Thibault Cantat

List of Publications by Year
in descending order

112 papers	7,546 citations	50170 46 h-index	54797 84 g-index
137 all docs	137 docs citations	137 times ranked	5875 citing authors

#	Article	IF	Citations
1	The Role of (^{<i>t</i>Bu}POCOP)Ir(I) and Iridium(III) Pincer Complexes in the Catalytic Hydrogenolysis of Silyl Triflates into Hydrosilanes. Organometallics, 2022, 41, 1786-1796.	1.1	6
2	Reductive depolymerization of polyesters and polycarbonates with hydroboranes by using a lanthanum(<scp>iii</scp>) tris(amide) catalyst. Chemical Communications, 2022, 58, 2830-2833.	2.2	17
3	Additive-free selective methylation of secondary amines with formic acid over a Pd/In₂O₃ catalyst. Catalysis Science and Technology, 2022, 12, 57-61.	2.1	6
4	Metalâ€Free Catalytic Hydrogenolysis of Silyl Triflates and Halides into Hydrosilanes**. Angewandte Chemie - International Edition, 2022, 61, .	7.2	4
5	Silyl formates as hydrosilane surrogates for the transfer hydrosilylation of ketones. Chemical Communications, 2022, 58, 6308-6311.	2.2	5
6	Selective Reduction of Secondary Amides to Imines Catalysed by Schwartz's Reagent**. Angewandte Chemie - International Edition, 2022, 61, .	7.2	24
7	Photocatalytic deoxygenation of Nâ€"O bonds with rhenium complexes: from the reduction of nitrous oxide to pyridine <i>N</i>-oxides. Chemical Science, 2021, 12, 10266-10272.	3.7	10
8	Catalytic challenges and strategies for the carbonylation of Ïƒ-bonds. Green Chemistry, 2021, 23, 723-739.	4.6	14
9	Additive-Free Formic Acid Dehydrogenation Catalyzed by a Cobalt Complex. Organometallics, 2021, 40, 565-569.	1.1	18
10	Coupling Electrocatalytic CO₂ Reduction with Thermocatalysis Enables the Formation of a Lactone Monomer. ChemSusChem, 2021, 14, 2198-2204.	3.6	9
11	Direct Carbon Isotope Exchange of Pharmaceuticals via Reversible Decyanation. Journal of the American Chemical Society, 2021, 143, 5659-5665.	6.6	15
12	Copperâ€"Ligand Cooperativity in H₂ Activation Enables the Synthesis of Copper Hydride Complexes. Organometallics, 2021, 40, 2064-2069.	1.1	11
13	Unlocking the Catalytic Hydrogenolysis of Chlorosilanes into Hydrosilanes with Superbases. ACS Catalysis, 2021, 11, 10855-10861.	5.5	9
14	Uranyl(VI) Triflate as Catalyst for the Meerweinâ€"Ponndorfâ€"Verley Reaction. Inorganic Chemistry, 2021, 60, 16140-16148.	1.9	4
15	A Copper(I)â€Catalyzed Sulfonylative Hiyama Crossâ€Coupling. Chemistry - A European Journal, 2021, 27, 18047-18053.	1.7	12
16	Arene-Bridged Dithorium Complexes: Inverse Sandwiches Supported by a Î´ Bonding Interaction. Journal of the American Chemical Society, 2020, 142, 21292-21297.	6.6	27
17	Catalytic Disproportionation of Formic Acid to Methanol by using Recyclable Silylformates. Angewandte Chemie, 2020, 132, 14123-14127.	1.6	3
18	Transitionâ€Metalâ€Free Carbon Isotope Exchange of Phenyl Acetic Acids. Angewandte Chemie, 2020, 132, 13592-13597.	1.6	3

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19	Transitionâ€Metalâ€Free Carbon Isotope Exchange of Phenyl Acetic Acids. Angewandte Chemie - International Edition, 2020, 59, 13490-13495.	7.2	44
