

Edward T Samulski

List of Publications by Year in descending order

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83
papers

6,131
citations

117625

34
h-index

79698

73
g-index

85
all docs

85
docs citations

85
times ranked

7878
citing authors

#	ARTICLE	IF	CITATIONS
1	Continuous liquid interface production of 3D objects. <i>Science</i> , 2015, 347, 1349-1352.	12.6	1,617
2	Exfoliated Graphene Separated by Platinum Nanoparticles. <i>Chemistry of Materials</i> , 2008, 20, 6792-6797.	6.7	1,070
3	Short-range nematic-like orientational order in strained elastomers: a deuterium magnetic resonance study. <i>Macromolecules</i> , 1981, 14, 575-581.	4.8	214
4	Superhydrophobic Behavior of a Perfluoropolyether Lotus-Leaf-like Topography. <i>Langmuir</i> , 2006, 22, 8576-8580.	3.5	206
5	Fabrication and characterization of nanotubular semiconductor oxides In ₂ O ₃ and Ga ₂ O ₃ . <i>Journal of Materials Chemistry</i> , 2001, 11, 2901-2902.	6.7	171
6	Non-linear boomerang-shaped liquid crystals derived from 2,5-bis(p-hydroxyphenyl)-1,3,4-oxadiazole. <i>Liquid Crystals</i> , 2000, 27, 131-136.	2.2	154
7	Javelin-, Hockey Stick-, and Boomerang-Shaped Liquid Crystals. Structural Variations on p-Quinquephenyl. <i>Journal of Physical Chemistry B</i> , 2001, 105, 8845-8860.	2.6	151
8	Insights into the cybotactic nematic phase of bent-core molecules. <i>Soft Matter</i> , 2010, 6, 2413.	2.7	149
9	Biomimetic microlens array with antireflective "moth-eye" surface. <i>Soft Matter</i> , 2011, 7, 6404.	2.7	127
10	Alignment of nematic liquid crystals using carbon nanotube films. <i>Thin Solid Films</i> , 2006, 509, 53-57.	1.8	118
11	New thermotropic liquid crystals derived from thiophenes. <i>Liquid Crystals</i> , 1991, 9, 617-634.	2.2	102
12	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.	2.7	100
13	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
14	The elusive thermotropic biaxial nematic phase in rigid bent-core molecules. <i>Pramana - Journal of Physics</i> , 2003, 61, 231-237.	1.8	90
15	Light-trapping nano-structures in organic photovoltaic cells. <i>Journal of Materials Chemistry</i> , 2011, 21, 16293.	6.7	88
16	Electrophotonic enhancement of bulk heterojunction organic solar cells through photonic crystal photoactive layer. <i>Applied Physics Letters</i> , 2009, 94, .	3.3	73
17	Efficient Two-Step Synthesis of Biodiesel from Greases. <i>Energy & Fuels</i> , 2008, 22, 626-634.	5.1	72
18	A comparative study of poly(methyl methacrylate) and polystyrene/clay nanocomposites prepared in supercritical carbon dioxide. <i>Polymer</i> , 2006, 47, 663-671.	3.8	70

