

Timothy M Swager

List of Publications by Year in descending order

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545
papers

51,335
citations

1612

105
h-index

2076

204
g-index

583
all docs

583
docs citations

583
times ranked

36138
citing authors

#	ARTICLE	IF	CITATIONS
1	Chemical Sensors Based on Amplifying Fluorescent Conjugated Polymers. <i>Chemical Reviews</i> , 2007, 107, 1339-1386.	23.0	3,956
2	Conjugated Polymer-Based Chemical Sensors. <i>Chemical Reviews</i> , 2000, 100, 2537-2574.	23.0	3,565
3	Fluorescent Porous Polymer Films as TNT Chemosensors: An Electronic and Structural Effects. <i>Journal of the American Chemical Society</i> , 1998, 120, 11864-11873.	6.6	1,167
4	The Molecular Wire Approach to Sensory Signal Amplification. <i>Accounts of Chemical Research</i> , 1998, 31, 201-207.	7.6	1,090
5	Porous Shape Persistent Fluorescent Polymer Films: An Approach to TNT Sensory Materials. <i>Journal of the American Chemical Society</i> , 1998, 120, 5321-5322.	6.6	774
6	Cu ₃ (hexaiminotriphenylene) ₂ : An Electrically Conductive 2D Metal-Organic Framework for Chemiresistive Sensing. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 4349-4352.	7.2	765
7	Carbon Nanotube Chemical Sensors. <i>Chemical Reviews</i> , 2019, 119, 599-663.	23.0	732
8	Sensitivity gains in chemosensing by lasing action in organic polymers. <i>Nature</i> , 2005, 434, 876-879.	13.7	719
9	Fluorescent Chemosensors Based on Energy Migration in Conjugated Polymers: The Molecular Wire Approach to Increased Sensitivity. <i>Journal of the American Chemical Society</i> , 1995, 117, 12593-12602.	6.6	685
10	Emerging Applications of Carbon Nanotubes. <i>Chemistry of Materials</i> , 2011, 23, 646-657.	3.2	651
11	Chemiresistive Sensor Arrays from Conductive 2D Metal-Organic Frameworks. <i>Journal of the American Chemical Society</i> , 2015, 137, 13780-13783.	6.6	615
12	Discrete Intensity Jumps and Intramolecular Electronic Energy Transfer in the Spectroscopy of Single Conjugated Polymer Molecules. <i>Science</i> , 1997, 277, 1074-1077.	6.0	508
13	TOTAPOL: A Biradical Polarizing Agent for Dynamic Nuclear Polarization Experiments in Aqueous Media. <i>Journal of the American Chemical Society</i> , 2006, 128, 11385-11390.	6.6	487
14	High Frequency Dynamic Nuclear Polarization. <i>Accounts of Chemical Research</i> , 2013, 46, 1933-1941.	7.6	480
15	Control of conformational and interpolymer effects in conjugated polymers. <i>Nature</i> , 2001, 411, 1030-1034.	13.7	464
16	Fluorescent Detection of Chemical Warfare Agents: Functional Group Specific Ratiometric Chemosensors. <i>Journal of the American Chemical Society</i> , 2003, 125, 3420-3421.	6.6	450
17	Detection of Bacteria with Carbohydrate-Functionalized Fluorescent Polymers. <i>Journal of the American Chemical Society</i> , 2004, 126, 13343-13346.	6.6	436
18	Thermally Activated Delayed Fluorescence and Aggregation Induced Emission with Through-Space Charge Transfer. <i>Journal of the American Chemical Society</i> , 2017, 139, 4894-4900.	6.6	417