20	Catalytic Disproportionation of Formic Acid to Methanol by using Recyclable Silylformates. Angewandte Chemie - International Edition, 2020, 59, 14019-14023.	7.2	13
21	Breaking Câ€“O Bonds with Uranium: Uranyl Complexes as Selective Catalysts in the Hydrosilylation of Aldehydes. ACS Catalysis, 2019, 9, 9025-9033.	5.5	28
22	Catalytic Metal-Free Deoxygenation of Nitrous Oxide with Disilanes. ACS Catalysis, 2019, 9, 11563-11567.	5.5	11
23	Transitionâ€Metalâ€Free Acceptorless Decarbonylation of Formic Acid Enabled by a Liquid Chemicalâ€Looping Strategy. Angewandte Chemie, 2019, 131, 17375-17379.	1.6	5
24	Transitionâ€Metalâ€Free Acceptorless Decarbonylation of Formic Acid Enabled by a Liquid Chemicalâ€Looping Strategy. Angewandte Chemie - International Edition, 2019, 58, 17215-17219.	7.2	9
25	Carbonylation of Câˆ’N Bonds in Tertiary Amines Catalyzed by Lowâ€Valent Iron Catalysts. Angewandte Chemie - International Edition, 2019, 58, 10884-10887.	7.2	27
26	Carbonylation of Câˆ’N Bonds in Tertiary Amines Catalyzed by Lowâ€Valent Iron Catalysts. Angewandte Chemie, 2019, 131, 11000-11003.	1.6	10
27	Activation of SO₂ by N/Si⁺ and N/B Frustrated Lewis Pairs: Experimental and Theoretical Comparison with CO₂ Activation. Chemistry - A European Journal, 2019, 25, 8118-8126.	1.7	22
28	SO₂ conversion to sulfones: development and mechanistic insights of a sulfonylative Hiyama cross-coupling. Chemical Communications, 2019, 55, 12924-12927.	2.2	18
29	Dynamic Carbon Isotope Exchange of Pharmaceuticals with Labeled CO₂. Journal of the American Chemical Society, 2019, 141, 780-784.	6.6	44
30	Efficient reductive depolymerization of hardwood and softwood lignins with Brookhart's iridium(iii) catalyst and hydrosilanes. Green Chemistry, 2018, 20, 1981-1986.	4.6	32
31	Metalâ€Free and Alkaliâ€Metalâ€Catalyzed Synthesis of Isoureas from Alcohols and Carbodiimides. Angewandte Chemie - International Edition, 2018, 57, 3084-3088.	7.2	16
32	Metalâ€Free and Alkaliâ€Metalâ€Catalyzed Synthesis of Isoureas from Alcohols and Carbodiimides. Angewandte Chemie, 2018, 130, 3138-3142.	1.6	7
33	Depolymerization of Waste Plastics to Monomers and Chemicals Using a Hydrosilylation Strategy Facilitated by Brookhartâ€™s Iridium(III) Catalyst. ACS Sustainable Chemistry and Engineering, 2018, 6, 10481-10488.	3.2	106
34	A Viewpoint on Chemical Reductions of Carbonâ€“Oxygen Bonds in Renewable Feedstocks Including CO₂ and Biomass. ACS Catalysis, 2017, 7, 2107-2115.	5.5	75
35	Synthesis of Aromatic Sulfones from SO₂ and Organosilanes Under Metalâ€free Conditions. Angewandte Chemie - International Edition, 2017, 56, 5616-5619.	7.2	77
36	Synthesis of Aromatic Sulfones from SO₂ and Organosilanes Under Metalâ€free Conditions. Angewandte Chemie, 2017, 129, 5708-5711.	1.6	13

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37	Structural Insights into the Nature of Fe⁰ and Fe^I Low-Valent Species Obtained upon the Reduction of Iron Salts by Aryl Grignard Reagents. Inorganic Chemistry, 2017, 56, 3834-3848.	1.9	34
38	Silylation of Oâ€“H bonds by catalytic dehydrogenative and decarboxylative coupling of alcohols with silyl formates. Chemical Communications, 2017, 53, 11697-11700.	2.2	18
