

Dillip Kumar Chand

List of Publications by Year in descending order

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103
papers

3,207
citations

147801

31
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175258

52
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112
all docs

112
docs citations

112
times ranked

3307
citing authors

#	ARTICLE	IF	CITATIONS
1	Self-assembled coordination complexes from various palladium(II) components and bidentate or polydentate ligands. <i>Coordination Chemistry Reviews</i> , 2012, 256, 1831-1945.	18.8	179
2	Synthesis and characterization of curcumin loaded PLA Hyperbranched polyglycerol electrospun blend for wound dressing applications. <i>Materials Science and Engineering C</i> , 2017, 76, 1196-1204.	7.3	145
3	Selective oxidation of sulfides to sulfoxides and sulfones at room temperature using H ₂ O ₂ and a Mo(VI) salt as catalyst. <i>Tetrahedron Letters</i> , 2006, 47, 4573-4576.	1.4	141
4	Dynamic Self-Assembly of an M ₃ L ₆ Molecular Triangle and an M ₄ L ₈ Tetrahedron from Naked PdII Ions and Bis(3-pyridyl)-Substituted Arenes. <i>Chemistry - an Asian Journal</i> , 2006, 1, 82-90.	3.3	123
5	Self-assembly of a novel macrotricyclic Pd(II) metallocage encapsulating a nitrate ion. <i>Chemical Communications</i> , 2001, , 1652-1653.	4.1	118
6	DOSY Study on Dynamic Catenation: Self-Assembly of a [3]Catenane as a Meta-Stable Compound from Twelve Simple Components. <i>Chemistry - A European Journal</i> , 2001, 7, 4142-4149.	3.3	97
7	A molecular sphere of octahedral symmetry. <i>Chemical Communications</i> , 2002, , 2486-2487.	4.1	97
8	Polyaromatic molecular peanuts. <i>Nature Communications</i> , 2017, 8, 15914.	12.8	91
9	Multi-Stimuli-Responsive Metallogel Molded from a Pd ₂ -Type Coordination Cage: Selective Removal of Anionic Dyes. <i>Inorganic Chemistry</i> , 2018, 57, 3634-3645.	4.0	88
10	Palladium(II)-Based Self-Assembled Heteroleptic Coordination Architectures: A Growing Family. <i>Chemistry - A European Journal</i> , 2019, 25, 12241-12269.	3.3	86
11	Self-assembled conjoined-cages. <i>Nature Communications</i> , 2020, 11, 880.	12.8	81
12	Application of molybdenum(VI) dichloride dioxide (MoO ₂ Cl ₂) in organic transformations. <i>Journal of Chemical Sciences</i> , 2009, 121, 111-123.	1.5	72
13	Palladium nanoparticles catalyzed Suzuki cross-coupling reactions in ambient conditions. <i>Catalysis Communications</i> , 2013, 31, 16-20.	3.3	67
14	Proton and Cu(II) binding to tren-based tris-macrocycles. Affinity towards nucleic acids and nuclease activity. <i>Dalton Transactions</i> , 2003, , 793-800.	3.3	64
15	Synthesis of a Heteroditopic Cryptand Capable of Imposing a Distorted Coordination Geometry onto Cu(II): Crystal Structures of the Cryptand (L), [Cu(L)(CN)](picrate), and [Cu(L)(NCS)](picrate) and Spectroscopic Studies of the Cu(II) Complexes. <i>Inorganic Chemistry</i> , 1996, 35, 3380-3387.	4.0	61
16	New chiral molybdenum complex catalyzed sulfide oxidation with hydrogen peroxide. <i>Inorganica Chimica Acta</i> , 2011, 376, 57-63.	2.4	60
17	Copper complexes of polyaza[n]cyclophanes and their interaction with DNA and RNA. <i>Inorganica Chimica Acta</i> , 2001, 316, 71-78.	2.4	59
18	A molybdenum based metallomicellar catalyst for controlled and selective sulfoxidation reactions in aqueous medium. <i>Green Chemistry</i> , 2014, 16, 2190.	9.0	59