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19	A transferable model for singlet-fission kinetics. <i>Nature Chemistry</i> , 2014, 6, 492-497.	6.6	402
20	Iptycenes in the Design of High Performance Polymers. <i>Accounts of Chemical Research</i> , 2008, 41, 1181-1189.	7.6	380
21	Carbon Nanotube/Polythiophene Chemiresistive Sensors for Chemical Warfare Agents. <i>Journal of the American Chemical Society</i> , 2008, 130, 5392-5393.	6.6	361
22	Method for enhancing the sensitivity of fluorescent chemosensors: energy migration in conjugated polymers. <i>Journal of the American Chemical Society</i> , 1995, 117, 7017-7018.	6.6	360
23	Conjugated Amplifying Polymers for Optical Sensing Applications. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 4488-4502.	4.0	345
24	Conducting Polymetalloporphyrins: Metal Ion Mediated Enhancements in Conductivity and Charge Localization. <i>Journal of the American Chemical Society</i> , 1997, 119, 12568-12577.	6.6	343
25	A Fluorescent Self-Amplifying Wavelength-Responsive Sensory Polymer for Fluoride Ions. <i>Angewandte Chemie - International Edition</i> , 2003, 42, 4803-4806.	7.2	335
26	Conducting metallopolymers: the roles of molecular architecture and redox matching. <i>Chemical Communications</i> , 2005, , 23.	2.2	332
27	Thermally Activated Delayed Fluorescence Materials Based on Homoconjugation Effect of Donor-Acceptor Triptycenes. <i>Journal of the American Chemical Society</i> , 2015, 137, 11908-11911.	6.6	331
28	Dynamically reconfigurable complex emulsions via tunable interfacial tensions. <i>Nature</i> , 2015, 518, 520-524.	18.7	325
29	Selective Detection of Ethylene Gas Using Carbon Nanotube-Based Devices: Utility in Determination of Fruit Ripeness. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 5752-5756.	7.2	321
30	In Vivo Optical Imaging of Amyloid Aggregates in Brain: Design of Fluorescent Markers. <i>Angewandte Chemie - International Edition</i> , 2005, 44, 5452-5456.	7.2	303
31	Fluorescence Studies of Poly(p-phenyleneethynylene)s: The Effect of Anthracene Substitution. <i>The Journal of Physical Chemistry</i> , 1995, 99, 4886-4893.	2.9	301
32	Dynamic Nuclear Polarization with Biradicals. <i>Journal of the American Chemical Society</i> , 2004, 126, 10844-10845.	6.6	301
33	Directed Electrophilic Cyclizations: An Efficient Methodology for the Synthesis of Fused Polycyclic Aromatics. <i>Journal of the American Chemical Society</i> , 1997, 119, 4578-4593.	6.6	298
34	Sensory Responses in Solution vs Solid State: A Fluorescence Quenching Study of Poly(iptycenebutadiynylene)s. <i>Macromolecules</i> , 2005, 38, 9377-9384.	2.2	297
35	Designing conducting polymer-based sensors: selective ionochromic response in crown ether-containing polythiophenes. <i>Journal of the American Chemical Society</i> , 1993, 115, 12214-12215.	6.6	294
36	<i>50th Anniversary Perspective</i>: Conducting/Semiconducting Conjugated Polymers. A Personal Perspective on the Past and the Future. <i>Macromolecules</i> , 2017, 50, 4867-4886.	2.2	277

