C Mallaiah Nagaraja

List of Publications by Year in descending order

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87 papers

3,334 citations

35 h-index 54 g-index

89 all docs 89 docs citations

89 times ranked

3606 citing authors

#	Article	IF	CITATIONS
1	Design of noble metal-free CoTiO3/Zn0.5Cd0.5S heterostructure photocatalyst for selective synthesis of furfuraldehyde combined with H2production. Journal of Colloid and Interface Science, 2022, 608, 1040-1050.	5.0	40
2	Design of noble metal-free NiTiO3/Znln2S4 heterojunction photocatalyst for efficient visible-light-assisted production of H2 and selective synthesis of 2,5-Bis(hydroxymethyl)furan. Journal of Colloid and Interface Science, 2022, 615, 346-356.	5.0	38
3	Design of Bifunctional Zinc(II)–Organic Framework for Efficient Coupling of CO ₂ with Terminal/Internal Epoxides under Mild Conditions. Crystal Growth and Design, 2022, 22, 598-607.	1.4	28
4	Strategic design of a bifunctional Ag(<scp>i</scp>)-grafted NHC-MOF for efficient chemical fixation of CO ₂ from a dilute gas under ambient conditions. Inorganic Chemistry Frontiers, 2022, 9, 2583-2593.	3.0	26
5	Strategic Design of Mg-Centered Porphyrin Metal–Organic Framework for Efficient Visible Light-Promoted Fixation of CO ₂ under Ambient Conditions: Combined Experimental and Theoretical Investigation. ACS Applied Materials & Samp; Interfaces, 2022, 14, 33285-33296.	4.0	39
6	Noble metal-free Cu(<scp>i</scp>)-anchored NHC-based MOF for highly recyclable fixation of CO ₂ under RT and atmospheric pressure conditions. Green Chemistry, 2021, 23, 5195-5204.	4.6	57
7	Efficient chemical fixation of CO ₂ from direct air under environment-friendly co-catalyst and solvent-free ambient conditions. Journal of Materials Chemistry A, 2021, 9, 23127-23139.	5.2	51
8	Sulfonic acid functionalized graphitic carbon nitride as solid acid–base bifunctional catalyst for Knoevenagel condensation and multicomponent tandem reactions. Materials Chemistry Frontiers, 2021, 5, 6265-6278.	3.2	70
9	Recent Developments in the Design of Cd _{<i>x</i>} Zn _{1â^²<i>x</i>} Sâ€Based Photocatalysts for Sustainable Production of Hydrogen. Solar Rrl, 2021, 5, 2100226.	3.1	23
10	Efficient photocatalytic generation of hydrogen by twin Zn Cd S nanorods decorated with noble metal-free co-catalyst and reduction of 4-nitrophenol in water. Applied Surface Science, 2021, 550, 149367.	3.1	20
11	Influence of Lewis and BrÃ,nsted acidic sites on graphitic carbon nitride catalyst for aqueous phase conversion of biomass derived monosaccharides to 5-hydroxymethylfurfural. Carbon, 2021, 183, 984-998.	5.4	32
12	Highly efficient metal/solvent-free chemical fixation of CO2 at atmospheric pressure conditions using functionalized porous covalent organic frameworks. Journal of CO2 Utilization, 2021, 53, 101716.	3.3	26
13	Chemical Fixation of CO ₂ Under Solvent and Co-Catalyst-free Conditions Using a Highly Porous Two-fold Interpenetrated Cu(II)-Metal–Organic Framework. Crystal Growth and Design, 2021, 21, 1233-1241.	1.4	27
14	Construction of a bifunctional Zn(<scp>ii</scp>)–organic framework containing a basic amine functionality for selective capture and room temperature fixation of CO ₂ . Inorganic Chemistry Frontiers, 2020, 7, 72-81.	3.0	46
15	Oxidized graphitic carbon nitride as a sustainable metal-free catalyst for hydrogen transfer reactions under mild conditions. Green Chemistry, 2020, 22, 5084-5095.	4.6	71
16	Rational Design of a Zn ^{II} MOF with Multiple Functional Sites for Highly Efficient Fixation of CO ₂ under Mild Conditions: Combined Experimental and Theoretical Investigation. Chemistry - A European Journal, 2020, 26, 17445-17454.	1.7	42
17	Highly efficient visible-light-driven reduction of Cr(<scp>vi< scp>) from water by porphyrin-based metal–organic frameworks: effect of band gap engineering on the photocatalytic activity. Catalysis Science and Technology, 2020, 10, 7724-7733.</scp>	2.1	41
18	Porous nitrogen-rich covalent organic framework for capture and conversion of CO2 at atmospheric pressure conditions. Microporous and Mesoporous Materials, 2020, 308, 110314.	2.2	41

