William Dichtel

List of Publications by Year in Descending Order

188 papers	19,841 citations	70 h-index	139 g-index
250 ext. papers	23,122 ext. citations	13.2 avg, IF	7.41 L-index

#	Paper	IF	Citations
188	Arene-perfluoroarene interactions confer enhanced mechanical properties to synthetic nanotubes.. *Chemical Science*, **2022**, 13, 2475-2480	9.4	1
187	Cyclophane-based two-dimensional polymer formed by an interfacial click reaction. *Cell Reports Physical Science*, **2022**, 100806	6.1	1
186	A Semiconducting Two-dimensional Polymer as an Organic Electrochemical Transistor Active Layer.. *Advanced Materials*, **2022**, e2110703	24	4
185	Engineering of flat bands and Dirac bands in two-dimensional covalent organic frameworks (COFs): relationships among molecular orbital symmetry, lattice symmetry, and electronic-structure characteristics. *Materials Horizons*, **2021**,	14.4	6
184	Controlled n-Doping of Naphthalene Diimide-Based Two-Dimensional Polymers. *Advanced Materials* , **2021**, e2101932	24	5
183	Two-Dimensional Polymers and Polymerizations. *Chemical Reviews*, **2021**,	68.1	24
182	Solvothermal depolymerization and recrystallization of imine-linked two-dimensional covalent organic frameworks.. *Chemical Science*, **2021**, 12, 16014-16022	9.4	4
181	Identifying the physicochemical properties of Ecyclodextrin polymers that determine the adsorption of perfluoroalkyl acids.. *Water Research*, **2021**, 209, 117938	12.5	2
180	Lithium-Conducting Self-Assembled Organic Nanotubes. *Journal of the American Chemical Society*, **2021**, 143, 17655-17665	16.4	2
179	Product analysis and insight into the mechanochemical destruction of anionic PFAS with potassium hydroxide. *Journal of Hazardous Materials Advances*, **2021**, 3, 100014		1
178	Thermally conductive ultra-low-k dielectric layers based on two-dimensional covalent organic frameworks. *Nature Materials*, **2021**, 20, 1142-1148	27	30
177	Quantitative Description of the Lateral Growth of Two-Dimensional Covalent Organic Frameworks Reveals Self-Templation Effects **2021**, 3, 398-405		4
176	Two-Dimensional Covalent Organic Framework Solid Solutions. *Journal of the American Chemical Society*, **2021**, 143, 7081-7087	16.4	4
175	Diverse Proton-Conducting Nanotubes via a Tandem Macrocyclization and Assembly Strategy. *Journal of the American Chemical Society*, **2021**, 143, 8145-8153	16.4	4
174	Trends in the thermal stability of two-dimensional covalent organic frameworks. *Faraday Discussions*, **2021**, 225, 226-240	3.6	14
173	Transient Catenation in a Zirconium-Based Metal-Organic Framework and Its Effect on Mechanical Stability and Sorption Properties. *Journal of the American Chemical Society*, **2021**, 143, 1503-1512	16.4	9
172	Anisotropic Transient Disordering of Colloidal, Two-Dimensional CdSe Nanoplatelets upon Optical Excitation. *Nano Letters*, **2021**, 21, 1288-1294	11.5	4

171	Postsynthetic Modification of a Covalent Organic Framework Achieved via Strain-Promoted Cycloaddition. *Journal of the American Chemical Society*, **2021**, 143, 649-656	16.4	15
170	Polycrystalline Covalent Organic Framework Films Act as Adsorbents, Not Membranes. *Journal of the American Chemical Society*, **2021**, 143, 1466-1473	16.4	36
169	Mapping Grains, Boundaries, and Defects in 2D Covalent Organic Framework Thin Films.. *Chemistry of Materials*, **2021**, 33, 1341-1352	9.6	8