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37	A Highly Selective Fluorescent Probe for Thiol Bioimaging. <i>Organic Letters</i> , 2008, 10, 37-40.	2.4	268
38	A Poly(p-phenyleneethynylene) with a Highly Emissive Aggregated Phase. <i>Journal of the American Chemical Society</i> , 2000, 122, 8565-8566.	6.6	252
39	Synthesis and Application of Poly(phenylene Ethynylene)s for Bioconjugation: A Conjugated Polymer-Based Fluorogenic Probe for Proteases. <i>Journal of the American Chemical Society</i> , 2005, 127, 3400-3405.	6.6	247
40	Molecular Design of Free Volume as a Route to Low- ϵ Dielectric Materials. <i>Journal of the American Chemical Society</i> , 2003, 125, 14113-14119.	6.6	242
41	Synthesis of Diacetylene Macrocycles Derived from 1,2-Diethynyl Benzene Derivatives: Structure and Reactivity of the Strained Cyclic Dimer. <i>Journal of Organic Chemistry</i> , 1994, 59, 1294-1301.	1.7	241
42	Nanowire Chemical/Biological Sensors: Status and a Roadmap for the Future. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 1266-1281.	7.2	237
43	Fused Polycyclic Aromatics via Electrophile-Induced Cyclization Reactions: Application to the Synthesis of Graphite Ribbons. <i>Journal of the American Chemical Society</i> , 1994, 116, 7895-7896.	6.6	223
44	Signal Amplification of a "Turn-On" Sensor: Harvesting the Light Captured by a Conjugated Polymer. <i>Journal of the American Chemical Society</i> , 2000, 122, 12389-12390.	6.6	215
45	A Fluorescence Turn-On Mechanism to Detect High Explosives RDX and PETN. <i>Journal of the American Chemical Society</i> , 2007, 129, 7254-7255.	6.6	214
46	Columnar Liquid Crystallinity and Mechanochromism in Cationic Platinum(II) Complexes. <i>Journal of the American Chemical Society</i> , 2014, 136, 2952-2955.	6.6	210
47	Conducting Polymetalloporphyrins: A Supramolecular Approach to Transition Metal Ion Sensors. <i>Journal of the American Chemical Society</i> , 1996, 118, 8713-8714.	6.6	206
48	Ionoresistivity as a highly sensitive sensory probe: investigations of polythiophenes functionalized with calix[4]arene-based ion receptors. <i>Journal of the American Chemical Society</i> , 1995, 117, 9842-9848.	6.6	202
49	Amplifying fluorescent polymer sensors for the explosives taggant 2,3-dimethyl-2,3-dinitrobutane (DMNB). <i>Chemical Communications</i> , 2005, , 4572.	2.2	193
50	Ion-Specific Aggregation in Conjugated Polymers: Highly Sensitive and Selective Fluorescent Ion Chemosensors. <i>Angewandte Chemie - International Edition</i> , 2000, 39, 3868-3872.	7.2	187
51	Probing a Conjugated Polymer's Transfer of Organization-Dependent Properties from Solutions to Films. <i>Journal of the American Chemical Society</i> , 2006, 128, 9030-9031.	6.6	186
52	Wireless gas detection with a smartphone via rf communication. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 18162-18166.	3.3	185
53	Rigid bowl-like liquid crystals based on tungsten-oxo calix[4]arenes: host-guest effects and head-to-tail organization. <i>Journal of the American Chemical Society</i> , 1993, 115, 1159-1160.	6.6	182
54	Synthesis and Mesomorphic Properties of Rigid-Core Ionic Liquid Crystals. <i>Journal of the American Chemical Society</i> , 2007, 129, 14042-14052.	6.6	182

