

Charl F J Faul

List of Publications by Year in descending order

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120
papers

6,284
citations

61984

43
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74163

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128
all docs

128
docs citations

128
times ranked

6751
citing authors

#	ARTICLE	IF	CITATIONS
1	Ionic Self-Assembly: Facile Synthesis of Supramolecular Materials. <i>Advanced Materials</i> , 2003, 15, 673-683.	21.0	721
2	Highly Efficient and Reversible Iodine Capture in Hexaphenylbenzene-Based Conjugated Microporous Polymers. <i>Macromolecules</i> , 2016, 49, 6322-6333.	4.8	307
3	Ionic Self-Assembly for Functional Hierarchical Nanostructured Materials. <i>Accounts of Chemical Research</i> , 2014, 47, 3428-3438.	15.6	219
4	Highly Photoluminescent Polyoxometaloeuropate-Surfactant Complexes by Ionic Self-Assembly. <i>Chemistry - A European Journal</i> , 2005, 11, 1001-1009.	3.3	159
5	Fluorescent Microporous Polyimides Based on Perylene and Triazine for Highly CO ₂ -Selective Carbon Materials. <i>Macromolecules</i> , 2015, 48, 2064-2073.	4.8	147
6	Organized Nanostructured Complexes of Polyoxometalates and Surfactants that Exhibit Photoluminescence and Electrochromism. <i>Advanced Functional Materials</i> , 2009, 19, 642-652.	14.9	141
7	Conjugated Microporous Polycarbazole Networks as Precursors for Nitrogen-Enriched Microporous Carbons for CO ₂ Storage and Electrochemical Capacitors. <i>Chemistry of Materials</i> , 2017, 29, 4885-4893.	6.7	140
8	Aniline Oligomers – Architecture, Function and New Opportunities for Nanostructured Materials. <i>Macromolecular Rapid Communications</i> , 2008, 29, 280-292.	3.9	139
9	Nitrogen-Rich Conjugated Microporous Polymers: Facile Synthesis, Efficient Gas Storage, and Heterogeneous Catalysis. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 38390-38400.	8.0	131
10	A Supramolecular Approach to Optically Anisotropic Materials: Photosensitive Ionic Self-Assembly Complexes. <i>Advanced Materials</i> , 2006, 18, 2133-2136.	21.0	125
11	Uniform electroactive fibre-like micelle nanowires for organic electronics. <i>Nature Communications</i> , 2017, 8, 15909.	12.8	120
12	Modulating helicity through amphiphilicity tuning supramolecular interactions for the controlled assembly of perylenes. <i>Chemical Communications</i> , 2011, 47, 5554-5556.	4.1	112
13	Hydrogen-Bonded Polymer Azobenzene Complexes: Enhanced Photoinduced Birefringence with High Temporal Stability through Interplay of Intermolecular Interactions. <i>Chemistry of Materials</i> , 2008, 20, 6358-6363.	6.7	111
14	Conjugated microporous polymers for energy storage: Recent progress and challenges. <i>Nano Energy</i> , 2021, 85, 105958.	16.0	110
15	Tunable Surface Area, Porosity, and Function in Conjugated Microporous Polymers. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 11715-11719.	13.8	109
16	Induced Supramolecular Chirality in Nanostructured Materials: Ionic Self-Assembly of Perylene-Chiral Surfactant Complexes. <i>Chemistry of Materials</i> , 2006, 18, 1839-1847.	6.7	108
17	Self-Assembled Sugar-Substituted Perylene Diimide Nanostructures with Homochirality and High Gas Sensitivity. <i>Advanced Functional Materials</i> , 2012, 22, 4149-4158.	14.9	107
18	Conjugated microporous polytriphenylamine networks. <i>Chemical Communications</i> , 2014, 50, 8002-8005.	4.1	101