168	Dissociative Carbamate Exchange Anneals 3D Printed Acrylates. *ACS Applied Materials & Interfaces*, **2021**, 13, 38680-38687	9.5	2
167	A Naphthalene Diimide Covalent Organic Framework: Comparison of Cathode Performance in Lithium-Ion Batteries with Amorphous Cross-linked and Linear Analogues, and Its Use in Aqueous Lithium-Ion Batteries. *ACS Applied Energy Materials*, **2021**, 4, 350-356	6.1	10
166	Mechanism of Formation of Benzotrithiophene-Based Covalent Organic Framework Monolayers on Coinage-Metal Surfaces: C□ Coupling Selectivity and Monomer□Metal Interactions. *Chemistry of Materials*, **2020**, 32, 10688-10696	9.6	3
165	Electronically Coupled 2D Polymer/MoS Heterostructures. *Journal of the American Chemical Society* , **2020**, 142, 21131-21139	16.4	8
164	Exploring the factors that influence the adsorption of anionic PFAS on conventional and emerging adsorbents in aquatic matrices. *Water Research*, **2020**, 182, 115950	12.5	27
163	In Situ Grazing-Incidence Wide-Angle Scattering Reveals Mechanisms for Phase Distribution and Disorientation in 2D Halide Perovskite Films. *Advanced Materials*, **2020**, 32, e2002812	24	51
162	Increasing Poly(ethylene oxide) Stability to 4.5 V by Surface Coating of the Cathode. *ACS Energy Letters*, **2020**, 5, 826-832	20.1	91
161	Evaluating the effects of water matrix constituents on micropollutant removal by activated carbon and □cyclodextrin polymer adsorbents. *Water Research*, **2020**, 173, 115551	12.5	21
160	Reprocessing Postconsumer Polyurethane Foam Using Carbamate Exchange Catalysis and Twin-Screw Extrusion. *ACS Central Science*, **2020**, 6, 921-927	16.8	47
159	Revealing the Local Electronic Structure of a Single-Layer Covalent Organic Framework through Electronic Decoupling. *Nano Letters*, **2020**, 20, 963-970	11.5	10
158	Humidity Sensing through Reversible Isomerization of a Covalent Organic Framework. *Journal of the American Chemical Society*, **2020**, 142, 783-791	16.4	90
157	Supramolecular polymerization provides non-equilibrium product distributions of imine-linked macrocycles. *Chemical Science*, **2020**, 11, 1957-1963	9.4	11
156	Acid Exfoliation of Imine-linked Covalent Organic Frameworks Enables Solution Processing into Crystalline Thin Films. *Angewandte Chemie*, **2020**, 132, 5203-5209	3.6	15
155	Nucleation-Elongation Dynamics of Two-Dimensional Covalent Organic Frameworks. *Journal of the American Chemical Society*, **2020**, 142, 1367-1374	16.4	36
154	Acid Exfoliation of Imine-linked Covalent Organic Frameworks Enables Solution Processing into Crystalline Thin Films. *Angewandte Chemie - International Edition*, **2020**, 59, 5165-5171	16.4	76

153	Phenazine-Based Covalent Organic Framework Cathode Materials with High Energy and Power Densities. *Journal of the American Chemical Society*, **2020**, 142, 16-20	16.4	125
152	Rapid Synthesis of High Surface Area Imine-Linked 2D Covalent Organic Frameworks by Avoiding Pore Collapse During Isolation. *Advanced Materials*, **2020**, 32, e1905776	24	71
151	Evaluating the Removal of Per- and Polyfluoroalkyl Substances from Contaminated Groundwater with Different Adsorbents Using a Suspect Screening Approach. *Environmental Science and Technology Letters*, **2020**, 7, 954-960	11	14
150	New Mechanistic Insights into the Formation of Imine-Linked Two-Dimensional Covalent Organic Frameworks. *Journal of the American Chemical Society*, **2020**, 142, 18637-18644	16.4	30
149	Best Practices for Evaluating New Materials as Adsorbents for Water Treatment **2020**, 2, 1532-1544		18