39	Iron-Catalyzed Silylation of Alcohols by Transfer Hydrosilylation with Silyl Formates. Synlett, 2017, 28, 2473-2477.	1.0	11
40	Reactivity and Structural Diversity in the Reaction of Guanidine 1,5,7â€Triazabicyclo[4.4.0]decâ€5â€ene with CO₂, CS₂, and Other Heterocumulenes. European Journal of Organic Chemistry, 2017, 2017, 676-686.	1.2	10
41	Silyl Formates as Surrogates of Hydrosilanes and Their Application in the Transfer Hydrosilylation of Aldehydes. Angewandte Chemie, 2016, 128, 14302-14306.	1.6	9
42	Synergistic effects in ambiphilic phosphino-borane catalysts for the hydroboration of CO₂. Chemical Communications, 2016, 52, 7553-7555.	2.2	35
43	Silyl Formates as Surrogates of Hydrosilanes and Their Application in the Transfer Hydrosilylation of Aldehydes. Angewandte Chemie - International Edition, 2016, 55, 14096-14100.	7.2	29
44	Complexes of the tripodal phosphine ligands PhSi(XPPh₂)₃(X =) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 467 Td CO₂. Dalton Transactions, 2016, 45, 14774-14788.	1.6	40
45	CO₂ Conversion into Esters by Fluorideâ€Mediated Carboxylation of Organosilanes and Halide Derivatives. Chemistry - A European Journal, 2016, 22, 2930-2934.	1.7	29
46	Metal-free disproportionation of formic acid mediated by organoboranes. Chemical Science, 2016, 7, 5680-5685.	3.7	20
47	Synthesis, structure and electrochemical behavior of new RPONOP (Râ€‰=â€‰tBu, iPr) pincer complexes of Fe2+, Co2+, Ni2+, and Zn2+ ions. Comptes Rendus Chimie, 2016, 19, 57-70.	0.2	8
48	Bridging Amines with CO₂: Organocatalyzed Reduction of CO₂ to Aminals. ACS Catalysis, 2015, 5, 3983-3987.	5.5	115
49	Room Temperature Organocatalyzed Reductive Depolymerization of Waste Polyethers, Polyesters, and Polycarbonates. ChemSusChem, 2015, 8, 980-984.	3.6	92
50	Convergent reductive depolymerization of wood lignin to isolated phenol derivatives by metal-free catalytic hydrosilylation. Energy and Environmental Science, 2015, 8, 2734-2743.	15.6	146
51	Metal-free dehydrogenation of formic acid to H₂and CO₂using boron-based catalysts. Chemical Science, 2015, 6, 2938-2942.	3.7	60
52	Reductive functionalization of CO₂ with amines: an entry to formamide, formamidine and methylamine derivatives. Green Chemistry, 2015, 17, 157-168.	4.6	339
53	Bimetallic Cleavage of Aromatic Câ€“H Bonds by Rare-Earth-Metal Complexes. Journal of the American Chemical Society, 2014, 136, 17410-17413.	6.6	26
54	Efficient Disproportionation of Formic Acid to Methanol Using Molecular Ruthenium Catalysts. Angewandte Chemie - International Edition, 2014, 53, 10466-10470.	7.2	77

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55	Creating Added Value with a Waste: Methylation of Amines with CO₂ and H₂. Angewandte Chemie - International Edition, 2014, 53, 2543-2545.	7.2	110
56	Metalâ€Free Reduction of CO₂ with Hydroboranes: Two Efficient Pathways at Play for the Reduction of CO₂ to Methanol. Chemistry - A European Journal, 2014, 20, 7098-7106.	1.7	145
57	Catalytic hydrosilylation of oxalic acid: chemoselective formation of functionalized C₂-products. Catalysis Science and Technology, 2014, 4, 2230-2234.	2.1	18
