Amal Cherian Kathalikkattil

List of Publications by Year
in descending order

48 papers	2,574 citations	185998 28 h-index	197535 49 g-index
52 all docs	52 docs citations	52 times ranked	2368 citing authors

#	Article	IF	Citations
1	A Photostable 1D Rutheniumâ^'Zinc Coordination Polymer as a Multimetallic Building Block for Light Harvesting Systems. ChemPhotoChem, 2022, 6, e202100299.	1.5	2
2	Three-dimensional amino acid backbone Cu-aspartate metalâ€"organic framework as a catalyst for the cycloaddition of propylene oxide and CO2. Reaction Kinetics, Mechanisms and Catalysis, 2021, 133, 425-439.	0.8	3
3	Modulating Structural and Electronic Properties of Rare Archimedean and Johnson-Type Mn Cages. Inorganic Chemistry, 2021, 60, 8388-8393.	1.9	4
4	A catalytic approach of blending CO2-activating MOF struts for cycloaddition reaction in a helically interlaced Cu(II) amino acid imidazolate framework: DFT-corroborated investigation. Research on Chemical Intermediates, 2021, 47, 3979-3997.	1.3	7
5	Tuning the Catalytic Water Oxidation Activity through Structural Modifications of High-Nuclearity Mn-oxo Clusters [Mn18M] (M = Sr2+, Mn2+). Water (Switzerland), 2021, 13, 2042.	1.2	2
6	Synthetic Approaches to Metallo-Supramolecular Co^{II} Polygons and Potential Use for H₂O Oxidation. Inorganic Chemistry, 2020, 59, 14432-14438.	1.9	2
7	Bioinspired Water Oxidation Using a Mn-Oxo Cluster Stabilized by Non-Innocent Organic Tyrosine Y161 and Plastoquinone Mimics. ACS Sustainable Chemistry and Engineering, 2020, 8, 13648-13659.	3.2	7
8	A cubane-type manganese complex with H₂O oxidation capabilities. Sustainable Energy and Fuels, 2020, 4, 4464-4468.	2.5	6
9	Assembly, disassembly and reassembly: a â€œtop-downâ€•synthetic strategy towards hybrid, mixed-metal {Mo₁₀Co₆} POM clusters. Dalton Transactions, 2019, 48, 3018-3027.	1.6	7
10	Cycloaddition of CO 2 with epoxides by using an amino-acid-based Cu(II)â€"tryptophan MOF catalyst. Chinese Journal of Catalysis, 2018, 39, 63-70.	6.9	45
11	CO2 Adsorption in SIFSIX-14-Cu-i: High Performance, Inflected Isotherms, and Water-Triggered Release via Reversible Structural Transformation. European Journal of Inorganic Chemistry, 2018, 2018, 1993-1997.	1.0	8
12	Passing it up the ranks: hierarchical ion-size dependent supramolecular response in 1D coordination polymers. CrystEngComm, 2018, 20, 5127-5131.	1.3	3
13	Aqueous microwave-assisted synthesis of non-interpenetrated metal-organic framework for room temperature cycloaddition of CO 2 and epoxides. Applied Catalysis A: General, 2017, 544, 126-136.	2.2	40
14	Rapid, Microwave-Assisted Synthesis of Cubic, Three-Dimensional, Highly Porous MOF-205 for Room Temperature CO₂ Fixation via Cyclic Carbonate Synthesis. ACS Applied Materials & Interfaces, 2016, 8, 33723-33731.	4.0	146
15	A computational study of the mechanistic insights into base catalysed synthesis of cyclic carbonates from CO₂: bicarbonate anion as an active species. Catalysis Science and Technology, 2016, 6, 3997-4004.	2.1	37
16	Ionic liquid tethered post functionalized ZIF-90 framework for the cycloaddition of propylene oxide and CO₂. Green Chemistry, 2016, 18, 2479-2487.	4.6	174
17	A sustainable protocol for the facile synthesis of zinc-glutamate MOF: an efficient catalyst for room temperature CO₂fixation reactions under wet conditions. Chemical Communications, 2016, 52, 280-283.	2.2	140
18	A room temperature synthesizable and environmental friendly heterogeneous ZIF-67 catalyst for the solvent less and co-catalyst free synthesis of cyclic carbonates. Applied Catalysis B: Environmental, 2016, 182, 562-569.	10.8	175

