

# RÃ©gis Gauvin

## List of Publications by Year in descending order

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2679  
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#	ARTICLE	IF	CITATIONS
1	Manganese Pincer Complexes for the Base-Free, Acceptorless Dehydrogenative Coupling of Alcohols to Esters: Development, Scope, and Understanding. <i>ACS Catalysis</i> , 2017, 7, 2022-2032.	5.5	213
2	Expanding the scope of metathesis: a survey of polyfunctional, single-site supported tungsten systems for hydrocarbon valorization. <i>Chemical Society Reviews</i> , 2013, 42, 9035.	18.7	101
3	<sup>17</sup> O NMR Gives Unprecedented Insights into the Structure of Supported Catalysts and Their Interaction with the Silica Carrier. <i>Journal of the American Chemical Society</i> , 2012, 134, 9263-9275.	6.6	93
4	A New General Method for the Preparation of Metal Carbene Complexes. <i>Journal of the American Chemical Society</i> , 2001, 123, 5372-5373.	6.6	92
5	Mechanistic Aspects of the Polymerization of Lactide Using a Highly Efficient Aluminum(III) Catalytic System. <i>Journal of the American Chemical Society</i> , 2017, 139, 6217-6225.	6.6	85
6	Catalytic Conversion of Alcohols into Carboxylic Acid Salts in Water: Scope, Recycling, and Mechanistic Insights. <i>ChemSusChem</i> , 2016, 9, 1413-1423.	3.6	84
7	Heteronuclear NMR Spectroscopy as a Surface-Selective Technique: A Unique Look at the Hydroxyl Groups of $\gamma$ -Alumina. <i>Chemistry - A European Journal</i> , 2014, 20, 4038-4046.	1.7	82
8	Polymerization of racemic $\hat{2}$ -butyrolactone using supported catalysts: a simple access to isotactic polymers. <i>Chemical Communications</i> , 2010, 46, 1032.	2.2	80
9	A Strong Support Effect in Selective Propane Dehydrogenation Catalyzed by Ga( <i>i</i> -Bu) <sub>3</sub> Grafted onto $\gamma$ -Alumina and Silica. <i>ACS Catalysis</i> , 2018, 8, 7566-7577.	5.5	79
10	Development of the first well-defined tungsten oxo alkyl derivatives supported on silica by SOMC: towards a model of WO <sub>3</sub> /SiO <sub>2</sub> olefin metathesis catalyst. <i>Chemical Communications</i> , 2010, 46, 8944.	2.2	67
11	Deeper Mechanistic Insight into Ru Pincer-Mediated Acceptorless Dehydrogenative Coupling of Alcohols: Exchanges, Intermediates, and Deactivation Species. <i>ACS Catalysis</i> , 2018, 8, 4719-4734.	5.5	64
12	Controlling polymer stereochemistry in ring-opening polymerization: a decade of advances shaping the future of biodegradable polyesters. <i>Chemical Society Reviews</i> , 2021, 50, 13587-13608.	18.7	62
13	Measurement of Aluminum-Carbon Distances Using $\hat{S}$ RESPDOR NMR Experiments. <i>ChemPhysChem</i> , 2012, 13, 3605-3615.	1.0	59
14	Synthesis and Structure of New Osmium-PCP Complexes. Osmium-Mediated C-C Bond Activation. <i>Organometallics</i> , 2001, 20, 1719-1724.	1.1	57
15	Oxidative Transformations of Biosourced Alcohols Catalyzed by Earth-Abundant Transition Metals. <i>ChemCatChem</i> , 2017, 9, 2652-2660.	1.8	57
16	Accessing Realistic Models for the WO <sub>3</sub> -SiO <sub>2</sub> Industrial Catalyst through the Design of Organometallic Precursors. <i>ACS Catalysis</i> , 2016, 6, 1-18.	5.5	54
17	Yttrium catalysts for syndioselective $\hat{2}$ -butyrolactone polymerization: on the origin of ligand-induced stereoselectivity. <i>Polymer Chemistry</i> , 2013, 4, 360-367.	1.9	53
18	Zirconium-Benzyl Complexes of a Tridentate C <sub>2</sub> -Symmetric Dialkoxo Ligand. Diastereoselectivity of Olefin Single-Insertion Reactions. <i>Organometallics</i> , 2000, 19, 2944-2946.	1.1	52

