

# Covalent Organic Frameworks: Design, Synthesis, and F

Chemical Reviews

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Porous Ladder Polymer Networks. <i>CheM</i> , 2020, 6, 2558-2590.	5.8	36
2	Fe <sub>3</sub> O <sub>4</sub> /Porphyrin Covalent Organic Framework Core-Shell Nanospheres as Interfacial Catalysts for Enzymatic Esterification. <i>ACS Applied Nano Materials</i> , 2020, 3, 10360-10368.	2.4	25
3	Covalent Organic Frameworks: An Amazing Chemistry Platform for Designing Polymers. <i>CheM</i> , 2020, 6, 2461-2483.	5.8	98
4	The opportunity of metal organic frameworks and covalent organic frameworks in lithium (ion) batteries and fuel cells. <i>Energy Storage Materials</i> , 2020, 33, 360-381.	9.5	47
5	Reticular Materials for Artificial Photoreduction of CO <sub>2</sub> . <i>Advanced Energy Materials</i> , 2020, 10, 2002091.	10.2	92
6	Simple synthesis of magnetic porous organic cages for adsorption of triphenylmethane dyes in aquatic products. <i>Microchemical Journal</i> , 2020, 158, 105275.	2.3	8
7	Salicylideneaniline-Based Covalent Organic Frameworks: A New Family of Multistate Second-Order Nonlinear Optical Switches. <i>Journal of Physical Chemistry C</i> , 2020, 124, 24451-24459.	1.5	13
8	Design of higher valency in covalent organic frameworks. <i>Science</i> , 2020, 370, .	6.0	189
9	Design and Synthesis of Polyimide Covalent Organic Frameworks. <i>Macromolecular Rapid Communications</i> , 2020, 41, e2000402.	2.0	44
10	Hydrogen-Bonded Organic Frameworks: A Rising Class of Porous Molecular Materials. <i>Accounts of Materials Research</i> , 2020, 1, 77-87.	5.9	206
11	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.	6.6	87
12	Redox-triggered switching in three-dimensional covalent organic frameworks. <i>Nature Communications</i> , 2020, 11, 4919.	5.8	49
13	A controlling parameter of topological defects in two-dimensional covalent organic frameworks. <i>Nanoscale</i> , 2020, 12, 22107-22115.	2.8	8
14	Synthesis of Vinylene-Linked Covalent Organic Frameworks from Acetonitrile: Combining Cyclotrimerization and Aldol Condensation in One Pot. <i>Journal of the American Chemical Society</i> , 2020, 142, 14033-14038.	6.6	68
15	Extraction of Ibuprofen from Natural Waters Using a Covalent Organic Framework. <i>Molecules</i> , 2020, 25, 3132.	1.7	19
16	Cationic Covalent Organic Frameworks for Fabricating an Efficient Triboelectric Nanogenerator. , 2020, 2, 1691-1697.		42
17	Photocatalytic Molecular Oxygen Activation by Regulating Excitonic Effects in Covalent Organic Frameworks. <i>Journal of the American Chemical Society</i> , 2020, 142, 20763-20771.	6.6	321
18	Transformation between 2D covalent organic frameworks with distinct pore hierarchy via exchange of building blocks with different symmetries. <i>Chemical Communications</i> , 2020, 56, 15418-15421.	2.2	14