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19	Coâ€Catalystâ€Free Chemical Fixation of CO ₂ into Cyclic Carbonates by using Metalâ€Organic Frameworks as Efficient Heterogeneous Catalysts. Chemistry - an Asian Journal, 2020, 15, 2403-2427.	1.7	68
20	Visible-Light-Driven Selective Oxidation of Biomass-Derived HMF to DFF Coupled with H ₂ Generation by Noble Metal-Free Zn _{0.5} Cd _{0.5} S/MnO ₂ Heterostructures. ACS Applied Energy Materials, 2020, 3, 7138-7148.	2.5	60
21	Construction of highly water-stable fluorinated 2D coordination polymers with various N, N'-donors: Syntheses, crystal structures and photoluminescence properties. Journal of Solid State Chemistry, 2020, 290, 121560.	1.4	4
22	Highly Efficient Fixation of Carbon Dioxide at RT and Atmospheric Pressure Conditions: Influence of Polar Functionality on Selective Capture and Conversion of CO ₂ . Inorganic Chemistry, 2020, 59, 9765-9773.	1.9	49
23	Enhanced visible-light-assisted photocatalytic hydrogen generation by MoS2/g-C3N4 nanocomposites. International Journal of Hydrogen Energy, 2020, 45, 8497-8506.	3.8	37
24	Acylation of oxindoles using methyl/phenyl esters <i>via</i> the mixed Claisen condensation – an access to 3-alkylideneoxindoles. Organic and Biomolecular Chemistry, 2020, 18, 3843-3847.	1.5	7
25	Construction of 3D lanthanide based MOFs with pores decorated with basic imidazole groups for selective capture and chemical fixation of CO ₂ . New Journal of Chemistry, 2020, 44, 9090-9096.	1.4	15
26	Ruthenium(II)-arene complexes containing ferrocenamide ligands: Synthesis, characterisation and antiproliferative activity against cancer cell lines. Journal of Organometallic Chemistry, 2020, 916, 121247.	0.8	8
27	Photochemical oxidation of water catalysed by cyclometalated Ir(iii) complexes bearing Schiff-base ligands. New Journal of Chemistry, 2019, 43, 13662-13669.	1.4	4
28	Environment-friendly, co-catalyst- and solvent-free fixation of CO ₂ using an ionic zinc(<scp>ii</scp>)–porphyrin complex immobilized in porous metal–organic frameworks. Sustainable Energy and Fuels, 2019, 3, 2977-2982.	2.5	57
29	Construction of a 3D porous Co(<scp>ii</scp>) metal–organic framework (MOF) with Lewis acidic metal sites exhibiting selective CO ₂ capture and conversion under mild conditions. New Journal of Chemistry, 2019, 43, 2163-2170.	1.4	35
30	Molecular Basis of Water Sorption Behavior of Rivaroxaban-Malonic Acid Cocrystal. Molecular Pharmaceutics, 2019, 16, 2980-2991.	2.3	30
31	Construction of bifunctional 2-fold interpenetrated Zn(<scp>ii</scp>) MOFs exhibiting selective CO ₂ adsorption and aqueous-phase sensing of 2,4,6-trinitrophenol. Inorganic Chemistry Frontiers, 2019, 6, 1058-1067.	3.0	48
32	A Mn(II)-porphyrin based metal-organic framework (MOF) for visible-light-assisted cycloaddition of carbon dioxide with epoxides. Microporous and Mesoporous Materials, 2019, 280, 372-378.	2.2	69
33	Environmentally Friendly, Co-catalyst-Free Chemical Fixation of CO ₂ at Mild Conditions Using Dual-Walled Nitrogen-Rich Three-Dimensional Porous Metal–Organic Frameworks. Inorganic Chemistry, 2019, 58, 3925-3936.	1.9	111
34	Sulfonated graphitic carbon nitride as a highly selective and efficient heterogeneous catalyst for the conversion of biomass-derived saccharides to 5-hydroxymethylfurfural in green solvents. Green Chemistry, 2019, 21, 6012-6026.	4.6	107
35	A Self-Healing Metal–Organic Gel (MOG) Exhibiting pH-Responsive Release of a Chemotherapeutic Agent, Doxorubicin: Modulation of Release Kinetics by Partial Dehydration of Matrix. ACS Omega, 2019, 4, 1354-1363.	1.6	14
36	Substrate-Independent Epitaxial Growth of the Metal–Organic Framework MOF-508a. ACS Applied Materials & Discrete Samp; Interfaces, 2018, 10, 4057-4065.	4.0	29

