

Vincent J Catalano

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

57
papers

2,515
citations

29
h-index

50
g-index

59
ext. papers

2,691
ext. citations

6.3
avg, IF

5.16
L-index

#	Paper	IF	Citations
57	Access to Metal Centers and Fluxional Hydride Coordination Integral for CO Insertion into [Fe(H)] Clusters. <i>Inorganic Chemistry</i> , 2021 , 60, 7228-7239	5.1	0
56	Dinitrogen Insertion and Cleavage by a Metal-Metal Bonded Tricobalt(I) Cluster. <i>Journal of the American Chemical Society</i> , 2021 , 143, 5649-5653	16.4	6
55	Cleavage of cluster iron-sulfide bonds in cyclophane-coordinated FeS complexes. <i>Dalton Transactions</i> , 2021 , 50, 816-821	4.3	2
54	Evaluating Metal Ion Identity on Catalytic Silylation of Dinitrogen Using a Series of Trimetallic Complexes. <i>European Journal of Inorganic Chemistry</i> , 2020 , 2020, 1519-1524	2.3	14
53	Synthetic Factors Governing Access to Tris(η ² -diketimine) Cyclophanes versus Tripodal Tri-η ² -aminoenones. <i>Journal of Organic Chemistry</i> , 2020 , 85, 13579-13588	4.2	
52	Isolation of chloride- and hydride-bridged tri-iron and -zinc clusters in a tris(η ² -oxo-diamine) cyclophane ligand. <i>Dalton Transactions</i> , 2019 , 48, 9570-9575	4.3	1
51	Four-Fold Alkyne Benzannulation: Synthesis, Properties, and Structure of Pyrene-η ² -pyrene-Based Helicene Hybrids. <i>Organic Letters</i> , 2019 , 21, 8652-8656	6.2	17
50	Synthesis, Structure, Photophysical Properties, and Photostability of Benzodipyrenes. <i>Chemistry - A European Journal</i> , 2019 , 25, 1441-1445	4.8	13
49	Catalytic Silylation of Dinitrogen by a Family of Triiron Complexes. <i>ACS Catalysis</i> , 2018 , 8, 7208-7212	13.1	41
48	Expanding the scope of peropyrenes and teropyrenes through a facile InCl ₃ -catalyzed multifold alkyne benzannulation. <i>Organic Chemistry Frontiers</i> , 2018 , 5, 2288-2295	5.2	25
47	Highly Regioselective Domino Benzannulation Reaction of Buta-1,3-diyne To Construct Irregular Nanographenes. <i>Angewandte Chemie</i> , 2018 , 130, 14989-14993	3.6	16
46	Highly Regioselective Domino Benzannulation Reaction of Buta-1,3-diyne To Construct Irregular Nanographenes. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 14773-14777	16.4	35
45	Innenteilbild: Highly Regioselective Domino Benzannulation Reaction of Buta-1,3-diyne To Construct Irregular Nanographenes (Angew. Chem. 45/2018). <i>Angewandte Chemie</i> , 2018 , 130, 14870-14870 ³⁶		
44	Chalcogen Impact on Covalency within Molecular [Cu(EE)] Clusters (E = O, S, Se): A Synthetic, Spectroscopic, and Computational Study. <i>Inorganic Chemistry</i> , 2018 , 57, 11382-11392	5.1	7
43	Chiral Peropyrene: Synthesis, Structure, and Properties. <i>Journal of the American Chemical Society</i> , 2017 , 139, 13102-13109	16.4	75
42	Pyrenes, Peropyrenes, and Teropyrenes: Synthesis, Structures, and Photophysical Properties. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 10427-30	16.4	61
41	Pyrenes, Peropyrenes, and Teropyrenes: Synthesis, Structures, and Photophysical Properties. <i>Angewandte Chemie</i> , 2016 , 128, 10583-10586	3.6	32

