

# Antonio Leyva-PÃ©rez

## List of Publications by Year in descending order

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109  
papers

7,482  
citations

50276

46  
h-index

54911

84  
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128  
all docs

128  
docs citations

128  
times ranked

7797  
citing authors

#	ARTICLE	IF	CITATIONS
1	Parts-Per-Million of Soluble Pd <sup>0</sup> Catalyze the Semi-Hydrogenation Reaction of Alkynes to Alkenes. <i>Journal of Organic Chemistry</i> , 2023, 88, 18-26.	3.2	12
2	Mixed component metal-organic frameworks: Heterogeneity and complexity at the service of application performances. <i>Coordination Chemistry Reviews</i> , 2022, 451, 214273.	18.8	70
3	MOF-Stabilized Perfluorinated Palladium Cages Catalyze the Additive-Free Aerobic Oxidation of Aliphatic Alcohols to Acids. <i>Chemistry - A European Journal</i> , 2022, 28, .	3.3	6
4	Epoxidation vs. dehydrogenation of allylic alcohols: Heterogenization of the VO(acac) <sub>2</sub> catalyst in a metal-organic framework. <i>Chemical Communications</i> , 2022, , .	4.1	2
5	Selective semi-hydrogenation of internal alkynes catalyzed by Pd-CaCO <sub>3</sub> clusters. <i>Journal of Catalysis</i> , 2022, 408, 43-55.	6.2	29
6	Click amidations, esterifications and one-pot reactions catalyzed by Cu salts and multimetal-organic frameworks (MOFs). <i>Molecular Catalysis</i> , 2022, 522, 112228.	2.0	0
7	Parts-per-million of ruthenium catalyze the selective chain-walking reaction of terminal alkenes. <i>Nature Communications</i> , 2022, 13, .	12.8	8
8	A Career in Catalysis: Avelino Corma. <i>ACS Catalysis</i> , 2022, 12, 7054-7123.	11.2	14
9	Solid-catalyzed esterification reaction of long-chain acids and alcohols in fixed-bed reactors at pilot plant scale. <i>Chemical Engineering and Processing: Process Intensification</i> , 2022, 178, 109038.	3.6	2
10	Crystallographic Visualization of a Double Water Molecule Addition on a Pt 1 MOF during the Low-temperature Water-Gas Shift Reaction. <i>ChemCatChem</i> , 2021, 13, 1195-1200.	3.7	7
11	Soluble/MOF-Supported Palladium Single Atoms Catalyze the Ligand-, Additive-, and Solvent-Free Aerobic Oxidation of Benzyl Alcohols to Benzoic Acids. <i>Journal of the American Chemical Society</i> , 2021, 143, 2581-2592.	13.7	74
12	Radical $\alpha$ -alkylation of ketones with unactivated alkenes under catalytic and sustainable industrial conditions. <i>Applied Catalysis A: General</i> , 2021, 613, 118021.	4.3	9
13	Regioirregular and catalytic Mizoroki-Heck reactions. <i>Nature Catalysis</i> , 2021, 4, 293-303.	34.4	42
14	Acid Catalysis with Alkane/Water Microdroplets in Ionic Liquids. <i>Jacs Au</i> , 2021, 1, 786-794.	7.9	12
15	Nanotitania catalyzes the chemoselective hydration and alkoxylation of epoxides. <i>Molecular Catalysis</i> , 2021, 515, 111927.	2.0	5
16	Zeolites catalyze selective reactions of large organic molecules. <i>Advances in Catalysis</i> , 2021, 69, 59-102.	0.2	0
17	Intermolecular Carbonyl-olefin Metathesis with Vinyl Ethers Catalyzed by Homogeneous and Solid Acids in Flow. <i>Angewandte Chemie</i> , 2020, 132, 3874-3877.	2.0	7
18	Intermolecular Carbonyl-olefin Metathesis with Vinyl Ethers Catalyzed by Homogeneous and Solid Acids in Flow. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 3846-3849.	13.8	30