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19	Well-Defined Silica-Supported Calcium Reagents: Control of Schlenk Equilibrium by Grafting. <i>Chemistry - A European Journal</i> , 2009, 15, 4382-4393.	1.7	52
20	The D-HMQC MAS-NMR Technique. <i>Annual Reports on NMR Spectroscopy</i> , 2014, , 145-184.	0.7	52
21	A General Method for Preparation of Metal Carbenes via Solution- and Polymer-Based Approaches. <i>Journal of the American Chemical Society</i> , 2005, 127, 15265-15272.	6.6	51
22	Well-Defined Silica-Supported Rare-Earth Silylamides. <i>Inorganic Chemistry</i> , 2007, 46, 1062-1070.	1.9	51
23	A well-defined silica-supported aluminium alkyl through an unprecedented, consecutive two-step protonolysis-alkyl transfer mechanism. <i>Chemical Communications</i> , 2011, 47, 2979.	2.2	51
24	Well-Defined Molybdenum Oxo Alkyl Complex Supported on Silica by Surface Organometallic Chemistry: A Highly Active Olefin Metathesis Precatalyst. <i>Journal of the American Chemical Society</i> , 2017, 139, 2144-2147.	6.6	49
25	Heteronuclear NMR Correlations To Probe the Local Structure of Catalytically Active Surface Aluminum Hydride Species on $\gamma$ -Alumina. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 9854-9858.	7.2	47
26	Acceptorless dehydrogenative coupling of alcohols catalysed by ruthenium PNP complexes: Influence of catalyst structure and of hydrogen mass transfer. <i>Journal of Catalysis</i> , 2016, 340, 331-343.	3.1	46
27	Vanadium Oxo Organometallic Species Supported on Silica for the Selective Non-oxidative Dehydrogenation of Propane. <i>Organometallics</i> , 2013, 32, 6452-6460.	1.1	44
28	Silica/MAO/(n-BuCp) <sub>2</sub> ZrCl <sub>2</sub> catalyst: effect of support dehydroxylation temperature on the grafting of MAO and ethylene polymerization. <i>Catalysis Science and Technology</i> , 2016, 6, 2962-2974.	2.1	44
29	Silica-supported lanthanide silylamides for methyl methacrylate polymerisation: controlled grafting induces controlled reactivity. <i>Chemical Communications</i> , 2005, , 1146.	2.2	43
30	On the Track to Silica-Supported Tungsten Oxo Metathesis Catalysts: Input from <sup>17</sup> O Solid-State NMR. <i>Inorganic Chemistry</i> , 2013, 52, 10119-10130.	1.9	40
31	Development of silica-supported frustrated Lewis pairs: highly active transition metal-free catalysts for the Z-selective reduction of alkynes. <i>Catalysis Science and Technology</i> , 2016, 6, 882-889.	2.1	39
32	Well-Defined Supported Mononuclear Tungsten Oxo Species as Olefin Metathesis Pre-Catalysts. <i>ACS Catalysis</i> , 2014, 4, 4232-4241.	5.5	38
33	Ligand Exchange-Mediated Activation and Stabilization of a Re-Based Olefin Metathesis Catalyst by Chlorinated Alumina. <i>Journal of the American Chemical Society</i> , 2016, 138, 12935-12947.	6.6	37
34	Grafted lanthanide amides: Versatile catalysts for various transformations. <i>Journal of Molecular Catalysis A</i> , 2006, 257, 31-40.	4.8	36
35	Osmium-Mediated C-H and C-C Bond Cleavage of a Phenolic Substrate:p-Quinone Methide and Methylene Arenium Pincer Complexes. <i>Chemistry - A European Journal</i> , 2007, 13, 1382-1393.	1.7	36
36	Development of a well-defined silica-supported tungstenocarbene complex as efficient heterogeneous catalyst for alkyne metathesis. <i>Journal of Organometallic Chemistry</i> , 2008, 693, 1733-1737.	0.8	34

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37	A Study of Transition-Metal Organometallic Complexes Combining <sup>35</sup> Cl Solid-State NMR Spectroscopy and <sup>35</sup> Cl NQR Spectroscopy and First-Principles DFT Calculations. Chemistry - A European Journal, 2013, 19, 12396-12414.	1.7	34
