

# Vincent J Catalano

## List of Publications by Year in descending order

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57  
papers

2,880  
citations

159585

30  
h-index

168389

53  
g-index

59  
all docs

59  
docs citations

59  
times ranked

3411  
citing authors

#	ARTICLE	IF	CITATIONS
1	Access to Metal Centers and Fluxional Hydride Coordination Integral for CO <sub>2</sub> Insertion into [Fe <sub>3</sub> ( $\mu_4$ -H) <sub>3</sub> ] <sup>3+</sup> Clusters. <i>Inorganic Chemistry</i> , 2021, 60, 7228-7239.	4.0	4
2	Dinitrogen Insertion and Cleavage by a Metal-Metal Bonded Tricobalt(I) Cluster. <i>Journal of the American Chemical Society</i> , 2021, 143, 5649-5653.	13.7	11
3	Cleavage of cluster iron-sulfide bonds in cyclophane-coordinated Fe <sub>n</sub> S <sub>m</sub> complexes. <i>Dalton Transactions</i> , 2021, 50, 816-821.	3.3	3
4	Synthetic Factors Governing Access to Tris( $\mu_2$ -diketimine) Cyclophanes versus Tripodal Tri- $\mu_2$ -aminoenones. <i>Journal of Organic Chemistry</i> , 2020, 85, 13579-13588.	3.2	0
5	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.	2.0	23
6	Four-Fold Alkyne Benzannulation: Synthesis, Properties, and Structure of Pyreno[ <i>a</i> ]pyrene-Based Helicene Hybrids. <i>Organic Letters</i> , 2019, 21, 8652-8656.	4.6	32
7	Isolation of chloride- and hydride-bridged tri-iron and -zinc clusters in a tris( $\mu_2$ -oxo- $\mu_2$ -diimine) cyclophane ligand. <i>Dalton Transactions</i> , 2019, 48, 9570-9575.	3.3	1
8	Synthesis, Structure, Photophysical Properties, and Photostability of Benzodipyrenes. <i>Chemistry - A European Journal</i> , 2019, 25, 1441-1445.	3.3	18
9	Innentitelbild: Highly Regioselective Domino Benzannulation Reaction of Buta-1,3-diyne To Construct Irregular Nanographenes ( <i>Angew. Chem.</i> 45/2018). <i>Angewandte Chemie</i> , 2018, 130, 14870-14870.	2.0	0
10	Chalcogen Impact on Covalency within Molecular [Cu <sub>3</sub> ( $\mu_4$ -E) <sub>3</sub> ] <sup>3+</sup> Clusters (E = O, S, Se): A Synthetic, Spectroscopic, and Computational Study. <i>Inorganic Chemistry</i> , 2018, 57, 11382-11392.	4.0	9
11	Catalytic Silylation of Dinitrogen by a Family of Triiron Complexes. <i>ACS Catalysis</i> , 2018, 8, 7208-7212.	11.2	51
12	Expanding the scope of peropyrenes and teropyrenes through a facile InCl <sub>3</sub> -catalyzed multifold alkyne benzannulation. <i>Organic Chemistry Frontiers</i> , 2018, 5, 2288-2295.	4.5	37
13	Highly Regioselective Domino Benzannulation Reaction of Buta-1,3-diyne To Construct Irregular Nanographenes. <i>Angewandte Chemie</i> , 2018, 130, 14989-14993.	2.0	19
14	Highly Regioselective Domino Benzannulation Reaction of Buta-1,3-diyne To Construct Irregular Nanographenes. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 14773-14777.	13.8	48
15	Chiral Peropyrene: Synthesis, Structure, and Properties. <i>Journal of the American Chemical Society</i> , 2017, 139, 13102-13109.	13.7	99
16	The Synthesis and Characterization of Highly Fluorescent Polycyclic Azaborine Chromophores. <i>Journal of Organic Chemistry</i> , 2016, 81, 10955-10963.	3.2	17
17	Pyrenes, Peropyrenes, and Teropyrenes: Synthesis, Structures, and Photophysical Properties. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 10427-10430.	13.8	81
18	Pyrenes, Peropyrenes, and Teropyrenes: Synthesis, Structures, and Photophysical Properties. <i>Angewandte Chemie</i> , 2016, 128, 10583-10586.	2.0	37