148	Large Exciton Diffusion Coefficients in Two-Dimensional Covalent Organic Frameworks with Different Domain Sizes Revealed by Ultrafast Exciton Dynamics. *Journal of the American Chemical Society*, **2020**, 142, 14957-14965	16.4	25
147	Spin and Phonon Design in Modular Arrays of Molecular Qubits. *Chemistry of Materials*, **2020**, 32, 10200-10206	9.6	10
146	Reprocessable Cross-Linked Polymer Networks: Are Associative Exchange Mechanisms Desirable?. *ACS Central Science*, **2020**, 6, 1488-1496	16.8	76
145	Doping Modulation of the Charge Injection Barrier between a Covalent Organic Framework Monolayer and Graphene. *Chemistry of Materials*, **2020**, 32, 9228-9237	9.6	5
144	Incorporating Functionalized Cellulose to Increase the Toughness of Covalent Adaptable Networks. *ACS Applied Materials & Interfaces*, **2020**, 12, 44110-44116	9.5	9
143	-Cyclodextrin Polymers with Different Cross-Linkers and Ion-Exchange Resins Exhibit Variable Adsorption of Anionic, Zwitterionic, and Nonionic PFASs. *Environmental Science & Technology*, **2020**, 54, 12693-12702	10.3	22
142	Cyclodextrin Polymers with Nitrogen-Containing Tripodal Crosslinkers for Efficient PFAS Adsorption **2020**, 2, 1240-1245		26
141	High-Sensitivity Acoustic Molecular Sensors Based on Large-Area, Spray-Coated 2D Covalent Organic Frameworks. *Advanced Materials*, **2020**, 32, e2004205	24	26
140	Polymerized Molecular Receptors as Adsorbents to Remove Micropollutants from Water. *Accounts of Chemical Research*, **2020**, 53, 2314-2324	24.3	23
139	Transient Lattice Response upon Photoexcitation in CuInSe Nanocrystals with Organic or Inorganic Surface Passivation. *ACS Nano*, **2020**, 14, 13548-13556	16.7	8
138	Reducing the Pore Size of Covalent Organic Frameworks in Thin-Film Composite Membranes Enhances Solute Rejection **2019**, 1, 440-446		38
137	Improved synthesis of -ketoenamine-linked covalent organic frameworks via monomer exchange reactions. *Chemical Communications*, **2019**, 55, 2680-2683	5.8	55
136	Photoinduced, reversible phase transitions in all-inorganic perovskite nanocrystals. *Nature Communications*, **2019**, 10, 504	17.4	67

135	Mechanistic Study of Stress Relaxation in Urethane-Containing Polymer Networks. *Journal of Physical Chemistry B*, **2019**, 123, 1432-1441	3.4	59
134	Cyclodextrin Polymers on Microcrystalline Cellulose as a Granular Media for Organic Micropollutant Removal from Water. *ACS Applied Materials & Interfaces*, **2019**, 11, 8089-8096	9.5	35
133	Reduction of a Tetrafluoroterephthalonitrile-Cyclodextrin Polymer to Remove Anionic Micropollutants and Perfluorinated Alkyl Substances from Water. *Angewandte Chemie - International Edition*, **2019**, 58, 12049-12053	16.4	63
132	Reduction of a Tetrafluoroterephthalonitrile-Cyclodextrin Polymer to Remove Anionic Micropollutants and Perfluorinated Alkyl Substances from Water. *Angewandte Chemie*, **2019**, 131, 12177-12181	3.6	22
131	Defect-Triggered Phase Transition in Cesium Lead Halide Perovskite Nanocrystals **2019**, 1, 185-191		37
130	Design and synthesis of two-dimensional covalent organic frameworks with four-arm cores: prediction of remarkable ambipolar charge-transport properties. *Materials Horizons*, **2019**, 6, 1868-1876	14.4	41
129	Buckling of Two-Dimensional Covalent Organic Frameworks under Thermal Stress. *Industrial & Engineering Chemistry Research*, **2019**, 58, 9883-9887	3.9	21
