

William Dichtel

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Single-layer MoS ₂ phototransistors. <i>ACS Nano</i> , 2012 , 6, 74-80	16.7	2704
187	Rapid removal of organic micropollutants from water by a porous Cyclodextrin polymer. <i>Nature</i> , 2016 , 529, 190-4	50.4	1038
186	Oriented 2D covalent organic framework thin films on single-layer graphene. <i>Science</i> , 2011 , 332, 228-31	33.3	824
185	Rationally synthesized two-dimensional polymers. <i>Nature Chemistry</i> , 2013 , 5, 453-65	17.6	775
184	β-Ketoenamine-linked covalent organic frameworks capable of pseudocapacitive energy storage. <i>Journal of the American Chemical Society</i> , 2013 , 135, 16821-4	16.4	682
183	Thermodynamic analysis on energy densities of batteries. <i>Energy and Environmental Science</i> , 2011 , 4, 2614	35.4	634
182	Enzyme-responsive snap-top covered silica nanocontainers. <i>Journal of the American Chemical Society</i> , 2008 , 130, 2382-3	16.4	544
181	Lewis acid-catalysed formation of two-dimensional phthalocyanine covalent organic frameworks. <i>Nature Chemistry</i> , 2010 , 2, 672-7	17.6	540
180	Mechanically activated, catalyst-free polyhydroxyurethane vitrimers. <i>Journal of the American Chemical Society</i> , 2015 , 137, 14019-22	16.4	417
179	Bulk synthesis of exfoliated two-dimensional polymers using hydrazone-linked covalent organic frameworks. <i>Journal of the American Chemical Society</i> , 2013 , 135, 14952-5	16.4	352
178	Seeded growth of single-crystal two-dimensional covalent organic frameworks. <i>Science</i> , 2018 , 361, 52-57	33.3	310
177	Superior Charge Storage and Power Density of a Conducting Polymer-Modified Covalent Organic Framework. <i>ACS Central Science</i> , 2016 , 2, 667-673	16.8	274
176	High hopes: can molecular electronics realise its potential?. <i>Chemical Society Reviews</i> , 2012 , 41, 4827-59	58.5	258
175	A 2D covalent organic framework with 4.7-nm pores and insight into its interlayer stacking. <i>Journal of the American Chemical Society</i> , 2011 , 133, 19416-21	16.4	254
174	Rapid and efficient redox processes within 2D covalent organic framework thin films. <i>ACS Nano</i> , 2015 , 9, 3178-83	16.7	247
173	Insight into the crystallization of amorphous imine-linked polymer networks to 2D covalent organic frameworks. <i>Chemical Communications</i> , 2016 , 52, 3690-3	5.8	240
172	Lewis-Acid-Catalyzed Interfacial Polymerization of Covalent Organic Framework Films. <i>CheM</i> , 2018 , 4, 308-317	16.2	227

171	Lattice expansion of highly oriented 2D phthalocyanine covalent organic framework films. <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 2623-7	16.4	224
170	Singlet oxygen generation via two-photon excited FRET. <i>Journal of the American Chemical Society</i> , 2004 , 126, 5380-1	16.4	208
169	Approaches to Sustainable and Continually Recyclable Cross-Linked Polymers. <i>ACS Sustainable Chemistry and Engineering</i> , 2018 , 6, 11145-11159	8.3	196
168	Covalent Organic Frameworks as a Platform for Multidimensional Polymerization. <i>ACS Central Science</i> , 2017 , 3, 533-543	16.8	194
167	Rapid, Low Temperature Formation of Imine-Linked Covalent Organic Frameworks Catalyzed by Metal Triflates. <i>Journal of the American Chemical Society</i> , 2017 , 139, 4999-5002	16.4	187
166	βCyclodextrin Polymer Network Sequesters Perfluorooctanoic Acid at Environmentally Relevant Concentrations. <i>Journal of the American Chemical Society</i> , 2017 , 139, 7689-7692	16.4	184
165	Mechanistic studies of two-dimensional covalent organic frameworks rapidly polymerized from initially homogenous conditions. <i>Journal of the American Chemical Society</i> , 2014 , 136, 8783-9	16.4	178