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19	Structural motifs of Au(I)-Cu(I) <i>N</i> -heterocyclic carbene halide complexes. <i>Journal of Coordination Chemistry</i> , 2016, 69, 160-167.	2.2	14
20	An Air- and Water-Tolerant Zinc Hydride Cluster That Reacts Selectively With CO <sub>2</sub> . <i>Angewandte Chemie - International Edition</i> , 2015, 54, 7047-7050.	13.8	38
21	Luminescent Thermochromism in a Gold(I)-Copper(I) Phosphine-Pyridine Complex. <i>European Journal of Inorganic Chemistry</i> , 2015, 2015, 5254-5261.	2.0	14
22	Subtle Modulation of Cu <sub>4</sub> X <sub>4</sub> L <sub>2</sub> Phosphine Cluster Cores Leads to Changes in Luminescence. <i>Inorganic Chemistry</i> , 2015, 54, 6245-6256.	4.0	51
23	Luminescent Mechanochromism in a Gold(I)-Copper(I) <i>N</i> -Heterocyclic Carbene Complex. <i>Inorganic Chemistry</i> , 2015, 54, 6900-6909.	4.0	54
24	New building blocks for iminosugars: a concise synthesis of polyhydroxylated <i>N</i> -alkoxy piperidines through an intramolecular azepine ring contraction. <i>Organic Chemistry Frontiers</i> , 2015, 2, 497-501.	4.5	10
25	Copper-assisted red-shifted phosphorescence in Au-Cu heteropolynuclear complexes. <i>Dalton Transactions</i> , 2014, 43, 16486-16497.	3.3	31
26	Triangular [Ag <sub>3</sub> ] <sup>3+</sup> Complexes Supported by Picolyl-Substituted <i>N</i> -Heterocyclic Carbene Ligands. <i>European Journal of Inorganic Chemistry</i> , 2014, 2014, 4994-5007.	2.0	14
27	A nanoporous two-dimensional polymer by single-crystal-to-single-crystal photopolymerization. <i>Nature Chemistry</i> , 2014, 6, 774-778.	13.6	406
28	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, 8465-8476.	4.0	67
29	Synthesis and Characterization of a Series of New Luminescent NHC-Coordinated Au <sup>I</sup> -Ag <sup>I</sup> Tetra- and Polymetallic Complexes Containing Benzoate-Bridged Ag <sub>2</sub> Dimers. <i>European Journal of Inorganic Chemistry</i> , 2009, 2009, 1832-1843.	2.0	33
30	Luminescent Copper(I) Halide Butterfly Dimers Coordinated to [Au(CH <sub>3</sub> imCH <sub>2</sub> py) <sub>2</sub> ]BF <sub>4</sub> and [Au(CH <sub>3</sub> imCH <sub>2</sub> quin) <sub>2</sub> ]BF <sub>4</sub> . <i>Inorganic Chemistry</i> , 2009, 48, 11362-11375.	4.0	40
31	(2,2':6''-Terpyridine)Methylplatinum(II) Chloride and (1,10-Phenanthroline)-Methylchloroplatinum(II). <i>Inorganic Syntheses</i> , 2007, , 153-158.	0.3	42
32	Preparation of Au(I), Ag(I), and Pd(II) <i>N</i> -Heterocyclic Carbene Complexes Utilizing a Methylpyridyl-Substituted NHC Ligand. Formation of a Luminescent Coordination Polymer. <i>Inorganic Chemistry</i> , 2007, 46, 5608-5615.	4.0	86
33	Synthesis, Characterization, and Sensitizing Properties of Heteroleptic Ru <sup>II</sup> 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.	4.9	49
34	Mono-, Di-, and Trinuclear Luminescent Silver(I) and Gold(I) <i>N</i> -Heterocyclic Carbene Complexes Derived from the Picolyl-Substituted Methylimidazolium Salt: 1-Methyl-3-(2-pyridinylmethyl)-1H-imidazolium Tetrafluoroborate. <i>Inorganic Chemistry</i> , 2005, 44, 6558-6566.	4.0	155
35	Crystal Structure and Conformation of a Bilirubin Ester. <i>Monatshefte für Chemie</i> , 2004, 135, 1503-1517.	1.8	0
36	Syntheses, Crystal Structures, and Conformations of 10,10-Spiro-Bilirubins. <i>Monatshefte für Chemie</i> , 2004, 135, 1305-1317.	1.8	2