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19	Helical supramolecular aggregates, mesoscopic organisation and nanofibers of a perylenebisimide-chiral surfactant complex via ionic self-assembly. <i>Journal of Materials Chemistry</i> , 2009, 19, 2356.	6.7	96
20	Molecular engineering of polymeric supra-amphiphiles. <i>Chemical Society Reviews</i> , 2019, 48, 989-1003.	38.1	90
21	Self-Assembly and Electrical Conductivity Transitions in Conjugated Oligoaniline-Surfactant Complexes. <i>Angewandte Chemie - International Edition</i> , 2005, 44, 751-756.	13.8	81
22	Uniform α -Patchy-Platelets by Seeded Heteroepitaxial Growth of Crystallizable Polymer Blends in Two Dimensions. <i>Journal of the American Chemical Society</i> , 2017, 139, 4409-4417.	13.7	78
23	Alignment of a Perylene-Based Ionic Self-Assembly Complex in Thermotropic and Lyotropic Liquid-Crystalline Phases. <i>Advanced Functional Materials</i> , 2004, 14, 835-841.	14.9	77
24	Facile Synthesis of Optically Functional, Highly Organized Nanostructures: Dye-Surfactant Complexes. <i>Chemistry - A European Journal</i> , 2002, 8, 2764.	3.3	76
25	Local and macroscopic electrostatic interactions in single \pm -helices. <i>Nature Chemical Biology</i> , 2015, 11, 221-228.	8.0	72
26	Effect of Extraction Procedure on Measured Sugar Concentrations in Onion (<i>Allium cepa</i> L.) Bulbs. <i>Journal of Agricultural and Food Chemistry</i> , 2007, 55, 4299-4306.	5.2	71
27	Ionic Self-Assembly of Dye-Surfactant Complexes: Influence of Tail Lengths and Dye Architecture on the Phase Morphology. <i>Langmuir</i> , 2002, 18, 5939-5945.	3.5	70
28	Functional block-like structures from electroactive tetra(aniline) oligomers. <i>Journal of Materials Chemistry</i> , 2011, 21, 18137.	6.7	67
29	Synthesis of Supramolecular Polymers by Ionic Self-Assembly of Oppositely Charged Dyes. <i>Chemistry - A European Journal</i> , 2005, 11, 1305-1311.	3.3	66
30	Chiral Perylene Diimides: Building Blocks for Ionic Self-Assembly. <i>Chemistry - A European Journal</i> , 2015, 21, 5118-5128.	3.3	66
31	A crosslinking alkylation strategy to construct nitrogen-enriched tetraphenylmethane-based porous organic polymers as efficient carbon dioxide and iodine adsorbents. <i>Chemical Engineering Journal</i> , 2020, 382, 122998.	12.7	65
32	Bioinspired supramolecular liquid crystals. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2006, 364, 2709-2719.	3.4	64
33	Induced Liquid Crystallinity in Switchable Side-Chain Discotic Molecules. <i>Chemistry of Materials</i> , 2004, 16, 3867-3871.	6.7	63
34	Perylenediimide-surfactant complexes: thermotropic liquid-crystalline materials via ionic self-assembly. Electronic supplementary information (ESI) available: $^1\text{H-NMR}$, IR, UV and fluorescence spectra of 1. See http://www.rsc.org/suppdata/cc/b2/b211753c/ . <i>Chemical Communications</i> , 2003, , 894-895.	4.1	59
35	Redox-Active, Organometallic Surface-Relief Gratings from Azobenzene-Containing Polyferrocenylsilane Block Copolymers. <i>Advanced Materials</i> , 2012, 24, 926-931.	21.0	59
36	Surface-Relief Gratings and Stable Birefringence Inscribed Using Light of Broad Spectral Range in Supramolecular Polymer-Bisazobenzene Complexes. <i>Journal of Physical Chemistry C</i> , 2012, 116, 2363-2370.	3.1	57