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55	Photoluminescence in pyridine-based polymers: Role of aggregates. <i>Physical Review B</i> , 1996, 54, 9180-9189.	1.1	178
56	Probing Substituent Effects in Aryl ^π -Aryl Interactions Using Stereoselective Diels ^π -Alder Cycloadditions. <i>Journal of the American Chemical Society</i> , 2010, 132, 3304-3311.	6.6	176
57	Three-Dimensional Electronic Delocalization in Chiral Conjugated Polymers. <i>Angewandte Chemie - International Edition</i> , 2002, 41, 4225-4230.	7.2	166
58	Electroactivity Enhancement by Redox Matching in Cobalt Salen-Based Conducting Polymers. <i>Advanced Materials</i> , 1998, 10, 1100-1104.	11.1	164
59	Oxidative Cyclization of Bis(biaryl)acetylenes: Synthesis and Photophysics of Dibenzo[g,p]chrysene-Based Fluorescent Polymers. <i>Journal of the American Chemical Society</i> , 2001, 123, 12087-12088.	6.6	164
60	High-frequency dynamic nuclear polarization using biradicals: A multifrequency EPR lineshape analysis. <i>Journal of Chemical Physics</i> , 2008, 128, 052302.	1.2	164
61	Enhanced Electrochemical Expansion of Graphite for <i>in Situ</i> Electrochemical Functionalization. <i>Journal of the American Chemical Society</i> , 2012, 134, 17896-17899.	6.6	163
62	Energy Migration in a Poly(phenylene ethynylene): Determination of Interpolymer Transport in Anisotropic Langmuir ^π -Blodgett Films. <i>Journal of the American Chemical Society</i> , 1999, 121, 1466-1472.	6.6	162
63	Anthryl-Doped Conjugated Polyelectrolytes as Aggregation-Based Sensors for Nonquenching Multicationic Analytes. <i>Journal of the American Chemical Society</i> , 2007, 129, 16020-16028.	6.6	162
64	Triptycene Polyimides: Soluble Polymers with High Thermal Stability and Low Refractive Indices. <i>Macromolecules</i> , 2011, 44, 976-980.	2.2	160
65	Single-Walled Carbon Nanotube/Metalloporphyrin Composites for the Chemiresistive Detection of Amines and Meat Spoilage. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 6554-6557.	7.2	159
66	Mechanical Drawing of Gas Sensors on Paper. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 10740-10745.	7.2	152
67	Design of conducting redox polymers: A polythiophene-Ru(bipy) ₃ ²⁺ -Hybrid Material. <i>Advanced Materials</i> , 1996, 8, 497-500.	11.1	151
68	Supercapacitors from Free-Standing Polypyrrole/Graphene Nanocomposites. <i>Journal of Physical Chemistry C</i> , 2013, 117, 10270-10276.	1.5	151
69	Multiphoton Fluorescence Quenching of Conjugated Polymers for TNT Detection. <i>Journal of Physical Chemistry C</i> , 2008, 112, 881-884.	1.5	149
70	Spray ^π -Layer ^π -by ^π -Layer Carbon Nanotube/Electrospun Fiber Electrodes for Flexible Chemiresistive Sensor Applications. <i>Advanced Functional Materials</i> , 2014, 24, 492-502.	7.8	148
71	Strained rings as a source of unsaturation: polybenzvalene, a new soluble polyacetylene precursor. <i>Journal of the American Chemical Society</i> , 1988, 110, 2973-2974.	6.6	145
72	Minimization of Internal Molecular Free Volume: A Mechanism for the Simultaneous Enhancement of Polymer Stiffness, Strength, and Ductility. <i>Macromolecules</i> , 2006, 39, 3350-3358.	2.2	145

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73	Exciplex emission in bilayer polymer light-emitting devices. <i>Applied Physics Letters</i> , 1997, 70, 1644-1646.	1.5	143
74	Design of chemoresistive sensory materials: polythiophene-based pseudopolyrotaxanes. <i>Journal of the American Chemical Society</i> , 1995, 117, 9832-9841.	6.6	141
75	Using novel fluorescent polymers as sensory materials for above-ground sensing of chemical signature compounds emanating from buried landmines. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2001, 39, 1119-1128.	2.7	141
76	Syntheses of Soluble, π -Stacking Tetracene Derivatives. <i>Organic Letters</i> , 2006, 8, 273-276.	2.4	141
77	Recent progress and perspectives of gas sensors based on vertically oriented ZnO nanomaterials. <i>Advances in Colloid and Interface Science</i> , 2019, 270, 1-27.	7.0	141
78	Rapid prototyping of carbon-based chemiresistive gas sensors on paper. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, E3265-70.	3.3	137
79	Conjugation Enhancement of Intramolecular Exciton Migration in Poly(p-phenylene ethynylene)s. <i>Journal of the American Chemical Society</i> , 2005, 127, 10083-10088.	6.6	136
80	Allosteric Fluoride Anion Recognition by a Doubly Strapped Porphyrin. <i>Angewandte Chemie - International Edition</i> , 2001, 40, 3372-3376.	7.2	135
81	How doping a cholesteric liquid crystal with polymeric dye improves an order parameter and makes possible low threshold lasing. <i>Journal of Applied Physics</i> , 2003, 94, 279-283.	1.1	134
82	Blue electroluminescent devices based on soluble poly(p π pyridine). <i>Journal of Applied Physics</i> , 1995, 78, 4264-4266.	1.1	131
83	Single-Walled Carbon Nanotube π -Metalloporphyrin Chemiresistive Gas Sensor Arrays for Volatile Organic Compounds. <i>Chemistry of Materials</i> , 2015, 27, 3560-3563.	3.2	130
84	Simultaneous Chirality Sensing of Multiple Amines by ^{19}F NMR. <i>Journal of the American Chemical Society</i> , 2015, 137, 3221-3224.	6.6	129
85	Minimization of Free Volume: Alignment of Triptycenes in Liquid Crystals and Stretched Polymers. <i>Advanced Materials</i> , 2001, 13, 601-604.	11.1	128
86	Cobalt Porphyrin Functionalized Carbon Nanotubes for Oxygen Reduction. <i>Chemistry of Materials</i> , 2009, 21, 3234-3241.	3.2	126
87	Dark-Field Oxidative Addition-Based Chemosensing: A New Bis-cyclometalated Pt(II) Complexes and Phosphorescent Detection of Cyanogen Halides. <i>Journal of the American Chemical Society</i> , 2006, 128, 16641-16648.	6.6	125
88	Improving the Performance of P3HT π -Fullerene Solar Cells with Side-Chain-Functionalized Poly(thiophene) Additives: A New Paradigm for Polymer Design. <i>ACS Nano</i> , 2012, 6, 3044-3056.	7.3	123
89	Highly Emissive Conjugated Polymer Excimers. <i>Journal of the American Chemical Society</i> , 2005, 127, 13726-13731.	6.6	121
90	Equilibrium Flexibility of a Rigid Linear Conjugated Polymer. <i>Macromolecules</i> , 1996, 29, 7323-7328.	2.2	120

