CITATION REPORT List of articles citing

MetalââOrganic Framework-Based Catalysts: Chemical Fixation of CO2 with Epoxides Leading to Cyclic Organic Carbonates

DOI: 10.3389/fenrg.2014.00063 Frontiers in Energy Research, 2015, 2, .

Source: https://exaly.com/paper-pdf/62326457/citation-report.pdf

Version: 2024-04-28

This report has been generated based on the citations recorded by exaly.com for the above article. For the latest version of this publication list, visit the link given above.

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

#	Paper	IF	Citations
211	A facile one-step synthesis of star-shaped alkynyl carbonates from CO2. 2015 , 51, 11225-8		5
210	Modeling of Greenhouse Gas Emission from Livestock. 2016 , 4,		14
209	Liquid-Phase Epitaxially Grown Metal-Organic Framework Thin Films for Efficient Tandem Catalysis Through Site-Isolation of Catalytic Centers. 2016 , 81, 708-713		19
208	Anionic Metal©rganic Framework for Selective Dye Removal and CO2 Fixation. 2016 , 2016, 4373-4377		55
207	Probing the correlations between the defects in metal-organic frameworks and their catalytic activity by an epoxide ring-opening reaction. 2016 , 52, 7806-9		138
206	A 4-fold interpenetrated diamondoid metal-organic framework with large channels exhibiting solvent sorption properties and high iodine capture. 2016 , 231, 21-30		23
205	Titanium-based zeolitic imidazolate framework for chemical fixation of carbon dioxide. 2016 , 18, 4855-4	858	49
204	Construction of 3-Fold-Interpenetrated Three-Dimensional Metal-Organic Frameworks of Nickel(II) for Highly Efficient Capture and Conversion of Carbon Dioxide. 2016 , 55, 9757-9766		63
203	Rapid, Microwave-Assisted Synthesis of Cubic, Three-Dimensional, Highly Porous MOF-205 for Room Temperature CO Fixation via Cyclic Carbonate Synthesis. 2016 , 8, 33723-33731		114
202	Metal-Organic Frameworks for CO Chemical Transformations. 2016 , 12, 6309-6324		371
201	Cavitand-Based Polyphenols as Highly Reactive Organocatalysts for the Coupling of Carbon Dioxide and Oxiranes. 2016 , 9, 749-55		72
200	Exceptionally Robust In-Based Metal-Organic Framework for Highly Efficient Carbon Dioxide Capture and Conversion. 2016 , 55, 3558-65		169
199	Porphyrin-based assemblies directed by non-covalent interactions: highlights of recent investigations. 2016 , 18, 3318-3339		28
198	Hollow-structured Si/SiC@C nanospheres as highly active catalysts for cycloaddition of epoxides with CO2 under mild conditions. 2016 , 45, 2369-73		20
197	MetalBrganic frameworks for the control and management of air quality: advances and future direction. 2016 , 4, 345-361		98
196	A sustainable protocol for the facile synthesis of zinc-glutamate MOF: an efficient catalyst for room temperature CO2 fixation reactions under wet conditions. 2016 , 52, 280-3		113
195	MetalBrganic frameworks containing N-heterocyclic carbenes and their precursors. 2016 , 307, 188-210		82