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37	Self-Assembly of a Functional Oligo(Aniline)-Based Amphiphile into Helical Conductive Nanowires. <i>Journal of the American Chemical Society</i> , 2015, 137, 14288-14294.	13.7	57
38	Conjugated Microporous Polymer Network Grafted Carbon Nanotube Fibers with Tunable Redox Activity for Efficient Flexible Wearable Energy Storage. <i>Chemistry of Materials</i> , 2020, 32, 8276-8285.	6.7	57
39	Towards functional nanostructures: Ionic self-assembly of polyoxometalates and surfactants. <i>Current Opinion in Colloid and Interface Science</i> , 2009, 14, 62-70.	7.4	56
40	Combination of ionic self-assembly and hydrogen bonding as a tool for the synthesis of liquid-crystalline materials and organogelators from a simple building block Electronic supplementary information (ESI) available: IR, NMR, DSC and TGA data of the organic core and complexes. See http://www.rsc.org/suppdata/cc/b3/b303552b/ . <i>Chemical Communications</i> , 2003, , 1958.	4.1	51
41	Reversible light-induced critical separation. <i>Soft Matter</i> , 2009, 5, 78-80.	2.7	47
42	Uniform Polyselenophene Block Copolymer Fiberlike Micelles and Block Co-micelles via Living Crystallization-Driven Self-Assembly. <i>Macromolecules</i> , 2018, 51, 1002-1010.	4.8	46
43	Delineating Poly(Aniline) Redox Chemistry by Using Tailored Oligo(Aryleneamine)s: Towards Oligo(Aniline)-Based Organic Semiconductors with Tunable Optoelectronic Properties. <i>Chemistry - A European Journal</i> , 2011, 17, 12512-12521.	3.3	45
44	Structured oligo(aniline) nanofilms via ionic self-assembly. <i>Soft Matter</i> , 2012, 8, 2824-2832.	2.7	42
45	Living Supramolecular Polymerisation of Perylene Diimide Amphiphiles by Seeded Growth under Kinetic Control. <i>Chemistry - A European Journal</i> , 2018, 24, 15556-15565.	3.3	42
46	Supramolecular Polymerization from Controllable Fabrication to Living Polymerization. <i>Macromolecular Rapid Communications</i> , 2017, 38, 1700312.	3.9	41
47	Light-Triggered Soft Artificial Muscles: Molecular-Level Amplification of Actuation Control Signals. <i>Scientific Reports</i> , 2017, 7, 9197.	3.3	41
48	Copper-Metallomesogen Structures Obtained by Ionic Self-Assembly (ISA): Molecular Electromechanical Switching Driven by Cooperativity. <i>Chemistry - A European Journal</i> , 2003, 9, 3764-3771.	3.3	39
49	Self-Assembled Polymeric Supramolecular Frameworks. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 2516-2520.	13.8	39
50	Opportunities in High-Speed Atomic Force Microscopy. <i>Small</i> , 2013, 9, 3201-3211.	10.0	39
51	Controlling the self-assembly of cationic bolaamphiphiles: counterion-directed transitions from 0D/1D to exclusively 2D planar structures. <i>Chemical Science</i> , 2013, 4, 4486.	7.4	37
52	Photoinduction of optical anisotropy in an azobenzene-containing ionic self-assembly liquid-crystalline material. <i>Physical Review E</i> , 2007, 75, 031703.	2.1	35
53	Tetragonal and Helical Morphologies from Polyferrocenylsilane Block Polyelectrolytes via Ionic Self-Assembly. <i>Journal of the American Chemical Society</i> , 2013, 135, 2455-2458.	13.7	35
54	Solid state nanofibers based on self-assemblies: from cleaving from self-assemblies to multilevel hierarchical constructs. <i>Faraday Discussions</i> , 2009, 143, 95.	3.2	34

