Ashish Kumar Singh

List of Publications by Year
in descending order

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65 papers	3,523 citations	201385 27 h-index	133063 59 g-index
67 all docs	67 docs citations	67 times ranked	4767 citing authors

#	Article	IF	Citations
1	Synergistic Catalysis over Bimetallic Alloy Nanoparticles. ChemCatChem, 2013, 5, 652-676.	1.8	560
2	Hydrogen energy future with formic acid: a renewable chemical hydrogen storage system. Catalysis Science and Technology, 2016, 6, 12-40.	2.1	433
3	Recent developments in luminescent coordination polymers: Designing strategies, sensing application and theoretical evidences. Coordination Chemistry Reviews, 2020, 406, 213145.	9.5	366
4	Noble-Metal-Free Bimetallic Nanoparticle-Catalyzed Selective Hydrogen Generation from Hydrous Hydrazine for Chemical Hydrogen Storage. Journal of the American Chemical Society, 2011, 133, 19638-19641.	6.6	303
5	Recent advances in supramolecular and biological aspects of arene ruthenium(II) complexes. Coordination Chemistry Reviews, 2014, 270-271, 31-56.	9.5	184
6	Syntheses, design strategies, and photocatalytic charge dynamics of metalâ€“organic frameworks (MOFs): a catalyzed photo-degradation approach towards organic dyes. Catalysis Science and Technology, 2021, 11, 3946-3989.	2.1	134
7	Fluorescent Zinc(II) Complex Exhibiting â€œOn-Off-Onâ€•Switching Toward Cu²⁺ and Ag⁺ Ions. Inorganic Chemistry, 2011, 50, 3189-3197.	1.9	118
8	Palladium silica nanosphere-catalyzed decomposition of formic acid for chemical hydrogen storage. Journal of Materials Chemistry, 2012, 22, 19146.	6.7	85
9	Metalâ€“Organic Framework Supported Bimetallic Niï£¿Pt Nanoparticles as Highâ€performance Catalysts for Hydrogen Generation from Hydrazine in Aqueous Solution. ChemCatChem, 2013, 5, 3000-3004.	1.8	73
10	The synergistic effect of Rhâ€“Ni catalysts on the highly-efficient dehydrogenation of aqueous hydrazine borane for chemical hydrogen storage. Chemical Communications, 2012, 48, 11945.	2.2	66
11	Highly-dispersed surfactant-free bimetallic Niâ€“Pt nanoparticles as high-performance catalyst for hydrogen generation from hydrous hydrazine. International Journal of Hydrogen Energy, 2014, 39, 9128-9134.	3.8	59
12	Temperature-induced selectivity enhancement in hydrogen generation from Rhâ€“Ni nanoparticle-catalyzed decomposition of hydrous hydrazine. International Journal of Hydrogen Energy, 2012, 37, 18915-18919.	3.8	58
13	First Examples of Heteroleptic Dipyrrin/Î·⁵-Pentamethylcyclopentadienyl Rhodium/Iridium(III) Complexes and Their Catalytic Activity. Organometallics, 2009, 28, 4713-4723.	1.1	55
14	Dendrimerâ€Encapsulated Bimetallic Ptâ€Ni Nanoparticles as Highly Efficient Catalysts for Hydrogen Generation from Chemical Hydrogen Storage Materials. ChemCatChem, 2013, 5, 2248-2252.	1.8	55
15	Synthesis, structural and corrosion inhibition properties of some transition metal(II) complexes with o-hydroxyacetophenone-2-thiophenoyl hydrazone. Polyhedron, 2013, 65, 73-81.	1.0	55
16	Synthesis, structural and corrosion inhibition studies on Mn(II), Cu(II) and Zn(II) complexes with a Schiff base derived from 2-hydroxypropiophenone. Polyhedron, 2014, 77, 57-65.	1.0	49
17	Synthesis, structural investigations and corrosion inhibition studies on Mn(<scp>ii</scp>), Co(<scp>ii</scp>), Ni(<scp>ii</scp>), Cu(<scp>ii</scp>) and Zn(<scp>ii</scp>) complexes with 2-amino-benzoic acid (phenyl-pyridin-2-yl-methylene)-hydrazide. RSC Advances, 2015, 5, 45217-45230.	1.7	47
18	A dihydrazone based â€œturnâ€“onâ€•fluorescent probe for selective determination of Al3+ ions in aqueous ethanol. Sensors and Actuators B: Chemical, 2017, 238, 128-137.	4.0	44

