

# Laurent Veyre

## List of Publications by Year in descending order

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59  
papers

2,656  
citations

172457

29  
h-index

182427

51  
g-index

62  
all docs

62  
docs citations

62  
times ranked

3449  
citing authors

#	ARTICLE	IF	CITATIONS
1	Mn <sub>2</sub> (CO) <sub>10</sub> and UV light: a promising combination for regioselective alkene hydrosilylation at low temperature. <i>Chemical Communications</i> , 2022, 58, 4091-4094.	4.1	13
2	Highly dispersed silica-supported iridium and iridium-aluminium catalysts for methane activation prepared via surface organometallic chemistry. <i>Chemical Communications</i> , 2022, 58, 8214-8217.	4.1	3
3	Development of Pd Supported Catalysts Using Thiol-Functionalized Mesoporous Silica Frameworks: Application to the Chemo- and Regioselective C- $\beta$ Arylation of Free Indole. <i>European Journal of Inorganic Chemistry</i> , 2021, 2021, 814-820.	2.0	1
4	Strongly Polarized Iridium-Aluminum Pairs: Unconventional Reactivity Patterns Including CO <sub>2</sub> Cooperative Reductive Cleavage. <i>Journal of the American Chemical Society</i> , 2021, 143, 4844-4856.	13.7	31
5	Stepwise construction of silica-supported tantalum/iridium heteropolymetallic catalysts using surface organometallic chemistry. <i>Journal of Catalysis</i> , 2020, 392, 287-301.	6.2	11
6	Developing a Highly Active Catalytic System Based on Cobalt Nanoparticles for Terminal and Internal Alkene Hydrosilylation. <i>Journal of Organic Chemistry</i> , 2020, 85, 11732-11740.	3.2	26
7	Silica-supported Z-selective Ru olefin metathesis catalysts. <i>Molecular Catalysis</i> , 2020, 483, 110743.	2.0	9
8	Metal-Metal Synergy in Well-Defined Surface Tantalum-Iridium Heterobimetallic Catalysts for H/D Exchange Reactions. <i>Journal of the American Chemical Society</i> , 2019, 141, 19321-19335.	13.7	33
9	Supported Ru olefin metathesis catalysts via a thiolate tether. <i>Dalton Transactions</i> , 2019, 48, 2886-2890.	3.3	5
10	Alkene hydrosilylation with supported and unsupported Ni nanoparticles: strong influence of the Ni environment on activity and selectivity. <i>Catalysis Science and Technology</i> , 2019, 9, 1555-1558.	4.1	17
11	Tailored Microstructured Hyperpolarizing Matrices for Optimal Magnetic Resonance Imaging. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 7453-7457.	13.8	24
12	Nanostructured equimolar ceria-praseodymia for NO <sub>x</sub> -assisted soot oxidation: Insight into Pr dominance over Pt nanoparticles and metal-support interaction. <i>Applied Catalysis B: Environmental</i> , 2018, 226, 147-161.	20.2	66
13	Early/Late Heterobimetallic Tantalum/Rhodium Species Assembled Through a Novel Bifunctional NHC-OH Ligand. <i>Chemistry - A European Journal</i> , 2018, 24, 4361-4370.	3.3	33
14	Tailored Microstructured Hyperpolarizing Matrices for Optimal Magnetic Resonance Imaging. <i>Angewandte Chemie</i> , 2018, 130, 7575-7579.	2.0	13
15	Pt nanoparticles immobilized in mesostructured silica: a non-leaching catalyst for 1-octene hydrosilylation. <i>Chemical Communications</i> , 2017, 53, 2962-2965.	4.1	33
16	Ceria-supported small Pt and Pt <sub>3</sub> Sn nanoparticles for NO <sub>x</sub> -assisted soot oxidation. <i>Applied Catalysis B: Environmental</i> , 2017, 209, 295-310.	20.2	67
17	Tailored Polarizing Hybrid Solids with Nitroxide Radicals Localized in Mesostructured Silica Walls. <i>Helvetica Chimica Acta</i> , 2017, 100, e1700101.	1.6	24
18	CuO nanoparticles supported by ceria for NO <sub>x</sub> -assisted soot oxidation: insight into catalytic activity and sintering. <i>Applied Catalysis B: Environmental</i> , 2017, 216, 41-58.	20.2	72

