

# Edward T Samulski

## List of Publications by Year in descending order

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83  
papers

6,131  
citations

117453

34  
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79541

73  
g-index

85  
all docs

85  
docs citations

85  
times ranked

7878  
citing authors

#	ARTICLE	IF	CITATIONS
1	All Structures Great and Small: Nanoscale Modulations in Nematic Liquid Crystals. <i>Nanomaterials</i> , 2022, 12, 93.	1.9	8
2	Biaxial ordering in the supercooled nematic phase of bent-core mesogens: effects of molecular symmetry and outer wing lateral groups. <i>Liquid Crystals</i> , 2020, 47, 1986-1998.	0.9	8
3	The twist bend nematic: a case of mistaken identity. <i>Liquid Crystals</i> , 2020, 47, 2092-2097.	0.9	24
4	Probing molecular ordering in the nematic phases of para-linked bimesogen dimers through NMR studies of flexible prochiral solutes. <i>Liquid Crystals</i> , 2020, 47, 2058-2073.	0.9	17
5	Direct Measurement of the Angular Pair Correlation Coefficients in Molecular Liquids Using NMR. Benchmarking Force Fields for Atomistic Simulations. <i>Journal of Physical Chemistry B</i> , 2017, 121, 4174-4183.	1.2	2
6	Search for microscopic and macroscopic biaxiality in the cybotactic nematic phase of new oxadiazole bent-core mesogens. <i>Physical Review E</i> , 2016, 93, 062701.	0.8	32
7	Molecular ordering in the high-temperature nematic phase of an all-aromatic liquid crystal. <i>Soft Matter</i> , 2016, 12, 2309-2314.	1.2	10
8	Continuous liquid interface production of 3D objects. <i>Science</i> , 2015, 347, 1349-1352.	6.0	1,617
9	Liquid-State Structure via Very High-Field Nuclear Magnetic Resonance Discriminates among Force Fields. <i>Journal of Physical Chemistry Letters</i> , 2015, 6, 3626-3631.	2.1	4
10	The effects of lateral halogen substituents on the low-temperature cybotactic nematic phase in oxadiazole based bent-core liquid crystals. <i>Liquid Crystals</i> , 2015, 42, 1754-1764.	0.9	21
11	The cybotactic nematic phase of bent-core mesogens: state of the art and future developments. <i>Soft Matter</i> , 2014, 10, 7685-7691.	1.2	64
12	Evidence of Biaxial Order in the Cybotactic Nematic Phase of Bent-Core Mesogens. <i>Chemistry of Materials</i> , 2014, 26, 4671-4674.	3.2	37
13	The biaxial nematic phase of oxadiazole biphenol mesogens. <i>Liquid Crystals</i> , 2013, 40, 1655-1677.	0.9	36
14	Electric field effect on the phase diagram of a bent-core liquid crystal. <i>Soft Matter</i> , 2013, 9, 6475.	1.2	29
15	SWCNT Induced Crystallization in an Amorphous All-Aromatic Poly(ether imide). <i>Macromolecules</i> , 2013, 46, 1492-1503.	2.2	34
16	Balance between light trapping and charge carrier collection: Electro-photonic optimization of organic photovoltaics with ridge-patterned back electrodes. <i>Journal of Applied Physics</i> , 2013, 113, 244503.	1.1	4
17	Minimizing interfacial losses in inverted organic solar cells comprising Al-doped ZnO. <i>Applied Physics Letters</i> , 2012, 100, .	1.5	41
18	Uniaxial to biaxial nematic phase transition in a bent-core thermotropic liquid crystal by polarising microscopy. <i>Liquid Crystals</i> , 2012, 39, 19-23.	0.9	60