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19	Heteroleptic Arene Ruthenium Complexes Based onmeso-Substituted Dipyrrins: Synthesis, Structure, Reactivity, and Electrochemical Studies. Inorganic Chemistry, 2009, 48, 7593-7603.	1.9	42
20	Vanadium doped few-layer ultrathin MoS₂ nanosheets on reduced graphene oxide for high-performance hydrogen evolution reaction. RSC Advances, 2019, 9, 22232-22239.	1.7	41
21	Fe-doped MoS2 nanomaterials with amplified peroxidase mimetic activity for the colorimetric detection of glutathione in human serum. Materials Chemistry and Physics, 2021, 267, 124684.	2.0	33
22	Versatile coordination behaviour of a multi-dentate Schiff base with manganese(II), copper(II) and zinc(II) ions and their corrosion inhibition study. Inorganica Chimica Acta, 2015, 425, 36-45.	1.2	31
23	Bio-catalysts and catalysts based on ruthenium(II) polypyridyl complexes imparting diphenyl-(2-pyridyl)-phosphine as a co-ligand. Journal of Organometallic Chemistry, 2011, 696, 3454-3464.	0.8	29
24	New 1D diorganotin(<scp>iv</scp>) dithiolate coordination polymers: crystallographic, computational, Hirshfeld surface and thermal analyses. CrystEngComm, 2020, 22, 2049-2059.	1.3	29
25	Synthesis, characterisation and theoretical studies on some piano-stool ruthenium and rhodium complexes containing substituted phenyl imidazole ligands. Journal of Organometallic Chemistry, 2010, 695, 567-573.	0.8	28
26	Ferrocenyl chalcones with phenolic and pyridyl anchors as potential sensitizers in dye-sensitized solar cells. RSC Advances, 2016, 6, 97664-97675.	1.7	28
27	Synthesis of Î±-MoO3 nanofibers for enhanced field-emission properties. Advanced Materials Letters, 2018, 9, 585-589.	0.3	28
28	Synthesis, and characterization of ruthenium(II) polypyridyl complexes containing Î±-amino acids and its DNA binding behavior. Journal of Organometallic Chemistry, 2009, 694, 3570-3579.	0.8	27
29	Synthesis and characterization of ruthenium(II) complexes based on diphenyl-2-pyridylphosphine and their applications in transfer hydrogenation of ketones. Inorganica Chimica Acta, 2011, 368, 124-131.	1.2	27
30	Studies on some spinel oxides based electrocatalysts for oxygen evolution and capacitive applications. Electrochimica Acta, 2019, 320, 134584.	2.6	27
31	Photoluminescence behaviour of a stimuli responsive Schiff base: Aggregation induced emission and piezochromism. Dyes and Pigments, 2019, 160, 731-739.	2.0	27
32	Synthesis, characterization and reactivity of arene ruthenium compounds based on 2,2â€²-dipyridylamine and di-2-pyridylbenzylamine and their applications in catalytic hydrogen transfer of ketones. Journal of Organometallic Chemistry, 2010, 695, 2205-2212.	0.8	26
33	Structures, preparation and catalytic activity of ruthenium cyclopentadienyl complexes based on pyridyl-phosphine ligand. Journal of Organometallic Chemistry, 2009, 694, 3643-3652.	0.8	23
34	Synthetic, Spectral, Structural, and Catalytic Aspects of Some Pianoâ€Stool Complexes Containing 2â€(2â€Diphenylphosphanylethyl)pyridine. European Journal of Inorganic Chemistry, 2010, 2010, 704-715.	1.0	23
35	Facile synthesis of BSCF perovskite oxide as an efficient bifunctional oxygen electrocatalyst. International Journal of Hydrogen Energy, 2018, 43, 20671-20679.	3.8	22
36	Lanthanide based double perovskites: Bifunctional catalysts for oxygen evolution/reduction reactions. International Journal of Hydrogen Energy, 2021, 46, 17163-17172.	3.8	20

