

# Somboon Chaemchuen

## List of Publications by Year in Descending Order

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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.

191  
papers

6,688  
citations

39  
h-index

76  
g-index

202  
ext. papers

7,927  
ext. citations

7  
avg, IF

6.44  
L-index

#	Paper	IF	Citations
191	Tandem Reactions Based on the Cyclization of Carbon Dioxide and Propargylic Alcohols: Derivative Applications of $\beta$ -Alkylidene Carbonates. <i>Catalysts</i> , <b>2022</b> , 12, 73	4	0
190	Engineering metal-organic frameworks for efficient photocatalytic conversion of CO <sub>2</sub> into solar fuels. <i>Coordination Chemistry Reviews</i> , <b>2022</b> , 450, 214245	23.2	8
189	CO <sub>2</sub> -induced dissolution of ZnO into ionic liquids and its catalytic application for the hydration of propargylic alcohols. <i>Applied Catalysis B: Environmental</i> , <b>2022</b> , 310, 121270	21.8	1
188	Metal Embedded Porous Carbon for Efficient CO <sub>2</sub> Cycloaddition under Mild Conditions. <i>Catalysts</i> , <b>2022</b> , 12, 427	4	0
187	Facile and green synthesis cobalt embedded in N-doped porous carbon under zeo-waste conditions as an efficient oxygen evolution reduction catalyst. <i>Microporous and Mesoporous Materials</i> , <b>2022</b> , 337, 111916	5.3	0
186	Sacrificial Zinc Oxide Strategy-Enhanced Mesoporosity in MIL-53-Derived Iron/Carbon Composite for Methylene Blue Adsorption. <i>Inorganics</i> , <b>2022</b> , 10, 59	2.9	1
185	Two-Dimensional Zeolitic Imidazolate Framework ZIF-L: A Promising Catalyst for Polymerization. <i>Catalysts</i> , <b>2022</b> , 12, 521	4	1
184	Benzimidazole-based N-heterocyclic carbene silver complexes as catalysts for the formation of carbonates from carbon dioxide and epoxides. <i>Molecular Catalysis</i> , <b>2022</b> , 526, 112369	3.3	0
183	Novel kinetic modeling of thiabendazole removal by adsorption and photocatalysis on porous organic polymers: effect of pH and visible light intensity. <i>Chemical Engineering Journal</i> , <b>2021</b> , 431, 133345	14.7	1
182	Gram-scale synthesis of carboxylic acids via catalytic acceptorless dehydrogenative coupling of alcohols and hydroxides at an ultralow Ru loading. <i>Applied Catalysis A: General</i> , <b>2021</b> , 630, 118443	5.1	1
181	A green and recyclable CuSO <sub>4</sub> ·5H <sub>2</sub> O/ionic liquid catalytic system for the CO <sub>2</sub> -promoted hydration of propargyl alcohols: an efficient assembly of $\beta$ -hydroxy ketones. <i>Journal of Catalysis</i> , <b>2021</b> , 405, 561-567	7.3	1
180	Simultaneous transformation of 2D to 3D and doped metal transitions of zeolitic imidazole frameworks under solid phase and free-solvent conditions. <i>Dalton Transactions</i> , <b>2021</b> , 50, 15793-15801	4.3	
179	Atomic layer deposition: State-of-the-art approach to nanoscale hetero-interfacial engineering of chemical sensors electrodes: A review. <i>Sensors and Actuators B: Chemical</i> , <b>2021</b> , 331, 129403	8.5	6
178	Solvent-free synthesis of cyclic polycaprolactone catalysed by MOF-derived ZnO/NCs catalysts. <i>European Polymer Journal</i> , <b>2021</b> , 142, 110127	5.2	1
177	An efficient and recyclable AgNO <sub>3</sub> /ionic liquid system catalyzed atmospheric CO <sub>2</sub> utilization: Simultaneous synthesis of 2-oxazolidinones and $\beta$ -hydroxyl ketones. <i>Journal of Catalysis</i> , <b>2021</b> , 393, 70-82	7.3	7
176	Smart recycling of PET to sorbents for insecticides through in situ MOF growth. <i>Applied Materials Today</i> , <b>2021</b> , 22, 100910	6.6	8
175	Cobalt embedded in nitrogen-doped porous carbon as a robust heterogeneous catalyst for the atom-economic alcohol dehydrogenation to carboxylic acids. <i>Carbon</i> , <b>2021</b> , 174, 284-294	10.4	8