128	Cross-linker Chemistry Determines the Uptake Potential of Perfluorinated Alkyl Substances by Cyclodextrin Polymers. *Macromolecules*, **2019**, 52, 3747-3752	5.5	38
127	A Dinuclear Mechanism Implicated in Controlled Carbene Polymerization. *Journal of the American Chemical Society*, **2019**, 141, 6473-6478	16.4	18
126	QSARs to predict adsorption affinity of organic micropollutants for activated carbon and cyclodextrin polymer adsorbents. *Water Research*, **2019**, 154, 217-226	12.5	32
125	Pathway Complexity in the Stacking of Imine-Linked Macrocycles Related to Two-Dimensional Covalent Organic Frameworks. *Chemistry of Materials*, **2019**, 31, 7104-7111	9.6	9
124	Cooperative Self-Assembly of Pyridine-2,6-Diimine-Linked Macrocycles into Mechanically Robust Nanotubes. *Angewandte Chemie - International Edition*, **2019**, 58, 14708-14714	16.4	15
123	Resorcinarene Cavitand Polymers for the Remediation of Halomethanes and 1,4-Dioxane. *Journal of the American Chemical Society*, **2019**, 141, 13315-13319	16.4	32
122	Reprocessing Cross-Linked Polyurethanes by Catalyzing Carbamate Exchange. *Macromolecules*, **2019**, 52, 6330-6335	5.5	46
121	Chemical Control over Nucleation and Anisotropic Growth of Two-Dimensional Covalent Organic Frameworks. *ACS Central Science*, **2019**, 5, 1892-1899	16.8	26
120	Cooperative Self-Assembly of Pyridine-2,6-Diimine-Linked Macrocycles into Mechanically Robust Nanotubes. *Angewandte Chemie*, **2019**, 131, 14850-14856	3.6	3
119	Electronic Structure of Two-Dimensional Conjugated Covalent Organic Frameworks. *Chemistry of Materials*, **2019**, 31, 3051-3065	9.6	60
118	Controlled growth of imine-linked two-dimensional covalent organic framework nanoparticles. *Chemical Science*, **2019**, 10, 3796-3801	9.4	68

117	Emissive Single-Crystalline Boroxine-Linked Colloidal Covalent Organic Frameworks. *Journal of the American Chemical Society*, **2019**, 141, 19728-19735	16.4	37
116	Efficient PFAS Removal by Amine-Functionalized Sorbents: Critical Review of the Current Literature. *Environmental Science and Technology Letters*, **2019**, 6, 688-695	11	75
115	Local Electronic Structure of Molecular Heterojunctions in a Single-Layer 2D Covalent Organic Framework. *Advanced Materials*, **2019**, 31, e1805941	24	35
114	Tetrafluoroterephthalonitrile-crosslinked Ecyclodextrin polymers for efficient extraction and recovery of organic micropollutants from water. *Journal of Chromatography A*, **2018**, 1541, 52-56	4.5	28
113	Hydrolytic Stability of Boronate Ester-Linked Covalent Organic Frameworks. *Advanced Theory and Simulations*, **2018**, 1, 1700015	3.5	31
112	Equilibration of Imine-Linked Polymers to Hexagonal Macrocycles Driven by Self-Assembly. *Chemistry - A European Journal*, **2018**, 24, 3989-3993	4.8	20
111	Lewis-Acid-Catalyzed Interfacial Polymerization of Covalent Organic Framework Films. *CheM*, **2018**, 4, 308-317	16.2	227
110	Measuring and Manipulating the Adhesion of Graphene. *Nano Letters*, **2018**, 18, 449-454	11.5	20
109	Local Electronic Structure of a Single-Layer Porphyrin-Containing Covalent Organic Framework. *ACS Nano*, **2018**, 12, 385-391	16.7	41
108	Reprocessable Acid-Degradable Polycarbonate Vitrimers. *Macromolecules*, **2018**, 51, 389-397	5.5	172
107	Seeded growth of single-crystal two-dimensional covalent organic frameworks. *Science*, **2018**, 361, 52-57	33.3	310