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91	Two-Dimensional Conjugated Polymer Assemblies: π -Interchain Spacing for Control of Photophysics. <i>Journal of the American Chemical Society</i> , 2000, 122, 5885-5886.	6.6	120
92	Reconfigurable and responsive droplet-based compound micro-lenses. <i>Nature Communications</i> , 2017, 8, 14673.	5.8	119
93	Transition Metals in Polymeric π -Conjugated Organic Frameworks. <i>Progress in Inorganic Chemistry</i> , 2007, , 123-231.	3.0	118
94	Trace Hydrazine Detection with Fluorescent Conjugated Polymers: A Turn-On Sensory Mechanism. <i>Advanced Materials</i> , 2006, 18, 1047-1050.	11.1	116
95	Conjugated Polymer Liquid Crystal Solutions: π -Control of Conformation and Alignment. <i>Journal of the American Chemical Society</i> , 2002, 124, 9670-9671.	6.6	113
96	Fluorescent Conjugated Polymers That Incorporate Substituted 2,1,3-Benzoxadiazole and 2,1,3-Benzothiadiazole Units. <i>Macromolecules</i> , 2008, 41, 5559-5562.	2.2	113
97	Polythiophene Hybrids of Transition-Metal Bis(salicylideneimine)s: π -Correlation between Structure and Electronic Properties. <i>Journal of the American Chemical Society</i> , 1999, 121, 8825-8834.	6.6	112
98	Tuning the intermolecular dative interactions in vanadium-oxo linear chain compounds: formation of a new type of liquid crystalline polymer. <i>Journal of the American Chemical Society</i> , 1992, 114, 1887-1889.	6.6	111
99	Exciton Coupling and Dipolar Correlations in a Columnar Liquid Crystal: π -Photophysics of a Bent-Rod Hexacatenar Mesogen. <i>Journal of the American Chemical Society</i> , 2000, 122, 2474-2479.	6.6	111
100	Diverse Chemiresistors Based upon Covalently Modified Multiwalled Carbon Nanotubes. <i>Journal of the American Chemical Society</i> , 2011, 133, 11181-11193.	6.6	111
101	Poly(Pyridinium Phenylene)s: Water-Soluble N-Type Polymers. <i>Journal of the American Chemical Society</i> , 2009, 131, 17724-17725.	6.6	110
102	Tunable Columnar Mesophases Utilizing C ₂ Symmetric Aromatic Donor- π -Acceptor Complexes. <i>Journal of the American Chemical Society</i> , 2006, 128, 7995-8002.	6.6	109
103	Smart optical probes for near-infrared fluorescence imaging of Alzheimer's disease pathology. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2008, 35, 93-98.	3.3	109
104	Using π -Internal Free Volume π -to Increase Chromophore Alignment. <i>Journal of the American Chemical Society</i> , 2002, 124, 3826-3827.	6.6	108
105	Spatially and temporally resolved emission from aggregates in conjugated polymers. <i>Physical Review B</i> , 1996, 54, R3683-R3686.	1.1	106
106	A Proton-Doped Calix[4]arene-Based Conducting Polymer. <i>Journal of the American Chemical Society</i> , 2003, 125, 1142-1143.	6.6	106
107	Fabrication of Free-standing, Conductive, and Transparent Carbon Nanotube Films. <i>Advanced Materials</i> , 2008, 20, 4433-4437.	11.1	105
108	Sensory Arrays of Covalently Functionalized Single-Walled Carbon Nanotubes for Explosive Detection. <i>Advanced Functional Materials</i> , 2013, 23, 5285-5291.	7.8	105