174	Ring-opening copolymerization of $\epsilon$ -caprolactone and $\delta$ -valerolactone by a titanium-based metal-organic framework. <i>New Journal of Chemistry</i> , <b>2021</b> , 45, 11313-11316	3.6	1
173	Heterostructured plasmonic memristors with tunable opto-synaptic functionalities. <i>Journal of Materials Chemistry C</i> , <b>2021</b> , 9, 2539-2549	7.1	9
172	State-of-the-art surface oxide semiconductors of liquid metals: an emerging platform for development of multifunctional two-dimensional materials. <i>Journal of Materials Chemistry A</i> , <b>2021</b> , 9, 34-73	13	12
171	Green Synthesis of 2-Oxazolidinones by an Efficient and Recyclable CuBr/Ionic Liquid System via CO <sub>2</sub> , Propargylic Alcohols, and 2-Aminoethanols. <i>Catalysts</i> , <b>2021</b> , 11, 233	4	4
170	Atomic Heat Contributions for Carbon Dioxide Adsorption in IRMOF-1. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2021</b> , 60, 12650-12662	3.9	0
169	Molecular Insights into the Effect of Temperature and Functional Groups on the Nonwetting, Prewetting, Partial Wetting, and Complete Wetting Transitions of Ethanol on Graphite. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2021</b> , 60, 13040-13051	3.9	
168	In Situ Thermal Solvent-Free Synthesis of Zeolitic Imidazolate Frameworks with High Crystallinity and Porosity for Effective Adsorption and Catalytic Applications. <i>Crystal Growth and Design</i> , <b>2021</b> , 21, 5349-5359	3.5	4
167	Enhancing catalytic activity via metal tuning of zeolitic imidazole frameworks for ring opening polymerization of L-lactide. <i>Applied Catalysis A: General</i> , <b>2021</b> , 624, 118319	5.1	0
166	N-functionalized hierarchical carbon composite derived from ZIF-67 and carbon foam for efficient overall water splitting. <i>Journal of Industrial and Engineering Chemistry</i> , <b>2021</b> , 105, 222-222	6.3	1
165	Sacrificial ZnO nanorods drive N and O dual-doped carbon towards trifunctional electrocatalysts for Zn-air batteries and self-powered water splitting devices. <i>Catalysis Science and Technology</i> , <b>2021</b> , 11, 4149-4161	5.5	2
164	A Cu-based MOF for the effective carboxylation of terminal alkynes with CO <sub>2</sub> under mild conditions. <i>Journal of CO<sub>2</sub> Utilization</i> , <b>2020</b> , 39, 101177	7.6	9
163	Novel rapid room temperature synthesis of conjugated microporous polymer for metal-free photocatalytic degradation of fluoroquinolones. <i>Journal of Hazardous Materials</i> , <b>2020</b> , 398, 122928	12.8	13
162	Co-catalyst and solvent free nitrogen rich triazole based organocatalysts for cycloaddition of CO <sub>2</sub> into epoxide. <i>Molecular Catalysis</i> , <b>2020</b> , 493, 111071	3.3	4
161	Dual remediation of waste waters from methylene blue and chromium (VI) using thermally induced ZnO nanofibers. <i>Applied Surface Science</i> , <b>2020</b> , 514, 145939	6.7	9
160	Understanding the roles of variable Pd(II)/Pd(0) ratio supported on conjugated poly-azobenzene network: From characteristic alteration in properties to their cooperation towards visible-light-induced selective hydrogenation. <i>Journal of Catalysis</i> , <b>2020</b> , 385, 120-128	7.3	3
159	Nanoscale Au-ZnO Heterostructure Developed by Atomic Layer Deposition Towards Amperometric HO Detection. <i>Nanoscale Research Letters</i> , <b>2020</b> , 15, 41	5	7
158	Effects of nitrogen and oxygen functional groups and pore width of activated carbon on carbon dioxide capture: Temperature dependence. <i>Chemical Engineering Journal</i> , <b>2020</b> , 389, 124413	14.7	30
157	Synergistic performance of a sub-nanosopic cobalt and imidazole grafted porous organic polymer for CO <sub>2</sub> fixation to cyclic carbonates under ambient pressure without a co-catalyst. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 13916-13920	13	9