38	Silica-Supported Tungsten Neosilyl Oxo Precatalysts: Impact of the Podality on Activity and Stability in Olefin Metathesis. Organometallics, 2016, 35, 2188-2196.	1.1	31
39	An Investigation of Chlorine Ligands in Transition-Metal Complexes via <sup>35</sup> Cl Solid-State NMR and Density Functional Theory Calculations. Inorganic Chemistry, 2014, 53, 9581-9597.	1.9	28
40	Solid-state NMR of quadrupolar nuclei for investigations into supported organometallic catalysts: scope and frontiers. Chemical Society Reviews, 2018, 47, 2572-2590.	18.7	28
41	Selective Grafting of Ga( <i>i</i> - <i>i</i> Bu) <sub>3</sub> on the Silanols of Mesoporous H-ZSM-5 by Surface Organometallic Chemistry. Journal of Physical Chemistry C, 2015, 119, 26611-26619.	1.5	27
42	Cross-Metathesis of Biosourced Fatty Acid Derivatives: A Step Further Toward Improved Reactivity. ChemSusChem, 2015, 8, 1143-1146.	3.6	27
43	A well-defined silica-supported dinuclear tungsten(iii) amido species: synthesis, characterization and reactivity. Dalton Transactions, 2007, , 3127-3130.	1.6	25
44	Small Changes Have Consequences: Lessons from Tetrabenzyltitanium and Zirconium Surface Organometallic Chemistry. Chemistry - A European Journal, 2013, 19, 964-973.	1.7	24
45	Well-defined silica-supported molybdenum nitride species: silica grafting triggers alkyne metathesis activity. Chemical Science, 2013, 4, 2680.	3.7	24
46	Enhanced Metathesis Activity and Stability of Methyltrioxorhenium on a Mostly Amorphous Alumina: Role of the Local Grafting Environment. Journal of the American Chemical Society, 2018, 140, 13854-13868.	6.6	24
47	Advances in Structural Studies on Alkylaluminum Species in the Solid State via Challenging <sup>27</sup> Al- <sup>13</sup> C NMR Spectroscopy and X-ray Diffraction. Journal of Physical Chemistry C, 2013, 117, 18091-18099.	1.5	22
48	Support effect in ethylene oligomerization mediated by heterogenized nickel catalysts. Catalysis Communications, 2010, 11, 597-600.	1.6	21
49	Design and Application of a Hybrid Material Featuring Well-Defined, Tuneable Grafting Sites for Supported Catalysis.. ChemCatChem, 2013, 5, 1971-1977.	1.8	21
50	The design of a bipodal bis(pentafluorophenoxy)aluminate supported on silica as an activator for ethylene polymerization using surface organometallic chemistry. Chemical Communications, 2016, 52, 4776-4779.	2.2	21
51	On the Fate of Silica-Supported Half-Metallocene Cations: Elucidating a Catalyst's Deactivation Pathways. Organometallics, 2012, 31, 4763-4768.	1.1	20
52	Solvent- and base-free synthesis of wax esters from fatty acid methyl esters by consecutive one-pot, two-step catalysis. Green Chemistry, 2017, 19, 5665-5673.	4.6	20
53	An easily accessible Re-based catalyst for the selective conversion of methanol: evidence for an unprecedented active site structure through combined operando techniques. Chemical Communications, 2011, 47, 4285.	2.2	19
54	Supported neodymium catalysts for MMA polymerization: on the origin of surface-induced stereoselectivity. Polymer Chemistry, 2012, 3, 1730-1739.	1.9	18

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55	Well-Defined Silica-Supported Zirconium-Benzyl Cationic Species: Improved Heterogenization of Single-Site Polymerization Catalysts. <i>European Journal of Inorganic Chemistry</i> , 2014, 2014, 888-895.	1.0	18
56	Heterogenized nickel catalysts for propene dimerization: Support effects on activity and selectivity. <i>Catalysis Communications</i> , 2013, 32, 32-35.	1.6	17
57	Multicatalysis from renewable resources: a direct route to furan-based polyesters. <i>Green Chemistry</i> , 2021, 23, 6931-6935.	4.6	17