194	Application of metal 🗗 Erganic frameworks. 2017 , 66, 731-744	116
193	Halogen-free processes for organic carbonate synthesis from CO 2. 2017 , 3, 11-16	21
192	Gadolinium-Based Metal©rganic Framework as an Efficient and Heterogeneous Catalyst To Activate Epoxides for Cycloaddition of CO2 and Alcoholysis. 2017 , 5, 2623-2631	63
191	Metal B rganic frameworks with Lewis acidity: synthesis, characterization, and catalytic applications. 2017 , 19, 4066-4081	154
190	Robust high-connected rare-earth MOFs as efficient heterogeneous catalysts for CO conversion. 2017 , 53, 3224-3227	64
189	Metal organic framework based catalysts for CO2 conversion. 2017 , 4, 345-361	276
188	A titanium-based porous coordination polymer as a catalyst for chemical fixation of CO2. 2017 , 5, 9163-9168	35
187	Partially Interpenetrated NbO Topology Metal©rganic Framework Exhibiting Selective Gas Adsorption. 2017 , 17, 2711-2717	24
186	Recent Developments in the Synthesis of Cyclic Carbonates from Epoxides and CO. 2017, 375, 50	166
185	Interpenetrated Metal©rganic Frameworks of Cobalt(II): Structural Diversity, Selective Capture, and Conversion of CO2. 2017 , 17, 3295-3305	46
184	Fabrication of Amine and Zirconia on MCM-41 as Acid B ase Catalysts for the Fixation of Carbon Dioxide. 2017 , 9, 4105-4111	13
183	Catalytic performance of metal azolate frameworks in the solventless synthesis of cyclic carbonates from CO2 and epoxides. 2017 , 538, 59-65	15
182	Synthesis of a Pyridine-Zinc-Based Porous Organic Polymer for the Co-catalyst-Free Cycloaddition of Epoxides. 2017 , 12, 1095-1103	23
181	Metal-Organic Framework-Templated Catalyst: Synergy in Multiple Sites for Catalytic CO Fixation. 2017 , 10, 1898-1903	74
180	Catalytic performance of zeolitic imidazolate framework ZIF-95 for the solventless synthesis of cyclic carbonates from CO2 and epoxides. 2017 , 17, 112-118	47
179	Strategies for Enhancing the Catalytic Performance of Metal-Organic Frameworks in the Fixation of CO into Cyclic Carbonates. 2017 , 10, 1283-1291	64
178	An ultrastable zirconium-phosphonate framework as bifunctional catalyst for highly active CO chemical transformation. 2017 , 53, 1293-1296	61
177	Efficient and Reusable Metal©rganic Framework Catalysts for Carboxylative Cyclization of Propargylamines with Carbon Dioxide. 2017 , 9, 4598-4606	41

176	Inorganic Nanoparticles/Metal Organic Framework Hybrid Membrane Reactors for Efficient Photocatalytic Conversion of CO. 2017 , 9, 35010-35017	81
175	Salen(Co(iii)) imprisoned within pores of a metal-organic framework by post-synthetic modification and its asymmetric catalysis for CO fixation at room temperature. 2017 , 53, 10930-10933	45
174	CO Cycloaddition to Epoxides by using M-DABCO Metal-Organic Frameworks and the Influence of the Synthetic Method on Catalytic Reactivity. 2017 , 6, 674-680	26
173	The chemistry of metalorganic frameworks for CO2 capture, regeneration and conversion. 2017 , 2,	776
172	Aqueous microwave-assisted synthesis of non-interpenetrated metal-organic framework for room temperature cycloaddition of CO 2 and epoxides. 2017 , 544, 126-136	28
171	Pentanuclear Yb(III) cluster-based metal-organic frameworks as heterogeneous catalysts for CO2 conversion. 2017 , 219, 603-610	61
170	One-Step Synthesis of 2,5-Bis(chloromethyl)-1,4-dioxane from Epichlorohydrin Using ZIF-8, Taking Advantage of Structural Defects. 2017 , 2017, 4947-4954	7
169	Inverse relationship of dimensionality and catalytic activity in CO2 transformation: a systematic investigation by comparing multidimensional metal@rganic frameworks. 2017 , 5, 15961-15969	47
168	Solvent free utilization and selective coupling of epichlorohydrin with carbon dioxide over zirconium metal-organic frameworks. 2017 , 244, 251-257	27
167	Catalytic degradation of chemical warfare agents and their simulants by metal-organic frameworks. 2017 , 346, 101-111	206
166	Incorporation of Imidazolium-Based Poly(ionic liquid)s into a Metal©rganic Framework for CO2 Capture and Conversion. 2018 , 8, 3194-3201	239
165	Tandem oxidative isocyanide-based cycloaddition reactions in the presence of MIL-101(Cr) as a reusable solid catalyst. 2018 , 74, 1832-1837	12
164	Highly Efficient Catalytic Cyclic Carbonate Formation by Pyridyl Salicylimines. 2018, 10, 9478-9484	64
163	Zn 1,3,5-benzenetricarboxylate as an efficient catalyst for the synthesis of cyclic carbonates from CO 2018 , 8, 9192-9201	11
162	Functional group effects on a metal-organic framework catalyst for CO2 cycloaddition. 2018, 64, 478-483	38
161	An efficient atom-economical chemoselective CO2 cycloaddition using lanthanum oxide/tetrabutyl ammonium bromide. 2018 , 2, 1342-1349	20
160	Ni2(BDC)2(DABCO) metal®rganic framework for cyclic carbonate synthesis from CO2 and epoxides (BDC = 1,4-benzendicarboxylic acid, DABCO = 1,4-diazabicyclo[2.2.2]octane). 2018 , 124, 335-346	15
159	New Metal-Organic Frameworks for Chemical Fixation of CO. 2018 , 10, 733-744	127

(2018-2018)