58	Carbon Dioxide Reduction to Methylamines under Metalâ€Free Conditions. Angewandte Chemie - International Edition, 2014, 53, 12186-12190.	7.2	171
59	Nitrite complexes of the rare earth elements. Dalton Transactions, 2014, 43, 4415-4425.	1.6	8
60	Iron-catalyzed hydrosilylation of CO₂: CO₂ conversion to formamides and methylamines. Catalysis Science and Technology, 2014, 4, 1529-1533.	2.1	152
61	Efficient metal-free hydrosilylation of tertiary, secondary and primary amides to amines. Chemical Communications, 2014, 50, 9349-9352.	2.2	104
62	Catalytic methylation of aromatic amines with formic acid as the unique carbon and hydrogen source. Chemical Communications, 2014, 50, 14033-14036.	2.2	95
63	Unprecedented organocatalytic reduction of lignin model compounds to phenols and primary alcohols using hydrosilanes. Chemical Communications, 2014, 50, 862-865.	2.2	79
64	Pushing Back the Limits of Hydrosilylation: Unprecedented Catalytic Reduction of Organic Ureas to Formamidines. ChemCatChem, 2013, 5, 3552-3556.	1.8	28
65	Nitrite complexes of uranium and thorium. Chemical Communications, 2013, 49, 2412.	2.2	20
66	A six-carbon 10Ï€-electron aromatic system supported by group 3 metals. Nature Communications, 2013, 4, 1448.	5.8	57
67	Complete Catalytic Deoxygenation of CO₂ into Formamidine Derivatives. ChemCatChem, 2013, 5, 117-120.	1.8	124
68	Revisiting the Chemistry of the Actinocenes [(Î·⁸-C₈H₈)₂An] (An = U, Th) with Neutral Lewis Bases. Access to the Bent Sandwich Complexes [(Î·⁸-C₈H₈)₂An(L)] with Thorium (L = py, 4,4â€²-bipy,) Tj ETQq0 0 0 rgBT /Overlock	6.6	44
69	Synthesis of <i>N</i>-Aryloxy-Î²-diketiminate Ligands and Coordination to Zirconium, Ytterbium, Thorium, and Uranium. Organometallics, 2013, 32, 1328-1340.	1.1	24
70	CO2 as a C1-building block for the catalytic methylation of amines. Chemical Science, 2013, 4, 2127.	3.7	310
71	Titanium(IV) Trifluoromethyl Complexes: New Perspectives on Bonding from Organometallic Fluorocarbon Chemistry. Organometallics, 2012, 31, 1484-1499.	1.1	37
72	A N-aryloxy-Î²-diketiminate ligand in 4d, 4f and 5f-metals complexes. Dalton Transactions, 2012, 41, 11980.	1.6	28

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73	Recycling of Carbon and Silicon Wastes: Room Temperature Formylation of Nâ€“H Bonds Using Carbon Dioxide and Polymethylhydrosiloxane. Journal of the American Chemical Society, 2012, 134, 2934-2937.	6.6	337
74	A Diagonal Approach to Chemical Recycling of Carbon Dioxide: Organocatalytic Transformation for the Reductive Functionalization of CO₂. Angewandte Chemie - International Edition, 2012, 51, 187-190.	7.2	487
75	Cover Picture: A Diagonal Approach to Chemical Recycling of Carbon Dioxide: Organocatalytic Transformation for the Reductive Functionalization of CO₂ (Angew. Chem. Int. Ed. 1/2012). Angewandte Chemie - International Edition, 2012, 51, 1-1.	7.2	454
76	Redox control of a polymerization catalyst by changing the oxidation state of the metal center. Chemical Communications, 2011, 47, 9897.	2.2	138
