Duraisamy Senthil Raja

List of Publications by Year
in descending order

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51 papers	2,970 citations	201658 27 h-index	182417 51 g-index
51 all docs	51 docs citations	51 times ranked	3644 citing authors

#	Article	IF	Citations
1	A novel water soluble ligand bridged cobalt(ii) coordination polymer of 2-oxo-1,2-dihydroquinoline-3-carbaldehyde (isonicotinic) hydrazone: evaluation of the DNA binding, protein interaction, radical scavenging and anticancer activity. Dalton Transactions, 2012, 41, 4365.	3.3	326
2	In Situ Grown Bimetallic MOFâ€Based Composite as Highly Efficient Bifunctional Electrocatalyst for Overall Water Splitting with Ultrastability at High Current Densities. Advanced Energy Materials, 2018, 8, 1801065.	19.5	239
3	Synergistically well-mixed MOFs grown on nickel foam as highly efficient durable bifunctional electrocatalysts for overall water splitting at high current densities. Nano Energy, 2019, 57, 1-13.	16.0	211
4	Effect of N(4)-Phenyl Substitution in 2-Oxo-1,2-dihydroquinoline-3-carbaldehyde Semicarbazones on the Structure, DNA/Protein Interaction, and Antioxidative and Cytotoxic Activity of Cu(II) Complexes. Inorganic Chemistry, 2011, 50, 12852-12866.	4.0	187
5	Biological evaluation of a novel water soluble sulphur bridged binuclear copper(II) thiosemicarbazone complex. European Journal of Medicinal Chemistry, 2011, 46, 4584-4594.	5.5	185
6	Effect of terminal N-substitution in 2-oxo-1,2-dihydroquinoline-3-carbaldehyde thiosemicarbazones on the mode of coordination, structure, interaction with protein, radical scavenging and cytotoxic activity of copper(ii) complexes. Dalton Transactions, 2011, 40, 4548.	3.3	161
7	Bi-metallic MOFs possessing hierarchical synergistic effects as high performance electrocatalysts for overall water splitting at high current densities. Applied Catalysis B: Environmental, 2019, 258, 118023.	20.2	114
8	Composition-balanced trimetallic MOFs as ultra-efficient electrocatalysts for oxygen evolution reaction at high current densities. Applied Catalysis B: Environmental, 2020, 279, 119375.	20.2	102
9	Mixed ligand palladium(ii) complexes of 6-methoxy-2-oxo-1,2-dihydroquinoline-3-carbaldehyde 4N-substituted thiosemicarbazones with triphenylphosphine co-ligand: Synthesis, crystal structure and biological properties. Dalton Transactions, 2012, 41, 13308.	3.3	94
10	Synthesis, structure and inÂvitro pharmacological evaluation of a novel 2-oxo-1,2-dihydroquinoline-3-carbaldehyde (2â€²-methylbenzoyl) hydrazone bridged copper(II) coordination polymer. European Journal of Medicinal Chemistry, 2013, 64, 148-159.	5.5	84
11	Structureâ€“activity relationship study of copper(II) complexes with 2-oxo-1,2-dihydroquinoline-3-carbaldehyde (4â€²-methylbenzoyl) hydrazone: synthesis, structures, DNA and protein interaction studies, antioxidative and cytotoxic activity. Journal of Biological Inorganic Chemistry, 2012, 17, 223-237.	2.6	78
12	Synthesis, crystal structure and pharmacological evaluation of two new Cu(II) complexes of 2-oxo-1,2-dihydroquinoline-3-carbaldehyde (benzoyl) hydrazone: A comparative investigation. European Journal of Medicinal Chemistry, 2012, 47, 73-85.	5.5	77
13	Role of Substitution at Terminal Nitrogen of 2-Oxo-1,2-dihydroquinoline-3-Carbaldehyde Thiosemicarbazones on the Coordination Behavior and Structure and Biological Properties of Their Palladium(II) Complexes. Inorganic Chemistry, 2013, 52, 1504-1514.	4.0	76
14	A mesoporous aluminium metalâ€“organic framework with 3 nm open pores. Journal of Materials Chemistry A, 2013, 1, 324-329.	10.3	73
15	Waste polyethylene terephthalate (PET) materials as sustainable precursors for the synthesis of nanoporous MOFs, MIL-47, MIL-53(Cr, Al, Ga) and MIL-101(Cr). Dalton Transactions, 2016, 45, 9565-9573.	3.3	70
16	Bimetallic Metalâ€“Organic Framework-Derived Hybrid Nanostructures as High-Performance Catalysts for Methane Dry Reforming. ACS Applied Materials & Interfaces, 2020, 12, 15183-15193.	8.0	67
17	Effects of structural crystallinity and defects in microporous Al-MOF filled chitosan mixed matrix membranes for pervaporation of water/ethanol mixtures. Journal of the Taiwan Institute of Chemical Engineers, 2018, 83, 143-151.	5.3	60
18	DNA binding, protein interaction, radical scavenging and cytotoxic activity of 2-oxo-1,2-dihydroquinoline-3-carbaldehyde(2â€²-hydroxybenzoyl)hydrazone and its Cu(II) complexes: A structure activity relationship study. Inorganica Chimica Acta, 2012, 385, 81-93.	2.4	53