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19	Nanoceria as a recyclable catalyst/support for the cyanosilylation of ketones and alcohol oxidation in cascade. <i>Journal of Catalysis</i> , 2020, 392, 21-28.	6.2	9
20	Cyclic metal(oid) clusters control platinum-catalysed hydrosilylation reactions: from soluble to zeolite and MOF catalysts. <i>Chemical Science</i> , 2020, 11, 8113-8124.	7.4	20
21	Zeolites Catalyze the Nazarov Reaction and the tert-Butylation of Alcohols by Stabilization of Carboxonium Intermediates. <i>Synthesis</i> , 2020, 52, 2031-2037.	2.3	3
22	Hydrolase-like catalysis and structural resolution of natural products by a metal-organic framework. <i>Nature Communications</i> , 2020, 11, 3080.	12.8	33
23	Few-layer Black Phosphorous Catalyzes Radical Additions to Alkenes Faster than Low-valence Metals. <i>ChemCatChem</i> , 2020, 12, 2226-2232.	3.7	14
24	Metal-Organic Frameworks as Chemical Nanoreactors: Synthesis and Stabilization of Catalytically Active Metal Species in Confined Spaces. <i>Accounts of Chemical Research</i> , 2020, 53, 520-531.	15.6	81
25	Ligand-Free Sub-Nanometer Metal Clusters in Catalysis. <i>Molecular Catalysis</i> , 2020, , 1-37.	1.3	0
26	Gitter-Öffnung durch reduktive kovalente Volumen-Funktionalisierung von schwarzem Phosphor. <i>Angewandte Chemie</i> , 2019, 131, 5820-5826.	2.0	12
27	Lattice Opening upon Bulk Reductive Covalent Functionalization of Black Phosphorus. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 5763-5768.	13.8	60
28	Self-Assembly of Catalytically Active Supramolecular Coordination Compounds within Metal-Organic Frameworks. <i>Journal of the American Chemical Society</i> , 2019, 141, 10350-10360.	13.7	50
29	Few layer 2D pnictogens catalyze the alkylation of soft nucleophiles with esters. <i>Nature Communications</i> , 2019, 10, 509.	12.8	61
30	Base-Controlled Heck, Suzuki, and Sonogashira Reactions Catalyzed by Ligand-Free Platinum or Palladium Single Atom and Sub-Nanometer Clusters. <i>Journal of the American Chemical Society</i> , 2019, 141, 1928-1940.	13.7	107
31	Generation and Reactivity of Electron-Rich Carbenes on the Surface of Catalytic Gold Nanoparticles. <i>Journal of the American Chemical Society</i> , 2018, 140, 3215-3218.	13.7	39
32	Synthesis of Densely Packaged, Ultrasmall Pt <sup>0</sup> <sub>2</sub> Clusters within a Thioether-Functionalized MOF: Catalytic Activity in Industrial Reactions at Low Temperature. <i>Angewandte Chemie</i> , 2018, 130, 6294-6299.	2.0	22
33	Synthesis of Densely Packaged, Ultrasmall Pt <sup>0</sup> <sub>2</sub> Clusters within a Thioether-Functionalized MOF: Catalytic Activity in Industrial Reactions at Low Temperature. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 6186-6191.	13.8	115
34	Confined Pt <sub>1</sub> <sup>1+</sup> Water Clusters in a MOF Catalyze the Low-Temperature Water-Gas Shift Reaction with both CO <sub>2</sub> Oxygen Atoms Coming from Water. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 17094-17099.	13.8	54
35	Confined Pt <sub>1</sub> <sup>1+</sup> Water Clusters in a MOF Catalyze the Low-Temperature Water-Gas Shift Reaction with both CO <sub>2</sub> Oxygen Atoms Coming from Water. <i>Angewandte Chemie</i> , 2018, 130, 17340-17345.	2.0	4
36	Stabilized Ru[(H <sub>2</sub> O) <sub>6</sub> ] <sup>3+</sup> in Confined Spaces (MOFs and Zeolites) Catalyzes the Imination of Primary Alcohols under Atmospheric Conditions with Wide Scope. <i>ACS Catalysis</i> , 2018, 8, 10401-10406.	11.2	31