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37	A pyrene-thiophene based probe for aggregation induced emission enhancement (AIEE) and naked-eye detection of fluoride ions. Journal of Luminescence, 2019, 215, 116704.	1.5	19
38	First examples of homo-/heteroleptic bi-/tri-nuclear complexes containing 5-ferrocenyldipyrromethene. Dalton Transactions, 2009, , 9929.	1.6	18
39	Syntheses of nickel sulfides from 1,2-bis(diphenylphosphino)ethane nickel(II)dithiolates and their application in the oxygen evolution reaction. International Journal of Hydrogen Energy, 2018, 43, 5985-5995.	3.8	18
40	Heteroleptic half-sandwich Ru(II), Rh(III) and Ir(III) complexes based on 5-ferrocenyldipyrromethene. Journal of Organometallic Chemistry, 2011, 696, 758-763.	0.8	17
41	Modular construction, magnetism and photocatalytic properties of two new metal-organic frameworks based on a semi-rigid tetracarboxylate ligand. Journal of Solid State Chemistry, 2019, 277, 673-679.	1.4	17
42	1,2-Bis(diphenylphosphino)ethane nickel(<scp>ii</scp>) O,Oâ€²-dialkyldithiophosphates as potential precursors for nickel sulfides. New Journal of Chemistry, 2017, 41, 1327-1333.	1.4	15
43	Logic gate behavior and intracellular application of a fluorescent molecular switch for the detection of Fe³⁺ and cascade sensing of F^{â^'} in pure aqueous media. Organic and Biomolecular Chemistry, 2019, 17, 7497-7506.	1.5	15
44	Copper(<scp>i</scp>) tertiary phosphine xanthate complexes as single source precursors for copper sulfide and their application in the OER. New Journal of Chemistry, 2018, 42, 18759-18764.	1.4	13
45	Polyaniline stabilized activated carbon from Eichhornia Crassipes: Potential charge storage material from bio-waste. Renewable Energy, 2020, 162, 2285-2296.	4.3	13
46	Synthesis and reactivity of homo-bimetallic Rh and Ir complexes containing a N,O-donor Schiff base. Journal of Organometallic Chemistry, 2009, 694, 3084-3090.	0.8	12
47	Synthesis and characterization of complexes imparting N-pyridyl bonded meso-pyridyl substituted dipyrromethanes. Journal of Organometallic Chemistry, 2010, 695, 841-849.	0.8	11
48	Half-sandwich ruthenium, rhodium and iridium complexes containing dipyridyl amine based ligands. Journal of Organometallic Chemistry, 2010, 695, 1932-1939.	0.8	11
49	Facile Synthesis of MoS_x and MoS_xâ€rGO Composite: Excellent Electrocatalyst for Hydrogen Evolution Reaction. ChemistrySelect, 2017, 2, 11590-11598.	0.7	11
50	Ruthenium Complexes Containing Pyridine-2-carbaldehyde Azine as a Synthon in the Synthesis of Bi-/Trimetallic Complexes. European Journal of Inorganic Chemistry, 2008, 2008, 5666-5673.	1.0	10
51	Extended molecular networks based on Zn and Cd imparting N-substituted imidazole. Inorganica Chimica Acta, 2010, 363, 995-1000.	1.2	8
52	Synthesis and characterization of some novel ruthenium(II) complexes containing thiolate ligands. Journal of Organometallic Chemistry, 2010, 695, 994-1001.	0.8	7
53	New ruthenium(II) thiolato complexes: Synthesis, reactivity, spectral, structural and DFT studies. Inorganica Chimica Acta, 2010, 363, 2095-2103.	1.2	7
54	Study of the Capacitive Behavior of MOFâ€Derived Nanocarbon Polyhedra. ChemistrySelect, 2018, 3, 6107-6111.	0.7	7

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55	Ni(<scp>ii</scp>) dithiolate anion composites with two-dimensional materials for electrochemical oxygen evolution reactions (OERs). New Journal of Chemistry, 2021, 45, 16264-16270.	1.4	7
56	Synthesis and characterization of Ru(IV) and Rh(I) complexes containing phenylimidazole ligands. Journal of Organometallic Chemistry, 2010, 695, 1924-1931.	0.8	6
57	Tertiary phosphineâ€appended transition metal ferrocenyl dithiocarbamates: Syntheses, Hirshfeld surface, and electrochemical analyses. Applied Organometallic Chemistry, 2020, 34, e5879.	1.7	5
58	Syntheses, characterization and oxygen evolution reaction (OER) electrocatalytic properties of M(II) based bromo-salophen complexes. Journal of Molecular Structure, 2021, 1243, 130928.	1.8	5
59	Novel structures based on 1-(4-cyanophenyl)-imidazole resulting from weak bonding interactions. Journal of Molecular Structure, 2009, 935, 1-7.	1.8	4
60	Ternary copper molybdenum sulfide (Cu₂MoS₄) nanoparticles anchored on PANI/rGO as electrocatalysts for oxygen evolution reaction (OER). Applied Organometallic Chemistry, 2022, 36, .	1.7	4
61	Phase-controlled solvothermal syntheses and oxygen evolution reaction (OER) activity of nickel sulfide nanoparticles obtained from 1,2-bis(diphenylphosphino)ethane nickel(<scp>ii</scp>) acetylacetonatedithiolate. New Journal of Chemistry, 2022, 46, 10246-10255.	1.4	4
62	Synthesis and Characterization of 3d Metal Complexes Based on 1-(4-Nitrophenyl)imidazole. Bulletin of the Chemical Society of Japan, 2011, 84, 205-210.	2.0	2
63	MOF derived Co/C and Co3O4/C polyhedron for hydrogen evolution reaction. AIP Conference Proceedings, 2019, , .	0.3	2
64	Synthesis of colloidal MoSx nanoparticles and their transformation into carbon supported MoS2 nanocomposite. AIP Conference Proceedings, 2019, , .	0.3	0
65	Ferrocenyl thiazolidine-2-thione ornamented 1D coordination polymers derived from coinage metal halides and pseudohalides. CrystEngComm, 2021, 23, 7794-7804.	1.3	0