156	Kinetic modeling of oleic acid esterification with UiO-66: From intrinsic experimental data to kinetics via elementary reaction steps. <i>Chemical Engineering Journal</i> , <b>2020</b> , 394, 124816	14.7	8
155	CO <sub>2</sub> -Promoted Hydration of Propargylic Alcohols: Green Synthesis of $\beta$ -Hydroxy Ketones by an Efficient and Recyclable AgOAc/Ionic Liquid System. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2020</b> , 8, 8148-8155	8.3	16
154	MIL-101(Cr) for CO <sub>2</sub> Conversion into Cyclic Carbonates, Under Solvent and Co-Catalyst Free Mild Reaction Conditions. <i>Catalysts</i> , <b>2020</b> , 10, 453	4	8
153	Hierarchical ZIFs@Al <sub>2</sub> O <sub>3</sub> composite materials as effective heterogeneous catalysts. <i>Microporous and Mesoporous Materials</i> , <b>2020</b> , 297, 110009	5.3	4
152	Macrocyclic cyanocobalamin (vitamin B) as a homogeneous electrocatalyst for water oxidation under neutral conditions. <i>Chemical Communications</i> , <b>2020</b> , 56, 1968-1971	5.8	13
151	Thermochemical transformation in the single-step synthesis of zeolitic imidazole frameworks under solvent-free conditions. <i>Dalton Transactions</i> , <b>2020</b> , 49, 2811-2818	4.3	7
150	Triazole based cobalt catalyst for CO <sub>2</sub> insertion into epoxide at ambient pressure. <i>Applied Catalysis A: General</i> , <b>2020</b> , 591, 117384	5.1	16
149	Characterization of Natural Fibers from Cortaderia Selloana Grass (Pampas) as Reinforcement Material for the Production of the Composites. <i>Journal of Natural Fibers</i> , <b>2020</b> , 1-9	1.8	33
148	Well-defined N-heterocyclic carbene/ruthenium complexes for the alcohol amidation with amines: The dual role of cesium carbonate and improved activities applying an added ligand. <i>Applied Organometallic Chemistry</i> , <b>2020</b> , 34, e5323	3.1	5
147	Highly Efficient N-Heterocyclic Carbene/Ruthenium Catalytic Systems for the Acceptorless Dehydrogenation of Alcohols to Carboxylic Acids: Effects of Ancillary and Additional Ligands. <i>Catalysts</i> , <b>2020</b> , 10, 10	4	15
146	Palladium metallated shell layer of shell@core MOFs as an example of an efficient catalyst design strategy for effective olefin hydrogenation reaction. <i>Journal of Catalysis</i> , <b>2020</b> , 392, 141-149	7.3	7
145	Kinetic modeling of heterogeneous esterification reaction using initial reaction rate analysis: data extraction and evaluation of mass transfer criteria. <i>Data in Brief</i> , <b>2020</b> , 31, 106027	1.2	1
144	Nano-engineering and functionalization of hybrid Au-MeO-TiO (Me = W, Ga) hetero-interfaces for optoelectronic receptors and nociceptors. <i>Nanoscale</i> , <b>2020</b> , 12, 20177-20188	7.7	12
143	Effect of alkali treatment on performance characterization of Ziziphus mauritiana fiber and its epoxy composites. <i>Journal of Industrial Textiles</i> , <b>2020</b> , 152808372094261	1.6	17
142	High Molecular Weight Poly(methyl methacrylate) Synthesis Using Recyclable and Reusable Zeolitic Imidazole Framework-8 Catalyst. <i>Macromolecular Chemistry and Physics</i> , <b>2020</b> , 221, 2000271	2.6	1
141	Isoxazole derivatives of silatrane: synthesis, characterization, in silico ADME profile, prediction of potential pharmacological activity and evaluation of antimicrobial action. <i>Applied Organometallic Chemistry</i> , <b>2020</b> , 34, e5976	3.1	8
140	Progress of MOF-Derived Functional Materials Toward Industrialization in Solar Cells and Metal-Air Batteries. <i>Catalysts</i> , <b>2020</b> , 10, 897	4	5
139	Cross-Linked Mixed-Matrix Membranes Using Functionalized UiO-66-NH into PEG/PPG-PDMS-Based Rubbery Polymer for Efficient CO Separation. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 57916-57931	9.5	19