58	Design of a well-defined, silica-supported chiral Zn scaffold for enantioselective catalysis. <i>Dalton Transactions</i> , 2010, 39, 3802.	1.6	16
59	Enforcing Z-selectivity in olefin metathesis through use of catalysts grafted on well-defined phenolic hybrid material. <i>Catalysis Today</i> , 2014, 235, 41-48.	2.2	15
60	Supported Neodymium Catalysts for Isoprene and <i>rac</i> - $\epsilon$ -Caprolactone Polymerization: Modulation of Reactivity by Controlled Grafting. <i>Macromolecular Rapid Communications</i> , 2011, 32, 215-219.	2.0	14
61	On the use of solid-state <sup>45</sup> Sc NMR for structural investigations of molecular and silica-supported scandium amide catalysts. <i>Dalton Transactions</i> , 2017, 46, 13176-13179.	1.6	14
62	A nano-organized ethylene oligomerization catalyst: Characterization and reactivity of the Ni(MeCN) <sub>6</sub> (BF <sub>4</sub> ) <sub>2</sub> /[Al]-MCM-41/AlEt <sub>3</sub> system. <i>Microporous and Mesoporous Materials</i> , 2006, 96, 109-114.	2.2	13
63	Chiral phenoxyimino-amido aluminum complexes for the asymmetric cyanation of aldehydes. <i>Dalton Transactions</i> , 2014, 43, 4530.	1.6	13
64	Efficient deuterium labelling of alcohols in deuterated water catalyzed by ruthenium pincer complexes. <i>Catalysis Communications</i> , 2016, 84, 67-70.	1.6	13
65	Bilirubin oxidase-based silica macrocellular robust catalyst for on line dyes degradation. <i>Enzyme and Microbial Technology</i> , 2019, 120, 77-83.	1.6	13
66	A New Donor-Stabilized Tungsten Amido Alkoxido Species: Synthesis, Crystal Structure, Fluxionality, and Grafting onto Silica. <i>European Journal of Inorganic Chemistry</i> , 2007, 2007, 5541-5547.	1.0	12
67	2,5-Furandicarboxylic Acid: An Intriguing Precursor for Monomer and Polymer Synthesis. <i>Molecules</i> , 2022, 27, 4071.	1.7	12
68	Modification of silica-supported tungsten neosilyl oxo precatalysts: impact of substituted phenol on activity and stability in olefin metathesis. <i>Catalysis Science and Technology</i> , 2016, 6, 8532-8539.	2.1	11
69	Palladium-Catalyzed Functionalization of Kraft Lignin: Ether Linkages through the Telomerization Reaction. <i>ChemSusChem</i> , 2018, 11, 1649-1655.	3.6	11
70	Caveat on the Actual Robustness of Heteronuclear NMR Methods for Probing the Surface of $\gamma$ -Alumina and Related Catalysts. <i>Journal of Physical Chemistry C</i> , 2019, 123, 12919-12927.	1.5	11
71	A Well-Defined Silica-Supported Lanthanum Bis(phosphinimino)methanide. <i>European Journal of Inorganic Chemistry</i> , 2011, 2011, 1366-1369.	1.0	10
72	<sup>17</sup> O MAS NMR studies of oxo-based olefin metathesis catalysts: a critical assessment of signal enhancement methods. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 28157-28163.	1.3	10

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73	Silica-Grafted Lanthanum Benzyl Species: Synthesis, Characterization, and Catalytic Applications. <i>Organometallics</i> , 2017, 36, 3912-3920.	1.1	10
74	Ethenolysis of Renewable Methyl Oleate Catalyzed by Readily Accessible Supported Group VI Oxo Catalysts. <i>Organometallics</i> , 2020, 39, 1105-1111.	1.1	10
75	Solvent-Free Ring-Opening Metathesis Polymerization of Norbornene over Silica-Supported Tungsten-Oxo Perhydrocarbyl Catalysts. <i>Macromolecular Rapid Communications</i> , 2016, 37, 1832-1836.	2.0	9
76	New synthetic approach towards well-defined silica supported tungsten bis-oxo, active catalysts for olefin metathesis. <i>Catalysis Communications</i> , 2018, 108, 51-54.	1.6	9