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55	Helically structured metal-organic frameworks fabricated by using supramolecular assemblies as templates. <i>Chemical Science</i> , 2015, 6, 1910-1916.	7.4	34
56	Organized Nanostructured Complexes of Inorganic Clusters and Surfactants That Exhibit Thermal Solid-State Transformations. <i>Chemistry - A European Journal</i> , 2003, 9, 2160-2166.	3.3	32
57	Fibrillar Constructs from Multilevel Hierarchical Self-Assembly of Discotic and Calamitic Supramolecular Motifs. <i>Advanced Functional Materials</i> , 2008, 18, 2041-2047.	14.9	32
58	Self-assembly and pH response of electroactive liquid core-tetra(aniline) shell microcapsules. <i>Journal of Materials Chemistry B</i> , 2014, 2, 4720.	5.8	32
59	Exploiting Hansen solubility parameters to tune porosity and function in conjugated microporous polymers. <i>Journal of Materials Chemistry A</i> , 2020, 8, 22657-22665.	10.3	32
60	Luminescent and Swellable Conjugated Microporous Polymers for Detecting Nitroaromatic Explosives and Removing Harmful Organic Vapors. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 48352-48362.	8.0	31
61	Toward Direct Laser Writing of Actively Tuneable 3D Photonic Crystals. <i>Advanced Optical Materials</i> , 2017, 5, 1600458.	7.3	30
62	Surface controlled pseudo-capacitive reactions enabling ultra-fast charging and long-life organic lithium ion batteries. <i>Sustainable Energy and Fuels</i> , 2020, 4, 4179-4185.	4.9	30
63	Block-like electroactive oligo(aniline)s: anisotropic structures with anisotropic function. <i>Journal of Materials Chemistry</i> , 2012, 22, 16230.	6.7	29
64	Conductive, Monodisperse Polyaniline Nanofibers of Controlled Length Using Well-Defined Cylindrical Block Copolymer Micelles as Templates. <i>Chemistry - A European Journal</i> , 2013, 19, 13030-13039.	3.3	28
65	Self-assembly of tetra(aniline) nanowires in acidic aqueous media with ultrasonic irradiation. <i>Journal of Materials Chemistry C</i> , 2015, 3, 11945-11952.	5.5	27
66	Solid-state nanostructure of PAMAM dendrimer-fluorosurfactant complexes and nanoparticles synthesis within the ionic subphase. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2003, 212, 115-121.	4.7	26
67	Highly ordered monodomain ionic self-assembled liquid-crystalline materials. <i>Physical Review E</i> , 2005, 71, 021701.	2.1	25
68	DNA-analogous structures from deoxynucleophosphates and polylysine by ionic self-assembly. <i>Soft Matter</i> , 2006, 2, 329.	2.7	25
69	Macroscopically Aligned Ionic Self-Assembled Perylene-Surfactant Complexes within a Polymer Matrix. <i>Advanced Functional Materials</i> , 2008, 18, 1890-1897.	14.9	24
70	Ionic self-assembled molecular receptor-based liquid crystals with tripeptide recognition capabilities. <i>Journal of Materials Chemistry</i> , 2008, 18, 2962.	6.7	24
71	Bolaamphiphiles Bearing Bipyridine as Mesogenic Core: Rational Exploitation of Molecular Architectures for Controlled Self-Assembly. <i>Langmuir</i> , 2012, 28, 5023-5030.	3.5	24
72	Oligo(aniline) nanofilms: from molecular architecture to microstructure. <i>Soft Matter</i> , 2013, 9, 10501.	2.7	24