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19	Electrochemical Sensors Based on Covalent Organic Frameworks: A Critical Review. <i>Frontiers in Chemistry</i> , 2020, 8, 601044.	1.8	38
20	Diverse crystal size effects in covalent organic frameworks. <i>Nature Communications</i> , 2020, 11, 6128.	5.8	55
21	Adsorptive Separation of Aromatic Compounds from Alkanes by $\pi$ - $\pi$ Interactions in a Carbazole-Based Conjugated Microporous Polymer. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 56385-56392.	4.0	30
22	Pyrimidazole-Based Covalent Organic Frameworks: Integrating Functionality and Ultrastability via Isocyanide Chemistry. <i>Journal of the American Chemical Society</i> , 2020, 142, 20956-20961.	6.6	62
23	Mechanisms of Defect Correction by Reversible Chemistries in Covalent Organic Frameworks. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 9952-9956.	2.1	17
24	Covalent Organic Frameworks: Pore Design and Interface Engineering. <i>Accounts of Chemical Research</i> , 2020, 53, 1672-1685.	7.6	153
25	The Surface Chemistry of Metal Oxide Clusters: From Metal-Organic Frameworks to Minerals. <i>ACS Central Science</i> , 2020, 6, 1523-1533.	5.3	46
26	A Truxenone-based Covalent Organic Framework as an All-Solid-State Lithium-Ion Battery Cathode with High Capacity. <i>Angewandte Chemie</i> , 2020, 132, 20565-20569.	1.6	5
27	Designed Synthesis of a $2D$ Covalent Organic Framework with $3^rd$ Hierarchical Porosity. <i>Chinese Journal of Chemistry</i> , 2020, 38, 1676-1680.	2.6	15
28	A simple and cost-effective synthesis of ionic porous organic polymers with excellent porosity for high iodine capture. <i>Polymer</i> , 2020, 204, 122796.	1.8	27
29	Porous organic polymer material supported palladium nanoparticles. <i>Journal of Materials Chemistry A</i> , 2020, 8, 17360-17391.	5.2	93
30	A Truxenone-based Covalent Organic Framework as an All-Solid-State Lithium-Ion Battery Cathode with High Capacity. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 20385-20389.	7.2	110
31	Light-emitting conjugated microporous polymers based on an excited-state intramolecular proton transfer strategy and selective switch-off sensing of anions. <i>Materials Chemistry Frontiers</i> , 2020, 4, 3040-3046.	3.2	22
32	Exploration of advanced porous organic polymers as a platform for biomimetic catalysis and molecular recognition. <i>Chemical Communications</i> , 2020, 56, 10631-10641.	2.2	29
33	Covalent organic frameworks: Polymer chemistry and functional design. <i>Progress in Polymer Science</i> , 2020, 108, 101288.	11.8	78
34	Internal catalysis for dynamic covalent chemistry applications and polymer science. <i>Chemical Society Reviews</i> , 2020, 49, 8425-8438.	18.7	128
35	Application of Metal-Organic Frameworks and Covalent Organic Frameworks as (Photo)Active Material in Hybrid Photovoltaic Technologies. <i>Energies</i> , 2020, 13, 5602.	1.6	19
36	Atoms and the void: modular construction of ordered porous solids. <i>Nature Communications</i> , 2020, 11, 4652.	5.8	17

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37	Toward a Deformable Two-Dimensional Covalent Organic Network with a Noncovalently Connected Skeleton. <i>Chemistry of Materials</i> , 2020, 32, 8139-8145.	3.2	4
38	Direct-Space Structure Determination of Covalent Organic Frameworks from 3D Electron Diffraction Data. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 22638-22644.	7.2	23
39	Structural features of proton-conducting metal organic and covalent organic frameworks. <i>CrystEngComm</i> , 2020, 22, 6425-6443.	1.3	23
40	Advances and challenges for experiment and theory for multi-electron multi-proton transfer at electrified solid-liquid interfaces. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 19401-19442.	1.3	38
41	Crystallinity and stability of covalent organic frameworks. <i>Science China Chemistry</i> , 2020, 63, 1367-1390.	4.2	95
42	3D Cage COFs: A Dynamic Three-Dimensional Covalent Organic Framework with High-Connectivity Organic Cage Nodes. <i>Journal of the American Chemical Society</i> , 2020, 142, 16842-16848.	6.6	174
43	High Throughput Methods in the Synthesis, Characterization, and Optimization of Porous Materials. <i>Advanced Materials</i> , 2020, 32, e2002780.	11.1	48
44	Heterogeneous Photocatalytic Organic Transformation Reactions Using Conjugated Polymers-Based Materials. <i>ACS Catalysis</i> , 2020, 10, 12256-12283.	5.5	161
45	Easily Constructed Imine-Bonded COFs for Iodine Capture at Ambient Temperature. <i>ACS Omega</i> , 2020, 5, 24262-24271.	1.6	32
46	Covalent-Organic-Framework-Based Composite Materials. <i>CheM</i> , 2020, 6, 3172-3202.	5.8	127
47	Graphitic carbon nitride nanotubes: a new material for emerging applications. <i>RSC Advances</i> , 2020, 10, 34059-34087.	1.7	35
48	Direct-Space Structure Determination of Covalent Organic Frameworks from 3D Electron Diffraction Data. <i>Angewandte Chemie</i> , 2020, 132, 22827-22833.	1.6	2
49	Three-Dimensional Covalent Organic Frameworks: From Topology Design to Applications. <i>Accounts of Chemical Research</i> , 2020, 53, 2225-2234.	7.6	149
50	Regulating Photocatalysis by Spin-State Manipulation of Cobalt in Covalent Organic Frameworks. <i>Journal of the American Chemical Society</i> , 2020, 142, 16723-16731.	6.6	333
51	Molecule-Based Transistors: From Macroscale to Single Molecule.. <i>Chemical Record</i> , 2021, 21, 1284-1299.	2.9	19
52	Electronically Coupled 2D Polymer/MoS <sub>2</sub> Heterostructures. <i>Journal of the American Chemical Society</i> , 2020, 142, 21131-21139.	6.6	25
53	Dynamic Transformation between Covalent Organic Frameworks and Discrete Organic Cages. <i>Journal of the American Chemical Society</i> , 2020, 142, 21279-21284.	6.6	54
54	Conjugated Covalent Organic Frameworks as Platinum Nanoparticle Supports for Catalyzing the Oxygen Reduction Reaction. <i>Chemistry of Materials</i> , 2020, 32, 9747-9752.	3.2	68