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19	Minority carrier transport length of electrodeposited Cu ₂ O in ZnO/Cu ₂ O heterojunction solar cells. <i>Applied Physics Letters</i> , 2011, 98, .	3.3	64
20	The cybotactic nematic phase of bent-core mesogens: state of the art and future developments. <i>Soft Matter</i> , 2014, 10, 7685-7691.	2.7	64
21	<i>meta-</i> Cybotaxis and nematic biaxiality. <i>Liquid Crystals</i> , 2010, 37, 669-678.	2.2	62
22	Extraordinary Magnetic Field Effect in Bent-Core Liquid Crystals. <i>Physical Review Letters</i> , 2011, 107, 207801.	7.8	62
23	Uniaxial to biaxial nematic phase transition in a bent-core thermotropic liquid crystal by polarising microscopy. <i>Liquid Crystals</i> , 2012, 39, 19-23.	2.2	60
24	In Situ Polymerization of Poly(methyl methacrylate)/Clay Nanocomposites in Supercritical Carbon Dioxide. <i>Macromolecules</i> , 2005, 38, 7967-7971.	4.8	58
25	Shape-Dominated Ordering in Nematic Solvents. A Deuterium NMR Study of Cycloalkane Solutes. <i>Journal of the American Chemical Society</i> , 1996, 118, 2226-2234.	13.7	51
26	New mesogens with cubic phases: hydrogen-bonded bipyridines and siloxane-containing benzoic acids II. Structural studies. <i>Liquid Crystals</i> , 2000, 27, 1463-1471.	2.2	49
27	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
28	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
29	Molecular flexibility and orientational ordering of nematic liquid crystals. <i>Journal of Chemical Physics</i> , 1991, 94, 2758-2772.	3.0	46
30	Behavior of rigid macromolecules in self-assembly at an interface. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 1992, 10, 2775-2782.	2.1	46
31	New All-Aromatic Liquid Crystal Architectures. <i>Chemistry of Materials</i> , 2008, 20, 3821-3831.	6.7	43
32	Minimizing interfacial losses in inverted organic solar cells comprising Al-doped ZnO. <i>Applied Physics Letters</i> , 2012, 100, .	3.3	41
33	In situ fabrication of dispersed, crystalline platinum nanoparticles embedded in carbon nanofibers. <i>Chemical Physics Letters</i> , 2004, 398, 505-510.	2.6	37
34	Evidence of Biaxial Order in the Cybotactic Nematic Phase of Bent-Core Mesogens. <i>Chemistry of Materials</i> , 2014, 26, 4671-4674.	6.7	37
35	Interplay between Bimolecular Recombination and Carrier Transport Distances in Bulk Heterojunction Organic Solar Cells. <i>Advanced Energy Materials</i> , 2012, 2, 477-486.	19.5	36
36	The biaxial nematic phase of oxadiazole biphenol mesogens. <i>Liquid Crystals</i> , 2013, 40, 1655-1677.	2.2	36

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37	SWCNT Induced Crystallization in an Amorphous All-Aromatic Poly(ether imide). <i>Macromolecules</i> , 2013, 46, 1492-1503.	4.8	34
38	Molecular flexibility in nematics: from alkanes to dimer mesogens. <i>Journal of the Chemical Society, Faraday Transactions</i> , 1992, 88, 1875.	1.7	33
39	New mesogens with cubic phases: hydrogen-bonded bipyridines and siloxane-containing benzoic acids I. Preparation and phase behaviour. <i>Liquid Crystals</i> , 2000, 27, 1457-1462.	2.2	33
40	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.	2.1	32
41	Self-Assembled $\hat{\pm}$ -Helical Polypeptide Films. <i>Materials Research Society Symposia Proceedings</i> , 1991, 255, 423.	0.1	29
42	Electric field effect on the phase diagram of a bent-core liquid crystal. <i>Soft Matter</i> , 2013, 9, 6475.	2.7	29
43	Photoinduced graft polymerization of styrene onto polypropylene substrates. <i>Journal of Applied Polymer Science</i> , 1997, 64, 883-889.	2.6	27
44	Nonideal parasitic resistance effects in bulk heterojunction organic solar cells. <i>Journal of Applied Physics</i> , 2010, 108, 084514.	2.5	25
45	The twist bend nematic: a case of mistaken identity. <i>Liquid Crystals</i> , 2020, 47, 2092-2097.	2.2	24
46	Tilt, polarity, and spontaneous symmetry breaking in liquid crystals. <i>Physical Review E</i> , 1998, 57, R4875-R4878.	2.1	22
47	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.	2.2	21
48	Towards Room Temperature Biaxial Nematics. <i>Molecular Crystals and Liquid Crystals</i> , 2009, 511, 203/[1673]-217/[1687].	0.9	20
49	An achiral, anticlinic-promoting, smectic liquid crystal architecture. <i>Journal of Materials Chemistry</i> , 2004, 14, 1554.	6.7	19
50	Quantitative calculation of spontaneous polarization in ferroelectric liquid crystals. <i>Journal of Chemical Physics</i> , 1997, 107, 4061-4069.	3.0	17
51	Synthesis and Characterization of Poly(p-phenylene)s with Nonlinear Optical Side Chains. <i>Macromolecules</i> , 2000, 33, 2355-2358.	4.8	17
52	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.	2.2	17
53	Mesoporous Silica-Supported Diarylammonium Catalysts for Esterification of Free Fatty Acids in Greases. <i>JAOCS, Journal of the American Oil Chemists' Society</i> , 2010, 87, 445-452.	1.9	16
54	Analyzing local exciton generation profiles as a means to extract transport lengths in organic solar cells. <i>Physical Review B</i> , 2010, 82, .	3.2	16