138	Selective cyclodimerization of epichlorohydrin to dioxane derivatives over MOFs. <i>Arabian Journal of Chemistry</i> , <b>2020</b> , 13, 1088-1093	5.9	3
137	Effects of functional group concentration, type, and configuration on their saturation of methanol adsorption on functionalized graphite. <i>Applied Surface Science</i> , <b>2020</b> , 501, 144121	6.7	7
136	Homogenous electrochemical water oxidation by a nickel(II) complex based on a macrocyclic N-heterocyclic carbene/pyridine hybrid ligand. <i>Catalysis Science and Technology</i> , <b>2019</b> , 9, 5651-5659	5.5	9
135	Metal-organic frameworks as catalysts for sugar conversion into platform chemicals: State-of-the-art and prospects. <i>Coordination Chemistry Reviews</i> , <b>2019</b> , 401, 213064	23.2	31
134	Bulk Ring-Opening Polymerization of $\epsilon$ -Caprolactone by Zeolitic Imidazolate Framework. <i>Catalysis Letters</i> , <b>2019</b> , 149, 2132-2141	2.8	4
133	Highly active dinuclear cobalt complexes for solvent-free cycloaddition of CO to epoxides at ambient pressure. <i>Chemical Communications</i> , <b>2019</b> , 55, 8274-8277	5.8	25
132	Highly active bidentate N-heterocyclic carbene/ruthenium complexes performing dehydrogenative coupling of alcohols and hydroxides in open air. <i>Chemical Communications</i> , <b>2019</b> , 55, 8591-8594	5.8	22
131	Flexibility in Metal-Organic Frameworks: A Basic Understanding. <i>Catalysts</i> , <b>2019</b> , 9, 512	4	18
130	Structure of methanol sub-monolayer on functionalized graphite at temperatures below the triple point. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2019</b> , 577, 110-117	5.1	4
129	3D derived N-doped carbon matrix from 2D ZIF-L as an enhanced stable catalyst for chemical fixation. <i>Microporous and Mesoporous Materials</i> , <b>2019</b> , 285, 80-88	5.3	24
128	Sonochemical functionalization of the low-dimensional surface oxide of Galinstan for heterostructured optoelectronic applications. <i>Journal of Materials Chemistry C</i> , <b>2019</b> , 7, 5584-5595	7.1	18
127	Switching from linear to cyclic $\epsilon$ -Polyvalerolactone synthesized via zeolitic imidazolate framework as a catalyst: A promising approach. <i>Applied Organometallic Chemistry</i> , <b>2019</b> , 33, e4890	3.1	1
126	Rational Design of Holey 2D Nonlayered Transition Metal Carbide/Nitride Heterostructure Nanosheets for Highly Efficient Water Oxidation. <i>Advanced Energy Materials</i> , <b>2019</b> , 9, 1803768	21.8	143
125	Chemical fixation of carbon dioxide catalyzed via cobalt (III) ONO pincer ligated complexes. <i>Communications Chemistry</i> , <b>2019</b> , 2,	6.3	19
124	Core-shell metal-organic frameworks and metal functionalization to access highest efficiency in catalytic carboxylation. <i>Journal of Catalysis</i> , <b>2019</b> , 371, 106-115	7.3	20
123	Efficient transformative HCHO capture by defective NH <sub>2</sub> -UiO-66(Zr) at room temperature. <i>Environmental Science: Nano</i> , <b>2019</b> , 6, 2931-2936	7.1	24
122	ONO pincer type ligand complexes of Al(III) as efficient catalyst for chemical fixation of CO <sub>2</sub> to epoxides at atmospheric pressure. <i>Journal of Catalysis</i> , <b>2019</b> , 377, 190-198	7.3	19
121	Conjugated mesoporous polyazobenzenePd(II) composite: A potential catalyst for visible-light-induced Sonogashira coupling. <i>Journal of Catalysis</i> , <b>2019</b> , 377, 183-189	7.3	9