77	Exploring the Uranyl Organometallic Chemistry: From Single to Double Uraniumâˆ'Carbon Bonds. Journal of the American Chemical Society, 2011, 133, 6162-6165.	6.6	123
78	Uranium(IV) Nucleophilic Carbene Complexes. Organometallics, 2011, 30, 2957-2971.	1.1	77
79	UI₄(1,4-dioxane)₂, [UCl₄(1,4-dioxane)]₂, and UI₃(1,4-dioxane)_{1.5}: Stable and Versatile Starting Materials for Low- and High-Valent Uranium Chemistry. Organometallics, 2011, 30, 2031-2038.	1.1	106
80	Coordination Behavior of the S-C-S Monoanion and O-C-O and S-C-S Dianions toward CoII. European Journal of Inorganic Chemistry, 2011, 2011, 2540-2546.	1.0	13
81	Uranium azide photolysis results in Câ€“H bond activation and provides evidence for a terminal uranium nitride. Nature Chemistry, 2010, 2, 723-729.	6.6	202
82	Actinide Redox-Active Ligand Complexes: Reversible Intramolecular Electron-Transfer in U(dpp-BIAN)₂/U(dpp-BIAN)₂(THF). Inorganic Chemistry, 2010, 49, 924-933.	1.9	62
83	Convenient access to the anhydrous thorium tetrachloride complexes ThCl4(DME)2, ThCl4(1,4-dioxane)2 and ThCl4(THF)3.5 using commercially available and inexpensive starting materials. Chemical Communications, 2010, 46, 919.	2.2	107
84	Innentitelbild: Challenging the Metallocene Dominance in Actinide Chemistry with a Soft PNP Pincer Ligand: New Uranium Structures and Reactivity Patterns (Angew. Chem. 20/2009). Angewandte Chemie, 2009, 121, 3594-3594.	1.6	0
85	Challenging the Metallocene Dominance in Actinide Chemistry with a Soft PNP Pincer Ligand: New Uranium Structures and Reactivity Patterns. Angewandte Chemie - International Edition, 2009, 48, 3681-3684.	7.2	76
86	Inside Cover: Challenging the Metallocene Dominance in Actinide Chemistry with a Soft PNP Pincer Ligand: New Uranium Structures and Reactivity Patterns (Angew. Chem. Int. Ed. 20/2009). Angewandte Chemie - International Edition, 2009, 48, 3542-3542.	7.2	0
87	A Strained Sâˆ¼Câˆ¼S Ir Pincer Complex: Intramolecular Câˆ'H Activation of an Aromatic Ring. Organometallics, 2009, 28, 1969-1972.	1.1	15
88	What a Difference a 5f Element Makes: Trivalent and Tetravalent Uranium Halide Complexes Supported by One and Two Bis[2-(diisopropylphosphino)-4-methylphenyl]amido (PNP) Ligands. Inorganic Chemistry, 2009, 48, 2114-2127.	1.9	42
89	The Uâ•C Double Bond: Synthesis and Study of Uranium Nucleophilic Carbene Complexes. Journal of the American Chemical Society, 2009, 131, 963-972.	6.6	163
90	Bis-phosphorus stabilised carbene complexes. Dalton Transactions, 2008, , 1957.	1.6	117

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91	Synthesis of a stable radical anion via the one electron reduction of a 1,1-bis-phosphinosulfide alkene derivative. Chemical Communications, 2008, , 874-876.	2.2	22
92	A Mild Protocol To Generate Uranium(IV) Mixed-Ligand Metallocene Complexes using Copper(I) Iodide. Organometallics, 2008, 27, 5371-5378.	1.1	63
93	Evidence for the Involvement of 5f Orbitals in the Bonding and Reactivity of Organometallic Actinide Compounds: Thorium(IV) and Uranium(IV) Bis(hydrazonato) Complexes. Journal of the American Chemical Society, 2008, 130, 17537-17551.	6.6	118