158	Zirconium-based isoreticular metal-organic frameworks for CO2 fixation via cyclic carbonate synthesis. 2018 , 35, 438-444	11
157	A New Class of Metal-Cyclam-Based Zirconium Metal-Organic Frameworks for CO Adsorption and Chemical Fixation. 2018 , 140, 993-1003	135
156	A highly stable Mn phosphonate as a highly efficient catalyst for CO fixation under ambient conditions. 2018 , 54, 1758-1761	31
155	Bifunctional Pyridinium-Based Ionic-Liquid-Immobilized Diindium Tris(diphenic acid) Bis(1,10-phenanthroline) for CO Fixation. 2018 , 11, 924-932	28
154	Exceptionally Stable and 20-Connected Lanthanide Metal Drganic Frameworks for Selective CO2 Capture and Conversion at Atmospheric Pressure. 2018 , 18, 2432-2440	69
153	Designing bipyridine-functionalized zirconium metalBrganic frameworks as a platform for clean energy and other emerging applications. 2018 , 364, 33-50	70
152	A room temperature synthesizable zeolitic imidazolium framework catalyst for the solvent-free synthesis of cyclic carbonates. 2018 , 25, 6-13	16
151	Catalytic Strategies for the Cycloaddition of Pure, Diluted, and Waste CO2 to Epoxides under Ambient Conditions. 2018 , 8, 419-450	364
150	How Does CO2 React with Styrene Oxide in Co-MOF-74 and Mg-MOF-74? Catalytic Mechanisms Proposed by QM/MM Calculations. 2018 , 122, 503-514	16
149	Synthesis and functionalization of phase-pure NU-901 for enhanced CO2 adsorption: the influence of a zirconium salt and modulator on the topology and phase purity. 2018 , 20, 7066-7070	34
148	Three Component Controls in Pillared Metal-Organic Frameworks for Catalytic Carbon Dioxide Fixation. 2018 , 8, 565	3
147	A quantum-chemical insight on chemical fixation carbon dioxide with epoxides co-catalyzed by MIL-101 and tetrabutylammonium bromide. 2018 , 28, 200-206	21
146	Rational Design of a 3D Mn -Metal-Organic Framework Based on a Nonmetallated Porphyrin Linker for Selective Capture of CO and One-Pot Synthesis of Styrene Carbonates. 2018 , 24, 16662-16669	47
145	Catalytic Space Engineering of Porphyrin Metal-Organic Frameworks for Combined CO Capture and Conversion at a Low Concentration. 2018 , 11, 2340-2347	36
144	Anion-induced 3d-4f luminescent coordination clusters: structural characteristics and chemical fixation of CO under mild conditions. 2018 , 47, 7159-7165	26
143	Green applications of metalBrganic frameworks. 2018 , 20, 5899-5912	35
142	Facile Approach to Graft Ionic Liquid into MOF for Improving the Efficiency of CO Chemical Fixation. 2018 , 10, 27124-27130	94
141	Tuning Expanded Pores in Metal-Organic Frameworks for Selective Capture and Catalytic Conversion of Carbon Dioxide. 2018 , 11, 3751-3757	32