164	Reprocessable Acid-Degradable Polycarbonate Vitrimers. <i>Macromolecules</i> , 2018 , 51, 389-397	5.5	172
163	Efficient templated synthesis of donor-acceptor rotaxanes using click chemistry. <i>Journal of the American Chemical Society</i> , 2006 , 128, 10388-90	16.4	171
162	Internal functionalization of three-dimensional covalent organic frameworks. <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 1885-9	16.4	168
161	Photosensitization of Singlet Oxygen via Two-Photon-Excited Fluorescence Resonance Energy Transfer in a Water-Soluble Dendrimer. <i>Chemistry of Materials</i> , 2005 , 17, 2267-2275	9.6	168
160	Removal of GenX and Perfluorinated Alkyl Substances from Water by Amine-Functionalized Covalent Organic Frameworks. <i>Journal of the American Chemical Society</i> , 2018 , 140, 12677-12681	16.4	165
159	A liquid-crystalline bistable [2]rotaxane. <i>Angewandte Chemie - International Edition</i> , 2007 , 46, 4675-9	16.4	158
158	Colloidal Covalent Organic Frameworks. <i>ACS Central Science</i> , 2017 , 3, 58-65	16.8	142
157	Kinetic and thermodynamic approaches for the efficient formation of mechanical bonds. <i>Accounts of Chemical Research</i> , 2008 , 41, 1750-61	24.3	141
156	Synthesis of 2D Imine-Linked Covalent Organic Frameworks through Formal Transimination Reactions. <i>Journal of the American Chemical Society</i> , 2017 , 139, 12911-12914	16.4	135
155	Conjugated Porous Polymers For TNT Vapor Detection.. <i>ACS Macro Letters</i> , 2013 , 2, 423-426	6.6	135
154	Multivalent binding motifs for the noncovalent functionalization of graphene. <i>Journal of the American Chemical Society</i> , 2011 , 133, 17614-7	16.4	133

153	Development and Performance Characterization of a Polyimine Covalent Organic Framework Thin-Film Composite Nanofiltration Membrane. <i>Environmental Science & Technology</i> , 2017 , 51, 14352-14359 ^{103, 125}		
152	Phenazine-Based Covalent Organic Framework Cathode Materials with High Energy and Power Densities. <i>Journal of the American Chemical Society</i> , 2020 , 142, 16-20	16.4	125
151	A redox-switchable alpha-cyclodextrin-based [2]rotaxane. <i>Journal of the American Chemical Society</i> , 2008 , 130, 11294-6	16.4	120
150	Direct detection of RDX vapor using a conjugated polymer network. <i>Journal of the American Chemical Society</i> , 2013 , 135, 8357-62	16.4	117
149	A mechanistic study of Lewis acid-catalyzed covalent organic framework formation. <i>Chemical Science</i> , 2011 , 2, 1588-1593	9.4	116
148	Clicked Interlocked Molecules. <i>Bulletin of the Chemical Society of Japan</i> , 2007 , 80, 1856-1869	5.1	114
147	Functionally layered dendrimers: a new building block and its application to the synthesis of multichromophoric light-harvesting systems. <i>Organic Letters</i> , 2005 , 7, 4451-4	6.2	104
146	Growth rates and water stability of 2D boronate ester covalent organic frameworks. <i>Chemical Communications</i> , 2015 , 51, 7532-5	5.8	103
145	Rapidly Reprocessable Cross-Linked Polyhydroxyurethanes Based on Disulfide Exchange. <i>ACS Macro Letters</i> , 2018 , 7, 1226-1231	6.6	103
144	Light-Harvesting Chromophores with Metalated Porphyrin Cores for Tuned Photosensitization of Singlet Oxygen via Two-Photon Excited FRET. <i>Chemistry of Materials</i> , 2006 , 18, 3682-3692	9.6	102
143	Postsynthetic functionalization of 3D covalent organic frameworks. <i>Chemical Communications</i> , 2013 , 49, 2457-9	5.8	95