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37	Synthesis, Structure, and Water Oxidation Activity of Ruthenium(II) Complexes: Influence of Intramolecular Redox Process on O2 Evolution. European Journal of Inorganic Chemistry, 2018, 2018, 2826-2834.	1.0	8
38	Exceptionally Stable and 20-Connected Lanthanide Metal–Organic Frameworks for Selective CO ₂ Capture and Conversion at Atmospheric Pressure. Crystal Growth and Design, 2018, 18, 2432-2440.	1.4	95
39	Ruthenium(<scp>ii</scp>) arene NSAID complexes: inhibition of cyclooxygenase and antiproliferative activity against cancer cell lines. Dalton Transactions, 2018, 47, 517-527.	1.6	66
40	RAPTA complexes containing Nâ€substituted Tetrazole scaffolds: Synthesis, characterization and Antiproliferative activity. Applied Organometallic Chemistry, 2018, 32, e4179.	1.7	8
41	Highly efficient visible-light-assisted photocatalytic hydrogen generation from water splitting catalyzed by Zn0.5Cd0.5S/Ni2P heterostructures. International Journal of Hydrogen Energy, 2018, 43, 22917-22928.	3.8	26
42	Self-assembled coordination polymers of Zn(II): Syntheses, structural diversity, luminescence properties and base catalysis. Polyhedron, 2018, 155, 433-440.	1.0	4
43	Rational Design of a 3D Mn ^{II} â€Metal–Organic Framework Based on a Nonmetallated Porphyrin Linker for Selective Capture of CO ₂ and Oneâ€Pot Synthesis of Styrene Carbonates. Chemistry - A European Journal, 2018, 24, 16662-16669.	1.7	65
44	N-(acridin-9-yl)arenesulfonamides: Synthesis, quantum chemical studies and crystal structure analysis to establish the tautomeric preferences. Tetrahedron, 2018, 74, 3634-3641.	1.0	3
45	Design, structures and study of non-covalent interactions of mono-, di-, and tetranuclear complexes of a bifurcated quadridentate tripod ligand, N-(aminopropyl)-diethanolamine. New Journal of Chemistry, 2017, 41, 1959-1972.	1.4	27
46	Effect of differential surface anisotropy on performance of two plate shaped crystals of aspirin form I. European Journal of Pharmaceutical Sciences, 2017, 99, 318-327.	1.9	15
47	Correlating Single Crystal Structure, Nanomechanical, and Bulk Compaction Behavior of Febuxostat Polymorphs. Molecular Pharmaceutics, 2017, 14, 866-874.	2.3	41
48	Analyses of significant features of I -Prolinium Picrate single crystal: An excellent material for non linear optical applications. Materials Chemistry and Physics, 2017, 194, 90-96.	2.0	12
49	Interpenetrated Metal–Organic Frameworks of Cobalt(II): Structural Diversity, Selective Capture, and Conversion of CO ₂ . Crystal Growth and Design, 2017, 17, 3295-3305.	1.4	53
50	Template-Free Synthesis of Zn _{1–<i>x</i>} Cd _{<i>x</i>} S Nanocrystals with Tunable Band Structure for Efficient Water Splitting and Reduction of Nitroaromatics in Water. ACS Sustainable Chemistry and Engineering, 2017, 5, 4293-4303.	3.2	53
51	Construction of 3D homochiral metal–organic frameworks (MOFs) of Cd(<scp>ii</scp>): selective CO ₂ adsorption and catalytic properties for the Knoevenagel and Henry reaction. Inorganic Chemistry Frontiers, 2017, 4, 348-359.	3.0	57
52	Rational Design of a Bifunctional, Twoâ€Fold Interpenetrated Zn ^{II} â€Metal–Organic Framework for Selective Adsorption of CO ₂ and Efficient Aqueous Phase Sensing of 2,4,6â€Trinitrophenol. Chemistry - A European Journal, 2017, 23, 16204-16212.	1.7	100
53	Synthesis, crystal structure and water oxidation activity of [Ru(terpy)(bipy)Cl] ⁺ complexes: influence of ancillary ligands on O ₂ generation. RSC Advances, 2017, 7, 39325-39333.	1.7	6
54	Frontispiece: Rational Design of a Bifunctional, Twoâ€Fold Interpenetrated Zn ^{II} â€Metal–Organic Framework for Selective Adsorption of CO ₂ and Efficient Aqueous Phase Sensing of 2,4,6â€Trinitrophenol. Chemistry - A European Journal, 2017, 23, .	1.7	1