140	Correction: A microporous Cu-MOF with optimized open metal sites and pore spaces for high gas storage and active chemical fixation of CO. 2018 , 54, 7093-7094		14
139	Microporous 2D indium metal-organic frameworks for selective CO capture and their application in the catalytic CO-cycloaddition of epoxides. 2018 , 47, 9474-9481		33
138	Three-Dimensional Co(II)-Metal D rganic Frameworks with Varying Porosities and Open Metal Sites toward Multipurpose Heterogeneous Catalysis under Mild Conditions. 2019 , 19, 5343-5353		26
137	Catalytic CO Fixation over a Robust Lactam-Functionalized Cu(II) Metal Organic Framework. 2019 , 58, 9723-9732		26
136	ZIF-8 as a Catalyst in Ethylene Oxide and Propylene Oxide Reaction with CO2 to Cyclic Organic Carbonates. 2019 , 3, 60		7
135	A supermolecular building block approach for construction of chiral metal-organic frameworks. 2019 , 55, 8639-8642		8
134	Diversity-Oriented Metal Decoration on UiO-Type Metal-Organic Frameworks: an Efficient Approach to Increase CO Uptake and Catalytic Conversion to Cyclic Carbonates. 2019 , 4, 19037-19045		12
133	Synthesis of Nano/Microsized MIL-101Cr Through Combination of Microwave Heating and Emulsion Technology for Mixed-Matrix Membranes. 2019 , 7, 777		2
132	Zwitterion Bonjugated network polymer based on guanidinium and Eketoenol as a heterogeneous organo-catalyst for chemical fixation of CO2 into cyclic carbonates. 2019 , 7, 111102		6
131	Catalytic Non-redox Carbon Dioxide Fixation in Cyclic Carbonates. 2019 , 5, 3232-3242		33
131	Catalytic Non-redox Carbon Dioxide Fixation in Cyclic Carbonates. 2019 , 5, 3232-3242 Naphthalene Based Amide-Imine Derivative and its Dinuclear Vanadium Complex: Structures, Atmospheric CO2 Fixation and Theoretical Support. 2019 , 4, 10254-10259		2
	Naphthalene Based Amide-Imine Derivative and its Dinuclear Vanadium Complex: Structures,		
130	Naphthalene Based Amide-Imine Derivative and its Dinuclear Vanadium Complex: Structures, Atmospheric CO2 Fixation and Theoretical Support. 2019 , 4, 10254-10259	3.8	2
130 129	Naphthalene Based Amide-Imine Derivative and its Dinuclear Vanadium Complex: Structures, Atmospheric CO2 Fixation and Theoretical Support. 2019 , 4, 10254-10259 Gas Sorption Properties of a New Three-Dimensional In-ABDC MOF With a Diamond Net. 2019 , 6, Covalent Organic Frameworks for the Capture, Fixation, or Reduction of CO2. <i>Frontiers in Energy</i>	3.8	3
130 129 128	Naphthalene Based Amide-Imine Derivative and its Dinuclear Vanadium Complex: Structures, Atmospheric CO2 Fixation and Theoretical Support. 2019 , 4, 10254-10259 Gas Sorption Properties of a New Three-Dimensional In-ABDC MOF With a Diamond Net. 2019 , 6, Covalent Organic Frameworks for the Capture, Fixation, or Reduction of CO2. <i>Frontiers in Energy Research</i> , 2019 , 7, En route to CO-containing renewable materials: catalytic synthesis of polycarbonates and	3.8	2 3 55
130 129 128	Naphthalene Based Amide-Imine Derivative and its Dinuclear Vanadium Complex: Structures, Atmospheric CO2 Fixation and Theoretical Support. 2019, 4, 10254-10259 Gas Sorption Properties of a New Three-Dimensional In-ABDC MOF With a Diamond Net. 2019, 6, Covalent Organic Frameworks for the Capture, Fixation, or Reduction of CO2. Frontiers in Energy Research, 2019, 7, En route to CO-containing renewable materials: catalytic synthesis of polycarbonates and non-isocyanate polyhydroxyurethanes derived from cyclic carbonates. 2019, 55, 1360-1373 A Ni-cluster-based MOF as an efficient heterogeneous catalyst for the chemical transformation of	3.8	2 3 55 54
130 129 128 127 126	Naphthalene Based Amide-Imine Derivative and its Dinuclear Vanadium Complex: Structures, Atmospheric CO2 Fixation and Theoretical Support. 2019, 4, 10254-10259 Gas Sorption Properties of a New Three-Dimensional In-ABDC MOF With a Diamond Net. 2019, 6, Covalent Organic Frameworks for the Capture, Fixation, or Reduction of CO2. Frontiers in Energy Research, 2019, 7, En route to CO-containing renewable materials: catalytic synthesis of polycarbonates and non-isocyanate polyhydroxyurethanes derived from cyclic carbonates. 2019, 55, 1360-1373 A Ni-cluster-based MOF as an efficient heterogeneous catalyst for the chemical transformation of CO. 2019, 48, 1246-1250	3.8	2 3 55 54 14

(2019-2019)