142	Control of the graphene-protein interface is required to preserve adsorbed protein function. <i>Analytical Chemistry</i> , 2013 , 85, 2754-9	7.8	94
141	Tetraarylborate polymer networks as single-ion conducting solid electrolytes. <i>Chemical Science</i> , 2015 , 6, 5499-5505	9.4	93
140	Modular synthesis and dynamics of a variety of donor-acceptor interlocked compounds prepared by click chemistry. <i>Chemistry - an Asian Journal</i> , 2007 , 2, 634-47	4.5	93
139	Moving Beyond Boron: The Emergence of New Linkage Chemistries in Covalent Organic Frameworks. <i>Macromolecules</i> , 2016 , 49, 5297-5305	5.5	92
138	Increasing Poly(ethylene oxide) Stability to 4.5 V by Surface Coating of the Cathode. <i>ACS Energy Letters</i> , 2020 , 5, 826-832	20.1	91
137	University learning: Improve undergraduate science education. <i>Nature</i> , 2015 , 523, 282-4	50.4	91
136	Cotton Fabric Functionalized with a Cyclodextrin Polymer Captures Organic Pollutants from Contaminated Air and Water. <i>Chemistry of Materials</i> , 2016 , 28, 8340-8346	9.6	90

135	Mixed linker strategies for organic framework functionalization. <i>Chemistry - A European Journal</i> , 2013 , 19, 818-27	4.8	90
134	A clicked bistable [2]rotaxane. <i>Organic Letters</i> , 2007 , 9, 1287-90	6.2	90
133	Humidity Sensing through Reversible Isomerization of a Covalent Organic Framework. <i>Journal of the American Chemical Society</i> , 2020 , 142, 783-791	16.4	90
132	Noncovalent Functionalization of Graphene by Molecular and Polymeric Adsorbates. <i>Journal of Physical Chemistry Letters</i> , 2013 , 4, 2649-2657	6.4	84
131	Facile postpolymerization end-modification of RAFT polymers. <i>Journal of Polymer Science Part A</i> , 2009 , 47, 346-356	2.5	84
130	Nucleation and Growth of Covalent Organic Frameworks from Solution: The Example of COF-5. <i>Journal of the American Chemical Society</i> , 2017 , 139, 16310-16318	16.4	83
129	Cyclobis(paraquat-p-phenylene)-based [2]catenanes prepared by kinetically controlled reactions involving alkynes. <i>Organic Letters</i> , 2006 , 8, 4835-8	6.2	83
128	Benchmarking Micropollutant Removal by Activated Carbon and Porous Cyclodextrin Polymers under Environmentally Relevant Scenarios. <i>Environmental Science & Technology</i> , 2017 , 51, 7590-7598	10.3	82
127	Two-dimensional Covalent Organic Framework Thin Films Grown in Flow. <i>Journal of the American Chemical Society</i> , 2016 , 138, 11433-6	16.4	81
126	Alkyne Benzannulation Reactions for the Synthesis of Novel Aromatic Architectures. <i>Accounts of Chemical Research</i> , 2017 , 50, 2776-2788	24.3	80
125	Folding of a donor-acceptor polyrotaxane by using noncovalent bonding interactions. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008 , 105, 6514-9	11.5	76
124	Structural and co-conformational effects of alkyne-derived subunits in charged donor-acceptor [2]catenanes. <i>Journal of the American Chemical Society</i> , 2007 , 129, 8236-46	16.4	76
123	Designing bistable [2]rotaxanes for molecular electronic devices. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2007 , 365, 1607-25	3	76
122	Acid Exfoliation of Imine-linked Covalent Organic Frameworks Enables Solution Processing into Crystalline Thin Films. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 5165-5171	16.4	76
121	Reprocessable Cross-Linked Polymer Networks: Are Associative Exchange Mechanisms Desirable?. <i>ACS Central Science</i> , 2020 , 6, 1488-1496	16.8	76
120	Efficient PFAS Removal by Amine-Functionalized Sorbents: Critical Review of the Current Literature. <i>Environmental Science and Technology Letters</i> , 2019 , 6, 688-695	11	75