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37	Isolated Fe(III)â€‘O Sites Catalyze the Hydrogenation of Acetylene in Ethylene Flows under Front-End Industrial Conditions. <i>Journal of the American Chemical Society</i> , 2018, 140, 8827-8832.	13.7	74
38	Partial Reduction and Selective Transfer of Hydrogen Chloride on Catalytic Gold Nanoparticles. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 6435-6439.	13.8	58
39	Synthesis of Supported Planar Iron Oxide Nanoparticles and Their Chemo- and Stereoselectivity for Hydrogenation of Alkynes. <i>ACS Catalysis</i> , 2017, 7, 3721-3729.	11.2	63
40	Partial Reduction and Selective Transfer of Hydrogen Chloride on Catalytic Gold Nanoparticles. <i>Angewandte Chemie</i> , 2017, 129, 6535-6539.	2.0	10
41	A Ligandâ€‘Free Pt<sub>3</sub> Cluster Catalyzes the Markovnikov Hydrosilylation of Alkynes with up to 10<sup>6</sup> Turnover Frequencies. <i>Chemistry - A European Journal</i> , 2017, 23, 1702-1708.	3.3	45
42	The MOF-driven synthesis of supported palladium clusters with catalytic activity for carbene-mediated chemistry. <i>Nature Materials</i> , 2017, 16, 760-766.	27.5	230
43	Disassembling Metal Nanocrystallites into Subâ€‘nanometric Clusters and Lowâ€‘faceted Nanoparticles for Multisite Catalytic Reactions. <i>ChemCatChem</i> , 2017, 9, 1429-1435.	3.7	8
44	The wet synthesis and quantification of ligand-free sub-nanometric Au clusters in solid matrices. <i>Chemical Communications</i> , 2017, 53, 1116-1119.	4.1	13
45	Sub-nanometre metal clusters for catalytic carbonâ€‘carbon and carbonâ€‘heteroatom cross-coupling reactions. <i>Dalton Transactions</i> , 2017, 46, 15987-15990.	3.3	15
46	Bimetallic nanosized solids with acid and redox properties for catalytic activation of Câ€‘C and Câ€‘H bonds. <i>Chemical Science</i> , 2017, 8, 689-696.	7.4	18
47	Selective Gold Recovery and Catalysis in a Highly Flexible Methionine-Decorated Metalâ€‘Organic Framework. <i>Journal of the American Chemical Society</i> , 2016, 138, 7864-7867.	13.7	196
48	Facile Synthesis of Surface-Clean Monodispersed CuOx Nanoparticles and Their Catalytic Properties for Oxidative Coupling of Alkynes. <i>ACS Catalysis</i> , 2016, 6, 2211-2221.	11.2	38
49	Stabilized Naked Sub-nanometric Cu Clusters within a Polymeric Film Catalyze Câ€‘N, Câ€‘C, Câ€‘O, Câ€‘S, and Câ€‘P Bond-Forming Reactions. <i>Journal of the American Chemical Society</i> , 2015, 137, 3894-3900.	13.7	71
50	Beyond Acid Strength in Zeolites: Soft Framework Counteranions for Stabilization of Carbocations on Zeolites and Its Implication in Organic Synthesis. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 5658-5661.	13.8	39
51	Unique distal size selectivity with a digold catalyst during alkyne homocoupling. <i>Nature Communications</i> , 2015, 6, 6703.	12.8	51
52	Well-Defined Noble Metal Single Sites in Zeolites as an Alternative to Catalysis by Insoluble Metal Salts. <i>Journal of the American Chemical Society</i> , 2015, 137, 11832-11837.	13.7	66
53	Partially oxidized gold nanoparticles: A catalytic base-free system for the aerobic homocoupling of alkynes. <i>Journal of Catalysis</i> , 2014, 315, 6-14.	6.2	30
54	One pot synthesis of cyclohexanone oxime from nitrobenzene using a bifunctional catalyst. <i>Chemical Communications</i> , 2014, 50, 1645-1647.	4.1	21