77	Zirconium(IV) benzyl complexes that contain chelating diamido ligands: synthesis, fluxionality and ethylene polymerization activity. <i>Journal of Molecular Catalysis A</i> , 2002, 182-183, 411-417.	4.8	7
78	Solution structure and decomposition pathway of zwitterionic zirconium (IV) benzyl complexes. <i>Journal of Organometallic Chemistry</i> , 2002, 658, 1-8.	0.8	7
79	Shifting From Ziegler-Natta to Philips-Type Catalyst? A Simple and Safe Access to Reduced Titanium Systems for Ethylene Polymerization. <i>Macromolecular Rapid Communications</i> , 2011, 32, 1921-1924.	2.0	7
80	The Palladium-Catalyzed Carbonylative Telomerization Reaction with Phenols, Polyphenols and Kraft Lignin. <i>ChemSusChem</i> , 2018, 11, 3917-3922.	3.6	7
81	The arched four-rung ladder structure of the unsolvated dilithium salt of N,N-bis(trimethylsilyl)-2-aminobenzylamine, and its structural deformation on THF complexation. <i>Chemical Communications</i> , 2000, , 965-966.	2.2	6
82	Efficient synthesis and structural characterization of a post-metallocene $\hat{\pm}$ -olefin polymerization catalyst. <i>Inorganica Chimica Acta</i> , 2009, 362, 277-280.	1.2	6
83	Improved reactivity in the conversion of nitrile-functionalized olefins by metathesis. <i>Catalysis Communications</i> , 2016, 77, 75-78.	1.6	6
84	Grafting of a new bis-silylamido aluminum species on silica: insight from solid-state NMR into interactions with the surface. <i>Dalton Transactions</i> , 2019, 48, 5243-5252.	1.6	6
85	Online monitoring by infrared spectroscopy using multivariate analysis - background theory and application to catalytic dehydrogenative coupling of butanol to butyl butyrate. <i>Reaction Chemistry and Engineering</i> , 2019, 4, 909-918.	1.9	6
86	Dismantling the salen framework: design of new asymmetric silylcyanation catalysts. <i>Catalysis Science and Technology</i> , 2013, 3, 580-583.	2.1	5
87	<i>In Situ</i> Generation of Molybdenum-Based Catalyst for Alkyne Metathesis: Further Developments and Mechanistic Insights. <i>Oil and Gas Science and Technology</i> , 2016, 71, 20.	1.4	5
88	Isonitrile ruthenium and iron PNP complexes: synthesis, characterization and catalytic assessment for base-free dehydrogenative coupling of alcohols. <i>Dalton Transactions</i> , 2021, 50, 10067-10081.	1.6	5
89	A smarter approach to catalysts by design: Combining surface organometallic chemistry on oxide and metal gives selective catalysts for dehydrogenation of 2,3-dimethylbutane. <i>Molecular Catalysis</i> , 2019, 471, 21-26.	1.0	4
90	Preparation of monopodal and bipodal aluminum surface species by selective protonolysis of highly reactive [AlH <sub>3</sub> (NMe <sub>2</sub> Et)] on silica. <i>Dalton Transactions</i> , 2017, 46, 11547-11551.	1.6	3

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91	In situ Mo(CO) <sub>6</sub> -based catalysts for alkyne metathesis: Silanols vs phenols as co-catalysts under thermal and photochemical activation. <i>Catalysis Communications</i> , 2020, 138, 105944.	1.6	3
92	Probing <sup>29</sup> Si- <sup>17</sup> O connectivities and proximities by solid-state NMR. <i>Journal of Magnetic Resonance</i> , 2021, 330, 107029.	1.2	2
93	Olefin Metathesis by Group VI (Mo, W) Metal Compounds. , 2018, , .		1
94	Synthesis of an oxo trialkyl tungsten fluoride complex and its dual reactivity with silica dehydroxylated at high temperature. <i>Journal of Organometallic Chemistry</i> , 2018, 869, 11-17.	0.8	1
95	Catalytic Conversion of Alcohols into Carboxylic Acid Salts in Water: Scope, Recycling, and Mechanistic Insights. <i>ChemSusChem</i> , 2016, 9, 1350-1350.	3.6	0