119	Rapid Synthesis of High Surface Area Imine-Linked 2D Covalent Organic Frameworks by Avoiding Pore Collapse During Isolation. <i>Advanced Materials</i> , 2020 , 32, e1905776	24	71
118	Structural effects on the reprocessability and stress relaxation of crosslinked polyhydroxyurethanes. <i>Journal of Applied Polymer Science</i> , 2017 , 134, 44984	2.9	69

117	Cation-Dependent Stabilization of Electrogenerated Naphthalene Diimide Dianions in Porous Polymer Thin Films and Their Application to Electrical Energy Storage. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 13225-9	16.4	68
116	Controlled growth of imine-linked two-dimensional covalent organic framework nanoparticles. <i>Chemical Science</i> , 2019 , 10, 3796-3801	9.4	68
115	Photoinduced, reversible phase transitions in all-inorganic perovskite nanocrystals. <i>Nature Communications</i> , 2019 , 10, 504	17.4	67
114	Accessing extended and partially fused hexabenzocoronenes using a benzannulation/cyclodehydrogenation approach. <i>Chemical Science</i> , 2013 , 4, 3973	9.4	67
113	Rotaxanes and Catenanes by Click Chemistry. <i>QSAR and Combinatorial Science</i> , 2007 , 26, 1165-1174		67
112	Reduction of a Tetrafluoroterephthalonitrile- β -Cyclodextrin Polymer to Remove Anionic Micropollutants and Perfluorinated Alkyl Substances from Water. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 12049-12053	16.4	63
111	Patterned growth of oriented 2D covalent organic framework thin films on single-layer graphene. <i>Journal of Polymer Science Part A</i> , 2015 , 53, 378-384	2.5	61
110	Complexation between methyl viologen (paraquat) bis(hexafluorophosphate) and dibenzo[24]crown-8 revisited. <i>Chemistry - A European Journal</i> , 2009 , 15, 106-16	4.8	61
109	Electronic Structure of Two-Dimensional π -Conjugated Covalent Organic Frameworks. <i>Chemistry of Materials</i> , 2019 , 31, 3051-3065	9.6	60
108	Mechanistic Study of Stress Relaxation in Urethane-Containing Polymer Networks. <i>Journal of Physical Chemistry B</i> , 2019 , 123, 1432-1441	3.4	59
107	A one-pot synthesis of constitutionally unsymmetrical rotaxanes using sequential Cu(I)-catalyzed azide-alkyne cycloadditions. <i>Chemistry - A European Journal</i> , 2008 , 14, 4168-77	4.8	56
106	Improved synthesis of β -ketoenamine-linked covalent organic frameworks via monomer exchange reactions. <i>Chemical Communications</i> , 2019 , 55, 2680-2683	5.8	55
105	Quantification of the surface diffusion of tripodal binding motifs on graphene using scanning electrochemical microscopy. <i>Journal of the American Chemical Society</i> , 2012 , 134, 6224-36	16.4	55
104	A classification scheme for the stacking of two-dimensional boronate ester-linked covalent organic frameworks. <i>Journal of Materials Chemistry</i> , 2012 , 22, 17460		55
103	Lattice Expansion of Highly Oriented 2D Phthalocyanine Covalent Organic Framework Films. <i>Angewandte Chemie</i> , 2012 , 124, 2677-2681	3.6	54
102	A ferrocene-functionalized [2]rotaxane with two fluorophores as stoppers. <i>Journal of Organic Chemistry</i> , 2013 , 78, 2091-8	4.2	53
101	In Situ Grazing-Incidence Wide-Angle Scattering Reveals Mechanisms for Phase Distribution and Disorientation in 2D Halide Perovskite Films. <i>Advanced Materials</i> , 2020 , 32, e2002812	24	51
100	Highly efficient benzannulation of poly(phenylene ethynylene)s. <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 12051-4	16.4	50

99	Non-Isocyanate Polyurethane Thermoplastic Elastomer: Amide-Based Chain Extender Yields Enhanced Nanophase Separation and Properties in Polyhydroxyurethane. <i>Macromolecules</i> , 2017 , 50, 4425-4434	5.5	48
