of crowded diethynyltetracenes. <i>Journal of Materials Chemistry</i> , <b>2012</b> , 22, 6182		24
30	Photoinduced Aggregation of Polythiophenes. <i>ACS Macro Letters</i> , <b>2012</b> , 1, 825-829	6.6	27
29	Robust error correction in infofuses. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , <b>2012</b> , 468, 361-377	2.4	
28	Photoresponsive Polymers Containing Nitrobenzyl Esters via Ring-Opening Metathesis Polymerization. <i>Macromolecules</i> , <b>2011</b> , 44, 7956-7961	5.5	30
27	UV-induced fluorescence recovery and solubility modulation of photocaged conjugated oligomers. <i>Journal of Materials Chemistry</i> , <b>2011</b> , 21, 14041		27

26	New encoding schemes with infofuses. <i>Advanced Materials</i> , <b>2011</b> , 23, 4851-6	24	5
25	Acene-linked conjugated polymers with ratiometric fluorescent response to 1O <sub>2</sub> . <i>Chemical Communications</i> , <b>2011</b> , 47, 3445-7	5.8	29
24	Mechanism of the hydrophobic effect in the biomolecular recognition of arylsulfonamides by carbonic anhydrase. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2011</b> , 108, 17889-94	11.5	268
23	The Determination of the Location of Contact Electrification-Induced Discharge Events. <i>Journal of Physical Chemistry C</i> , <b>2010</b> , 114, 20885-20895	3.8	11
22	Parallel scanning-optical nanoscopy with optically confined probes. <i>Optics Express</i> , <b>2010</b> , 18, 16014-24	3.3	8
21	Controlling Contact Electrification with Photochromic Polymers. <i>Angewandte Chemie</i> , <b>2010</b> , 122, 8140-8143	16.3	5
20	Long-duration transmission of information with infofuses. <i>Angewandte Chemie - International Edition</i> , <b>2010</b> , 49, 4571-5	16.4	11
19	Controlling contact electrification with photochromic polymers. <i>Angewandte Chemie - International Edition</i> , <b>2010</b> , 49, 7968-71	16.4	45
18	Infochemistry and infofuses for the chemical storage and transmission of coded information. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2009</b> , 106, 9147-50	11.5	38
17	Controlling the kinetics of contact electrification with patterned surfaces. <i>Journal of the American Chemical Society</i> , <b>2009</b> , 131, 8746-7	16.4	32
16	Infochemistry: encoding information as optical pulses using droplets in a microfluidic device. <i>Journal of the American Chemical Society</i> , <b>2009</b> , 131, 12420-9	16.4	26
15	Phase separation of two-dimensional Coulombic crystals of mesoscale dipolar particles from mesoscale polarizable solvent. <i>Applied Physics Letters</i> , <b>2009</b> , 94, 044102	3.4	14
14	A non-chromatographic method for the purification of a bivalently active monoclonal IgG antibody from biological fluids. <i>Journal of the American Chemical Society</i> , <b>2009</b> , 131, 9361-7	16.4	25
13	Phase separation of 2D meso-scale Coulombic crystals from meso-scale polarizable "solvent". <i>Soft Matter</i> , <b>2009</b> , 5, 1188-1191	3.6	19
12	Simple telemedicine for developing regions: camera phones and paper-based microfluidic devices for real-time, off-site diagnosis. <i>Analytical Chemistry</i> , <b>2008</b> , 80, 3699-707	7.8	1152
11	Patterns of electrostatic charge and discharge in contact electrification. <i>Angewandte Chemie - International Edition</i> , <b>2008</b> , 47, 6654-6	16.4	50
10	Chemical sensors based on amplifying fluorescent conjugated polymers. <i>Chemical Reviews</i> , <b>2007</b> , 107, 1339-86	68.1	3646
9	Far-field generation of localized light fields using absorbance modulation. <i>Physical Review Letters</i> , <b>2007</b> , 98, 043905	7.4	30

8	Trace Hydrazine Detection with Fluorescent Conjugated Polymers: A Turn-On Sensory Mechanism. <i>Advanced Materials</i> , <b>2006</b> , 18, 1047-1050	24	107
7	Dark-field oxidative addition-based chemosensing: new bis-cyclometalated PtII complexes and phosphorescent detection of cyanogen halides. <i>Journal of the American Chemical Society</i> , <b>2006</b> , 128, 16641-8	16.4	116
6	Synthesis of a Novel Poly(iptycene) Ladder Polymer. <i>Macromolecules</i> , <b>2006</b> , 39, 3202-3209	5.5	44
5	Towards chemosensing phosphorescent conjugated polymers: cyclometalated platinum(II) poly(phenylene)s. <i>Journal of Materials Chemistry</i> , <b>2005</b> , 15, 2829		68
4	Amplifying fluorescent polymer sensors for the explosives taggant 2,3-dimethyl-2,3-dinitrobutane (DMNB). <i>Chemical Communications</i> , <b>2005</b> , 4572-4	5.8	172
3	Synthesis and Optical Properties of Simple Amine-Containing Conjugated Polymers. <i>Macromolecules</i> , <b>2005</b> , 38, 2716-2721	5.5	50
2	perpendicular organization of macromolecules: synthesis and alignment studies of a soluble poly(iptycene). <i>Journal of the American Chemical Society</i> , <b>2005</b> , 127, 17976-7	16.4	40
1	Quantum Amplified Isomerization: A New Chemically Amplified Imaging System in Solid Polymers. <i>ACS Symposium Series</i> , <b>2004</b> , 135-146	0.4	2