106	Approaches to Sustainable and Continually Recyclable Cross-Linked Polymers. *ACS Sustainable Chemistry and Engineering*, **2018**, 6, 11145-11159	8.3	196
105	High aspect ratio nanotubes assembled from macrocyclic iminium salts. *Proceedings of the National Academy of Sciences of the United States of America*, **2018**, 115, 8883-8888	11.5	21
104	Phenolation of cyclodextrin polymers controls their lead and organic micropollutant adsorption. *Chemical Science*, **2018**, 9, 8883-8889	9.4	39
103	Removal of GenX and Perfluorinated Alkyl Substances from Water by Amine-Functionalized Covalent Organic Frameworks. *Journal of the American Chemical Society*, **2018**, 140, 12677-12681	16.4	165
102	Rapidly Reprocessable Cross-Linked Polyhydroxyurethanes Based on Disulfide Exchange. *ACS Macro Letters*, **2018**, 7, 1226-1231	6.6	103
101	Diazatetracenes Derived from the Benzannulation of Acetylenes: Electronic Tuning via Substituent Effects and External Stimuli. *Journal of Organic Chemistry*, **2017**, 82, 2004-2010	4.2	15
100	Colloidal Covalent Organic Frameworks. *ACS Central Science*, **2017**, 3, 58-65	16.8	142

99	Structural effects on the reprocessability and stress relaxation of crosslinked polyhydroxyurethanes. *Journal of Applied Polymer Science*, **2017**, 134, 44984	2.9	69
98	Electrochemical Hydrogen Evolution at Ordered Mo7Ni7. *ACS Catalysis*, **2017**, 7, 3375-3383	13.1	44
97	Covalent Organic Frameworks as a Platform for Multidimensional Polymerization. *ACS Central Science*, **2017**, 3, 533-543	16.8	194
96	Rapid access to substituted 2-naphthyne intermediates the benzannulation of halogenated silylalkynes. *Chemical Science*, **2017**, 8, 5675-5681	9.4	16
95	Non-Isocyanate Polyurethane Thermoplastic Elastomer: Amide-Based Chain Extender Yields Enhanced Nanophase Separation and Properties in Polyhydroxyurethane. *Macromolecules*, **2017**, 50, 4425-4434	5.5	48
94	Benchmarking Micropollutant Removal by Activated Carbon and Porous Cyclodextrin Polymers under Environmentally Relevant Scenarios. *Environmental Science & Technology*, **2017**, 51, 7590-7598	10.3	82
93	Cyclodextrin Polymer Network Sequesters Perfluorooctanoic Acid at Environmentally Relevant Concentrations. *Journal of the American Chemical Society*, **2017**, 139, 7689-7692	16.4	184
92	Beyond Media Composition: Cell Plasma Membrane Disruptions by Graphene Oxide. *CheM*, **2017**, 2, 324-325	16.2	2
91	Rapid, Low Temperature Formation of Imine-Linked Covalent Organic Frameworks Catalyzed by Metal Triflates. *Journal of the American Chemical Society*, **2017**, 139, 4999-5002	16.4	187
90	Nucleation and Growth of Covalent Organic Frameworks from Solution: The Example of COF-5. *Journal of the American Chemical Society*, **2017**, 139, 16310-16318	16.4	83
89	Synthesis of 2D Imine-Linked Covalent Organic Frameworks through Formal Transimination Reactions. *Journal of the American Chemical Society*, **2017**, 139, 12911-12914	16.4	135
88	Development and Performance Characterization of a Polyimine Covalent Organic Framework Thin-Film Composite Nanofiltration Membrane. *Environmental Science & Technology*, **2017**, 51, 14352-14359	10.3	125
87	Alkyne Benzannulation Reactions for the Synthesis of Novel Aromatic Architectures. *Accounts of Chemical Research*, **2017**, 50, 2776-2788	24.3	80
86	Superior Charge Storage and Power Density of a Conducting Polymer-Modified Covalent Organic Framework. *ACS Central Science*, **2016**, 2, 667-673	16.8	274