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56	Highly C2/C1-Selective Covalent Organic Frameworks Substituted with Azo Groups. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 51517-51522.	4.0	20
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58	Colloidal three-dimensional covalent organic frameworks and their application as porous liquids. <i>Journal of Materials Chemistry A</i> , 2020, 8, 23455-23462.	5.2	37
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60	Post-synthetic modification of imine linkages of a covalent organic framework for its catalysis application. <i>RSC Advances</i> , 2020, 10, 17396-17403.	1.7	37
61	Two-dimensional covalent organic frameworks with hierarchical porosity. <i>Chemical Society Reviews</i> , 2020, 49, 3920-3951.	18.7	302
62	New synthetic strategies toward covalent organic frameworks. <i>Chemical Society Reviews</i> , 2020, 49, 2852-2868.	18.7	394
63	A new 3D COF with excellent fluorescence response for water and good adsorption performance for polychlorinated biphenyls. <i>Microchemical Journal</i> , 2020, 157, 104912.	2.3	11
64	Designing CO <sub>2</sub> reduction electrode materials by morphology and interface engineering. <i>Energy and Environmental Science</i> , 2020, 13, 2275-2309.	15.6	251
65	Covalent Organic Frameworks for Heterogeneous Catalysis: Principle, Current Status, and Challenges. <i>ACS Central Science</i> , 2020, 6, 869-879.	5.3	255
66	Simple and universal synthesis of sulfonated porous organic polymers with high proton conductivity. <i>Materials Chemistry Frontiers</i> , 2020, 4, 2339-2345.	3.2	24
67	Electrochemically active sites inside crystalline porous materials for energy storage and conversion. <i>Chemical Society Reviews</i> , 2020, 49, 2378-2407.	18.7	233
68	Synthesis of conjugated polymers <i>via</i> cyclopentannulation reaction: promising materials for iodine adsorption. <i>Polymer Chemistry</i> , 2020, 11, 3066-3074.	1.9	33
69	De Novo Access to SO <sub>3</sub> H-Grafted Porous Organic Polymers (POPs@H): Synthesis of Diarylbenzopyrans/Naphthopyrans and Triazoles by Heterogeneous Catalytic Cyclocondensation and Cycloaddition Reactions. <i>ACS Applied Polymer Materials</i> , 2020, 2, 3084-3093.	2.0	9
70	Applications of Dynamic Covalent Chemistry Concept toward Tailored Covalent Organic Framework Nanomaterials: A Review. <i>ACS Applied Nano Materials</i> , 2020, 3, 6239-6269.	2.4	96
71	Expeditious synthesis of covalent organic frameworks: a review. <i>Journal of Materials Chemistry A</i> , 2020, 8, 16045-16060.	5.2	97
72	Tuning the electronic energy level of covalent organic frameworks for crafting high-rate Na-ion battery anode. <i>Nanoscale Horizons</i> , 2020, 5, 1264-1273.	4.1	53

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73	Metal-Assisted and Solvent-Mediated Synthesis of Two-Dimensional Triazine Structures on Gram Scale. <i>Journal of the American Chemical Society</i> , 2020, 142, 12976-12986.	6.6	21
74	Intramolecular Hydrogen Bonding-Based Topology Regulation of Two-Dimensional Covalent Organic Frameworks. <i>Journal of the American Chemical Society</i> , 2020, 142, 13162-13169.	6.6	85
75	Two-Dimensional Carbon-Rich Conjugated Frameworks for Electrochemical Energy Applications. <i>Journal of the American Chemical Society</i> , 2020, 142, 12903-12915.	6.6	154
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77	Transformation between 2D and 3D Covalent Organic Frameworks via Reversible [2 + 2] Cycloaddition. <i>Journal of the American Chemical Society</i> , 2020, 142, 8862-8870.	6.6	101
78	Sulfonated 2D Covalent Organic Frameworks for Efficient Proton Conduction. <i>Chemistry - A European Journal</i> , 2021, 27, 3817-3822.	1.7	30
79	Polymer photocatalysts for solar-to-chemical energy conversion. <i>Nature Reviews Materials</i> , 2021, 6, 168-190.	23.3	361
80	Crystal engineering of MOF@COF core-shell composites for ultra-sensitively electrochemical detection. <i>Sensors and Actuators B: Chemical</i> , 2021, 329, 129144.	4.0	94
81	Stable Dioxin-Linked Metallophthalocyanine Covalent Organic Frameworks (COFs) as Photo-Coupled Electrocatalysts for CO <sub>2</sub> Reduction. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 4864-4871.	7.2	179
82	A Carboxyl-Functionalized Covalent Organic Framework Synthesized in a Deep Eutectic Solvent for Dye Adsorption. <i>Chemistry - A European Journal</i> , 2021, 27, 2692-2698.	1.7	45
83	Inside-and-Out Semiconductor Engineering for CO <sub>2</sub> Photoreduction: From Recent Advances to New Trends. <i>Small Structures</i> , 2021, 2, 2000061.	6.9	346
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85	Tethering Flexible Polymers to Crystalline Porous Materials: A Win-Win Hybridization Approach. <i>Angewandte Chemie</i> , 2021, 133, 14342-14355.	1.6	3
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88	Recent Progress in Porous Fused Aromatic Networks and Their Applications. <i>Small Science</i> , 2021, 1, 2000007.	5.8	14
89	An Imine-Linked Metal-Organic Framework as a Reactive Oxygen Species Generator. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 2534-2540.	7.2	63
90	Copper-incorporated porous organic polymer as efficient and recyclable catalyst for azide-alkyne cycloaddition. <i>Microporous and Mesoporous Materials</i> , 2021, 310, 110671.	2.2	13