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55	Synthesis of the <i>ortho</i> / <i>meta</i> / <i>para</i> Isomers of Relevant Pharmaceutical Compounds by Coupling a Sonogashira Reaction with a Regioselective Hydration. <i>ACS Catalysis</i> , 2014, 4, 722-731.	11.2	30
56	Multisite Organic-Inorganic Hybrid Catalysts for the Direct Sustainable Synthesis of GABAergic Drugs. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 8687-8690.	13.8	43
57	Theoretical and Experimental Insights into the Origin of the Catalytic Activity of Subnanometric Gold Clusters: Attempts to Predict Reactivity with Clusters and Nanoparticles of Gold. <i>Accounts of Chemical Research</i> , 2014, 47, 834-844.	15.6	210
58	Formation and stability of 3-5 atom gold clusters from gold complexes during the catalytic reaction: dependence on ligands and counteranions. <i>Chemical Communications</i> , 2013, 49, 7782.	4.1	29
59	Reactivity of Electron-Deficient Alkynes on Gold Nanoparticles. <i>ACS Catalysis</i> , 2013, 3, 1865-1873.	11.2	42
60	Very Small (3-6 Atoms) Gold Cluster Catalyzed Carbon-Carbon and Carbon-Heteroatom Bond-Forming Reactions in Solution. <i>ChemCatChem</i> , 2013, 5, 3509-3515.	3.7	43
61	A bifunctional palladium/acid solid catalyst performs the direct synthesis of cyclohexylanilines and dicyclohexylamines from nitrobenzenes. <i>Chemical Communications</i> , 2013, 49, 8160.	4.1	27
62	Water-Stabilized Three- and Four-Atom Palladium Clusters as Highly Active Catalytic Species in Ligand-Free C-C Cross-Coupling Reactions. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 11554-11559.	13.8	123
63	MOFs as Multifunctional Catalysts: Synthesis of Secondary Arylamines, Quinolines, Pyrroles, and Arylpyrrolidines over Bifunctional MIL-101. <i>ChemCatChem</i> , 2013, 5, 538-549.	3.7	117
64	Oxyhalogenation of Activated Arenes with Nanocrystalline Ceria. <i>ACS Catalysis</i> , 2013, 3, 250-258.	11.2	32
65	Iron(III) Triflimide as a Catalytic Substitute for Gold(I) in Hydroaddition Reactions to Unsaturated Carbon-Carbon Bonds. <i>Chemistry - A European Journal</i> , 2013, 19, 8627-8633.	3.3	34
66	Small Gold Clusters Formed in Solution Give Reaction Turnover Numbers of $10^7$ at Room Temperature. <i>Science</i> , 2012, 338, 1452-1455.	12.6	383
67	Gold Redox Catalytic Cycles for the Oxidative Coupling of Alkynes. <i>ACS Catalysis</i> , 2012, 2, 121-126.	11.2	82
68	Iron-Catalysed Markovnikov Hydrothiolation of Styrenes. <i>Advanced Synthesis and Catalysis</i> , 2012, 354, 678-687.	4.3	65
69	Regioselective Hydration of Alkynes by Iron(III) Lewis/Brønsted Catalysis. <i>Chemistry - A European Journal</i> , 2012, 18, 11107-11114.	3.3	80
70	Electrochemical monitoring of the oxidative coupling of alkynes catalyzed by triphenylphosphine gold complexes. <i>Electrochemistry Communications</i> , 2012, 19, 145-148.	4.7	11
71	Nickel phosphide nanocatalysts for the chemoselective hydrogenation of alkynes. <i>Nano Today</i> , 2012, 7, 21-28.	11.9	120
72	Similarities and Differences between the Relativistic Triad Gold, Platinum, and Mercury in Catalysis. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 614-635.	13.8	184