122	Exploring the Role of Hexanuclear Clusters as Lewis Acidic Sites in Isostructural MetalØrganic Frameworks. 2019 , 31, 4166-4172	44
121	Computational screening of metal-substituted HKUST-1 catalysts for chemical fixation of carbon dioxide into epoxides. 2019 , 7, 14825-14834	28
120	Room temperature CO2 fixation via cyclic carbonate synthesis over vanadium-MOF catalysts. 2019 , 36, 643-649	6
119	A Ni3O-cluster based porous MOF for catalytic conversion of CO2 to cyclic carbonates. 2019 , 276, 190-193	18
118	Carbon capture and conversion using metal-organic frameworks and MOF-based materials. 2019 , 48, 2783-2828	910
117	Applications of Computational Chemistry to Selected Problems of Transition-Metal Catalysis in Biological and Nonbiological Systems. 2019 , 463-486	
116	Tuning CO2 conversion product selectivity of metal organic frameworks derived hybrid carbon photoelectrocatalytic reactors. 2019 , 148, 80-90	19
115	A Mn(II)-porphyrin based metal-organic framework (MOF) for visible-light-assisted cycloaddition of carbon dioxide with epoxides. 2019 , 280, 372-378	46
114	Multitask Guanidinium Bromide Functionalized Metal Organic Framework in Chemical Fixation of CO2 at Low Pressure and Temperature. 2019 , 58, 2784-2791	10
113	Entropy-Driven Mechanochemical Synthesis of Polymetallic Zeolitic Imidazolate Frameworks for CO2 Fixation. 2019 , 131, 5072-5076	17
112	Entropy-Driven Mechanochemical Synthesis of Polymetallic Zeolitic Imidazolate Frameworks for CO Fixation. 2019 , 58, 5018-5022	59
111	Environmentally Friendly, Co-catalyst-Free Chemical Fixation of CO at Mild Conditions Using Dual-Walled Nitrogen-Rich Three-Dimensional Porous Metal-Organic Frameworks. 2019 , 58, 3925-3936	80
110	Metal-organic framework-based heterogeneous catalysts for the conversion of C1 chemistry: CO, CO2 and CH4. 2019 , 387, 79-120	200
109	Hexanuclear 3d-4f complexes as efficient catalysts for converting CO into cyclic carbonates. 2019 , 48, 3941-3945	14
108	Cu-MOF-Catalyzed Carboxylation of Alkynes and Epoxides. 2019 , 55, 1813-1820	3
107	A Versatile Porous Silver-Coordinated Material for the Heterogeneous Catalysis of Chemical Conversion with Propargylic Alcohols and CO. 2019 , 9,	9
106	Mechanistic insights into CO2 cycloaddition to propylene oxide over a single copper atom incorporated graphene-based materials: A theoretical study. 2019 , 470, 755-763	13
105	Direct Catalytic Conversion of CO2 to Cyclic Organic Carbonates under Mild Reaction Conditions by Metal®rganic Frameworks. 2019 , 9, 34	32

104	Recent Improvements in the Production of Solar Fuels: From CO2 Reduction to Water Splitting and Artificial Photosynthesis. 2019 , 92, 178-192	132
103	Hydrogen bond activation strategy for cyclic carbonates synthesis from epoxides and CO2: current state-of-the art of catalyst development and reaction analysis. 2019 , 61, 214-269	113
102	CO2 cycloaddition with propylene oxide to form propylene carbonate on a copper metal-organic framework: A density functional theory study. 2019 , 463, 37-44	18
101	MetalBrganic frameworks and porous organic polymers for sustainable fixation of carbon dioxide into cyclic carbonates. 2019 , 378, 32-65	208
100	Selective cyclodimerization of epichlorohydrin to dioxane derivatives over MOFs. 2020, 13, 1088-1093	3
99	Metal-organic frameworks for photocatalytic CO2 reduction under visible radiation: A review of strategies and applications. 2020 , 340, 209-224	128
98	State of the Art and Prospects in Metal-Organic Framework (MOF)-Based and MOF-Derived Nanocatalysis. 2020 , 120, 1438-1511	727
97	Bifunctionalized polyacrylonitrile fibers as highly efficient and selective heterogeneous catalysts for cycloaddition of CO2 with epichlorohydrin under mild conditions. 2020 , 355, 162-170	5
96	Formation of C?X Bonds in CO Chemical Fixation Catalyzed by Metal-Organic Frameworks. 2020 , 32, e180616	53 60
95	The Comparison between Single Atom Catalysis and Surface Organometallic Catalysis. 2020 , 120, 734-813	120
94	Hierarchical ZIFs@Al2O3 composite materials as effective heterogeneous catalysts. 2020 , 297, 110009	4
93	Evaluation and understanding the performances of various derivatives of carbonyl-stabilized phosphonium ylides in CO transformation to cyclic carbonates. 2019 , 22, 223-237	12
92	Ethylenediamine Functionalized Metalloporphyrin Loaded Nanofibrous Membrane: A New Strategic Approach to Air filtration. 2020 , 30, 2142-2151	2
91	Recent Advances in Photocatalytic CO2 Utilisation Over Multifunctional Metal©rganic Frameworks. 2020 , 10, 1176	9
90	Rare-earth metal-organic frameworks: from structure to applications. 2020 , 49, 7949-7977	107
89	Ambient Chemical Fixation of CO2 Using a Robust Ag27 Cluster-Based Two-Dimensional Metal Drganic Framework. 2020 , 132, 20206-20211	3
88	Ambient Chemical Fixation of CO Using a Robust Ag Cluster-Based Two-Dimensional Metal-Organic Framework. 2020 , 59, 20031-20036	44
87	Paving way for sustainable earth-abundant metal based catalysts for chemical fixation of CO2 into epoxides for cyclic carbonate formation. 2020 , 1-88	7