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109	Epoxy functionalized multi-walled carbon nanotubes for improved adhesives. <i>Carbon</i> , 2013, 59, 109-120.	5.4	105
110	Light-emitting devices based on pyridine-containing conjugated polymers. <i>Synthetic Metals</i> , 1997, 85, 1179-1182.	2.1	104
111	Controlling Intermolecular Interactions between Metallomesogens: Side-Chain Effects in Discotic Copper, Palladium, and Vanadyl Bis(.beta.-Diketonates). <i>Chemistry of Materials</i> , 1995, 7, 2067-2077.	3.2	101
112	Chemiresistive Graphene Sensors for Ammonia Detection. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 16169-16176.	4.0	100
113	Pyrylium Salts via Electrophilic Cyclization: Applications for Novel 3-Arylisoquinoline Syntheses. <i>Journal of Organic Chemistry</i> , 1999, 64, 6499-6504.	1.7	99
114	Ionic Highways from Covalent Assembly in Highly Conducting and Stable Anion Exchange Membrane Fuel Cells. <i>Journal of the American Chemical Society</i> , 2019, 141, 18152-18159.	6.6	99
115	Conducting Pseudopolyrotaxanes: A Chemoresistive Response via Molecular Recognition. <i>Journal of the American Chemical Society</i> , 1994, 116, 9347-9348.	6.6	98
116	Fluorescence Sensing of Amine Vapors Using a Cationic Conjugated Polymer Combined with Various Anions. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 9792-9796.	7.2	96
117	Chemiresistive Sensor Array and Machine Learning Classification of Food. <i>ACS Sensors</i> , 2019, 4, 2101-2108.	4.0	95
118	Electroluminescent properties of self-assembled polymer thin films. <i>Advanced Materials</i> , 1995, 7, 395-398.	11.1	94
119	Host-Guest Mesomorphism: Cooperative Stabilization of a Bowlic Columnar Phase. <i>Journal of the American Chemical Society</i> , 1995, 117, 5011-5012.	6.6	93
120	Conducting redox polymers: investigations of polythiophene-Ru(bpy) ₃ ⁿ⁺ hybrid materials. <i>Journal of Materials Chemistry</i> , 1999, 9, 2123-2131.	6.7	93
121	Electrocatalytic Conducting Polymers: Oxygen Reduction by a Polythiophene-Cobalt Salen Hybrid. <i>Chemistry of Materials</i> , 2000, 12, 872-874.	3.2	92
122	Poly (p-pyridine) - and poly (p-pyridyl vinylene) -based polymers: their photophysics and application to SCALE devices. <i>Synthetic Metals</i> , 1996, 78, 253-261.	2.1	91
123	Structure-Property relationships for exciton transfer in conjugated polymers. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2011, 49, 476-498.	2.4	91
124	Solid-State Ordering and Potential Dependence of Conductivity in Poly(2,5-dialkoxy-p-phenyleneethynylene). <i>Chemistry of Materials</i> , 1995, 7, 418-425.	3.2	90
125	Shorter Exciton Lifetimes via an External Heavy-Atom Effect: Alleviating the Effects of Bimolecular Processes in Organic Light-Emitting Diodes. <i>Advanced Materials</i> , 2017, 29, 1701987.	11.1	90
126	Poly(arylene ethynylene)s in Chemosensing and Biosensing. <i>Advances in Polymer Science</i> , 0, , 151-179.	0.4	89