85	Hybrid Supercapacitors from Framework Materials. *CheM*, **2016**, 1, 21-23	16.2	1
84	Cotton Fabric Functionalized with a Cyclodextrin Polymer Captures Organic Pollutants from Contaminated Air and Water. *Chemistry of Materials*, **2016**, 28, 8340-8346	9.6	90
83	Moving Beyond Boron: The Emergence of New Linkage Chemistries in Covalent Organic Frameworks. *Macromolecules*, **2016**, 49, 5297-5305	5.5	92
82	Discrete, Hexagonal Boronate Ester-Linked Macrocycles Related to Two-Dimensional Covalent Organic Frameworks. *Chemistry of Materials*, **2016**, 28, 4884-4888	9.6	20

81	Insight into the crystallization of amorphous imine-linked polymer networks to 2D covalent organic frameworks. *Chemical Communications*, **2016**, 52, 3690-3	5.8	240
80	Rapid removal of organic micropollutants from water by a porous β-cyclodextrin polymer. *Nature*, **2016**, 529, 190-4	50.4	1038
79	Sequence-defined oligo(-arylene) foldamers derived from the benzannulation of (arylene ethynylene)s. *Chemical Science*, **2016**, 7, 6357-6364	9.4	31
78	Ambipolar Transport in Solution-Synthesized Graphene Nanoribbons. *ACS Nano*, **2016**, 10, 4847-56	16.7	45
77	Graphene Oxide Nanosheets Stimulate Ruffling and Shedding of Mammalian Cell Plasma Membranes. *CheM*, **2016**, 1, 273-286	16.2	22
76	Two-dimensional Covalent Organic Framework Thin Films Grown in Flow. *Journal of the American Chemical Society*, **2016**, 138, 11433-6	16.4	81
75	Tetraarylborate polymer networks as single-ion conducting solid electrolytes. *Chemical Science*, **2015**, 6, 5499-5505	9.4	93
74	Growth rates and water stability of 2D boronate ester covalent organic frameworks. *Chemical Communications*, **2015**, 51, 7532-5	5.8	103
73	Real-Time, Ultrasensitive Detection of RDX Vapors Using Conjugated Network Polymer Thin Films. *Chemistry of Materials*, **2015**, 27, 3813-3816	9.6	22
72	Mechanically activated, catalyst-free polyhydroxyurethane vitrimers. *Journal of the American Chemical Society*, **2015**, 137, 14019-22	16.4	417
71	Cation-Dependent Stabilization of Electrogenerated Naphthalene Diimide Dianions in Porous Polymer Thin Films and Their Application to Electrical Energy Storage. *Angewandte Chemie*, **2015**, 127, 13423-13427	3.6	8
70	Regioselective Synthesis of Polyheterohalogenated Naphthalenes via the Benzannulation of Haloalkynes. *Chemistry - A European Journal*, **2015**, 21, 18122-7	4.8	34
69	Cation-Dependent Stabilization of Electrogenerated Naphthalene Diimide Dianions in Porous Polymer Thin Films and Their Application to Electrical Energy Storage. *Angewandte Chemie - International Edition*, **2015**, 54, 13225-9	16.4	68
68	University learning: Improve undergraduate science education. *Nature*, **2015**, 523, 282-4	50.4	91
67	Retaining the Activity of Enzymes and Fluorophores Attached to Graphene Oxide. *Chemistry of Materials*, **2015**, 27, 4499-4504	9.6	13
66	Patterned growth of oriented 2D covalent organic framework thin films on single-layer graphene. *Journal of Polymer Science Part A*, **2015**, 53, 378-384	2.5	61
65	Rapid and efficient redox processes within 2D covalent organic framework thin films. *ACS Nano*, **2015**, 9, 3178-83	16.7	247
64	Mechanistic studies of two-dimensional covalent organic frameworks rapidly polymerized from initially homogenous conditions. *Journal of the American Chemical Society*, **2014**, 136, 8783-9	16.4	178

63	Regioselective Asao-Yamamoto benzannulations of diaryl acetylenes. *Organic Letters*, **2014**, 16, 5926-9	6.2	19
