

Robin Babu

List of Publications by Year in descending order

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Version: 2024-02-01

19
papers

1,559
citations

471061

17
h-index

794141

19
g-index

19
all docs

19
docs citations

19
times ranked

1633
citing authors

#	ARTICLE	IF	CITATIONS
1	Dual-porous metal organic framework for room temperature CO ₂ fixation via cyclic carbonate synthesis. <i>Green Chemistry</i> , 2016, 18, 232-242.	4.6	220
2	A room temperature synthesizable and environmental friendly heterogeneous ZIF-67 catalyst for the solvent less and co-catalyst free synthesis of cyclic carbonates. <i>Applied Catalysis B: Environmental</i> , 2016, 182, 562-569.	10.8	175
3	Ionic liquid tethered post functionalized ZIF-90 framework for the cycloaddition of propylene oxide and CO ₂ . <i>Green Chemistry</i> , 2016, 18, 2479-2487.	4.6	174
4	Rapid, Microwave-Assisted Synthesis of Cubic, Three-Dimensional, Highly Porous MOF-205 for Room Temperature CO ₂ Fixation via Cyclic Carbonate Synthesis. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 33723-33731.	4.0	146
5	A sustainable protocol for the facile synthesis of zinc-glutamate MOF: an efficient catalyst for room temperature CO ₂ fixation reactions under wet conditions. <i>Chemical Communications</i> , 2016, 52, 280-283.	2.2	140
6	A solid solution zeolitic imidazolate framework as a room temperature efficient catalyst for the chemical fixation of CO ₂ . <i>Green Chemistry</i> , 2016, 18, 6349-6356.	4.6	118
7	An Icy-topology amino acid MOF as eco-friendly catalyst for cyclic carbonate synthesis from CO ₂ : Structure-DFT corroborated study. <i>Journal of Materials Chemistry A</i> , 2015, 3, 22636-22647.	5.2	106
8	Advancements in the Conversion of Carbon Dioxide to Cyclic Carbonates Using Metal Organic Frameworks as Catalysts. <i>Catalysis Surveys From Asia</i> , 2015, 19, 223-235.	1.0	101
9	Microwave-induced synthesis of a bimetallic charge-transfer metal organic framework: a promising host for the chemical fixation of CO ₂ . <i>Catalysis Science and Technology</i> , 2018, 8, 591-600.	2.1	79
10	Inverse relationship of dimensionality and catalytic activity in CO ₂ transformation: a systematic investigation by comparing multidimensional metal-organic frameworks. <i>Journal of Materials Chemistry A</i> , 2017, 5, 15961-15969.	5.2	57
11	Cycloaddition of CO ₂ with epoxides by using an amino-acid-based Cu(II)-tryptophan MOF catalyst. <i>Chinese Journal of Catalysis</i> , 2018, 39, 63-70.	6.9	45
12	Aqueous microwave-assisted synthesis of non-interpenetrated metal-organic framework for room temperature cycloaddition of CO ₂ and epoxides. <i>Applied Catalysis A: General</i> , 2017, 544, 126-136.	2.2	40
13	A computational study of the mechanistic insights into base catalysed synthesis of cyclic carbonates from CO ₂ : bicarbonate anion as an active species. <i>Catalysis Science and Technology</i> , 2016, 6, 3997-4004.	2.1	37
14	Bifunctional Pyridinium-Based Ionic-Liquid-Immobilized Diindium Tris(diphenic acid) Bis(1,10-phenanthroline) for CO ₂ Fixation. <i>ChemSusChem</i> , 2018, 11, 924-932.	3.6	32
15	A room temperature synthesizable zeolitic imidazolium framework catalyst for the solvent-free synthesis of cyclic carbonates. <i>Journal of CO₂ Utilization</i> , 2018, 25, 6-13.	3.3	29
16	Catalytic performance of metal azolate frameworks in the solventless synthesis of cyclic carbonates from CO ₂ and epoxides. <i>Applied Catalysis A: General</i> , 2017, 538, 59-65.	2.2	20
17	Zirconium-based isorecticular metal-organic frameworks for CO ₂ fixation via cyclic carbonate synthesis. <i>Korean Journal of Chemical Engineering</i> , 2018, 35, 438-444.	1.2	19
18	Cycloaddition of CO ₂ and propylene oxide by using M (HBTC)(4,4'-bipy)·3DMF (M = Ni, Co, Zn) metal-organic frameworks. <i>Chinese Journal of Catalysis</i> , 2018, 39, 1311-1319.	6.9	13

#	ARTICLE	IF	CITATIONS
19	Room temperature CO ₂ fixation via cyclic carbonate synthesis over vanadium-MOF catalysts. Korean Journal of Chemical Engineering, 2019, 36, 643-649.	1.2	8