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55	Sulfonamide vs. sulfonimide: tautomerism and electronic structure analysis of N-heterocyclic arenesulfonamides. New Journal of Chemistry, 2017, 41, 8118-8129.	1.4	18
56	Molecular association of 2-(n -alkylamino)-1,4-naphthoquinone derivatives: Electrochemical, DFT studies and antiproliferative activity against leukemia cell lines. Journal of Molecular Structure, 2016, 1125, 272-281.	1.8	16
57	Visible-Light-Assisted Photocatalytic Reduction of Nitroaromatics by Recyclable Ni(II)-Porphyrin Metal–Organic Framework (MOF) at RT. Inorganic Chemistry, 2016, 55, 5320-5327.	1.9	95
58	Green synthesis, optical and magnetic properties of a Mn ^{II} metal–organic framework (MOF) that exhibits high heat of H ₂ adsorption. RSC Advances, 2016, 6, 86468-86476.	1.7	18
59	Synthesis and photophysics of extended ï€-conjugated systems of substituted 10-aryl-pyrenoimidazoles. Organic and Biomolecular Chemistry, 2016, 14, 10255-10266.	1.5	26
60	Construction of 3-Fold-Interpenetrated Three-Dimensional Metal–Organic Frameworks of Nickel(II) for Highly Efficient Capture and Conversion of Carbon Dioxide. Inorganic Chemistry, 2016, 55, 9757-9766.	1.9	78
61	Fine tuning through valence bond tautomerization of ancillary ligands in ruthenium(<scp>ii</scp>) arene complexes for better anticancer activity and enzyme inhibition properties. Dalton Transactions, 2016, 45, 19277-19289.	1.6	10
62	Template-free syntheses of hierarchical PbS microstructures using a new sulphur source and their time-dependent morphological evolution and photocatalytic properties. RSC Advances, 2016, 6, 56790-56799.	1.7	6
63	Expedient synthesis of new cinnoline diones by Ru-catalyzed regioselective unexpected deoxygenation-oxidative annulation of propargyl alcohols with phthalazinones and pyridazinones. Chemical Communications, 2016, 52, 2509-2512.	2.2	51
64	Construction of 2D interwoven and 3D metal–organic frameworks (MOFs) of Cd(<scp>ii</scp>): the effect of ancillary ligands on the structure and the catalytic performance for the Knoevenagel reaction. RSC Advances, 2016, 6, 28854-28864.	1.7	28
65	Green Synthesis of a Microporous, Partially Fluorinated Zn ^{II} Paddlewheel Metal–Organic Framework: H ₂ /CO ₂ Adsorption Behavior and Solidâ€tate Conversion to a ZnO–C Nanocomposite. European Journal of Inorganic Chemistry, 2015, 2015, 5669-5676.	1.0	28
66	Auxiliary Ligand-Assisted Structural Variation of Cd(II) Metal–Organic Frameworks Showing 2D → 3D Polycatenation and Interpenetration: Synthesis, Structure, Luminescence Properties, and Selective Sensing of Trinitrophenol. Crystal Growth and Design, 2015, 15, 3356-3365.	1.4	125
67	One-pot, template-free syntheses of spherical ZnS nanocrystals using a new S2â^'source and their photocatalytic study. CrystEngComm, 2015, 17, 2359-2367.	1.3	28
68	Temperature dependent structural variation from 2D supramolecular network to 3D interpenetrated metal–organic framework: In situ cleavage of S–S and C–S bonds. Journal of Solid State Chemistry, 2015, 226, 273-278.	1.4	13
69	Template-free synthesis of ZnS nanocrystals with a new sulfur source and their photocatalytic study. Materials Letters, 2015, 154, 90-93.	1.3	22
70	Regioselective synthesis of a vitamin K3 based dihydrobenzophenazine derivative: its novel crystal structure and DFT studies. RSC Advances, 2015, 5, 76419-76423.	1.7	5
71	Synthesis, Structure and Luminescence Property of a 3D Diamondoid Interpenetrated Zn(II)-Organic Framework. Journal of Inorganic and Organometallic Polymers and Materials, 2014, 24, 1032-1037.	1.9	3
72	A luminescent 3D interpenetrating metal–organic framework for highly selective sensing of nitrobenzene. Dalton Transactions, 2014, 43, 17912-17915.	1.6	91