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19	Heteroditopic Cryptands of Tunable Cavity Size: Imposition of Distorted Geometry onto Copper(II) and Nickel(II) and Molecular Recognition of Water Molecules. <i>Inorganic Chemistry</i> , 1998, 37, 5050-5055.	4.0	58
20	Stoichiometrically Controlled Revocable Self-Assembled Spiro-versus Quadruple-Stranded Double-Decker-Type Coordination Cages. <i>Chemistry - A European Journal</i> , 2014, 20, 13122-13126.	3.3	58
21	Metal driven self-assembly of pyridine appended ligands with cis-protected/naked Pd(ii) ion: a comparative study. <i>Dalton Transactions</i> , 2003, , 2750.	3.3	55
22	Palladium(ii) driven self-assembly of a saturated quadruple-stranded metallo helicate. <i>Dalton Transactions</i> , 2012, 41, 11273.	3.3	43
23	Nanoscale metallogel via self-assembly of self-assembled trinuclear coordination rings: multi-stimuli-responsive soft materials. <i>Dalton Transactions</i> , 2015, 44, 15181-15188.	3.3	43
24	Double-Decker Coordination Cages. <i>European Journal of Inorganic Chemistry</i> , 2016, 2016, 2816-2827.	2.0	37
25	Simple and efficient method for the oxidation of sulfides to sulfones using hydrogen peroxide and a Mo(VI) based catalyst. <i>Catalysis Communications</i> , 2009, 10, 1948-1951.	3.3	36
26	Synthesis, structure and applications of [cis-dioxomolybdenum(VI)-(ONO)] type complexes. <i>Journal of Chemical Sciences</i> , 2011, 123, 187-199.	1.5	36
27	A Truncated Molecular Star. <i>Chemistry - A European Journal</i> , 2017, 23, 12456-12461.	3.3	36
28	Cage-to-Cage Cascade Transformations. <i>Chemistry - A European Journal</i> , 2016, 22, 10330-10335.	3.3	35
29	Copper perchlorate: Efficient acetylation catalyst under solvent free conditions. <i>Journal of Molecular Catalysis A</i> , 2006, 255, 275-282.	4.8	33
30	Reversible Mechanical Interlocking of D-Shaped Molecular Karabiners bearing Coordination-Bond Loaded Gates: Route to Self-Assembled [2]Catenanes. <i>Chemistry - A European Journal</i> , 2015, 21, 15174-15187.	3.3	33
31	Tetrahedral Recognition of a Water Molecule by Heteroditopic Cryptands: X-ray Structural Studies. <i>Journal of Organic Chemistry</i> , 1996, 61, 1169-1171.	3.2	32
32	Facile synthesis of palladium nanoclusters and their catalytic activity in Sonogashira coupling reactions. <i>Tetrahedron Letters</i> , 2008, 49, 5286-5288.	1.4	32
33	Consequence of Presence and Absence of π -Clouds at Strategic Locations of Designed Binuclear Pd(II) Complexes on Packing: Self-Assembly of Self-Assembly by Intermolecular Locking and Packing. <i>Crystal Growth and Design</i> , 2012, 12, 6012-6022.	3.0	32
34	Palladium Nanoparticles Catalyzed Synthesis of Benzofurans by a Domino Approach. <i>Synthesis</i> , 2015, 47, 1661-1668.	2.3	31
35	Low-Symmetry Self-Assembled Coordination Complexes with Exclusive Diastereoselectivity: Experimental and Computational Studies. <i>Inorganic Chemistry</i> , 2020, 59, 12884-12894.	4.0	31
36	Conformation of N,N-bis(3-pyridylformyl)piperazine and spontaneous formation of a saturated quadruple stranded metallohelicate. <i>Dalton Transactions</i> , 2010, 39, 7223.	3.3	30