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19	Dual-porous metal organic framework for room temperature CO₂ fixation via cyclic carbonate synthesis. Green Chemistry, 2016, 18, 232-242.	4.6	220
20	Exploring the Catalytic Potential of ZIFâ€90: Solventless and Coâ€Catalystâ€Free Synthesis of Propylene Carbonate from Propylene Oxide and CO₂. ChemPlusChem, 2015, 80, 715-721.	1.3	62
21	Sulfonic acid functionalized mesoporous SBA-15 as catalyst for styrene carbonate synthesis from CO2 and styrene oxide at moderate reaction conditions. Journal of CO2 Utilization, 2015, 10, 88-94.	3.3	40
22	Progress in the synthetic and functional aspects of chiral metalâ€“organic frameworks. CrystEngComm, 2015, 17, 5341-5356.	1.3	61
23	An lcy-topology amino acid MOF as eco-friendly catalyst for cyclic carbonate synthesis from CO₂: Structure-DFT corroborated study. Journal of Materials Chemistry A, 2015, 3, 22636-22647.	5.2	106
24	Advancements in the Conversion of Carbon Dioxide to Cyclic Carbonates Using Metal Organic Frameworks as Catalysts. Catalysis Surveys From Asia, 2015, 19, 223-235.	1.0	101
25	Organic sulphonate salts tethered to mesoporous silicas as catalysts for CO₂ fixation into cyclic carbonates. Catalysis Science and Technology, 2015, 5, 1580-1587.	2.1	30
26	Pillared Cobaltâ€“Amino Acid Framework Catalysis for Styrene Carbonate Synthesis from CO₂ and Epoxide by Metalâ€“Sulfonateâ€“Halide Synergism. ChemCatChem, 2014, 6, 284-292.	1.8	51
27	Microwave-assisted one pot-synthesis of amino acid ionic liquids in water: simple catalysts for styrene carbonate synthesis under atmospheric pressure of CO₂. Catalysis Science and Technology, 2014, 4, 963-970.	2.1	56
28	The unprecedented catalytic activity of alkanolamine CO₂ scrubbers in the cycloaddition of CO₂ and oxiranes: a DFT endorsed study. Chemical Communications, 2014, 50, 13664-13667.	2.2	71
29	Natural amino acids/H₂O as a metal- and halide-free catalyst system for the synthesis of propylene carbonate from propylene oxide and CO₂under moderate conditions. RSC Advances, 2014, 4, 41266-41270.	1.7	34
30	Aqueous-microwave synthesized carboxyl functional molecular ribbon coordination framework catalyst for the synthesis of cyclic carbonates from epoxides and CO2. Green Chemistry, 2014, 16, 1607.	4.6	124
31	Amino acid/KI as multi-functional synergistic catalysts for cyclic carbonate synthesis from CO₂under mild reaction conditions: a DFT corroborated study. Dalton Transactions, 2014, 43, 2023-2031.	1.6	114
32	Microwave-assisted, rapid cycloaddition of allyl glycidyl ether and CO2 by employing pyridinium-based ionic liquid catalysts. Catalysis Communications, 2014, 54, 31-34.	1.6	26
33	Microwave synthesized quaternized celluloses for cyclic carbonate synthesis from carbon dioxide and epoxides. Applied Catalysis A: General, 2013, 467, 17-25.	2.2	52
34	Catalytic applications of immobilized ionic liquids for synthesis of cyclic carbonates from carbon dioxide and epoxides. Korean Journal of Chemical Engineering, 2013, 30, 1973-1984.	1.2	46
35	Cycloaddition of styrene oxide and CO2 mediated by pyrolysis of urea. RSC Advances, 2013, 3, 14290.	1.7	6
36	Simple and efficient synthesis of cyclic carbonates using quaternized glycine as a green catalyst. Physical Chemistry Chemical Physics, 2013, 15, 9029.	1.3	44

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37	Microwave-assisted synthesis of cyclic carbonates by a formic acid/KI catalytic system. Green Chemistry, 2013, 15, 1673.	4.6	109
38	Hybrid Inorganicâ€“Organic Framework as Efficient Heterogeneous Catalyst for the Synthesis of Allyl Glycidyl Carbonate from CO₂ and Allyl Glycidyl Ether. Journal of Nanoscience and Nanotechnology, 2013, 13, 2230-2235.	0.9	15
39	A novel approach of utilizing quaternized chitosan as a catalyst for the eco-friendly cycloaddition of epoxides with CO2. Catalysis Science and Technology, 2012, 2, 1674.	2.1	110
40	Efficient route for oxazolidinone synthesis using heterogeneous biopolymer catalysts from unactivated alkyl aziridine and CO2 under mild conditions. Applied Catalysis A: General, 2012, 447-448, 107-114.	2.2	60
41	Structure modulation, argentophilic interactions and photoluminescence properties of silver(i) coordination polymers with isomeric N-donor ligands. RSC Advances, 2012, 2, 8421.	1.7	30
42	Hydrogen-Bonded One- and Two-Dimensional Hybrid Water-Chloride Motifs. Crystal Growth and Design, 2012, 12, 556-561.	1.4	15
43	Exploring supramolecular interactions between inorganic tetrachlorometallate and organic pyridinium dication: Synthesis, characterization and structural investigations. Journal of Molecular Structure, 2012, 1013, 102-110.	1.8	23
44	Synthesis, Magnetic Properties, and Structural Investigation of Mixed-Ligand Cu(II) Helical Coordination Polymers with an Amino Acid Backbone and N-Donor Propping: 1-D Helical, 2-D Hexagonal Net (hcb), and 3-D ins Topologies. Crystal Growth and Design, 2011, 11, 1631-1641.	1.4	79
45	Hydrogen bonded binary molecular adducts derived from exobidentate N-donor ligand with dicarboxylic acids: Acidâ¯imidazole hydrogen-bonding interactions in neutral and ionic heterosynthons. Journal of Molecular Structure, 2011, 985, 361-370.	1.8	23
46	Structural diversity in two dimensional chiral coordination polymers involving 4,4â€²-bipyridine and l-cysteate as bridging ligands with Zn and Cd metal centres: Synthesis, characterization and X-ray crystallographic studies. Inorganica Chimica Acta, 2011, 365, 363-370.	1.2	29
47	Structural Investigation of Metal-Organic Cu(II) Coordination Frameworks Constructed from N-donor and Î±, Ï‰-Dicarboxylate Ligands by One Pot Synthesis: Zigzag Strands, Layered Networks and Its Interaction with Lattice Water Molecules. Journal of Chemical Crystallography, 2010, 40, 1087-1093.	0.5	11
48	Synthesis, characterization and X-ray crystallographic investigation of 2-D hybrid hydrogen bonded and rectangular grid networks in Cu(II) and Co(II) metal complexes. Polyhedron, 2010, 29, 1801-1809.	1.0	17