120	Progress on Catalyst Development for Direct Synthesis of Dimethyl Carbonate from CO <sub>2</sub> and Methanol. <i>Chemistry Africa</i> , <b>2019</b> , 2, 533-549	2.2	6
119	MoS <sub>2</sub> coating on CoS <sub>x</sub> -embedded nitrogen-doped-carbon-nanosheets grown on carbon cloth for energy conversion. <i>Journal of Alloys and Compounds</i> , <b>2019</b> , 806, 1276-1284	5.7	4
118	Enhancing catalytic performance via structure core-shell metal-organic frameworks. <i>Journal of Catalysis</i> , <b>2019</b> , 375, 371-379	7.3	15
117	CO <sub>2</sub> insertion into epoxides using cesium salts as catalysts at ambient pressure. <i>Catalysis Science and Technology</i> , <b>2019</b> , 9, 3868-3873	5.5	9
116	Nanostructured tungsten oxide thin film devices: from optoelectronics and ionics to iontronics. <i>Journal of Materials Chemistry C</i> , <b>2019</b> , 7, 12968-12990	7.1	28
115	Extraction and characterization of natural fiber from Eleusine indica grass as reinforcement of sustainable fiber reinforced polymer composites. <i>Journal of Natural Fibers</i> , <b>2019</b> , 1-9	1.8	36
114	Pd-nanoparticle decorated azobenzene based colloidal porous organic polymer for visible and natural sunlight induced Mott-Schottky junction mediated instantaneous Suzuki coupling. <i>Chemical Engineering Journal</i> , <b>2019</b> , 358, 580-588	14.7	42
113	Robust and efficient catalyst derived from bimetallic Zn/Co zeolitic imidazolate frameworks for CO <sub>2</sub> conversion. <i>Journal of Catalysis</i> , <b>2019</b> , 370, 38-45	7.3	41
112	Concurrent adsorption and micro-electrolysis of Cr(VI) by nanoscale zerovalent iron/biochar/Ca-alginate composite. <i>Environmental Pollution</i> , <b>2019</b> , 247, 410-420	9.3	97
111	Solid-state transformation in porous metal-organic frameworks based on polymorphic-pillared net structure: Generation of tubular shaped MOFs. <i>Microporous and Mesoporous Materials</i> , <b>2019</b> , 278, 99-104	5.3	3
110	ALD-Developed Plasmonic Two-Dimensional Au-WO <sub>3</sub> -TiO <sub>2</sub> Heterojunction Architectonics for Design of Photovoltaic Devices. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 10304-10314	9.5	33
109	Selective and adsorptive removal of anionic dyes and CO with azolium-based metal-organic frameworks. <i>Journal of Colloid and Interface Science</i> , <b>2018</b> , 519, 214-223	9.3	32
108	Engineered synthesis of hierarchical porous organic polymers for visible light and natural sunlight induced rapid degradation of azo, thiazine and fluorescein based dyes in a unique mechanistic pathway. <i>Applied Catalysis B: Environmental</i> , <b>2018</b> , 227, 102-113	21.8	58
107	Synthesis and characterization of [Ru(NCNHCO)(bpy) <sub>2</sub> L] <sup>+</sup> complexes and their reactivity towards water oxidation. <i>New Journal of Chemistry</i> , <b>2018</b> , 42, 2476-2482	3.6	6
106	In situ Generated Ruthenium Catalyst Systems Bearing Diverse N-Heterocyclic Carbene Precursors for Atom-Economic Amide Synthesis from Alcohols and Amines. <i>Chemistry - an Asian Journal</i> , <b>2018</b> , 13, 440-448	4.5	20
105	Effects of temperature on methanol adsorption on functionalized graphite: Saturation of functional groups. <i>Chemical Engineering Science</i> , <b>2018</b> , 187, 16-26	4.4	7
104	MoO <sub>3</sub> nanoparticle formation on zeolitic imidazolate framework-8 by rotary chemical vapor deposition. <i>Microporous and Mesoporous Materials</i> , <b>2018</b> , 267, 185-191	5.3	18
103	The effect of synthesis procedure on the catalytic performance of isostructural ZIF-8. <i>Applied Organometallic Chemistry</i> , <b>2018</b> , 32, e4062	3.1	7