(2021-2020)

86	Series of M-MOF-184 (M = Mg, Co, Ni, Zn, Cu, Fe) Metal-Organic Frameworks for Catalysis Cycloaddition of CO. 2020 , 59, 16747-16759	32
85	Synthesis of Defect-Engineered Homochiral Metal-Organic Frameworks Using L-Amino Acids: A Comprehensive Study of Chiral Catalyst Performance in CO2 Fixation Reaction. 2020 , 5, 10346-10354	2
84	Recent advances in the use of catalysts based on natural products for the conversion of CO2 into cyclic carbonates. 2020 , 22, 7665-7706	39
83	Catalytic CO2 fixation over a high-throughput synthesized copper terephthalate metal-organic framework. 2020 , 41, 101288	5
82	Allyl functionalized UiO-66 metal-organic framework as a catalyst for the synthesis of cyclic carbonates by CO2 cycloaddition. 2020 , 89, 104-110	23
81	Emerging trends in porous materials for CO capture and conversion. 2020 , 49, 4360-4404	196
80	The Significance of Metal Coordination in Imidazole-Functionalized Metal-Organic Frameworks for Carbon Dioxide Utilization. 2020 , 26, 13606-13610	2
79	Porous nitrogen-rich covalent organic framework for capture and conversion of CO2 at atmospheric pressure conditions. 2020 , 308, 110314	18
78	Comparison of Catalytic Activity of ZIF-8 and Zr/ZIF-8 for Greener Synthesis of Chloromethyl Ethylene Carbonate by CO2 Utilization. 2020 , 13, 521	7
77	Multiobjective Optimization for the Greener Synthesis of Chloromethyl Ethylene Carbonate by CO2 and Epichlorohydrin via Response Surface Methodology. 2020 , 13, 741	1
76	Self-assembly of tetranuclear 3d-4f helicates as highly efficient catalysts for CO cycloaddition reactions under mild conditions. 2020 , 49, 10270-10277	11
75	Carboxylative cyclization of propargylic alcohols with carbon dioxide: A facile and Green route to Emethylene cyclic carbonates. 2020 , 38, 220-231	31
74	MIL-101(Cr) for CO2 Conversion into Cyclic Carbonates, Under Solvent and Co-Catalyst Free Mild Reaction Conditions. 2020 , 10, 453	8
73	Zeolitic TetrazolateImidazolate Frameworks with SOD Topology for Room Temperature Fixation of CO2 to Cyclic Carbonates. 2020 , 20, 2866-2870	11
72	Redox and Nonredox CO2 Utilization: Dry Reforming of Methane and Catalytic Cyclic Carbonate Formation. 2020 , 5, 1689-1700	27
71	Lignocellulosic residues as catalysts for CO2 fixation: complementary experimental and computational approaches. 2021 , 28, 359-375	O
70	An overview of catalytic conversion of CO2 into fuels and chemicals using metal organic frameworks. 2021 , 149, 67-92	31
69	Terpyridine-Based 3D Metal-Organic-Frameworks: A Structure-Property Correlation. 2021 , 27, 5858-5870	11