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19	Immobilization of Protein on Nanoporous Metal-Organic Framework Materials. Comments on Inorganic Chemistry, 2015, 35, 331-349.	5.2	52
20	Gold nanocrystal decorated trimetallic metal organic frameworks as high performance electrocatalysts for oxygen evolution reaction. Applied Catalysis B: Environmental, 2021, 286, 119916.	20.2	45
21	Evaluation on the role of terminal N-substitution in 6-methoxy-2-oxo-1,2-dihydroquinoline-3-carbaldehyde thiosemicarbazones on the biological properties of new water-soluble nickel(ii) complexes. RSC Advances, 2012, 2, 8515.	3.6	44
22	Ti-MOF derived TixFe1â^'xOy shells boost Fe2O3 nanorod cores for enhanced photoelectrochemical water oxidation. Chemical Engineering Journal, 2019, 361, 660-670.	12.7	42
23	Novel alkali and alkaline earth metal coordination polymers based on 1,4-naphthalenedicarboxylic acid: synthesis, structural characterization and properties. CrystEngComm, 2014, 16, 1985.	2.6	40
24	Assessment of resistomycin, as an anticancer compound isolated and characterized from Streptomyces aurantiacus AAA5. Journal of Microbiology, 2011, 49, 920-926.	2.8	38
25	Label-Free Bimetallic In Situ-Grown 3D Nickel-Foam-Supported NH₂-MIL-88B(Fe₂Co)-MOF-based Impedimetric Immunosensor for the Detection of Cardiac Troponin I. ACS Applied Materials & Interfaces, 2020, 12, 32468-32476.	8.0	37
26	In-situ grown metal-organic framework-derived carbon-coated Fe-doped cobalt oxide nanocomposite on fluorine-doped tin oxide glass for acidic oxygen evolution reaction. Applied Catalysis B: Environmental, 2022, 303, 120899.	20.2	35
27	In-Situ Grown, Passivator-Modulated Anodization Derived Synergistically Well-Mixed Niâ€“Fe Oxides from Ni Foam as High-Performance Oxygen Evolution Reaction Electrocatalyst. ACS Applied Energy Materials, 2019, 2, 743-753.	5.1	34
28	Microwave-Assisted Synthesis of Nanoporous Aluminum-Based Coordination Polymers as Catalysts for Selective Sulfoxidation Reaction. Polymers, 2017, 9, 498.	4.5	29
29	Interaction studies of resistomycin from Streptomyces aurantiacus AAA5 with calf thymus DNA and bovine serum albumin. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2012, 89, 294-300.	3.9	27
30	Solvothermal Synthesis, Structural Diversity, and Properties of Alkali Metalâ€“Organic Frameworks Based on V-shaped Ligand. Crystal Growth and Design, 2013, 13, 3785-3793.	3.0	26
31	Twinning Enhances Efficiencies of Metallic Catalysts toward Electrolytic Water Splitting. Advanced Energy Materials, 2021, 11, 2101827.	19.5	24
32	Syntheses, structures, and properties of multidimensional lithium coordination polymers based on aliphatic carboxylic acids. Dalton Transactions, 2013, 42, 2765-2772.	3.3	22
33	Novel binuclear palladium(II) complexes of 2-oxoquinoline-3-carbaldehyde Schiff bases: Synthesis, structure and catalytic applications. Polyhedron, 2012, 34, 143-148.	2.2	21
34	Synthesis of hierarchical mesoporous graphite oxide/Al 2 O 3 from MIL-100(Al) for the electrochemical determination of caffeic acid in red wine samples. Journal of the Taiwan Institute of Chemical Engineers, 2018, 84, 188-195.	5.3	20
35	Iron and chromium MOFs as sustainable catalysts for transfer hydrogenation of carbonyl compounds and biomass conversions. New Journal of Chemistry, 2020, 44, 8223-8231.	2.8	20
36	Enhanced gas sorption properties of a new sulfone functionalized aluminum metal-organic framework: Synthesis, characterization, andÂDFT studies. Microporous and Mesoporous Materials, 2015, 216, 20-26.	4.4	17