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37	Self-Assembly by Ligand-Exchange Reactions. <i>European Journal of Inorganic Chemistry</i> , 2005, 2005, 3346-3352.	2.0	29
38	Group 4 complexes of salicylbenzoxazole ligands as effective catalysts for the ring-opening polymerization of lactides, epoxides and copolymerization of μ -caprolactone with L-lactide. <i>Polymer</i> , 2016, 102, 231-247.	3.8	28
39	A Cobalt(II) Cryptate of a Heteroditopic Cryptand L as an Efficient Oxygenation Catalyst of Organic Substrates Using Molecular Oxygen and 2-Methylpropanal. <i>Inorganic Chemistry</i> , 1997, 36, 5658-5660.	4.0	27
40	Self-Assembled Molecular Squares as Supramolecular Tectons. <i>Crystal Growth and Design</i> , 2018, 18, 2016-2030.	3.0	27
41	Group 4 alkoxide complexes containing [NNO]-type scaffold: synthesis, structural characterization and polymerization studies. <i>RSC Advances</i> , 2016, 6, 21706-21718.	3.6	26
42	Self-assembly of ordered water tetramers in an encapsulated $[\text{Br}(\text{H}_2\text{O})_{12}]^{\sim}$ complex. <i>Chemical Communications</i> , 2012, 48, 8631.	4.1	25
43	Synthesis of hetero-polytopic cryptands incorporating hard and soft donor atoms via tripod-tripod schiff base condensation: Versatile ligands for transition metal ions. <i>Tetrahedron</i> , 1995, 51, 3265-3270.	1.9	24
44	Anisotropic effect of the nitrate anion's manifestation of diamagnetic proton chemical shifts in the ^1H NMR spectra of NO_3^{\sim} coordinated complexes. <i>Tetrahedron</i> , 2008, 64, 5044-5050.	1.9	24
45	Ligand Isomerism in Coordination Cages. <i>Inorganic Chemistry</i> , 2018, 57, 12222-12231.	4.0	24
46	Linear and circular helicates: A brief review. <i>Journal of Chemical Sciences</i> , 2018, 130, 1.	1.5	24
47	Palladium nanoparticles catalyzed Sonogashira reactions for the one-pot synthesis of symmetrical and unsymmetrical diarylacetylenes. <i>Catalysis Communications</i> , 2014, 47, 40-44.	3.3	22
48	Toppled Molecular-Domino Sets by Self-Assembly of Self-assembly: The I^{\sim} -Polymers. <i>Crystal Growth and Design</i> , 2013, 13, 3763-3772.	3.0	21
49	Visual colorimetric detection of TNT and 2,4-DNT using as-prepared hexaazamacrocyclic-capped gold nanoparticles. <i>Analytical Methods</i> , 2014, 6, 276-281.	2.7	21
50	Aerobic oxidation of benzyl alcohols by Mo(VI) compounds. <i>Applied Organometallic Chemistry</i> , 2006, 20, 840-844.	3.5	20
51	Selective detection of cysteine/cystine using silver nanoparticles. <i>Tetrahedron Letters</i> , 2013, 54, 427-430.	1.4	19
52	Multistimuli-Responsive Hydrolytically Stable I^{\sim} -Mercury(II) Coordination Polymer. <i>Inorganic Chemistry</i> , 2018, 57, 11369-11381.	4.0	19
53	Cryptands and related tripodal ligands: interaction with nucleic acids and nuclease activity of their Eu(III) complexes. <i>Tetrahedron</i> , 2001, 57, 6727-6732.	1.9	18
54	Manifestation of diamagnetic chemical shifts of proton NMR signals by an anisotropic shielding effect of nitrate anions. <i>Tetrahedron Letters</i> , 2007, 48, 761-765.	1.4	18