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55	Study of a thermotropic liquid-crystalline polyester at elevated pressures. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 1990, 28, 189-202.	2.1	14
56	Thermally stable nonlinear optical activity in a smectic-A liquid crystal. <i>Nature</i> , 1996, 384, 244-247.	27.8	14
57	Addressing non-idealities in NMR experiments on rotating liquid crystals. <i>Liquid Crystals</i> , 2005, 32, 1419-1425.	2.2	14
58	Multilayered crystalline structures and liquid crystalline phases in a mesogen with siloxane tails. <i>Liquid Crystals</i> , 1995, 19, 557-563.	2.2	12
59	Diffusion realigned. <i>Nature Materials</i> , 2011, 10, 486-487.	27.5	12
60	Molecular engineering room-temperature bent-core nematics. <i>Liquid Crystals</i> , 0, , 1-11.	2.2	10
61	Molecular ordering in the high-temperature nematic phase of an all-aromatic liquid crystal. <i>Soft Matter</i> , 2016, 12, 2309-2314.	2.7	10
62	New Mesogenes Forming Nanophase Separated Liquid Crystalline Structure - Cubic Phase -. <i>Molecular Crystals and Liquid Crystals</i> , 2001, 364, 605-610.	0.3	8
63	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.	2.2	8
64	All Structures Great and Small: Nanoscale Modulations in Nematic Liquid Crystals. <i>Nanomaterials</i> , 2022, 12, 93.	4.1	8
65	Suppression of bimolecular recombination by UV-sensitive electron transport layers in organic solar cells. <i>Journal of Applied Physics</i> , 2010, 108, 083101.	2.5	7
66	Chain orientation in deformed networks via NMR. <i>Makromolekulare Chemie Macromolecular Symposia</i> , 1990, 40, 109-120.	0.6	5
67	Spontaneous Polarization in Tilted Smectics. <i>Molecular Crystals and Liquid Crystals</i> , 1997, 292, 265-276.	0.3	4
68	Balance between light trapping and charge carrier collection: Electro-photonics optimization of organic photovoltaics with ridge-patterned back electrodes. <i>Journal of Applied Physics</i> , 2013, 113, 244503.	2.5	4
69	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.	4.6	4
70	Orientation Behavior of Thermoplastic Elastomers Studied by ² H-NMR Spectroscopy. <i>ACS Symposium Series</i> , 1995, , 190-203.	0.5	2
71	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.	0.9	2
72	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.	2.6	2

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73	The mesomorphic state. , 2004, , 316-380.		2
74	Professor Walter Kauzmann in the late 1960s: how a chance conversation resulted in a thesis chapter, and his simple perspective on polywater. Biophysical Chemistry, 2003, 105, 173-174.	2.8	1
75	Uniform Alignment of Liquid Crystals Induced by Perfluoropolyether Film Exposed to Linearly Polarized Ultraviolet Light. Molecular Crystals and Liquid Crystals, 2010, 516, 38-44.	0.9	1
76	The meaning of collaboration. Journal of Magnetic Resonance, 2012, 218, 164-166.	2.1	1
77	Photoinduced graft polymerization of styrene onto polypropylene substrates. , 1997, 64, 883.		1
78	Thermodynamics of Melting in Colloids and Helium. Journal of Low Temperature Physics, 0, , 1.	1.4	1
79	Sol-gel Template Synthesis and Liquid CO ₂ Developed TiO ₂ /CdS Composite Nanowire Arrays. Materials Research Society Symposia Proceedings, 2002, 737, 421.	0.1	0
80	News of MRS Members/Materials Researchers. MRS Bulletin, 2007, 32, 689-689.	3.5	0
81	Electro-optical model of photonic crystal bulk heterojunction organic solar cells. , 2010, , .		0
82	The night I danced with Al Saupe. A reflection. Liquid Crystals, 2010, 37, 625-626.	2.2	0
83	Meeting George Gray. Liquid Crystals, 0, , 1-3.	2.2	0