62	Rapid synthesis of crowded aromatic architectures from silyl acetylenes. *Organic Letters*, **2014**, 16, 4416-9	6.2	34
61	Laser-induced sub-millisecond heating reveals distinct tertiary ester cleavage reaction pathways in a photolithographic resist polymer. *ACS Nano*, **2014**, 8, 5746-56	16.7	22
60	Functionalization of 3D covalent organic frameworks using monofunctional boronic acids. *Polymer*, **2014**, 55, 330-334	3.9	36
59	Accessing extended and partially fused hexabenzocoronenes using a benzannulation□yclodehydrogenation approach. *Chemical Science*, **2013**, 4, 3973	9.4	67
58	Noncovalent Functionalization of Graphene by Molecular and Polymeric Adsorbates. *Journal of Physical Chemistry Letters*, **2013**, 4, 2649-2657	6.4	84
57	Preservation of antibody selectivity on graphene by conjugation to a tripod monolayer. *Angewandte Chemie - International Edition*, **2013**, 52, 3177-80	16.4	35
56	Improving the binding characteristics of tripodal compounds on single layer graphene. *ACS Nano*, **2013**, 7, 7193-9	16.7	31
55	Preservation of Antibody Selectivity on Graphene by Conjugation to a Tripod Monolayer. *Angewandte Chemie*, **2013**, 125, 3259-3262	3.6	10
54	□Ketoenamine-linked covalent organic frameworks capable of pseudocapacitive energy storage. *Journal of the American Chemical Society*, **2013**, 135, 16821-4	16.4	682
53	Bulk synthesis of exfoliated two-dimensional polymers using hydrazone-linked covalent organic frameworks. *Journal of the American Chemical Society*, **2013**, 135, 14952-5	16.4	352
52	Mixed linker strategies for organic framework functionalization. *Chemistry - A European Journal*, **2013**, 19, 818-27	4.8	90
51	Postsynthetic functionalization of 3D covalent organic frameworks. *Chemical Communications*, **2013**, 49, 2457-9	5.8	95
50	A ferrocene-functionalized [2]rotaxane with two fluorophores as stoppers. *Journal of Organic Chemistry*, **2013**, 78, 2091-8	4.2	53
49	Conjugated Porous Polymers For TNT Vapor Detection.. *ACS Macro Letters*, **2013**, 2, 423-426	6.6	135
48	Direct detection of RDX vapor using a conjugated polymer network. *Journal of the American Chemical Society*, **2013**, 135, 8357-62	16.4	117
47	Rationally synthesized two-dimensional polymers. *Nature Chemistry*, **2013**, 5, 453-65	17.6	775
46	Control of the graphene-protein interface is required to preserve adsorbed protein function. *Analytical Chemistry*, **2013**, 85, 2754-9	7.8	94

45	Internal functionalization of three-dimensional covalent organic frameworks. *Angewandte Chemie - International Edition*, **2012**, 51, 1885-9	16.4	168
44	Highly Efficient Benzannulation of Poly(phenylene ethynylene)s. *Angewandte Chemie*, **2012**, 124, 12217-12220	3.6	21
43	Highly efficient benzannulation of poly(phenylene ethynylene)s. *Angewandte Chemie - International Edition*, **2012**, 51, 12051-4	16.4	50
42	Quantification of the surface diffusion of tripodal binding motifs on graphene using scanning electrochemical microscopy. *Journal of the American Chemical Society*, **2012**, 134, 6224-36	16.4	55
41	A classification scheme for the stacking of two-dimensional boronate ester-linked covalent organic frameworks. *Journal of Materials Chemistry*, **2012**, 22, 17460		55
40	PROFILE: Early Excellence in Physical Organic Chemistry. *Journal of Physical Organic Chemistry*, **2012**, 25, 529-529	2.1	
39	Single-layer MoS2 phototransistors. *ACS Nano*, **2012**, 6, 74-80	16.7	2704