98	Reprocessing Postconsumer Polyurethane Foam Using Carbamate Exchange Catalysis and Twin-Screw Extrusion. <i>ACS Central Science</i> , 2020 , 6, 921-927	16.8	47
97	Heterogeneous catalysis through microcontact printing. <i>Angewandte Chemie - International Edition</i> , 2008 , 47, 9927-32	16.4	47
96	Reprocessing Cross-Linked Polyurethanes by Catalyzing Carbamate Exchange. <i>Macromolecules</i> , 2019 , 52, 6330-6335	5.5	46
95	Amphiphilic diblock star polymer catalysts via atom transfer radical polymerization. <i>Journal of Polymer Science Part A</i> , 2006 , 44, 4939-4951	2.5	45
94	Ambipolar Transport in Solution-Synthesized Graphene Nanoribbons. <i>ACS Nano</i> , 2016 , 10, 4847-56	16.7	45
93	Electrochemical Hydrogen Evolution at Ordered Mo ₇ Ni ₇ . <i>ACS Catalysis</i> , 2017 , 7, 3375-3383	13.1	44
92	A solid-state switch containing an electrochemically switchable bistable poly[n]rotaxane. <i>Journal of Materials Chemistry</i> , 2011 , 21, 1487-1495		43
91	Design and synthesis of two-dimensional covalent organic frameworks with four-arm cores: prediction of remarkable ambipolar charge-transport properties. <i>Materials Horizons</i> , 2019 , 6, 1868-1876	14.4	41
90	Local Electronic Structure of a Single-Layer Porphyrin-Containing Covalent Organic Framework. <i>ACS Nano</i> , 2018 , 12, 385-391	16.7	41
89	Internal Functionalization of Three-Dimensional Covalent Organic Frameworks. <i>Angewandte Chemie</i> , 2012 , 124, 1921-1925	3.6	40
88	Phenolation of cyclodextrin polymers controls their lead and organic micropollutant adsorption. <i>Chemical Science</i> , 2018 , 9, 8883-8889	9.4	39
87	Reducing the Pore Size of Covalent Organic Frameworks in Thin-Film Composite Membranes Enhances Solute Rejection 2019 , 1, 440-446		38
86	Cross-linker Chemistry Determines the Uptake Potential of Perfluorinated Alkyl Substances by β Cyclodextrin Polymers. <i>Macromolecules</i> , 2019 , 52, 3747-3752	5.5	38
85	Free energy barrier for molecular motions in bistable [2]rotaxane molecular electronic devices. <i>Journal of Physical Chemistry A</i> , 2009 , 113, 2136-43	2.8	38
84	Defect-Triggered Phase Transition in Cesium Lead Halide Perovskite Nanocrystals 2019 , 1, 185-191		37
83	Emissive Single-Crystalline Boroxine-Linked Colloidal Covalent Organic Frameworks. <i>Journal of the American Chemical Society</i> , 2019 , 141, 19728-19735	16.4	37
82	Functionalization of 3D covalent organic frameworks using monofunctional boronic acids. <i>Polymer</i> , 2014 , 55, 330-334	3.9	36

81	Nucleation-Elongation Dynamics of Two-Dimensional Covalent Organic Frameworks. <i>Journal of the American Chemical Society</i> , 2020 , 142, 1367-1374	16.4	36
80	Polycrystalline Covalent Organic Framework Films Act as Adsorbents, Not Membranes. <i>Journal of the American Chemical Society</i> , 2021 , 143, 1466-1473	16.4	36
79	β-Cyclodextrin Polymers on Microcrystalline Cellulose as a Granular Media for Organic Micropollutant Removal from Water. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 8089-8096	9.5	35
78	Preservation of antibody selectivity on graphene by conjugation to a tripod monolayer. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 3177-80	16.4	35
77	Local Electronic Structure of Molecular Heterojunctions in a Single-Layer 2D Covalent Organic Framework. <i>Advanced Materials</i> , 2019 , 31, e1805941	24	35
76	Rapid synthesis of crowded aromatic architectures from silyl acetylenes. <i>Organic Letters</i> , 2014 , 16, 4416-4420	9.2	34