40	Structural motifs of Au(I)-Cu(I) N-heterocyclic carbene halide complexes. <i>Journal of Coordination Chemistry</i> , 2016 , 69, 160-167	1.6	11
39	The Synthesis and Characterization of Highly Fluorescent Polycyclic Azaborine Chromophores. <i>Journal of Organic Chemistry</i> , 2016 , 81, 10955-10963	4.2	14
38	Luminescent Mechanochromism in a Gold(I)-Copper(I) N-Heterocyclic Carbene Complex. <i>Inorganic Chemistry</i> , 2015 , 54, 6900-9	5.1	48
37	New building blocks for iminosugars: a concise synthesis of polyhydroxylated N-alkoxypiperidines through an intramolecular azepine ring contraction. <i>Organic Chemistry Frontiers</i> , 2015 , 2, 497-501	5.2	9
36	An Air- and Water-Tolerant Zinc Hydride Cluster That Reacts Selectively With CO ₂ . <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 7047-50	16.4	29
35	Luminescent Thermochromism in a Gold(I)Copper(I) PhosphinePyridine Complex. <i>European Journal of Inorganic Chemistry</i> , 2015 , 2015, 5254-5261	2.3	11
34	Subtle Modulation of Cu ₄ X ₄ L ₂ Phosphine Cluster Cores Leads to Changes in Luminescence. <i>Inorganic Chemistry</i> , 2015 , 54, 6245-56	5.1	43
33	Copper(I)-assisted red-shifted phosphorescence in Au(I)Cu(I) heteropolynuclear complexes. <i>Dalton Transactions</i> , 2014 , 43, 16486-97	4.3	22
32	Triangular [Ag ₃] ³⁺ Complexes Supported by Picolyl-Substituted N-Heterocyclic Carbene Ligands. <i>European Journal of Inorganic Chemistry</i> , 2014 , 2014, 4994-5007	2.3	14
31	A nanoporous two-dimensional polymer by single-crystal-to-single-crystal photopolymerization. <i>Nature Chemistry</i> , 2014 , 6, 774-8	17.6	337
30	Modulation of metal-metal separations in a series of Ag(I) and intensely blue photoluminescent Cu(I) NHC-bridged triangular clusters. <i>Inorganic Chemistry</i> , 2011 , 50, 8465-76	5.1	60
29	Synthesis and Characterization of a Series of New Luminescent NHC-Coordinated AuI/AgI Tetra- and Polymetallic Complexes Containing Benzoate-Bridged Ag ₂ Dimers. <i>European Journal of Inorganic Chemistry</i> , 2009 , 2009, 1832-1843	2.3	32
28	Luminescent copper(I) halide butterfly dimers coordinated to [Au(CH ₃ imCH ₂ py) ₂]BF ₄ and [Au(CH ₃ imCH ₂ quin) ₂]BF ₄ . <i>Inorganic Chemistry</i> , 2009 , 48, 11362-75	5.1	37
27	Preparation of Au(I), Ag(I), and Pd(II) N-heterocyclic carbene complexes utilizing a methylpyridyl-substituted NHC ligand. formation of a luminescent coordination polymer. <i>Inorganic Chemistry</i> , 2007 , 46, 5608-15	5.1	79
26	Synthesis, Characterization, and Sensitizing Properties of Heteroleptic RuII Complexes Based on 2,6-Bis(1-pyrazolyl)pyridine and 2,2'-Bipyridine-4,4'-dicarboxylic Acid Ligands. <i>European Journal of Inorganic Chemistry</i> , 2007 , 2007, 5633-5644	2.3	44
25	(2,2': 6',2'-Terpyridine)Methylplatinum(II) Chloride and (1,10-Phenanthroline)-Methylchloroplatinum(II). <i>Inorganic Syntheses</i> , 2007 , 153-158		32
24	Mono-, di-, and trinuclear luminescent silver(I) and gold(I) N-heterocyclic carbene complexes derived from the picolyl-substituted methylimidazolium salt: 1-methyl-3-(2-pyridinylmethyl)-1H-imidazolium tetrafluoroborate. <i>Inorganic Chemistry</i> , 2005 , 44, 6558-66	5.1	148
23	Crystal Structure and Conformation of a Bilirubin Ester. <i>Monatshefte Für Chemie</i> , 2004 , 135, 1503-1517	1.4	