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73	Cationic Gold Catalyzes $\gamma$ -Bromination of Terminal Alkynes and Subsequent Hydroaddition Reactions. ACS Catalysis, 2011, 1, 601-606.	11.2	34
74	Gold-Catalyzed Carbon-Heteroatom Bond-Forming Reactions. Chemical Reviews, 2011, 111, 1657-1712.	47.7	1,222
75	Synthesis of Organic-Inorganic Hybrid Solids with Copper Complex Framework and Their Catalytic Activity for the S-Arylation and the Azide-Alkyne Cycloaddition Reactions. ACS Catalysis, 2011, 1, 147-158.	11.2	37
76	Total Synthesis of Iso- and Bongkrekic Acids: Natural Antibiotics Displaying Potent Antiapoptotic Properties. Chemistry - A European Journal, 2011, 17, 329-343.	3.3	29
77	Copper(I)-catalyzed hydrophosphination of styrenes. Journal of Organometallic Chemistry, 2011, 696, 362-367.	1.8	41
78	Bifunctional solid catalysts for chemoselective hydrogenation-cyclisation-amination cascade reactions of relevance for the synthesis of pharmaceuticals. Tetrahedron, 2010, 66, 8203-8209.	1.9	33
79	Regio- and Stereoselective Intermolecular Hydroalkoxylation of Alkynes Catalysed by Cationic Gold(I) Complexes. Advanced Synthesis and Catalysis, 2010, 352, 1701-1710.	4.3	67
80	Gold(I) Catalyzes the Intermolecular Hydroamination of Alkynes with Imines and Produces $\beta$ -N-Triarylbis enamines: Studies on Their Use As Intermediates in Synthesis. Journal of Organic Chemistry, 2010, 75, 7769-7780.	3.2	48
81	Iron-Catalysed Regio- and Stereoselective Head-to-Tail Dimerisation of Styrenes. Advanced Synthesis and Catalysis, 2010, 352, 1571-1576.	4.3	46
82	Gold catalysts and solid catalysts for biomass transformations: Valorization of glycerol and glycerol-water mixtures through formation of cyclic acetals. Journal of Catalysis, 2010, 271, 351-357.	6.2	81
83	Total Synthesis of the Anti-Apoptotic Agents Iso- and Bongkrekic Acids. Organic Letters, 2010, 12, 340-343.	4.6	90
84	Reusable Gold(I) Catalysts with Unique Regioselectivity for Intermolecular Hydroamination of Alkynes. Advanced Synthesis and Catalysis, 2009, 351, 2876-2886.	4.3	61
85	Isolable Gold(I) Complexes Having One Low-Coordinating Ligand as Catalysts for the Selective Hydration of Substituted Alkynes at Room Temperature without Acidic Promoters. Journal of Organic Chemistry, 2009, 74, 2067-2074.	3.2	215
86	Chemoselective hydroboration of alkynes vs. alkenes over gold catalysts. Chemical Communications, 2009, , 4947.	4.1	48
87	Functionalised butanediactal-protected 1,2-diols as suitable partners for Pd-catalysed cross-coupling reactions. Tetrahedron, 2008, 64, 2348-2358.	1.9	10
88	A new synthesis of ( $\beta$ )-epipyriculol: a phytotoxic metabolite. Tetrahedron, 2008, 64, 4711-4717.	1.9	13
89	A soluble polyethyleneglycol-anchored phosphine as a highly active, reusable ligand for Pd-catalyzed couplings of aryl chlorides: comparison with cross and non-cross-linked polystyrene and silica supports. Tetrahedron, 2007, 63, 7097-7111.	1.9	55
90	Electrochemiluminescence of a Periodic Mesoporous Organosilica Containing 9,10-Diarylanthracene Units. Journal of Physical Chemistry C, 2007, 111, 7532-7538.	3.1	26