38	Lattice expansion of highly oriented 2D phthalocyanine covalent organic framework films. *Angewandte Chemie - International Edition*, **2012**, 51, 2623-7	16.4	224
37	High hopes: can molecular electronics realise its potential?. *Chemical Society Reviews*, **2012**, 41, 4827-59	58.5	258
36	Lattice Expansion of Highly Oriented 2D Phthalocyanine Covalent Organic Framework Films. *Angewandte Chemie*, **2012**, 124, 2677-2681	3.6	54
35	Internal Functionalization of Three-Dimensional Covalent Organic Frameworks. *Angewandte Chemie*, **2012**, 124, 1921-1925	3.6	40
34	Thermodynamic analysis on energy densities of batteries. *Energy and Environmental Science*, **2011**, 4, 2614	35.4	634
33	Multivalent binding motifs for the noncovalent functionalization of graphene. *Journal of the American Chemical Society*, **2011**, 133, 17614-7	16.4	133
32	A 2D covalent organic framework with 4.7-nm pores and insight into its interlayer stacking. *Journal of the American Chemical Society*, **2011**, 133, 19416-21	16.4	254
31	A mechanistic study of Lewis acid-catalyzed covalent organic framework formation. *Chemical Science*, **2011**, 2, 1588-1593	9.4	116
30	A solid-state switch containing an electrochemically switchable bistable poly[n]rotaxane. *Journal of Materials Chemistry*, **2011**, 21, 1487-1495		43
29	Oriented 2D covalent organic framework thin films on single-layer graphene. *Science*, **2011**, 332, 228-31	33.3	824
28	Lewis acid-catalysed formation of two-dimensional phthalocyanine covalent organic frameworks. *Nature Chemistry*, **2010**, 2, 672-7	17.6	540

27	Alternate State Variables for Emerging Nanoelectronic Devices. *IEEE Nanotechnology Magazine*, **2009**, 8, 66-75	2.6	32
26	Complexation between methyl viologen (paraquat) bis(hexafluorophosphate) and dibenzo[24]crown-8 revisited. *Chemistry - A European Journal*, **2009**, 15, 106-16	4.8	61
25	Facile postpolymerization end-modification of RAFT polymers. *Journal of Polymer Science Part A*, **2009**, 47, 346-356	2.5	84
24	Free energy barrier for molecular motions in bistable [2]rotaxane molecular electronic devices. *Journal of Physical Chemistry A*, **2009**, 113, 2136-43	2.8	38
23	Enzyme-responsive snap-top covered silica nanocontainers. *Journal of the American Chemical Society*, **2008**, 130, 2382-3	16.4	544
22	Folding of a donor-acceptor polyrotaxane by using noncovalent bonding interactions. *Proceedings of the National Academy of Sciences of the United States of America*, **2008**, 105, 6514-9	11.5	76
21	Kinetic and thermodynamic approaches for the efficient formation of mechanical bonds. *Accounts of Chemical Research*, **2008**, 41, 1750-61	24.3	141
20	A one-pot synthesis of constitutionally unsymmetrical rotaxanes using sequential Cu(I)-catalyzed azide-alkyne cycloadditions. *Chemistry - A European Journal*, **2008**, 14, 4168-77	4.8	56
19	Heterogeneous catalysis through microcontact printing. *Angewandte Chemie - International Edition*, **2008**, 47, 9927-32	16.4	47
18	A redox-switchable alpha-cyclodextrin-based [2]rotaxane. *Journal of the American Chemical Society*, **2008**, 130, 11294-6	16.4	120
17	A clicked bistable [2]rotaxane. *Organic Letters*, **2007**, 9, 1287-90	6.2	90
16	Structural and co-conformational effects of alkyne-derived subunits in charged donor-acceptor [2]catenanes. *Journal of the American Chemical Society*, **2007**, 129, 8236-46	16.4	76
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