102	MoONPs/ZIF-8 composite material prepared via RCVD for photodegradation of dyes. <i>Data in Brief</i> , <b>2018</b> , 19, 2253-2259	1.2	0
101	Post-synthetically modified MOF for the A3-coupling reaction of aldehyde, amine, and alkyne. <i>Catalysis Science and Technology</i> , <b>2018</b> , 8, 4129-4140	5.5	20
100	Fully-sulfonated hydrated UiO66 as efficient catalyst for ethyl levulinate production by esterification. <i>Catalysis Communications</i> , <b>2018</b> , 117, 33-37	3.2	16
99	Synthesis of $\alpha$ -propylcarbamates in a recyclable AgBr/ionic liquid catalytic system: An efficient assembly of CO <sub>2</sub> under ambient pressure. <i>Journal of CO<sub>2</sub> Utilization</i> , <b>2018</b> , 27, 217-222	7.6	11
98	One-step synthesis of stereo-pure L,L lactide from L-lactic acid. <i>Catalysis Communications</i> , <b>2018</b> , 114, 33-36	3.2	11
97	Ultrasensitive, Sustainable, and Selective Electrochemical Hydrazine Detection by ALD-Developed Two-Dimensional WO <sub>3</sub> . <i>ChemElectroChem</i> , <b>2018</b> , 5, 266-272	4.3	13
96	2D Dual-Metal Zeolitic-Imidazolate-Framework-(ZIF)-Derived Bifunctional Air Electrodes with Ultrahigh Electrochemical Properties for Rechargeable Zinc-Air Batteries. <i>Advanced Functional Materials</i> , <b>2018</b> , 28, 1705048	15.6	269
95	Di-methyl carbonate transesterification with EtOH over MOFs: Basicity and synergic effect of basic and acid active sites. <i>Catalysis Communications</i> , <b>2018</b> , 104, 82-85	3.2	10
94	Nanostructure-induced performance degradation of WO <sub>3</sub> /HO for energy conversion and storage devices. <i>Beilstein Journal of Nanotechnology</i> , <b>2018</b> , 9, 2845-2854	3	1
93	Data for the synthesis of $\alpha$ -propylcarbamates from propargylic alcohols, secondary amines and CO catalyzed by a recyclable AgBr/ionic liquid system under ambient pressure. <i>Data in Brief</i> , <b>2018</b> , 20, 1378-1391	1.2	
92	Mono- and dinuclear organotin(IV) complexes for solvent free cycloaddition of CO <sub>2</sub> to epoxides at ambient pressure. <i>Journal of CO<sub>2</sub> Utilization</i> , <b>2018</b> , 28, 313-318	7.6	20
91	Dataset on the development of palladium nanoparticle decorated colloidal porous organic polymer for photocatalytic Suzuki coupling. <i>Data in Brief</i> , <b>2018</b> , 21, 1157-1165	1.2	5
90	SIMes/PCy <sub>3</sub> mixed ligand-coordinated alkyl group-tagged ruthenium indenylidene complexes: Synthesis, characterization and metathesis activity. <i>Applied Organometallic Chemistry</i> , <b>2018</b> , 32, e4548	3.1	2
89	Tunable Metal-Organic Frameworks for Heat Transformation Applications. <i>Nanomaterials</i> , <b>2018</b> , 8,	5.4	17
88	Spray drying of zeolitic imidazolate frameworks: investigation of crystal formation and properties. <i>CrystEngComm</i> , <b>2018</b> , 20, 3601-3608	3.3	18
87	Synthesis of 2D MOF having potential for efficient dye adsorption and catalytic applications. <i>Catalysis Science and Technology</i> , <b>2018</b> , 8, 4010-4017	5.5	57
86	Chemical and Photochemical Water Oxidation by [RuCl(NCNHCO)(DMSO)(py)]-Type Complexes. <i>ChemCatChem</i> , <b>2017</b> , 9, 2565-2573	5.2	5
85	Simultaneous creation of metal nanoparticles in metal organic frameworks via spray drying technique. <i>Chemical Engineering Journal</i> , <b>2017</b> , 322, 702-709	14.7	25