75	Regioselective Synthesis of Polyheterohalogenated Naphthalenes via the Benzannulation of Haloalkynes. <i>Chemistry - A European Journal</i> , 2015 , 21, 18122-7	4.8	34
74	QSARs to predict adsorption affinity of organic micropollutants for activated carbon and β-cyclodextrin polymer adsorbents. <i>Water Research</i> , 2019 , 154, 217-226	12.5	32
73	Resorcinarene Cavitand Polymers for the Remediation of Halomethanes and 1,4-Dioxane. <i>Journal of the American Chemical Society</i> , 2019 , 141, 13315-13319	16.4	32
72	Alternate State Variables for Emerging Nanoelectronic Devices. <i>IEEE Nanotechnology Magazine</i> , 2009 , 8, 66-75	2.6	32
71	Hydrolytic Stability of Boronate Ester-Linked Covalent Organic Frameworks. <i>Advanced Theory and Simulations</i> , 2018 , 1, 1700015	3.5	31
70	Improving the binding characteristics of tripodal compounds on single layer graphene. <i>ACS Nano</i> , 2013 , 7, 7193-9	16.7	31
69	Sequence-defined oligo(-arylene) foldamers derived from the benzannulation of (arylene ethynylene)s. <i>Chemical Science</i> , 2016 , 7, 6357-6364	9.4	31
68	New Mechanistic Insights into the Formation of Imine-Linked Two-Dimensional Covalent Organic Frameworks. <i>Journal of the American Chemical Society</i> , 2020 , 142, 18637-18644	16.4	30
67	Thermally conductive ultra-low-k dielectric layers based on two-dimensional covalent organic frameworks. <i>Nature Materials</i> , 2021 , 20, 1142-1148	27	30
66	Tetrafluoroterephthalonitrile-crosslinked β-cyclodextrin polymers for efficient extraction and recovery of organic micropollutants from water. <i>Journal of Chromatography A</i> , 2018 , 1541, 52-56	4.5	28
65	Exploring the factors that influence the adsorption of anionic PFAS on conventional and emerging adsorbents in aquatic matrices. <i>Water Research</i> , 2020 , 182, 115950	12.5	27
64	Chemical Control over Nucleation and Anisotropic Growth of Two-Dimensional Covalent Organic Frameworks. <i>ACS Central Science</i> , 2019 , 5, 1892-1899	16.8	26

63	Cyclodextrin Polymers with Nitrogen-Containing Tripodal Crosslinkers for Efficient PFAS Adsorption 2020 , 2, 1240-1245		26
62	High-Sensitivity Acoustic Molecular Sensors Based on Large-Area, Spray-Coated 2D Covalent Organic Frameworks. <i>Advanced Materials</i> , 2020 , 32, e2004205	24	26
61	Large Exciton Diffusion Coefficients in Two-Dimensional Covalent Organic Frameworks with Different Domain Sizes Revealed by Ultrafast Exciton Dynamics. <i>Journal of the American Chemical Society</i> , 2020 , 142, 14957-14965	16.4	25
60	Two-Dimensional Polymers and Polymerizations. <i>Chemical Reviews</i> , 2021 ,	68.1	24
59	Polymerized Molecular Receptors as Adsorbents to Remove Micropollutants from Water. <i>Accounts of Chemical Research</i> , 2020 , 53, 2314-2324	24.3	23
58	Reduction of a Tetrafluoroterephthalonitrile- β -Cyclodextrin Polymer to Remove Anionic Micropollutants and Perfluorinated Alkyl Substances from Water. <i>Angewandte Chemie</i> , 2019 , 131, 12177-12181 ²²	2.6	22
57	Real-Time, Ultrasensitive Detection of RDX Vapors Using Conjugated Network Polymer Thin Films. <i>Chemistry of Materials</i> , 2015 , 27, 3813-3816	9.6	22
56	Laser-induced sub-millisecond heating reveals distinct tertiary ester cleavage reaction pathways in a photolithographic resist polymer. <i>ACS Nano</i> , 2014 , 8, 5746-56	16.7	22
55	β -Cyclodextrin Polymers with Different Cross-Linkers and Ion-Exchange Resins Exhibit Variable Adsorption of Anionic, Zwitterionic, and Nonionic PFASs. <i>Environmental Science & Technology</i> , 2020 , 54, 12693-12702	10.3	22
54	Graphene Oxide Nanosheets Stimulate Ruffling and Shedding of Mammalian Cell Plasma Membranes. <i>Chem</i> , 2016 , 1, 273-286	16.2	22