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19	Phenylazide Hybridâ€Silica â€ Polarization Platform for Dynamic Nuclear Polarization at Cryogenic Temperatures. <i>Helvetica Chimica Acta</i> , 2017, 100, e1600122.	1.6	6
20	Enhanced formation of >C1 Products in Electroreduction of CO <sub>2</sub> by Adding a CO <sub>2</sub> Adsorption Component to a Gasâ€Diffusion Layerâ€Type Catalytic Electrode. <i>ChemSusChem</i> , 2017, 10, 4442-4446.	6.8	50
21	A Solid Iridium Catalyst for Diastereoselective Hydrogenation. <i>Chemistry - A European Journal</i> , 2017, 23, 16171-16173.	3.3	1
22	Role of small Cu nanoparticles in the behaviour of nanocarbon-based electrodes for the electrocatalytic reduction of CO <sub>2</sub> . <i>Journal of CO<sub>2</sub> Utilization</i> , 2017, 21, 534-542.	6.8	49
23	Low-temperature and scalable CVD route to WS <sub>2</sub> monolayers on SiO <sub>2</sub> /Si substrates. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2017, 35, .	2.1	13
24	A novel 2-step ALD route to ultra-thin MoS <sub>2</sub> films on SiO <sub>2</sub> through a surface organometallic intermediate. <i>Nanoscale</i> , 2017, 9, 538-546.	5.6	55
25	Origin of the Improved Performance in Lanthanumâ€doped Silicaâ€supported Ni Catalysts. <i>ChemCatChem</i> , 2017, 9, 586-596.	3.7	15
26	Monolayer Doping of Silicon through Grafting a Tailored Molecular Phosphorus Precursor onto Oxide-Passivated Silicon Surfaces. <i>Chemistry of Materials</i> , 2016, 28, 3634-3640.	6.7	50
27	Hyperpolarization of Frozen Hydrocarbon Gases by Dynamic Nuclear Polarization at 1.2 K. <i>Journal of Physical Chemistry Letters</i> , 2016, 7, 3235-3239.	4.6	18
28	Active and Recyclable Polyethyleneâ€Supported Iridiumâ€(Nâ€Heterocyclic Carbene) Catalyst for Hydrogen/Deuterium Exchange Reactions. <i>Advanced Synthesis and Catalysis</i> , 2016, 358, 2317-2323.	4.3	10
29	Iridium(I)/Nâ€Heterocyclic Carbene Hybrid Materials: Surface Stabilization of Lowâ€Valent Iridium Species for High Catalytic Hydrogenation Performance. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 12937-12941.	13.8	33
30	CO PROX over Ptâ€Sn/Al <sub>2</sub> O <sub>3</sub> : A combined kinetic and in situ DRIFTS study. <i>Catalysis Today</i> , 2015, 258, 241-246.	4.4	41
31	Functionalization of Silica Nanoparticles and Native Silicon Oxide with Tailored Boron-Molecular Precursors for Efficient and Predictive <i>p</i>-Doping of Silicon. <i>Journal of Physical Chemistry C</i> , 2015, 119, 13750-13757.	3.1	25
32	Platinum nanoparticles in suspension are as efficient as Karstedt's complex for alkene hydrosilylation. <i>Chemical Communications</i> , 2015, 51, 16194-16196.	4.1	41
33	Facile preparation of small and narrowly distributed platinum nanoparticles in the absence of H <sub>2</sub> from Pt( <i>ii</i> ) and Pt(0) molecular precursors using trihydrogeno(octyl)silane. <i>New Journal of Chemistry</i> , 2014, 38, 5952-5956.	2.8	4
34	Hybrid polarizing solids for pure hyperpolarized liquids through dissolution dynamic nuclear polarization. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 14693-14697.	7.1	93
35	Direct evidence by in situ IR CO monitoring of the formation and the surface segregation of a Ptâ€Sn alloy. <i>Chemical Communications</i> , 2014, 50, 8590.	4.1	51
36	Preparation of Sn-doped 2â€3nm Ni nanoparticles supported on SiO <sub>2</sub> via surface organometallic chemistry for low temperature dry reforming catalyst: The effect of tin doping on activity, selectivity and stability. <i>Catalysis Today</i> , 2014, 235, 237-244.	4.4	20