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37	Synthesis of mixed ligand and pillared paddlewheel MOFs using waste polyethylene terephthalate material as sustainable ligand source. Microporous and Mesoporous Materials, 2016, 231, 186-191.	4.4	17
38	Synthesis, characterization and inÂvitro pharmacological evaluation ofÂnew water soluble Ni(II) complexes of 4N-substituted thiosemicarbazones of 2-oxo-1,2-dihydroquinoline-3-carbaldehyde. European Journal of Medicinal Chemistry, 2013, 64, 179-189.	5.5	16
39	Evaluation of structural transformation in 2D metalâ€“organic frameworks based on a 4,4â€²-sulfonyldibenzoate linker: microwave-assisted solvothermal synthesis, characterization and applications. CrystEngComm, 2014, 16, 9308-9319.	2.6	16
40	Multidimensional (0D to 3D) Alkaline-Earth Metal Diphosphonates: Synthesis, Structural Diversity, and Luminescence Properties. Inorganic Chemistry, 2015, 54, 4268-4278.	4.0	15
41	Metal-Organic Frameworks to Metal/Metal Oxide Embedded Carbon Matrix: Synthesis, Characterization and Gas Sorption Properties. Materials, 2015, 8, 5336-5347.	2.9	13
42	New MOF based on lithium tetrahydrofuran-2,3,4,5-tetracarboxylate: Its structure and conductivity behavior. Journal of Solid State Chemistry, 2014, 217, 150-158.	2.9	12
43	Carbonization and oxidation of metalâ€“organic frameworks based on 1,4-naphthalene dicarboxylates. Science and Technology of Advanced Materials, 2015, 16, 054203.	6.1	11
44	Solvothermal synthesis, crystal structures and properties of two new magnesium coordination polymers of (l)-malic acid. Inorganic Chemistry Communication, 2013, 32, 22-27.	3.9	10
45	Spectral characterization of a pteridine derivative from cyanide-utilizing bacterium Bacillus subtilis - JN989651. Journal of Microbiology, 2015, 53, 262-271.	2.8	10
46	Ru(III) complexes containing 3,5-pyrazole dicarboxylic acid and triphenylphosphine/triphenylarsine: Synthesis, characterization and catalytic activity. Polyhedron, 2011, 30, 1108-1113.	2.2	5
47	Alkaline Water Splitting: In Situ Grown Bimetallic MOFâ€Based Composite as Highly Efficient Bifunctional Electrocatalyst for Overall Water Splitting with Ultrastability at High Current Densities (Adv. Energy Mater. 23/2018). Advanced Energy Materials, 2018, 8, 1870105.	19.5	4
48	Alkaline-earth metal phosphonocarboxylates: synthesis, structures, chirality, and luminescence properties. Dalton Transactions, 2013, 42, 15332.	3.3	3
49	Mixed-metal MOFs as efficient catalysts for transfer hydrogenation of furfural, levulinic acid and other carbonyl compounds. Molecular Catalysis, 2021, 516, 112004.	2.0	3
50	Twinning Enhances Efficiencies of Metallic Catalysts toward Electrolytic Water Splitting (Adv.) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 222	19.5	3
51	Synthesis, Crystal Structure, and Luminescence Properties of a New Calcium(II) Coordination Polymer Based on L-Malic Acid. Journal of Chemistry, 2013, 2013, 1-7.	1.9	2