

# Thomas L Gianetti

## List of Publications by Year in descending order

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40  
papers

1,002  
citations

394421

19  
h-index

454955

30  
g-index

61  
all docs

61  
docs citations

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times ranked

1044  
citing authors

#	ARTICLE	IF	CITATIONS
1	Z-Selective, Catalytic Internal Alkyne Semihydrogenation under H <sub>2</sub> /CO Mixtures by a Niobium(III) Imido Complex. <i>Journal of the American Chemical Society</i> , 2011, 133, 14904-14907.	13.7	82
2	Helical Carbenium Ion: A Versatile Organic Photoredox Catalyst for Red-Light-Mediated Reactions. <i>Journal of the American Chemical Society</i> , 2020, 142, 12056-12061.	13.7	79
3	Nitrous Oxide as a Hydrogen Acceptor for the Dehydrogenative Coupling of Alcohols. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 1854-1858.	13.8	76
4	Carbon-fluorine bond cleavage in fluoroarenes via a niobium(III) imido complex: from stoichiometric to catalytic hydrodefluorination. <i>Chemical Science</i> , 2014, 5, 2517.	7.4	60
5	Diniobium Inverted Sandwich Complexes with $\eta^4\text{-C}_6\text{H}_6\text{-C}_6\text{H}_6$ -Arene Ligands: Synthesis, Kinetics of Formation, and Electronic Structure. <i>Journal of the American Chemical Society</i> , 2013, 135, 3224-3236.	13.7	56
6	Low-Valent Iron Mono-Diazadiene Compounds: Electronic Structure and Catalytic Application. <i>ACS Catalysis</i> , 2015, 5, 6230-6240.	11.2	48
7	Reaction of (Bisimido)niobium(V) Complexes with Organic Azides: [3 + 2] Cycloaddition and Reversible Cleavage of $\eta^2$ -Diketiminato Ligands Involving Nitrene Transfer. <i>Journal of the American Chemical Society</i> , 2014, 136, 2994-2997.	13.7	47
8	Dis-assembly of a Benzylic CF <sub>3</sub> Group Mediated by a Niobium(III) Imido Complex. <i>Journal of the American Chemical Society</i> , 2013, 135, 8145-8148.	13.7	37
9	Group 5 Imides and Bis(imide)s as Selective Hydrogenation Catalysts. <i>European Journal of Inorganic Chemistry</i> , 2013, 2013, 3771-3783.	2.0	35
10	Thorium lends a fiery hand. <i>Nature Chemistry</i> , 2014, 6, 554-554.	13.6	32
11	Symmetric, Robust, and High-Voltage Organic Redox Flow Battery Model Based on a Helical Carbenium Ion Electrolyte. <i>ACS Applied Energy Materials</i> , 2021, 4, 9-14.	5.1	29
12	Trioxatriangulenium (TOTA <sup>+</sup> ) as a robust carbon-based Lewis acid in frustrated Lewis pair chemistry. <i>Chemical Science</i> , 2021, 12, 4841-4849.	7.4	27
13	Zero-Valent Amino-Olefin Cobalt Complexes as Catalysts for Oxygen Atom Transfer Reactions from Nitrous Oxide. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 15323-15328.	13.8	26
14	Molecular Orbital Insights of Transition Metal-Stabilized Carbocations. <i>Frontiers in Chemistry</i> , 2019, 7, 365.	3.6	25
15	Persistent, highly localized, and tunable [4]helicene radicals. <i>Chemical Science</i> , 2020, 11, 11060-11067.	7.4	24
16	Regioselective [2+2] and [4+2] cycloaddition reactivity in an asymmetric niobium(bisimido) moiety towards unsaturated organic molecules. <i>Chemical Communications</i> , 2015, 51, 1278-1281.	4.1	23
17	Electron localization in a mixed-valence diniobium benzene complex. <i>Chemical Science</i> , 2015, 6, 993-1003.	7.4	22
18	Zero-Valent Amino-Olefin Cobalt Complexes as Catalysts for Oxygen Atom Transfer Reactions from Nitrous Oxide. <i>Angewandte Chemie</i> , 2016, 128, 15549-15554.	2.0	22