68	A more effective catalysis of the CO2 fixation with aziridines: computational screening of metal-substituted HKUST-1. 2021 , 3, 4079-4088	1
67	A new 2D lanthanum based microporous MOF for efficient synthesis of cyclic carbonates through CO2 fixation. 2021 , 45, 9189-9196	5
66	The multifunctional design of metal Brganic framework by applying linker desymmetrization strategy: synergistic catalysis for high CO2-epoxide conversion.	2
65	Porous organic polymers as metal free heterogeneous organocatalysts.	10
64	Beyond structural motifs: the frontier of actinide-containing metal-organic frameworks. 2021 , 12, 7214-7230	13
63	Ionic liquid-based electrolytes for CO electroreduction and CO electroorganic transformation 2022 , 9, nwab022	7
62	A NiII Phosphonate as an Efficient Catalyst for the Synthesis of Cyclic Carbonate under Ambient Conditions. 2021 , 21, 1413-1417	3
61	Quest for an Efficient 2-in-1 MOF-Based Catalytic System for Cycloaddition of CO to Epoxides under Mild Conditions. 2021 , 13, 8344-8352	16
60	Catalytic Performance of CPM-200-In/Mg in the Cycloaddition of CO2 and Epoxides. 2021 , 11, 430	2
59	Efficient and Highly Selective CO Capture, Separation, and Chemical Conversion under Ambient Conditions by a Polar-Group-Appended Copper(II) Metal-Organic Framework. 2021 , 60, 5071-5080	6
58	Strategies for Integrated Capture and Conversion of CO from Dilute Flue Gases and the Atmosphere. 2021 , 14, 1805-1820	15
57	Copper-Based Metal-Organic Framework for Selective CO2 Adsoprtion and Catalysis Fixation of CO2 into Cyclic Carbonates. 2021 , 6, 4067-4073	3
56	Modeling Metal Influence on the Gate Opening in ZIF-8 Materials. 2021, 33, 4465-4473	6
55	Metal-organic framework composites as green/sustainable catalysts. 2021 , 436, 213827	33
54	Lanthanide Coordination Polymers through Design for Exceptional Catalytic Performances in CO2 Cycloaddition Reactions. 2021 , 9, 8581-8591	5
53	Cyclic carbonates synthesis by cycloaddition reaction of CO2 with epoxides in the presence of zinc-containing and ionic liquid catalysts. 1	2
52	Azo-Functionalized Zirconium-Based Metal-Organic Polyhedron as an Efficient Catalyst for CO Fixation with Epoxides. 2021 , 27, 12890-12899	2
51	Effect of MAF-6 Crystal Size on Its Physicochemical and Catalytic Properties in the Cycloaddition of CO2 to Propylene Oxide. 2021 , 11, 1061	4

50	New route for the synthesis of Co-MOF from metal substrates. 2021 , 324, 111310	0
49	Atomically Dispersed High-Density Al-N Sites in Porous Carbon for Efficient Photodriven CO Cycloaddition. 2021 , 33, e2103186	12
48	A review for Metal-Organic Frameworks (MOFs) utilization in capture and conversion of carbon dioxide into valuable products. 2021 , 53, 101715	8
47	Cyclic carbonates synthesis from epoxides and CO2 over NIIC-10 metal-organic frameworks. 2021 , 53, 101718	2
46	Reticular chemistry approach to explore the catalytic CO2-epoxide cycloaddition reaction over tetrahedral coordination Lewis acidic sites in a Rutile-type Zinc-phosphonocarboxylate framework. 2022 , 427, 131759	5
45	In situ cleavage and rearrangement synthesis of an easy-to-obtain and highly stable Cu(II)-based MOF for efficient heterogeneous catalysis of carbon dioxide conversion. 2021 , 23, 6307-6314	2
44	Recent progress in the catalytic transformation of carbon dioxide into biosourced organic carbonates. 2021 , 23, 1077-1113	48
43	The Amazing Chemistry of Metal-Organic Frameworks. 2017 , 339-369	1
42	Quaternary ammonium salt grafted nanoporous covalent organic polymer for atmospheric CO2 fixation and cyclic carbonate formation. 2020 , 356, 527-534	11
41	Reconsidering TOF calculation in the transformation of epoxides and CO2 into cyclic carbonates. 2020 , 38, 132-140	11
40	APLICA 🛮 🖟 🖺 S CATAL 🖟 🖫 ICAS DE MOFS DE Zr, Al, Ni, Co e Cu: CICLOADI 🖺 🖟 DE CO2 E S 🖟 NITESE DE GLIC 🖟 15.	
39	Metal Organic Frameworks as Heterogeneous Catalysts in Olefin Epoxidation and Carbon Dioxide Cycloaddition. 2021 , 9, 81	3
38	Study on Selected Metal-Organic Framework-Based Catalysts for Cycloaddition Reaction of CO with Epoxides: A Highly Economic Solution for Carbon Capture and Utilization. 2021 , 13,	O
37	Radioactive iodine capture by metal organic frameworks in liquid and vapour phases: An experimental, kinetic and mechanistic study. 2021 , 9, 106720	9
36	Mechanistic insights on CO2 utilization using sustainable catalysis. 2021 , 45, 22280-22288	2
35	Surface science approach to the heterogeneous cycloaddition of CO2 to epoxides catalyzed by site-isolated metal complexes and single atoms: A review. 2022 ,	1
34	Design Syntheses of Metal-Organic Layer with Rich N-sites for CO2 Chemical Fixation.	0
33	Synthetic, Photosynthetic, and Chemical Strategies to Enhance Carbon Dioxide Fixation. 2022 , 8, 18	1