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55	Coordination-driven self-assembly in a single pot. <i>Tetrahedron Letters</i> , 2010, 51, 4449-4451.	1.4	18
56	Octadecanuclear Gear Wheels by Self-Assembly of Self-Assembled Double Saddle-Type Coordination Entities: Molecular Crystallinity. <i>Chemistry - A European Journal</i> , 2015, 21, 1499-1507.	3.3	18
57	Synthesis of designed hetero-polytopic cryptands through Schiff base condensation. <i>Tetrahedron</i> , 1997, 53, 10517-10522.	1.9	17
58	Double-Stranded Binuclear Helicates and Helicity Modulation. <i>Crystal Growth and Design</i> , 2016, 16, 6722-6728.	3.0	17
59	Self-assembled mononuclear palladium(II) based molecular loops. <i>Inorganica Chimica Acta</i> , 2013, 400, 42-50.	2.4	16
60	cis-Protected palladium(<i>ii</i>) based binuclear complexes as tectons in crystal engineering and the imperative role of the cis-protecting agent. <i>CrystEngComm</i> , 2017, 19, 5157-5172.	2.6	15
61	Influence of cis-protecting groups toward ligand exchange reactions in polynuclear Pd(II)-based coordination cages. <i>Inorganica Chimica Acta</i> , 2007, 360, 31-38.	2.4	14
62	Self-assembly of self-assembled molecular triangles. <i>Journal of Chemical Sciences</i> , 2014, 126, 1493-1499.	1.5	14
63	Role of peripheral phenanthroline groups in the self-assembly of self-assembled molecular triangles. <i>Journal of Chemical Sciences</i> , 2015, 127, 273-280.	1.5	14
64	A molybdenum based metallomicellar catalyst for controlled and chemoselective oxidation of activated alcohols in aqueous medium. <i>Journal of Catalysis</i> , 2019, 376, 123-133.	6.2	14
65	A new class of self-assembly multinuclear Pt(II) coordination cages by a modular approach. <i>Tetrahedron Letters</i> , 2006, 47, 2867-2869.	1.4	13
66	Self-assembled gold nanofilms as a simple, recoverable and recyclable catalyst for nitro-reduction. <i>Journal of Materials Chemistry A</i> , 2015, 3, 21167-21177.	10.3	13
67	Size mismatch between two tripodal units: A new synthetic strategy for macrotricyclic cryptand. <i>Tetrahedron Letters</i> , 1996, 37, 8443-8446.	1.4	12
68	Ring-opening copolymerization of maleic anhydride or L-Lactide with tert-butyl glycidyl ether by using efficient Ti and Zr benzoxazole-substituted 8-Hydroxyquinolate catalysts. <i>Polymer</i> , 2017, 123, 267-281.	3.8	12
69	Controlled and Predictably Selective Oxidation of Activated and Unactivated C(sp ³)-H Bonds Catalyzed by a Molybdenum-Based Metallomicellar Catalyst in Water. <i>Journal of Organic Chemistry</i> , 2022, 87, 4061-4077.	3.2	12
70	Synthesis of azamacrocycle stabilized palladium nanoparticles: Controlled size and one-dimensional growth. <i>Journal of Chemical Sciences</i> , 2011, 123, 875-881.	1.5	11
71	Trinuclear <i>Intro-Vertere</i> Circular Helicate and Its Columnar Hexagonal Stacking. <i>Crystal Growth and Design</i> , 2017, 17, 2929-2935.	3.0	11
72	One-pot synthesis of self-assembled heteroleptic palladium(II) complexes with tmeda: An application of ligand exchange reactions. <i>Inorganic Chemistry Communication</i> , 2014, 39, 75-78.	3.9	10

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73	Molecular Recombination Phenomena in Palladium(II)-Based Self-Assembled Complexes. <i>Inorganic Chemistry</i> , 2018, 57, 5145-5158.	4.0	10
74	Multicomponent click reactions catalysed by copper(I) oxide nanoparticles (Cu ₂ ONPs) derived using <i>Oryza sativa</i> . <i>Journal of Chemical Sciences</i> , 2020, 132, 1.	1.5	10
75	Molybdenum(VI) Dichloride Dioxide Catalyzed Synthesis of β -Keto Esters by C-H Insertion of Ethyl Diazoacetate into Aldehydes. <i>Synthesis</i> , 2008, 2008, 1685-1687.	2.3	9
76	Coordination polymers via self-assembly of silver(I) and cis-bis-nitrile-oxa-bowl derivatives. <i>CrystEngComm</i> , 2013, 15, 9623.	2.6	9
77	A Facile Route to Substituted Bidentate and Tridentate Ligands Capable of Forming Six-membered Chelate Rings with Transition-Metal Ions. <i>Synlett</i> , 2015, 26, 1408-1412.	1.8	9
78	Design of a double-decker coordination cage revisited to make new cages and exemplify ligand isomerism. <i>Beilstein Journal of Organic Chemistry</i> , 2019, 15, 1129-1140.	2.2	9
79	A two-dimensional polydodecameric water-soluble chloride cluster enfolding (Hg ₂ Cl ₂) _n concealed cascade cryptate. <i>CrystEngComm</i> , 2014, 16, 6827.	2.6	8
80	Discrete and Polymeric Self-Assembled Palladium(II) Complexes as Supramolecular Gelators. <i>Chemistry - an Asian Journal</i> , 2018, 13, 3777-3789.	3.3	8
81	Diastereoselectively self-sorted low-symmetry binuclear metallomacrocyclic and trinuclear metallocage. <i>Dalton Transactions</i> , 2022, 51, 11650-11657.	3.3	8
82	Hexazamacrocyclic assisted sensing of silver ion through facile synthesis of silver nanoparticles. <i>Tetrahedron Letters</i> , 2010, 51, 6760-6762.	1.4	6
83	A model study of alternative approach toward a class of palladium(II) based self-assembly. <i>Inorganica Chimica Acta</i> , 2011, 372, 71-78.	2.4	6
84	Structural and Dynamic Aspects of Palladium(II)-Based Self-Assembled Binuclear Coordination Complexes. <i>Israel Journal of Chemistry</i> , 2019, 59, 248-256.	2.3	6
85	Copper nanoparticles (CuNPs) catalyzed chemoselective reduction of nitroarenes in aqueous medium. <i>Journal of Chemical Sciences</i> , 2021, 133, 1.	1.5	6
86	Synthesis and uses of macrobicyclic cryptands: From complexation of transition metal ions to molecular devices. <i>Journal of Chemical Sciences</i> , 1996, 108, 229-233.	1.5	6
87	Fluorescent 1-Arylidene-1,3-dihydroisobenzofuran: Ligand-Free Palladium Nanoparticles, Catalyzed Domino Synthesis and Photophysical Studies. <i>ChemistrySelect</i> , 2017, 2, 5259-5265.	1.5	5
88	Cuprous Oxide- or Copper-Coated Jute Stick Pieces at an Air-Water Interface for Prevention of Aerial Contamination in Potable Water. <i>ACS Omega</i> , 2019, 4, 22514-22520.	3.5	5
89	Crystal engineering with palladium(II)-based self-assembled binuclear complexes as tectons. <i>Inorganica Chimica Acta</i> , 2019, 484, 33-41.	2.4	5
90	Configurational ligand isomerism in conjoined-cages. <i>Chemical Communications</i> , 2022, 58, 8480-8483.	4.1	5