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73	Construction of 2D interwoven and 3D interpenetrated metal–organic frameworks of Zn(<scp>ii</scp>) by varying N,N′-donor spacers. CrystEngComm, 2014, 16, 4805-4815.	1.3	44
74	Template-free syntheses of CdS microspheres composed of ultrasmall nanocrystals and their photocatalytic study. RSC Advances, 2014, 4, 18257-18263.	1.7	22
75	Palladium complexes of a new phosphine-amido-siloxide pincer ligand with variable degrees of protonation. Inorganica Chimica Acta, 2014, 422, 70-77.	1.2	4
76	Template-free synthesis of CdS microspheres composed of nanocrystals with a new sulfur source. Materials Letters, 2013, 111, 230-233.	1.3	12
77	Chiral Porous Metal–Organic Frameworks of Co(II) and Ni(II): Synthesis, Structure, Magnetic Properties, and CO ₂ Uptake. Crystal Growth and Design, 2012, 12, 975-981.	1.4	137
78	Synthesis, structure and magnetic properties of two organically-templated coordination polymers, ${[EDAH2][M1M2F2(SO4)2(H2O)2]}n (M1=M2=Nill and M1=Coll, M2=Nill)$. Inorganica Chimica Acta, 2012, 389, 85-89.	1.2	3
79	Amineâ€Templated Cobalt(II) Coordination Polymer Exhibiting Novel Magnetic Properties: Effect of Dehydration. European Journal of Inorganic Chemistry, 2011, 2011, 2057-2063.	1.0	26
80	Reactivity studies of highly electrophilic ruthenium complexes. Inorganica Chimica Acta, 2010, 363, 3017-3022.	1.2	3
81	Synthesis and structures of Coll, Nill, and Cull coordination frameworks formed by a flexible 1,3-phenylenediacetic acid ligand. Journal of Molecular Structure, 2010, 976, 168-173.	1.8	2
82	Hydrodefluorination and Other Hydrodehalogenation of Aliphatic Carbonâ^'Halogen Bonds Using Silylium Catalysis. Journal of the American Chemical Society, 2010, 132, 4946-4953.	6.6	205
83	Organically-templated Kagom \tilde{A} © compounds containing two transition metal ions. Dalton Transactions, 2010, 39, 6947.	1.6	10
84	Heterolytic Activation of $\text{Hâ}^{2}X$ (X = H, Si, B, and C) Bonds:Â An Experimental and Theoretical Investigation. Journal of the American Chemical Society, 2007, 129, 5587-5596.	6.6	51
85	Tris(pyrazolyl)methane Sulfonate Complexes of Iridium:  Catalytic Hydrogenation of 3,3-Dimethyl-1-butene. Organometallics, 2007, 26, 6307-6311.	1.1	12
86	Highly Electrophilic, 16-Electron [Ru(P(OMe)(OH)2)(dppe)2]2+Complex Turns H2(g) into a Strong Acid and Splits a Siâ^'H Bond Heterolytically. Synthesis and Structure of the Novel Phosphorous Acid Complex [Ru(P(OH)3)(dppe)2]2+. Inorganic Chemistry, 2005, 44, 4145-4147.	1.9	20
87	Novel double dealkylation of trialkylphosphite in the presence of an acid: synthesis and characterization of a 16-electron ruthenium complex bearing P(OH) 2 (OMe) ligand. Inorganic Chemistry Communication, 2004, 7, 654-656.	1.8	11