94	A Joint Experimental and Theoretical Study of the Palladium-Catalyzed Electrophilic Allylation of Aldehydes. Journal of Organic Chemistry, 2007, 72, 4228-4237.	1.7	47
95	Experimental and theoretical study of phosphinine sulfides. New Journal of Chemistry, 2007, 31, 1493.	1.4	28
96	2,2â€²-Biphosphinines and 2,2â€²-Bipyridines in Homoleptic Dianionic Groupâ€...4 Complexes and Neutral 2,2â€²-Biphosphinine Groupâ€...6 d6 Metal Complexes: Octahedral versus Trigonal-Prismatic Geometries. Chemistry - A European Journal, 2007, 13, 2953-2965.	1.7	13
97	From a Stable Dianion to a Stable Carbenoid. Angewandte Chemie - International Edition, 2007, 46, 5947-5950.	7.2	72
98	New anionic and dianionic polydentate systems featuring ancillary phosphinosulfides as ligands in coordination chemistry and catalysis. Comptes Rendus Chimie, 2007, 10, 573-582.	0.2	15
99	Phosphorus-Stabilized Geminal Dianions. Organometallics, 2006, 25, 4965-4976.	1.1	108
100	Synthesis, Reactivity, and DFT Studies of Sâˆ’Câˆ’S Zirconium(IV) Complexes. Organometallics, 2006, 25, 6030-6038.	1.1	78
101	Thulium Alkylidene Complexes:Â Synthesis, X-ray Structures, and Reactivity. Organometallics, 2006, 25, 1329-1332.	1.1	101
102	EPR and DFT studies of the one-electron reduction product of phospholium cations. Physical Chemistry Chemical Physics, 2006, 8, 862-868.	1.3	27
103	Formation and Structure of a Stable Monoradical Cation by Reduction of a Diphosphafulvenium Salt. Angewandte Chemie - International Edition, 2006, 45, 7036-7039.	7.2	24
104	The Effect of Chloride Ions on the Mechanism of the Oxidative Addition of Cyclic Allylic Carbonates to Pd0 Complexes by Formation of Neutral[(Î·1-allyl)PdClL2] Complexes. European Journal of Organic Chemistry, 2005, 2005, 4277-4286.	1.2	23
105	New mono- and bis-carbene samarium complexes: synthesis, X-ray crystal structures and reactivity. Chemical Communications, 2005, , 5178.	2.2	130
106	A Bis(thiophosphinoyl)methylene Ruthenium Carbene Complex:â€‰ Synthesis, X-ray Crystal Structure, and DFT Calculations of Its Thermally Promoted Reverse Î±-Hydride Migration Process. Organometallics, 2005, 24, 4838-4841.	1.1	77
107	A Bis(thiophosphinoyl)methanediide Palladium Complex: Coordinated Dianion or Nucleophilic Carbene Complex?. Angewandte Chemie - International Edition, 2004, 43, 6382-6385.	7.2	118
108	A Bis(thiophosphinoyl)methanediide Palladium Complex: Coordinated Dianion or Nucleophilic Carbene Complex?. Angewandte Chemie, 2004, 116, 6542-6545.	1.6	27

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109	Titanocene and zirconocene complexes of a phosphorus analog of an Arduengo's carbene: Application in the synthesis of 1,3-diphosphafulvenes. Chemical Communications, 2004, , 1274-1275.	2.2	29
110	Structural and kinetic effects of chloride ions in the palladium-catalyzed allylic substitutions. Journal of Organometallic Chemistry, 2003, 687, 365-376.	0.8	125
111	Metalâ€Free Catalytic Hydrogenolysis of Silyl Triflates and Halides into Hydrosilanes**. Angewandte Chemie, 0, , .	1.6	0
112	Selective Reduction of Secondary Amides to Imines Catalysed by Schwartzâ€™s Reagent. Angewandte Chemie, 0, , .	1.6	3