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19	Low nematic onset temperatures and room temperature cybotactic behavior in 1,3,4-oxadiazole-based bent-core mesogens possessing lateral methyl groups. <i>Journal of Materials Chemistry</i> , 2012, 22, 22558.	6.7	49
20	Interplay between Bimolecular Recombination and Carrier Transport Distances in Bulk Heterojunction Organic Solar Cells. <i>Advanced Energy Materials</i> , 2012, 2, 477-486.	10.2	36
21	The meaning of collaboration. <i>Journal of Magnetic Resonance</i> , 2012, 218, 164-166.	1.2	1
22	Synthesis, Thermal and Luminescence Properties of Ortho-Terphenyl Derivatives with 1,3,4-Oxadiazole Moiety. <i>Molecular Crystals and Liquid Crystals</i> , 2011, 550, 189-204.	0.4	2
23	Minority carrier transport length of electrodeposited Cu <sub>2</sub> O in ZnO/Cu <sub>2</sub> O heterojunction solar cells. <i>Applied Physics Letters</i> , 2011, 98, .	1.5	64
24	Biomimetic microlens array with antireflective "moth-eye" surface. <i>Soft Matter</i> , 2011, 7, 6404.	1.2	127
25	Diffusion realigned. <i>Nature Materials</i> , 2011, 10, 486-487.	13.3	12
26	Cybotaxis dominates the nematic phase of bent-core mesogens: a small-angle diffuse X-ray diffraction study. <i>Soft Matter</i> , 2011, 7, 895-901.	1.2	100
27	Light-trapping nano-structures in organic photovoltaic cells. <i>Journal of Materials Chemistry</i> , 2011, 21, 16293.	6.7	88
28	Extraordinary Magnetic Field Effect in Bent-Core Liquid Crystals. <i>Physical Review Letters</i> , 2011, 107, 207801.	2.9	62
29	Electro-optical model of photonic crystal bulk heterojunction organic solar cells. , 2010, , .		0
30	Suppression of bimolecular recombination by UV-sensitive electron transport layers in organic solar cells. <i>Journal of Applied Physics</i> , 2010, 108, 083101.	1.1	7
31	Mesoporous Silica-Supported Diarylammmonium Catalysts for Esterification of Free Fatty Acids in Greases. <i>JAOCS, Journal of the American Oil Chemists' Society</i> , 2010, 87, 445-452.	0.8	16
32	Uniform Alignment of Liquid Crystals Induced by Perfluoropolyether Film Exposed to Linearly Polarized Ultraviolet Light. <i>Molecular Crystals and Liquid Crystals</i> , 2010, 516, 38-44.	0.4	1
33	Nonideal parasitic resistance effects in bulk heterojunction organic solar cells. <i>Journal of Applied Physics</i> , 2010, 108, 084514.	1.1	25
34	Analyzing local exciton generation profiles as a means to extract transport lengths in organic solar cells. <i>Physical Review B</i> , 2010, 82, .	1.1	16
35	The night I danced with Al Saupe. A reflection. <i>Liquid Crystals</i> , 2010, 37, 625-626.	0.9	0
36	<i>meta</i> Cybotaxis and nematic biaxiality. <i>Liquid Crystals</i> , 2010, 37, 669-678.	0.9	62

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37	Insights into the cybotactic nematic phase of bent-core molecules. <i>Soft Matter</i> , 2010, 6, 2413.	1.2	149
38	Electrophotonic enhancement of bulk heterojunction organic solar cells through photonic crystal photoactive layer. <i>Applied Physics Letters</i> , 2009, 94, .	1.5	73
39	Towards Room Temperature Biaxial Nematics. <i>Molecular Crystals and Liquid Crystals</i> , 2009, 511, 203/[1673]-217/[1687].	0.4	20
40	Efficient Two-Step Synthesis of Biodiesel from Greases. <i>Energy &amp; Fuels</i> , 2008, 22, 626-634.	2.5	72
41	Exfoliated Graphene Separated by Platinum Nanoparticles. <i>Chemistry of Materials</i> , 2008, 20, 6792-6797.	3.2	1,070
42	New All-Aromatic Liquid Crystal Architectures. <i>Chemistry of Materials</i> , 2008, 20, 3821-3831.	3.2	43
43	News of MRS Members/Materials Researchers. <i>MRS Bulletin</i> , 2007, 32, 689-689.	1.7	0
44	Superhydrophobic Behavior of a Perfluoropolyether Lotus-Leaf-like Topography. <i>Langmuir</i> , 2006, 22, 8576-8580.	1.6	206
45	Alignment of nematic liquid crystals using carbon nanotube films. <i>Thin Solid Films</i> , 2006, 509, 53-57.	0.8	118
46	A comparative study of poly(methyl methacrylate) and polystyrene/clay nanocomposites prepared in supercritical carbon dioxide. <i>Polymer</i> , 2006, 47, 663-671.	1.8	70
47	Addressing non-idealities in NMR experiments on rotating liquid crystals. <i>Liquid Crystals</i> , 2005, 32, 1419-1425.	0.9	14
48	In Situ Polymerization of Poly(methyl methacrylate)/Clay Nanocomposites in Supercritical Carbon Dioxide. <i>Macromolecules</i> , 2005, 38, 7967-7971.	2.2	58
49	In situ fabrication of dispersed, crystalline platinum nanoparticles embedded in carbon nanofibers. <i>Chemical Physics Letters</i> , 2004, 398, 505-510.	1.2	37
50	An achiral, anticlinic-promoting, smectic liquid crystal architecture. <i>Journal of Materials Chemistry</i> , 2004, 14, 1554.	6.7	19
51	The mesomorphic state. , 2004, , 316-380.		2
52	The elusive thermotropic biaxial nematic phase in rigid bent-core molecules. <i>Pramana - Journal of Physics</i> , 2003, 61, 231-237.	0.9	90
53	Professor Walter Kauzmann in the late 1960s: how a chance conversation resulted in a thesis chapter, and his simple perspective on polywater. <i>Biophysical Chemistry</i> , 2003, 105, 173-174.	1.5	1
54	Sol-gel Template Synthesis and Liquid CO <sub>2</sub> Developed TiO <sub>2</sub> /CdS Composite Nanowire Arrays. <i>Materials Research Society Symposia Proceedings</i> , 2002, 737, 421.	0.1	0