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73	Redox-active mesomorphic complexes from the ionic self-assembly of cationic polyferrocenylsilane polyelectrolytes and anionic surfactants. <i>Soft Matter</i> , 2011, 7, 10462.	2.7	23
74	Hierarchical Organometallic Materials: Self-Assembly of Organic-Organometallic Polyferrocenylsilane Block Polyelectrolyte-Surfactant Complexes in Bulk and in Thin Films. <i>Macromolecules</i> , 2011, 44, 9324-9334.	4.8	23
75	Crosslinked porous polyimides: structure, properties and applications. <i>Polymer Chemistry</i> , 2021, 12, 6494-6514.	3.9	23
76	Influence of solvent polarity on the structure of drop-cast electroactive tetra(aniline)-surfactant thin films. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 24498-24505.	2.8	22
77	Chiral Perylene Materials by Ionic Self-Assembly. <i>Langmuir</i> , 2016, 32, 9023-9032.	3.5	21
78	Polymerization of the Organized Phases of Polyelectrolyte-Surfactant Complexes. <i>Langmuir</i> , 2003, 19, 6561-6565.	3.5	19
79	Calix[4]resorcinarene-surfactant complexes: formulation, structure and potential sensor applications. <i>Soft Matter</i> , 2009, 5, 2746.	2.7	19
80	1D Self-Assembly and Ice Recrystallization Inhibition Activity of Antifreeze Glycopeptide-Functionalized Perylene Bisimides. <i>Chemistry - A European Journal</i> , 2018, 24, 7834-7839.	3.3	19
81	An addressable packing parameter approach for reversibly tuning the assembly of oligo(aniline)-based supra-amphiphiles. <i>Chemical Science</i> , 2018, 9, 4392-4401.	7.4	18
82	Azobenzene isomerization in condensed matter: lessons for the design of efficient light-responsive soft-matter systems. <i>Materials Advances</i> , 2021, 2, 4152-4164.	5.4	18
83	Linear and Branched Fiber-like Micelles from the Crystallization-Driven Self-Assembly of Heterobimetallic Block Copolymer Polyelectrolyte/Surfactant Complexes. <i>Macromolecules</i> , 2019, 52, 7289-7300.	4.8	17
84	Directed Reactions within Confined Reaction Environments: Polyadditions in Polyelectrolyte-Surfactant Complexes. <i>Macromolecules</i> , 2003, 36, 2862-2866.	4.8	16
85	Langmuir and LB properties of two calix[4]resorcinarenes: Interactions with various analytes. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2008, 321, 43-46.	4.7	16
86	Double Smectic Self-Assembly in Block Copolypeptide Complexes. <i>Biomacromolecules</i> , 2012, 13, 3572-3580.	5.4	16
87	Tuning structure and function in tetra(aniline)-based rod-coil-rod architectures. <i>Journal of Materials Chemistry C</i> , 2013, 1, 6428.	5.5	16
88	Synthesis and Phase Characterization of a Double-Tailed Pyrrole-Containing Surfactant: A Novel Tecton for the Production of Functional Nanostructured Materials. <i>Langmuir</i> , 2005, 21, 2704-2712.	3.5	15
89	Exploring Redox States, Doping and Ordering of Electroactive Star-Shaped Oligo(aniline)s. <i>Chemistry - A European Journal</i> , 2016, 22, 16950-16956.	3.3	15
90	Controlling the Thermoelectric Properties of Organometallic Coordination Polymers via Ligand Design. <i>Advanced Functional Materials</i> , 2020, 30, 2003106.	14.9	15