53	Buckling of Two-Dimensional Covalent Organic Frameworks under Thermal Stress. <i>Industrial & Engineering Chemistry Research</i> , 2019 , 58, 9883-9887	3.9	21
52	Evaluating the effects of water matrix constituents on micropollutant removal by activated carbon and β -cyclodextrin polymer adsorbents. <i>Water Research</i> , 2020 , 173, 115551	12.5	21
51	High aspect ratio nanotubes assembled from macrocyclic iminium salts. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, 8883-8888	11.5	21
50	Highly Efficient Benzannulation of Poly(phenylene ethynylene)s. <i>Angewandte Chemie</i> , 2012 , 124, 12217-12220 ²¹	3.2	21
49	Equilibration of Imine-Linked Polymers to Hexagonal Macrocycles Driven by Self-Assembly. <i>Chemistry - A European Journal</i> , 2018 , 24, 3989-3993	4.8	20
48	Measuring and Manipulating the Adhesion of Graphene. <i>Nano Letters</i> , 2018 , 18, 449-454	11.5	20
47	Discrete, Hexagonal Boronate Ester-Linked Macrocycles Related to Two-Dimensional Covalent Organic Frameworks. <i>Chemistry of Materials</i> , 2016 , 28, 4884-4888	9.6	20
46	Regioselective Asao-Yamamoto benzannulations of diaryl acetylenes. <i>Organic Letters</i> , 2014 , 16, 5926-9	6.2	19

45	A Dinuclear Mechanism Implicated in Controlled Carbene Polymerization. <i>Journal of the American Chemical Society</i> , 2019 , 141, 6473-6478	16.4	18
44	Best Practices for Evaluating New Materials as Adsorbents for Water Treatment 2020 , 2, 1532-1544		18
43	Rapid access to substituted 2-naphthylne intermediates the benzannulation of halogenated silylalkynes. <i>Chemical Science</i> , 2017 , 8, 5675-5681	9.4	16
42	Diazatetracenes Derived from the Benzannulation of Acetylenes: Electronic Tuning via Substituent Effects and External Stimuli. <i>Journal of Organic Chemistry</i> , 2017 , 82, 2004-2010	4.2	15
41	Cooperative Self-Assembly of Pyridine-2,6-Diimine-Linked Macrocycles into Mechanically Robust Nanotubes. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 14708-14714	16.4	15
40	Acid Exfoliation of Imine-linked Covalent Organic Frameworks Enables Solution Processing into Crystalline Thin Films. <i>Angewandte Chemie</i> , 2020 , 132, 5203-5209	3.6	15
39	Postsynthetic Modification of a Covalent Organic Framework Achieved via Strain-Promoted Cycloaddition. <i>Journal of the American Chemical Society</i> , 2021 , 143, 649-656	16.4	15
38	Evaluating the Removal of Per- and Polyfluoroalkyl Substances from Contaminated Groundwater with Different Adsorbents Using a Suspect Screening Approach. <i>Environmental Science and Technology Letters</i> , 2020 , 7, 954-960	11	14
37	Trends in the thermal stability of two-dimensional covalent organic frameworks. <i>Faraday Discussions</i> , 2021 , 225, 226-240	3.6	14
36	Retaining the Activity of Enzymes and Fluorophores Attached to Graphene Oxide. <i>Chemistry of Materials</i> , 2015 , 27, 4499-4504	9.6	13
35	Supramolecular polymerization provides non-equilibrium product distributions of imine-linked macrocycles. <i>Chemical Science</i> , 2020 , 11, 1957-1963	9.4	11
34	Preservation of Antibody Selectivity on Graphene by Conjugation to a Tripod Monolayer. <i>Angewandte Chemie</i> , 2013 , 125, 3259-3262	3.6	10
33	Revealing the Local Electronic Structure of a Single-Layer Covalent Organic Framework through Electronic Decoupling. <i>Nano Letters</i> , 2020 , 20, 963-970	11.5	10
32	Spin and Phonon Design in Modular Arrays of Molecular Qubits. <i>Chemistry of Materials</i> , 2020 , 32, 10200-10206	10.2	10
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