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55	Fabrication and characterization of nanotubular semiconductor oxides In <sub>2</sub> O <sub>3</sub> and Ga <sub>2</sub> O <sub>3</sub> . Journal of Materials Chemistry, 2001, 11, 2901-2902.	6.7	171
56	Javelin-, Hockey Stick-, and Boomerang-Shaped Liquid Crystals. Structural Variations on p-Quinquephenyl. Journal of Physical Chemistry B, 2001, 105, 8845-8860.	1.2	151
57	New Mesogenes Forming Nanophase Separated Liquid Crystalline Structure - Cubic Phase -. Molecular Crystals and Liquid Crystals, 2001, 364, 605-610.	0.3	8
58	New mesogens with cubic phases: hydrogen-bonded bipyridines and siloxane-containing benzoic acids II. Structural studies. Liquid Crystals, 2000, 27, 1463-1471.	0.9	49
59	New mesogens with cubic phases: hydrogen-bonded bipyridines and siloxane-containing benzoic acids I. Preparation and phase behaviour. Liquid Crystals, 2000, 27, 1457-1462.	0.9	33
60	Non-linear boomerang-shaped liquid crystals derived from 2,5-bis(p-hydroxyphenyl)-1,3,4-oxadiazole. Liquid Crystals, 2000, 27, 131-136.	0.9	154
61	Synthesis and Characterization of Poly(p-phenylene)s with Nonlinear Optical Side Chains. Macromolecules, 2000, 33, 2355-2358.	2.2	17
62	Tilt, polarity, and spontaneous symmetry breaking in liquid crystals. Physical Review E, 1998, 57, R4875-R4878.	0.8	22
63	Quantitative calculation of spontaneous polarization in ferroelectric liquid crystals. Journal of Chemical Physics, 1997, 107, 4061-4069.	1.2	17
64	Spontaneous Polarization in Tilted Smectics. Molecular Crystals and Liquid Crystals, 1997, 292, 265-276.	0.3	4
65	Photoinduced graft polymerization of styrene onto polypropylene substrates. Journal of Applied Polymer Science, 1997, 64, 883-889.	1.3	27
66	Photoinduced graft polymerization of styrene onto polypropylene substrates. , 1997, 64, 883.		1
67	Shape-Dominated Ordering in Nematic Solvents. A Deuterium NMR Study of Cycloalkane Solutes. Journal of the American Chemical Society, 1996, 118, 2226-2234.	6.6	51
68	Thermally stable nonlinear optical activity in a smectic-A liquid crystal. Nature, 1996, 384, 244-247.	13.7	14
69	Multilayered crystalline structures and liquid crystalline phases in a mesogen with siloxane tails. Liquid Crystals, 1995, 19, 557-563.	0.9	12
70	Orientation Behavior of Thermoplastic Elastomers Studied by <sup>2</sup> H-NMR Spectroscopy. ACS Symposium Series, 1995, , 190-203.	0.5	2
71	Behavior of rigid macromolecules in self-assembly at an interface. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 1992, 10, 2775-2782.	0.9	46
72	Molecular flexibility in nematics: from alkanes to dimer mesogens. Journal of the Chemical Society, Faraday Transactions, 1992, 88, 1875.	1.7	33

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73	New thermotropic liquid crystals derived from thiophenes. <i>Liquid Crystals</i> , 1991, 9, 617-634.	0.9	102
74	Self-Assembled $\pm$ -Helical Polypeptide Films. <i>Materials Research Society Symposia Proceedings</i> , 1991, 255, 423.	0.1	29
75	Molecular flexibility and orientational ordering of nematic liquid crystals. <i>Journal of Chemical Physics</i> , 1991, 94, 2758-2772.	1.2	46
76	Alkyl chains in a nematic field. 2. Temperature and chain length dependence of orientational ordering. <i>The Journal of Physical Chemistry</i> , 1990, 94, 4694-4700.	2.9	48
77	Study of a thermotropic liquid-crystalline polyester at elevated pressures. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 1990, 28, 189-202.	2.4	14
78	Alkyl chains in a nematic field. 1. A treatment of conformer shape. <i>The Journal of Physical Chemistry</i> , 1990, 94, 4688-4694.	2.9	91
79	Chain orientation in deformed networks via NMR. <i>Makromolekulare Chemie Macromolecular Symposia</i> , 1990, 40, 109-120.	0.6	5
80	Short-range nematic-like orientational order in strained elastomers: a deuterium magnetic resonance study. <i>Macromolecules</i> , 1981, 14, 575-581.	2.2	214
81	Meeting George Gray. <i>Liquid Crystals</i> , 0, , 1-3.	0.9	0
82	Molecular engineering room-temperature bent-core nematics. <i>Liquid Crystals</i> , 0, , 1-11.	0.9	10
83	Thermodynamics of Melting in Colloids and Helium. <i>Journal of Low Temperature Physics</i> , 0, , 1.	0.6	1