22	Syntheses, Crystal Structures, and Conformations of 10,10-Spiro-Bilirubins. <i>Monatshefte für Chemie</i> , 2004 , 135, 1305-1317	1.4	2
21	Mixed-metal metallocryptands. Short metal-metal separations strengthened by a dipolar interaction. <i>Journal of the American Chemical Society</i> , 2004 , 126, 6560-1	16.4	70
20	Pyridine substituted N-heterocyclic carbene ligands as supports for Au(I)-Ag(I) interactions: formation of a chiral coordination polymer. <i>Inorganic Chemistry</i> , 2004 , 43, 5714-24	5.1	187
19	Monometallic and dimetallic ruthenium(II)-terpyridine complexes employing the tetradentate ligands dipyridylpyrazolyl, dipyridyloxadiazole, and their dimethyl derivatives. <i>Inorganic Chemistry</i> , 2003 , 42, 321-34	5.1	30
18	Three- and four-coordinate gold(I) complexes of 3,6-bis(diphenylphosphino)pyridazine: monomers, polymers, and a metallocryptand cage. <i>Inorganic Chemistry</i> , 2003 , 42, 2141-8	5.1	30
17	Synthesis and Crystal Structure of Linear Chain Homotetranuclear Complexes with N ₃ π <i>Synthesis and Reactivity in Inorganic, Metal Organic, and Nano Metal Chemistry</i> , 2003 , 33, 281-296		26
16	Luminescent gold(I) and silver(I) complexes of 2-(diphenylphosphino)-1-methylimidazole (dpim): characterization of a three-coordinate Au(I)-Ag(I) dimer with a short metal-metal separation. <i>Inorganic Chemistry</i> , 2003 , 42, 8430-8	5.1	113
15	Short metal-metal separations in a highly luminescent trimetallic Ag(I) complex stabilized by bridging NHC ligands. <i>Inorganic Chemistry</i> , 2003 , 42, 5483-5	5.1	164
14	Pd(0) and Pt(0) metallocryptands encapsulating a spinning mercurous dimer. <i>Inorganic Chemistry</i> , 2002 , 41, 6553-9	5.1	34
13	A linearly coordinated Hg(0) trapped in a gold(I) metallocryptand cage. <i>Chemical Communications</i> , 2001 , 581-582	5.8	28
12	Synthesis of 1,2,3,4,5,6,7,8-octahydroacridine via condensation of cyclohexanone with formaldehyde. <i>Journal of Organic Chemistry</i> , 2001 , 66, 1525-7	4.2	9
11	Pt(0) and Pd(0) based metallocryptands: metallophilic hosts for Pb(II) ion. <i>Chemical Communications</i> , 2000 , 1413-1414	5.8	38
10	Gold(I) and silver(I) metallocryptates based on 2,9-bis(diphenylphosphino)-1,8-naphthyridine. <i>Inorganic Chemistry</i> , 2000 , 39, 121-7	5.1	69
9	Ein stark lumineszierender vierkerniger Silber(I)-Cluster und seine ligandeninduzierte Clusterkernumlagerung. <i>Angewandte Chemie</i> , 1999 , 111, 2083-2086	3.6	12
8	A Highly Luminescent Tetranuclear Silver(I) Cluster and Its Ligation-Induced Core Rearrangement. <i>Angewandte Chemie - International Edition</i> , 1999 , 38, 1979-1982	16.4	94
7	Preparation of [(β -MeC ₅ H ₄)Mn(CO)(NO)(DMPP)]PF ₆ , DMPP = 1-Phenyl-3,4-Dimethylphosphole, and its Intramolecular [4+2] Diels-Alder Cycloaddition Reaction with Ph ₂ PCH=CH ₂ . <i>Synthesis and Reactivity in Inorganic, Metal Organic, and Nano Metal Chemistry</i> , 1999 , 29, 395-406		11
6	Synthesis and Characterization of Trigonal Gold(I) Cage Complexes: Luminescent Metallocryptates Encapsulating Tl(I) and Na ⁺ Ions. <i>Journal of the American Chemical Society</i> , 1999 , 121, 10235-10236	16.4	88
5	Steric Modulation of Electrocatalytic Benzyl Alcohol Oxidation by [Ru(trpy)(R(2)dppi)(O)](2+) Complexes. <i>Inorganic Chemistry</i> , 1998 , 37, 2150-2157	5.1	80

4	Unanticipated Formation of n 6-Benzenechloro-Phenyltriphenylphosphineruthemum (II). <i>Synthesis and Reactivity in Inorganic, Metal Organic, and Nano Metal Chemistry</i> , 1998 , 28, 749-755		2
3	Reversible C60 Binding to Dendrimer-Containing Ir(CO)Cl(PPh ₂ R) ₂ Complexes. <i>Inorganic Chemistry</i> , 1997 , 36, 537-541	5.1	63
2	Diastereoselectivity of Chloride Substitution Reactions of Cycloruthenated (R)C-(+)- and (S)C-(−)-Dimethyl(1-phenylethyl)amine. <i>Organometallics</i> , 1996 , 15, 2932-2946	3.8	37
1	General Syntheses of (RPPH ₂)Mo(CO) ₅ and (RDBP)Mo(CO) ₅ Complexes from Ph ₂ PLi and DBPLi via Single Electron Transfer Catalysis. <i>Synthesis and Reactivity in Inorganic, Metal Organic, and Nano Metal Chemistry</i> , 1996 , 26, 967-996		12