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92	Organobase modulated synthesis of high-quality $\beta^2$ -ketoenamine-linked covalent organic frameworks. <i>Chemical Communications</i> , 2021, 57, 331-334.	2.2	47
93	Polymorphism of 2D Imine Covalent Organic Frameworks. <i>Angewandte Chemie</i> , 2021, 133, 5423-5429.	1.6	17
94	Fine tuning of supported covalent organic framework with molecular active sites loaded as efficient electrocatalyst for water oxidation. <i>Chemical Engineering Journal</i> , 2021, 415, 127850.	6.6	16
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96	Host-guest interaction-mediated nanointerface engineering for radioiodine capture. <i>Nano Today</i> , 2021, 36, 101034.	6.2	45
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102	Microporous framework membranes for precise molecule/ion separations. <i>Chemical Society Reviews</i> , 2021, 50, 986-1029.	18.7	191
103	Rational Construction of Borromean Linked Crystalline Organic Polymers. <i>Angewandte Chemie</i> , 2021, 133, 3011-3016.	1.6	3
104	Polymorphism of 2D Imine Covalent Organic Frameworks. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 5363-5369.	7.2	67
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106	Rational Construction of Borromean Linked Crystalline Organic Polymers. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 2974-2979.	7.2	16
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108	Stable Dioxin-Linked Metallophthalocyanine Covalent Organic Frameworks (COFs) as Photo-Coupled Electrocatalysts for $\text{CO}_2$ Reduction. <i>Angewandte Chemie</i> , 2021, 133, 4914-4921.	1.6	40

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110	Zwitterionic surface charge regulation in ionic covalent organic nanosheets: Synergistic adsorption of fluoroquinolone antibiotics. <i>Chemical Engineering Journal</i> , 2021, 417, 128034.	6.6	26
111	Immobilization of N and Si as center species toward microporous organic polymers for CO <sub>2</sub> adsorption via dipole-quadrupole interaction. <i>Polymer</i> , 2021, 212, 123307.	1.8	9
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113	Scalable crystalline porous membranes: current state and perspectives. <i>Chemical Society Reviews</i> , 2021, 50, 1913-1944.	18.7	47
114	Dumbbellâ€Shaped, Graft and Bottlebrush Polymers with Allâ€Siloxane Nature: Synthetic Methodology, Thermal, and Rheological Behavior. <i>Macromolecular Rapid Communications</i> , 2021, 42, 2000645.	2.0	10
115	Robust Supramolecular Nanoâ€Tunnels Built from Molecular Bricks**. <i>Angewandte Chemie</i> , 2021, 133, 7224-7230.	1.6	4
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130	Tuning the physicochemical properties of reticular covalent organic frameworks (COFs) for biomedical applications. <i>Journal of Materials Chemistry B</i> , 2021, 9, 6116-6128.	2.9	23
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142	Highly active ultrafine Pd NPs confined in imine-linked COFs for nitrobenzene hydrogenation. <i>Catalysis Science and Technology</i> , 2021, 11, 3873-3879.	2.1	27
143	Understanding charge transport in wavy 2D covalent organic frameworks. <i>Nanoscale</i> , 2021, 13, 6829-6833.	2.8	14
144	Covalent Organic Frameworks as Electrode Materials for Rechargeable Batteries. <i>Organic Materials</i> , 2021, 03, 067-089.	1.0	4

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