32	Constructing [Co6(B-OH)6]-based pillar-layered MOF with open metal sites via steric-hindrance effect on ligand for CO2 adsorption and fixation. 2022 , 139, 109347	О
31	Design of porous organic polymer catalysts for transformation of carbon dioxide. 2021,	3
30	Review of Graphitic Carbon Nitride and Its Composite Catalysts for Selective Reduction of CO2. 2021 , 4, 12845-12890	2
29	Data_Sheet_1.PDF. 2019 ,	
28	Data_Sheet_1.PDF. 2019 ,	
27	Effective Dual-Functional Metal-Organic Framework (DF-MOF) as a Catalyst for the Solvent-Free Cycloaddition Reaction 2022 ,	O
26	Porous materials for capture and catalytic conversion of CO2 at low concentration. 2022, 465, 214576	3
25	MOF-Based Catalysts for the Production of Value-Added Fine Chemicals. 133-151	
24	Fabrication of Small-Sized ZIF-8 Confined in the Mesoporous SBA-15 with Synergistic Enhancement for CO2 Fixation with Epoxides.	
23	Cyclic carbonate formation from cycloaddition of CO2 to epoxides over bismuth subgallate photocatalyst. 2022 , 142, 109672	
22	Practice of function-oriented synthesis: high-efficiency CO2 conversion and Knoevenagel condensation by two novel In3-based MOFs with high-density active sites under mild conditions.	5
21	Synthesis, Structure, and Heterogeneous Catalysis of a Series of Structurally Diverse Coordination Polymers Based on 5-Nitroisophthalate.	1
20	Scalable synthesis of mixed-linker (Zn) ZIFs and their application in CO2 adsorption and fixation.	0
19	Analysing the Role of Anions in the Synthesis of Catalytic Active Urea-based MOF.	1
18	Zinc Complexes with N4-Donor Ligands as Catalysts for the Co2/Epoxides Cycloaddition.	0
17	Recent advances in computational study and design of MOF catalysts for CO2 conversion. 10,	O
16	Ab Initio Study of Metal Oxo-Trimer Nanoporous MOF Building Units for the Catalytic Conversion of CO2 to Methanol.	0
15	Valorization of CO2 through the Synthesis of Cyclic Carbonates Catalyzed by ZIFs. 2022 , 27, 7791	1

CITATION REPORT

14	A Comprehensive Review on Graphitic Carbon Nitride for Carbon Dioxide Photoreduction. 2201013	О
13	A Comprehensive Review On Bio Mimicked Multimolecular Frameworks & Supramolecules As Scaffolds For Enzyme Immobilization.	O
12	A Pentanuclear Cu(II)-based 2D Bilayer Coordination Polymer for CO2 Fixation Under Mild Conditions.	0
11	Leaching in Specific Facets of ZIF-67 and ZIF-L Zeolitic Imidazolate Frameworks During the CO2 Cycloaddition with Epichlorohydrin.	0
10	Cycloaddition of CO2 to Epichlorohydrin over Pyridine, Vinylpyridine, and Poly(vinylpyridine): The Influence of Steric Crowding on the Reaction Mechanism.	О
9	Thermal SolidBolid Transformation Synthesis of Zinc Anchored in Hierarchical Porous N-Doped Carbon for Efficient CO2 Applications. 2023 , 37, 2188-2200	O
8	MOF-Based Materials for CO2 Conversion. 2023 , 256-293	0
7	pH-Regulated lignin as a green catalyst for Highly-Efficient CO2 cycloaddition. 2023 , 346, 128353	Ο
6	Synthesis and metal-exchange of nano-ZIF-67 with Ni(II) and Mn(II) for enhanced catalytic CO2 conversion. 2023 , 34, 105458	0
5	Influence of structural properties of zinc complexes with N4-donor ligands on the catalyzed cycloaddition of CO2 to epoxides into cyclic carbonates. 2023 , 538, 112992	O
4	Insights into the Structure P roperty A ctivity Relationship of Zeolitic Imidazolate Frameworks for Acid B ase Catalysis. 2023 , 24, 4370	О
3	Composition States of MOFs. 2023 , 139-153	O
2	Title: Cr(III) Incorporated Melamine-Terephthalaldehyde Porous Organic Framework Nanosheet Catalyst for Carbon Dioxide Fixation Reaction. 2023 , 8,	О
1	Effect of Solvent Assisted Linker Exchange (SALE) and De Novo Synthetic Routes on CO2 Uptake and Fixation by Mixed-Linker Zeolitic Imidazolate Frameworks.	O