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91	Ring-Opening Reactions of Epoxides Catalyzed by Molybdenum(VI) Dichloride Dioxide. <i>Synthesis</i> , 2008, 2008, 807-819.	2.3	4
92	Palladium(II) induced complete conformational enrichment of the syn isomer of N,N'-bis(4-pyridylformyl)piperazine. <i>RSC Advances</i> , 2014, 4, 18595.	3.6	4
93	Synthesis and spectral investigation of colorimetric receptors for the dual detection of copper and acetate ions: application in molecular logic gates. <i>Supramolecular Chemistry</i> , 2017, 29, 561-574.	1.2	4
94	Helicity induction by innocent anion in a quadruple stranded cage. <i>Journal of Organometallic Chemistry</i> , 2021, 950, 121984.	1.8	4
95	Molybdenum(VI) Dichloride Dioxide Catalyzed Conversion of α -Hydroxy Carbonyls into α -Bromo 1,3-Dicarbonyls by N-Bromosuccinimide. <i>Synthesis</i> , 2009, 2009, 306-310.	2.3	3
96	Synthesis, characterization and molecular docking study of Nitro(4-(2-pyridyl)-2,2':6''-terpyridyl) Palladium(II) nitrate. <i>Inorganic Chemistry Communication</i> , 2021, 126, 108494.	3.9	3
97	Conformational Solvatomorphism in a [2]Catenane. <i>Crystal Growth and Design</i> , 2020, 20, 5820-5833.	3.0	2
98	Hierarchical self-assembly of self-assembled Pd(II) complexes: Synthesis, structural characterization, crystal packing evaluation and docking studies. <i>Journal of Molecular Structure</i> , 2022, 1259, 132767.	3.6	2
99	Self-assembled discrete and polymeric cobalt(II) complexes of a carboxylate appended tripodal tetradentate ligand: reactivity with aerial dioxygen or aqueous hydrogen peroxide. <i>Journal of Chemical Sciences</i> , 2022, 134, 1.	1.5	2
100	Frontispiece: Reversible Mechanical Interlocking of D-Shaped Molecular Karabiners bearing Coordination-Bond Loaded Gates: Route to Self-Assembled [2]Catenanes. <i>Chemistry - A European Journal</i> , 2015, 21, .	3.3	0
101	Palladium Nanoparticles Catalyzed Synthesis of Benzofurans by a Domino Approach. <i>Synthesis</i> , 2015, 47, e4-e4.	2.3	0
102	Molecular Star. <i>Resonance</i> , 2018, 23, 219-224.	0.3	0
103	Frontispiece: Palladium(II)-Based Self-Assembled Heteroleptic Coordination Architectures: A Growing Family. <i>Chemistry - A European Journal</i> , 2019, 25, .	3.3	0