Sambath Baskaran

List of Publications by Year
in descending order

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Version: 2024-02-01

34	648	623188	580395
papers	citations	14	25
		h-index	g-index

35	35	35	725
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Mo2CS2-MXene supported single-atom catalysts for efficient and selective CO2 electrochemical reduction. Applied Surface Science, 2022, 592, 153339.	3.1	20
2	Identifying Key Descriptors for the Single-Atom Catalyzed CO Oxidation. CCS Chemistry, 2022, 4, 3296-3308.	4.6	25
3	Phosphorene Supported Singleâ€Atom Catalysts for CO Oxidation: A Computational Study. ChemPhysChem, 2021, 22, 378-385.	1.0	12
4	A study on the interaction of nile blue with Uracils: A spectroscopic and computational approach. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2021, 246, 119011.	2.0	5
5	Non-noble metal single-atom catalyst of Co1/MXene (Mo2CS2) for CO oxidation. Science China Materials, 2021, 64, 651-663.	3.5	44
6	Profuse Surface Activation of Irâ€Dispersed Titanium Nitride Bifunctional Electrocatalysts. Advanced Energy and Sustainability Research, 2021, 2, 2000054.	2.8	5
7	Unveiling the In Situ Generation of a Monovalent Fe(I) Site in the Single-Fe-Atom Catalyst for Electrochemical CO₂ Reduction. ACS Catalysis, 2021, 11, 7292-7301.	5.5	51
8	Cobalt Oxide on a Nanoporous TUD-1 Catalyst for Methylene Blue Dye Interaction DFT Studies and Degradation. Symmetry, 2021, 13, 1754.	1.1	1
9	Chromium Single-Atom Catalyst with Graphyne Support: A Theoretical Study of NO Oxidation and Reduction. ACS Catalysis, 2020, 10, 11951-11961.	5.5	49
10	Non-noble metal single-atom catalysts with phosphotungstic acid (PTA) support: A theoretical study of ethylene epoxidation. Science China Materials, 2020, 63, 1003-1014.	3.5	41
11	Construction of frustrated Lewis pair from nitride and phosphine for the activation and cleavage of molecular hydrogen. Applied Organometallic Chemistry, 2020, 34, e5811.	1.7	0
12	Catalytic mechanism and bonding analyses of Au-Pd single atom alloy (SAA): CO oxidation reaction. Science China Materials, 2020, 63, 993-1002.	3.5	23
13	Spectroscopic investigation and computational studies on the interaction of Acriflavine with various estrogens. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2019, 206, 622-629.	2.0	5
14	NiCoFe oxide amorphous nanohetrostructres for oxygen evolution reaction. International Journal of Hydrogen Energy, 2019, 44, 22991-23001.	3.8	39
15	Exploring the potential of novel transition metal complexes derived from ONO donor type ligand: a quantum chemical study. Journal of Molecular Modeling, 2019, 25, 284.	0.8	3
16	Inkjet-printed phosphorescent Iridium(III) complex based paper sensor for highly selective detection of Hg2+. Dyes and Pigments, 2019, 163, 176-182.	2.0	22
17	Development of paper-based chemosensor for the detection of mercury ions using mono- and tetra-sulfur bearing phenanthridines. New Journal of Chemistry, 2018, 42, 8530-8536.	1.4	25
18	Experimental and theoretical studies on the corrosion inhibition of vitamins â€“ Thiamine hydrochloride or biotin in corrosion of mild steel in aqueous chloride environment. Egyptian Journal of Petroleum, 2018, 27, 371-381.	1.2	25

#	Article	IF	Citations
19	Possibility of reducing the coordinated dinitrogen into ammonia and hydrazine using [Ru-L] (L =) Tj ETQq1 1 0.784314 rgBT /Overlock	0.7	10
20	Hydroxylamine synthesis by oxygen insertion into Reï£¿NH₂ bond via Baeyerâ€“Villiger oxidation: a Theoretical study. Journal of Physical Organic Chemistry, 2015, 28, 690-694.	0.9	0
21	Ionic and Neutral Halfâ€Sandwich Guanidinatoruthenium(II) Complexes and Their Solution Behavior. European Journal of Inorganic Chemistry, 2015, 2015, 3182-3194.	1.0	13
22	Functionalization of N 2 to NH 3 via direct N â‰¡ N bond cleavage using M(III)(NMe 2) 3 (M=W/Mo): A theoretical study. Journal of Chemical Sciences, 2015, 127, 83-94.	0.7	4
23	Slow hydrolysis of an organozirconium complex: The first polyoxometallic heptanuclear zirconium oxide. Journal of Organometallic Chemistry, 2015, 775, 76-79.	0.8	2
24	Lessons learned and lessons to be learned for developing homogeneous transition metal complexes catalyzed reduction of N2 to ammonia. Journal of Organometallic Chemistry, 2014, 752, 44-58.	0.8	45
25	Molecular and electronic structure analysis of some novel copper and zinc complexes of hypervalent carbon based ligand: DFT studies. Journal of Organometallic Chemistry, 2014, 752, 123-132.	0.8	2
26	Ammonia and hydrazine synthesis from [N2-W{(NHCH2CH2)3N}] and [AH]+[BH]â^' using Sivasankar catalytic cycle: DFT studies. Computational and Theoretical Chemistry, 2014, 1027, 73-78.	1.1	9
27	Calix[2]bispyrrolylarenes: New Expanded Calix[4]pyrroles for Fluorometric Sensing of Anions via Extended Ï€-Conjugation. Organic Letters, 2013, 15, 306-309.	2.4	34
28	Reduction of N2 by H2 to NH3 and N2H4 using [MoL] (L=triamidoamine) and organic co-catalysts: A theoretical approach. Journal of Molecular Catalysis A, 2013, 370, 140-144.	4.8	14
29	Hydrogenation of dinitrogen to ammonia in [WF(PH2(CH2)2PH2)2N2] using H2: Insights from DFT calculations. New Journal of Chemistry, 2012, 36, 562.	1.4	14
30	Colorimetric Sensing of Fluoride Ion by New Expanded Calix[4]pyrrole through Anionâ^'Ï€ Interaction. Organic Letters, 2012, 14, 548-551.	2.4	72
31	A possibility of functionalizing the dinitrogen in a Chatt complex by H2: Density functional studies. Polyhedron, 2012, 31, 676-681.	1.0	13
32	A [Fe(CB₆)] platform for binding of small molecules: Insights from DFT calculations. Journal of Computational Chemistry, 2012, 33, 1047-1054.	1.5	4
33	Understanding the stability, electronic and molecular structure of some copper(III) complexes containing alkyl and non alkyl ligands: Insights from DFT calculations. Journal of Organometallic Chemistry, 2011, 696, 2627-2634.	0.8	12
34	Functionalization of Dinitrogen Using a Historically Significant Ru Complex: A New Life for an Old Complex. European Journal of Inorganic Chemistry, 2010, 2010, 4716-4719.	1.0	5