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37	A Well-Defined Pd Hybrid Material for the Selective Semihydrogenation of Alkynes Characterized at the Molecular Level by DNP SENS. <i>Chemistry - A European Journal</i> , 2013, 19, 12234-12238.	3.3	61
38	Solid-Phase Polarization Matrixes for Dynamic Nuclear Polarization from Homogeneously Distributed Radicals in Mesostructured Hybrid Silica Materials. <i>Journal of the American Chemical Society</i> , 2013, 135, 15459-15466.	13.7	56
39	Particle size effect in the low temperature reforming of methane by carbon dioxide on silica-supported Ni nanoparticles. <i>Journal of Catalysis</i> , 2013, 297, 27-34.	6.2	224
40	From well-defined Pt(II) surface species to the controlled growth of silica supported Pt nanoparticles. <i>Dalton Transactions</i> , 2013, 42, 238-248.	3.3	41
41	Evidence for Metal-Surface Interactions and Their Role in Stabilizing Well-Defined Immobilized Ru-NHC Alkene Metathesis Catalysts. <i>Journal of the American Chemical Society</i> , 2013, 135, 3193-3199.	13.7	96
42	Nickel-Silicide Colloid Prepared under Mild Conditions as a Versatile Ni Precursor for More Efficient CO <sub>2</sub> Reforming of CH <sub>4</sub> Catalysts. <i>Journal of the American Chemical Society</i> , 2012, 134, 20624-20627.	13.7	84
43	A Slowly Relaxing Rigid Biradical for Efficient Dynamic Nuclear Polarization Surface-Enhanced NMR Spectroscopy: Expedient Characterization of Functional Group Manipulation in Hybrid Materials. <i>Journal of the American Chemical Society</i> , 2012, 134, 2284-2291.	13.7	182
44	Single-Phase Heterogeneous Pt <sub>3</sub> Sn Catalyst Synthesized by Room-Temperature Self-Assembly. <i>ChemCatChem</i> , 2012, 4, 1729-1732.	3.7	8
45	Heterolytic cleavage of ammonia N-H bond by bifunctional activation in silica-grafted single site Ta(V) imido amido surface complex. Importance of the outer sphere NH <sub>3</sub> assistance. <i>New Journal of Chemistry</i> , 2011, 35, 1011.	2.8	11
46	Fast Characterization of Functionalized Silica Materials by Silicon-29 Surface-Enhanced NMR Spectroscopy Using Dynamic Nuclear Polarization. <i>Journal of the American Chemical Society</i> , 2011, 133, 2104-2107.	13.7	254
47	A highly ordered mesostructured material containing regularly distributed phenols: preparation and characterization at a molecular level through ultra-fast magic angle spinning proton NMR spectroscopy. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 4230.	2.8	13
48	Domination of Local Environment Over Pore Confinement Effects on the Catalytic Performances of Single-Site Cp*Ir(III)-NHC Heterogeneous vs. Homogeneous H/D Exchange Catalysts. <i>European Journal of Inorganic Chemistry</i> , 2010, 2010, 5005-5010.	2.0	19
49	Highly efficient aerobic oxidation of alkenes over unsupported nanogold. <i>Chemical Communications</i> , 2010, 46, 5361.	4.1	36
50	Unexpected, spontaneous and selective formation of colloidal Pt <sub>3</sub> Sn nanoparticles using organometallic Pt and Sn complexes. <i>Chemical Communications</i> , 2010, 46, 4722.	4.1	22
51	Tailored Ru-NHC Heterogeneous Catalysts for Alkene Metathesis. <i>Chemistry - A European Journal</i> , 2009, 15, 11820-11823.	3.3	70
52	H/D Exchange on Silica-Grafted Tantalum(V) Imido Amido [( $\eta^5$ -SiO) <sub>2</sub> Ta(V)(NH)(NH <sub>2</sub> )] Synthesized from Either Ammonia or Dinitrogen: IR and DFT Evidence for Heterolytic Splitting of D <sub>2</sub> . <i>Topics in Catalysis</i> , 2009, 52, 1482-1491.	2.8	14
53	Regularly Distributed and Fully Accessible Pt Nanoparticles in Silica Pore Channels via the Controlled Growth of a Mesostructured Matrix around Pt Colloids. <i>Chemistry of Materials</i> , 2009, 21, 775-777.	6.7	30
54	A Tailored Organometallic-Inorganic Hybrid Mesostructured Material: A Route to a Well-Defined, Active, and Reusable Heterogeneous Iridium-NHC Catalyst for H/D Exchange. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 8654-8656.	13.8	75

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55	Well-Defined Surface Imido Amido Tantalum(V) Species from Ammonia and Silica-Supported Tantalum Hydrides. <i>Journal of the American Chemical Society</i> , 2007, 129, 176-186.	13.7	79
56	Homologation of Propane Catalyzed by Oxide-Supported Zirconium Dihydride and Dialkyl Complexes. <i>Angewandte Chemie - International Edition</i> , 2007, 46, 2288-2290.	13.8	45
57	Molecular Understanding of the Formation of Surface Zirconium Hydrides upon Thermal Treatment under Hydrogen of $[(\text{SiO})\text{Zr}(\text{CH}_2\text{tBu})_3]$ by Using Advanced Solid-State NMR Techniques. <i>Journal of the American Chemical Society</i> , 2004, 126, 12541-12550.	13.7	127
58	Preparation and characterization of zirconium containing mesoporous silicas. II. Grafting reaction of tetra-n-pentyl zirconium on MCM-41 and characterization of the grafted species and of the resulting materials. <i>Microporous and Mesoporous Materials</i> , 2003, 66, 169-179.	4.4	26
59	The low temperature synthesis of very small and non-crystalline iron-based nanoparticles: application in alkene hydrosilylation.. <i>European Journal of Inorganic Chemistry</i> , 0, , .	2.0	1