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19	Synthesis of CF <sub>3</sub> -Containing Spirocyclic Indolines via a Red-Light-Mediated Trifluoromethylation/Dearomatization Cascade. <i>Journal of Organic Chemistry</i> , 2021, 86, 10640-10653.	3.2	21
20	Nitrous Oxide as a Hydrogen Acceptor for the Dehydrogenative Coupling of Alcohols. <i>Angewandte Chemie</i> , 2016, 128, 1886-1890.	2.0	19
21	Tunable carbocation-based redox active ambiphilic ligands: synthesis, coordination and characterization. <i>Dalton Transactions</i> , 2020, 49, 16095-16105.	3.3	19
22	Photocatalytic $\alpha$ -arylation of cyclic ketones. , 2022, 1, 147-157.		18
23	Structures, Physicochemical Properties, and Reactivities of Cobalt(II) Complexes Supported by a Homoscorpionate (Tris(pyrazolyl)borate) Ligand Tp <sup>Ph,Me</sup> . <i>Organometallics</i> , 2012, 31, 372-380.	2.3	16
24	Low-valent homobimetallic Rh complexes: influence of ligands on the structure and the intramolecular reactivity of Rh <sup>H</sup> intermediates. <i>Chemical Science</i> , 2019, 10, 7937-7945.	7.4	15
25	Synthesis and characterization of coordinatively unsaturated nickel(ii) and manganese(ii) alkyl complexes supported by the hydrotris(3-phenyl-5-methylpyrazolyl)borate (TpPh,Me) ligand. <i>Dalton Transactions</i> , 2013, 42, 10525.	3.3	14
26	Stoichiometric carbon-carbon bond formation mediated by well defined Nb(III) complexes. <i>Polyhedron</i> , 2014, 84, 19-23.	2.2	13
27	C-F sp <sup>2</sup> bond functionalization mediated by niobium complexes. <i>Dalton Transactions</i> , 2015, 44, 19494-19500.	3.3	13
28	Increased performance of an all-organic redox flow battery model <i>via</i> nitration of the [4]helicenium DMQA ion electrolyte. <i>Materials Advances</i> , 2022, 3, 216-223.	5.4	13
29	From 0 to II in One-Electron Steps: A Series of Ruthenium Complexes Supported by TropPPh 2. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 11999-12002.	13.8	12
30	Reduction of Nitrogen Oxides by Hydrogen with Rhodium(I)-Platinum(II) Olefin Complexes as Catalysts. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 25372-25380.	13.8	12
31	Helical Carbenium Ion-Based Organic Photoredox Catalyst: A Versatile and Sustainable Option in Red-Light-Induced Reactions. <i>Synlett</i> , 2021, 32, 337-334.	1.8	12
32	A low-valent dinuclear ruthenium diazadiene complex catalyzes the oxidation of dihydrogen and reversible hydrogenation of quinones. <i>Chemical Science</i> , 2019, 10, 1117-1125.	7.4	11
33	Red-Light-Induced N,N <sup>2</sup> -Dipropyl-1,13-dimethoxyquinacridinium-Catalyzed [3+2] Cycloaddition of Cyclopropylamines with Alkenes or Alkynes. <i>Synlett</i> , 2022, 33, 1194-1198.	1.8	10
34	Synthesis and characterization of group 5 imido complexes supported by the 2,6-dichloroaryl $\beta^2$ -diketiminato ligand. <i>Inorganica Chimica Acta</i> , 2014, 422, 114-119.	2.4	9
35	Synthesis and Characterization of Ion Pairs between Alkaline Metal Ions and Anionic Anti-Aromatic and Aromatic Hydrocarbons with $\pi$ -Conjugated Central Seven- and Eight-Membered Rings. <i>Molecules</i> , 2020, 25, 4742.	3.8	6
36	Diolefins with an ether/thioether functionality as ligands in the coordination sphere of Ni and Rh. <i>Dalton Transactions</i> , 2015, 44, 20056-20066.	3.3	4

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37	Activation of heteroallenes by coordinatively unsaturated nickel(ii) alkyl complexes supported by the hydrotris(3-phenyl-5-methyl)pyrazolyl borate (TpPh,Me) ligand. Dalton Transactions, 2016, 45, 14581-14590.	3.3	3
38	Syntheses of Phosponium Salts from Phosphines and Carbenium: Efficient CO <sub>2</sub> Fixation and Phase-Transfer Catalysts. European Journal of Organic Chemistry, 2020, 2020, 2553-2559.	2.4	3
39	Reduction of Nitrogen Oxides by Hydrogen with Rh(I)-Pt(II) Olefin Complexes as Catalysts. Angewandte Chemie, 0, , .	2.0	3
40	Green light to a green arylation. Trends in Chemistry, 2022, 4, 962-963.	8.5	3