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91	Directed Polymerization in Mesophases of Polyelectrolyte-Surfactant Complexes. <i>Langmuir</i> , 2001, 17, 2031-2035.	3.5	14
92	Graphene oxide as a template for a complex functional oxide. <i>CrystEngComm</i> , 2015, 17, 6094-6097.	2.6	14
93	Tunable Surface Area, Porosity, and Function in Conjugated Microporous Polymers. <i>Angewandte Chemie</i> , 2019, 131, 11841-11845.	2.0	14
94	Design and Control of Perylene Supramolecular Polymers through Imide Substitutions. <i>Chemistry - A European Journal</i> , 2022, 28, .	3.3	14
95	Efficient and Controlled Seeded Growth of Poly(3-hexylthiophene) Block Copolymer Nanofibers through Suppression of Homogeneous Nucleation. <i>Macromolecules</i> , 2021, 54, 11269-11280.	4.8	14
96	Effect of Double-Tailed Surfactant Architecture on the Conformation, Self-Assembly, and Processing in Polypeptide-Surfactant Complexes. <i>Biomacromolecules</i> , 2009, 10, 2787-2794.	5.4	13
97	Conductive AFM Patterning of Organic Semiconductors. <i>Small</i> , 2015, 11, 5054-5058.	10.0	13
98	Metal-free Synthesis of Pyridyl Conjugated Microporous Polymers for Photocatalytic Hydrogen Evolution. <i>Chinese Journal of Polymer Science (English Edition)</i> , 2021, 39, 1004-1012.	3.8	13
99	Lysophosphatidic acid-functionalised titanium as a superior surface for supporting human osteoblast (MG63) maturation. , 2012, 23, 348-361.		13
100	Laser-Scribed Graphene Oxide Electrodes for Soft Electroactive Devices. <i>Advanced Materials Technologies</i> , 2019, 4, 1800232.	5.8	12
101	Liquid-Crystalline Materials by the Ionic Self-Assembly Route. <i>Molecular Crystals and Liquid Crystals</i> , 2006, 450, 55/[255]-65/[265].	0.9	11
102	Imaging the Predicted Isomerism of Oligo(aniline)s: A Scanning Tunneling Microscopy Study. <i>Small</i> , 2015, 11, 3430-3434.	10.0	11
103	Nucleotide-Based Templates for Nanoparticle Production Exploiting Multiple Noncovalent Interactions. <i>Chemistry of Materials</i> , 2009, 21, 3270-3274.	6.7	10
104	Effect of Chain Length on the Interaction between Modified Organic Salts Containing Hydrocarbon Chains and Poly(N-isopropylacrylamide-co-acrylic acid) Microgel Particles. <i>Langmuir</i> , 2011, 27, 4362-4370.	3.5	9
105	Macrocyclic Amine-Linked Oligocarbazole Hollow Microspheres: Facile Synthesis and Efficient Lead Sorbents. <i>Macromolecular Rapid Communications</i> , 2014, 35, 1833-1839.	3.9	8
106	Electroactive Amphiphiles for Addressable Supramolecular Nanostructures. <i>ChemNanoMat</i> , 2018, 4, 741-752.	2.8	8
107	Structural relationships for the design of responsive azobenzene-based lyotropic liquid crystals. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 4086-4095.	2.8	8
108	Surface Patterning of Uniform 2D Platelet Block Comicelles via Coronal Chain Collapse. <i>ACS Macro Letters</i> , 2020, 9, 1514-1520.	4.8	7

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109	Tipping the polaronâ€“bipolaron balance: concentration and spin effects in doped oligo(aniline)s observed by UV-vis-NIR and TD-DFT. <i>Molecular Systems Design and Engineering</i> , 2019, 4, 103-109.	3.4	6
110	A Pyrrole-Containing Surfactant as a Tecton for Nanocomposite SiO2 Films. <i>Langmuir</i> , 2007, 23, 11273-11280.	3.5	5
111	3D printing with light: towards additive manufacturing of soft, electroactive structures. , 2018, , .		5
112	Thionated PDI supramolecular polymers: controlling aggregation mechanisms, morphology and function. <i>Journal of Materials Chemistry C</i> , 2022, 10, 2828-2837.	5.5	4
113	Bis[trimethyl(tetradecyl)ammonium] 7-hydroxy-8-phenyldiazenyl-7,8-dihydronaphthalene-1,3-disulfonate 1.8-hydrate: ionic self-assembly. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2004, 60, o1769-o1772.	0.2	2
114	Structureâ€“function relationship in optically and electronically active ISA materials. <i>Synthetic Metals</i> , 2004, 147, 63-65.	3.9	2
115	Modelling and Analysis of pH Responsive Hydrogels for the Development of Biomimetic Photo-Actuating Structures. <i>Materials Research Society Symposia Proceedings</i> , 2015, 1718, 65-70.	0.1	2
116	Monolayer behavior of calix-4-resorcinarenes and their surfactant complexes. <i>Thin Solid Films</i> , 2012, 520, 6989-6993.	1.8	1
117	Biomimetic photo-actuation: progress and challenges. , 2016, , .		1
118	Frontispiece: Design and Control of Perylene Supramolecular Polymers through Imide Substitutions. <i>Chemistry - A European Journal</i> , 2022, 28, .	3.3	1
119	Scanning Tunneling Microscopy: Imaging the Predicted Isomerism of Oligo(aniline)s: A Scanning Tunneling Microscopy Study (<i>Small</i> 28/2015). <i>Small</i> , 2015, 11, 3429-3429.	10.0	0
120	Soft Photochemical Actuation Systems: Tuning Performance Through Solvent Selection. , 2017, , .		0