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127	Dynamic Nuclear Polarization with a Water-Soluble Rigid Biradical. <i>Journal of the American Chemical Society</i> , 2012, 134, 4537-4540.	6.6	89
128	Synthesis of regioregular poly(methyl pyridinium vinylene): An isoelectronic analogue to poly(phenylene vinylene). <i>Advanced Materials</i> , 1995, 7, 145-147.	11.1	88
129	Nanoscale Fibrils and Grids: Aggregated Structures from Rigid-Rod Conjugated Polymers. <i>Macromolecules</i> , 1999, 32, 1500-1507.	2.2	88
130	Three-Strand Conducting Ladder Polymers: Two-Step Electropolymerization of Metallorotaxanes. <i>Angewandte Chemie - International Edition</i> , 2000, 39, 608-612.	7.2	88
131	Detection of Ethylene Gas by Fluorescence Turn-On of a Conjugated Polymer. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 8872-8875.	7.2	87
132	Claisen Rearrangement of Graphite Oxide: A Route to Covalently Functionalized Graphenes. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 8848-8852.	7.2	87
133	Water-Soluble Narrow-Line Radicals for Dynamic Nuclear Polarization. <i>Journal of the American Chemical Society</i> , 2012, 134, 14287-14290.	6.6	87
134	Mechanochemical Synthesis of Poly(phenylene vinylenes). <i>ACS Macro Letters</i> , 2014, 3, 305-309.	2.3	87
135	Polyaniline Nanofiber Electrodes for Reversible Capture and Release of Mercury(II) from Water. <i>Journal of the American Chemical Society</i> , 2018, 140, 14413-14420.	6.6	87
136	Complementary Shapes in Columnar Liquid Crystals: Structural Control in Homo- and Heteronuclear Bimetallic Assemblies. <i>Chemistry of Materials</i> , 1994, 6, 2252-2268.	3.2	86
137	Octahedral Metallomesogens: Liquid Crystallinity in Low Aspect Ratio Materials. <i>Journal of the American Chemical Society</i> , 1994, 116, 761-762.	6.6	86
138	DNA-CNT Nanowire Networks for DNA Detection. <i>Journal of the American Chemical Society</i> , 2011, 133, 3238-3241.	6.6	86
139	Columnar mesophases from half-discoid platinum cyclometalated metallomesogens. <i>Journal of Materials Chemistry</i> , 2008, 18, 400-407.	6.7	85
140	Switchable Full-Color Reflective Photonic Ellipsoidal Particles. <i>Journal of the American Chemical Society</i> , 2020, 142, 10424-10430.	6.6	85
141	Na-Specific Emission Changes in an Ionophoric Conjugated Polymer. <i>Journal of the American Chemical Society</i> , 1998, 120, 5187-5192.	6.6	84
142	Molecular Recognition for High Selectivity in Carbon Nanotube/Polythiophene Chemiresistors. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 8394-8396.	7.2	84
143	Triptycene-Based Ladder Polymers with One-Handed Helical Geometry. <i>Journal of the American Chemical Society</i> , 2019, 141, 4696-4703.	6.6	84
144	Functionalizable Polycyclic Aromatics through Oxidative Cyclization of Pendant Thiophenes. <i>Journal of the American Chemical Society</i> , 2002, 124, 7762-7769.	6.6	83

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145	Charge-Specific Interactions in Segmented Conducting Polymers: An Approach to Selective Ionoresistive Responses. <i>Angewandte Chemie - International Edition</i> , 2004, 43, 3700-3703.	7.2	83
146	Dynamic self-correcting nucleophilic aromatic substitution. <i>Nature Chemistry</i> , 2018, 10, 1023-1030.	6.6	83
147	Fluorescent Multiblock Conjugated Polymer Nanoparticles for In Vivo Tumor Targeting. <i>Advanced Materials</i> , 2013, 25, 4504-4510.	11.1	82
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