84	A recyclable AgI/OAc catalytic system for the efficient synthesis of alkylidene cyclic carbonates: carbon dioxide conversion at atmospheric pressure. <i>Green Chemistry</i> , <b>2017</b> , 19, 2936-2940	10	55
83	Carboxylation of Terminal Alkynes with Carbon Dioxide Catalyzed by an In Situ Ag <sub>2</sub> O/N-Heterocyclic Carbene Precursor System. <i>ChemCatChem</i> , <b>2017</b> , 9, 882-887	5.2	36
82	A Robust Molecular Catalyst Generated In Situ for Photo- and Electrochemical Water Oxidation. <i>ChemSusChem</i> , <b>2017</b> , 10, 862-875	8.3	36
81	One-pot carboxylative cyclization of propargylic alcohols and CO <sub>2</sub> catalysed by N-heterocyclic carbene/Ag systems. <i>Applied Organometallic Chemistry</i> , <b>2017</b> , 31, e3867	3.1	24
80	A simple and robust AgI/KOAc catalytic system for the carboxylative assembly of propargyl alcohols and carbon dioxide at atmospheric pressure. <i>Catalysis Science and Technology</i> , <b>2017</b> , 7, 2935-2939	5.5	24
79	Alternative materials in technologies for Biogas upgrading via CO <sub>2</sub> capture. <i>Renewable and Sustainable Energy Reviews</i> , <b>2017</b> , 79, 1414-1441	16.2	90
78	1 Zn-doped ZIF-67 as catalyst for the CO <sub>2</sub> fixation into cyclic carbonates. <i>Journal of CO<sub>2</sub> Utilization</i> , <b>2017</b> , 20, 282-291	7.6	63
77	Chemical and photochemical water oxidation catalyzed by novel ruthenium complexes comprising a negatively charged NCNHCO ligand. <i>Catalysis Science and Technology</i> , <b>2017</b> , 7, 387-395	5.5	13
76	Ring-Opening Polymerization of L-Lactide to Cyclic Poly(Lactide) by Zeolitic Imidazole Framework ZIF-8 Catalyst. <i>ChemSusChem</i> , <b>2017</b> , 10, 4135-4139	8.3	15
75	Defect formation in metal-organic frameworks initiated by the crystal growth-rate and effect on catalytic performance. <i>Journal of Catalysis</i> , <b>2017</b> , 354, 84-91	7.3	49
74	CO Cycloaddition to Epoxides by using M-DABCO Metal-Organic Frameworks and the Influence of the Synthetic Method on Catalytic Reactivity. <i>ChemistryOpen</i> , <b>2017</b> , 6, 674-680	2.3	26
73	Water Oxidation by In Situ Generated [Ru(OH)(NC(O)(pic)]. <i>Chemistry - an Asian Journal</i> , <b>2017</b> , 12, 2304-2310	2.3	2
72	Zn@ZIF-67 as Catalysts for the Knoevenagel Condensation of Aldehyde Derivatives with Malononitrile. <i>Catalysis Letters</i> , <b>2017</b> , 147, 2410-2420	2.8	24
71	Influence of lactic acid on the catalytic performance of MDABCO for ring-opening polymerization of L-lactide. <i>Applied Catalysis A: General</i> , <b>2017</b> , 546, 15-21	5.1	9
70	One-Step Synthesis of 2,5-Bis(chloromethyl)-1,4-dioxane from Epichlorohydrin Using ZIF-8, Taking Advantage of Structural Defects. <i>European Journal of Inorganic Chemistry</i> , <b>2017</b> , 2017, 4947-4954	2.3	7
69	Characterization and properties of Zn/Co zeolitic imidazolate frameworks vs. ZIF-8 and ZIF-67. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 952-957	13	331
68	Rapid room temperature synthesis forming pillared metal-organic frameworks with Kagome-like topology. <i>Microporous and Mesoporous Materials</i> , <b>2017</b> , 239, 28-33	5.3	17
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38	Metal-organic frameworks for upgrading biogas via CO <sub>2</sub> adsorption to biogas green energy. <i>Chemical Society Reviews</i> , <b>2013</b> , 42, 9304-32	58.5	295
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36	Two new Ln/Ag heterometallic-based conversion phosphors constructed by 1H-benzimidazole-5,6-dicarboxylic acid. <i>CrystEngComm</i> , <b>2012</b> , 14, 1753	3.3	12
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34	Olefin isomerization reactions catalyzed by ruthenium hydrides bearing Schiff base ligands. <i>Applied Organometallic Chemistry</i> , <b>2011</b> , 25, 601-607	3.1	9
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13	Controlled Radical Polymerization Mediated by Cationic Arene Ruthenium Complexes. <i>Polymer Bulletin</i> , <b>2003</b> , 50, 17-23	2.4	17

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