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91	Polyethyleneglycol as scaffold and solvent for reusable CC coupling homogeneous Pd catalysts. <i>Journal of Catalysis</i> , 2006, 240, 87-99.	6.2	119
92	Palladium catalyzed cycloisomerization of 2,2-diallylmalonates in imidazolium ionic liquids. <i>Journal of Organometallic Chemistry</i> , 2005, 690, 3529-3534.	1.8	14
93	Catalytic activity of palladium supported on single wall carbon nanotubes compared to palladium supported on activated carbon. <i>Journal of Molecular Catalysis A</i> , 2005, 230, 97-105.	4.8	192
94	Ship-in-a-bottle synthesis of triphenylamine inside faujasite supercages and generation of the triphenylamminium radical ion. <i>Tetrahedron</i> , 2005, 61, 791-796.	1.9	14
95	Comparison between polyethyleneglycol and imidazolium ionic liquids as solvents for developing a homogeneous and reusable palladium catalytic system for the Suzuki and Sonogashira coupling. <i>Tetrahedron</i> , 2005, 61, 9848-9854.	1.9	101
96	A periodic mesoporous organosilica containing a carbapalladacycle complex as heterogeneous catalyst for Suzuki cross-coupling. <i>Journal of Catalysis</i> , 2005, 229, 322-331.	6.2	168
97	A fluoride-catalyzed sol-gel route to catalytically active non-ordered mesoporous silica materials in the absence of surfactants. <i>Journal of Materials Chemistry</i> , 2005, 15, 1742.	6.7	39
98	Assessment of the suitability of imidazolium ionic liquids as reaction medium for base-catalysed reactions Case of Knoevenagel and Claisen-Schmidt reactions. <i>Journal of Molecular Catalysis A</i> , 2004, 214, 137-142.	4.8	80
99	Alkali-exchanged sepiolites containing palladium as bifunctional (basic sites and noble metal) catalysts for the Heck and Suzuki reactions. <i>Applied Catalysis A: General</i> , 2004, 257, 77-83.	4.3	83
100	Supercritical CO <sub>2</sub> as a superior solvent for the cyclization of diallylmalonate catalyzed by palladium-containing zeolites. <i>Tetrahedron</i> , 2004, 60, 8131-8135.	1.9	7
101	An imidazolium ionic liquid having covalently attached an oxime carbapalladacycle complex as ionophilic heterogeneous catalysts for the Heck and Suzuki-Miyaura cross-coupling. <i>Tetrahedron</i> , 2004, 60, 8553-8560.	1.9	94
102	Controlling the softness/hardness of Pd by strong metal/zeolite interaction: cyclisation of diallylmalonate as a test reaction. <i>Journal of Catalysis</i> , 2004, 225, 350-358.	6.2	14
103	Preparation and photochemical properties of p-phenylene oligomers encapsulated within faujasite Y. <i>Physical Chemistry Chemical Physics</i> , 2004, 6, 201-204.	2.8	6
104	Oxime Carbapalladacycle Covalently Anchored to High Surface Area Inorganic Supports or Polymers as Heterogeneous Green Catalysts for the Suzuki Reaction in Water. <i>Journal of Organic Chemistry</i> , 2004, 69, 439-446.	3.2	203
105	Basic zeolites containing palladium as bifunctional heterogeneous catalysts for the Heck reaction. <i>Applied Catalysis A: General</i> , 2003, 247, 41-49.	4.3	83
106	An oxime-carbapalladacycle complex covalently anchored to silica as an active and reusable heterogeneous catalyst for Suzuki cross-coupling in water. <i>Chemical Communications</i> , 2003, , 606-607.	4.1	143
107	Heterogeneous Baylis-Hillman using a polystyrene-bound 4-(N-benzyl-N-methylamino)pyridine as reusable catalyst. <i>Chemical Communications</i> , 2003, , 2806-2807.	4.1	42
108	Bifunctional palladium-basic zeolites as catalyst for Suzuki reaction. <i>Applied Catalysis A: General</i> , 2002, 236, 179-185.	4.3	88

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109	Ligand-free subnanometre gold metal clusters and their applications. <i>Catalysis</i> , 0, , 21-40.	1.0	2