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37	Mixed-Metal Metallochromes. Short Metal-Metal Separations Strengthened by a Dipolar Interaction. <i>Journal of the American Chemical Society</i> , 2004, 126, 6560-6561.	13.7	73
38	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, 5714-5724.	4.0	203
39	Monometallic and Dimetallic Ruthenium(II)-Terpyridine Complexes Employing the Tetradentate Ligands Dipyridylpyrazolyl, Dipyridyloxadiazole, and Their Dimethyl Derivatives. <i>Inorganic Chemistry</i> , 2003, 42, 321-334.	4.0	30
40	Three- and Four-Coordinate Gold(I) Complexes of 3,6-Bis(diphenylphosphino)pyridazine: Monomers, Polymers, and a Metallochrom Cage. <i>Inorganic Chemistry</i> , 2003, 42, 2141-2148.	4.0	32
41	Synthesis and Crystal Structure of Linear Chain Homotetranuclear Complexes with N <sub>3</sub> . <i>Synthesis and Reactivity in Inorganic, Metal Organic, and Nano Metal Chemistry</i> , 2003, 33, 281-296.	1.8	27
42	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, 8430-8438.	4.0	119
43	Short Metal-Metal Separations in a Highly Luminescent Trimetallic Ag(I) Complex Stabilized by Bridging NHC Ligands. <i>Inorganic Chemistry</i> , 2003, 42, 5483-5485.	4.0	174
44	Pd(0) and Pt(0) Metallochromes Encapsulating a Spinning Mercurous Dimer. <i>Inorganic Chemistry</i> , 2002, 41, 6553-6559.	4.0	35
45	A linearly coordinated Hg(0) trapped in a gold(I) metallochrom cage. <i>Chemical Communications</i> , 2001, , 581-582.	4.1	28
46	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, 1525-1527.	3.2	11
47	Pt(0) and Pd(0) based metallochromes: metallophilic hosts for Pb(II) ion. <i>Chemical Communications</i> , 2000, , 1413-1414.	4.1	41
48	Gold(I) and Silver(I) Metallochromes Based on 2,9-Bis(diphenylphosphino)-1,8-naphthyridine. <i>Inorganic Chemistry</i> , 2000, 39, 121-127.	4.0	73
49	A Highly Luminescent Tetranuclear Silver(I) Cluster and Its Ligation-Induced Core Rearrangement. <i>Angewandte Chemie - International Edition</i> , 1999, 38, 1979-1982.	13.8	101
50	Preparation of [( $\eta^5$ -MeC <sub>5</sub> H <sub>4</sub> )Mn(CO)(NO)(DMPP)]PF <sub>6</sub> , DMPP = 1-Phenyl-3,4-Dimethylphosphole, and its Intramolecular [4+2] Diels-Alder Cycloaddition Reaction with Ph <sub>2</sub> C=CH <sub>2</sub> . <i>Synthesis and Reactivity in Inorganic, Metal Organic, and Nano Metal Chemistry</i> , 1999, 29, 395-406.	1.8	11
51	Synthesis and Characterization of Trigonal Gold(I) Cage Complexes: Luminescent Metallochroms Encapsulating Tl(I) and Na <sup>+</sup> ions. <i>Journal of the American Chemical Society</i> , 1999, 121, 10235-10236.	13.7	101
52	Steric Modulation of Electrocatalytic Benzyl Alcohol Oxidation by [Ru(trpy)(R <sub>2</sub> dppi)(O)] <sub>2</sub> +Complexes. <i>Inorganic Chemistry</i> , 1998, 37, 2150-2157.	4.0	84
53	Unanticipated Formation of $\eta^6$ -Benzenechloro-Phenyltriphenylphosphineruthenium (II). <i>Synthesis and Reactivity in Inorganic, Metal Organic, and Nano Metal Chemistry</i> , 1998, 28, 749-755.	1.8	2
54	Reversible C <sub>60</sub> Binding to Dendrimer-Containing Ir(CO)Cl(PPh <sub>2</sub> ) <sub>2</sub> Complexes. <i>Inorganic Chemistry</i> , 1997, 36, 537-541.	4.0	67

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55	Diastereoselectivity of Chloride Substitution Reactions of Cycloruthenated (R)C-(+)- and (S)C-( $\hat{\sim}$ )-Dimethyl(1-phenylethyl)amine. <i>Organometallics</i> , 1996, 15, 2932-2946.	2.3	45
56	General Syntheses of (RPPH <sub>2</sub> )Mo(CO) <sub>5</sub> and (RDBP)Mo(CO) <sub>5</sub> Complexes from Ph <sub>2</sub> 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.	1.8	13
57	Extended Helical Nanographenes: Synthesis and Photophysical Properties of Naphtho[1,2-a]pyrenes**. <i>European Journal of Organic Chemistry</i> , 0, , .	2.4	2