Antonio Leyva-Prez

List of Publications by Year in Descending Order

106 papers	6,148 citations	42 h-index	77 g-index
128 ext. papers	6,846 ext. citations	9.5 avg, IF	6.12 L-index

#	Paper	IF	Citations
106	Mixed component metal-organic frameworks: Heterogeneity and complexity at the service of application performances. *Coordination Chemistry Reviews*, **2022**, 451, 214273	23.2	10
105	Selective semi-hydrogenation of internal alkynes catalyzed by Pd□CaCO3 clusters. *Journal of Catalysis*, **2022**, 408, 43-55	7.3	3
104	Click amidations, esterifications and one□pot reactions catalyzed by Cu salts and multimetal□organic frameworks (M□MOFs). *Molecular Catalysis*, **2022**, 522, 112228	3.3	
103	Zeolites catalyze selective reactions of large organic molecules. *Advances in Catalysis*, **2021**, 69, 59-102	2.4	
102	Nanotitania catalyzes the chemoselective hydration and alkoxylation of epoxides. *Molecular Catalysis*, **2021**, 515, 111927	3.3	0
101	Radical □lkylation of ketones with unactivated alkenes under catalytic and sustainable industrial conditions. *Applied Catalysis A: General*, **2021**, 613, 118021	5.1	1
100	Regioirregular and catalytic Mizoroki□Heck reactions. *Nature Catalysis*, **2021**, 4, 293-303	36.5	11
99	Acid Catalysis with Alkane/Water Microdroplets in Ionic Liquids. *Jacs Au*, **2021**, 1, 786-794		4
98	Crystallographic Visualization of a Double Water Molecule Addition on a Pt1-MOF during the Low-temperature Water-Gas Shift Reaction. *ChemCatChem*, **2021**, 13, 1195-1200	5.2	1
97	Soluble/MOF-Supported Palladium Single Atoms Catalyze the Ligand-, Additive-, and Solvent-Free Aerobic Oxidation of Benzyl Alcohols to Benzoic Acids. *Journal of the American Chemical Society*, **2021**, 143, 2581-2592	16.4	22
96	Zeolites Catalyze the Nazarov Reaction and the tert-Butylation of Alcohols by Stabilization of Carboxonium Intermediates. *Synthesis*, **2020**, 52, 2031-2037	2.9	2
95	Hydrolase-like catalysis and structural resolution of natural products by a metal-organic framework. *Nature Communications*, **2020**, 11, 3080	17.4	16
94	Few-layer Black Phosphorous Catalyzes Radical Additions to Alkenes Faster than Low-valence Metals. *ChemCatChem*, **2020**, 12, 2226-2232	5.2	6
93	Metal-Organic Frameworks as Chemical Nanoreactors: Synthesis and Stabilization of Catalytically Active Metal Species in Confined Spaces. *Accounts of Chemical Research*, **2020**, 53, 520-531	24.3	45
92	Ligand-Free Sub-Nanometer Metal Clusters in Catalysis. *Molecular Catalysis*, **2020**, 1-37	0.3	
91	Nanoceria as a recyclable catalyst/support for the cyanosilylation of ketones and alcohol oxidation in cascade. *Journal of Catalysis*, **2020**, 392, 21-28	7.3	5
90	Cyclic metal(oid) clusters control platinum-catalysed hydrosilylation reactions: from soluble to zeolite and MOF catalysts. *Chemical Science*, **2020**, 11, 8113-8124	9.4	10

89	Intermolecular Carbonyl–Olefin Metathesis with Vinyl Ethers Catalyzed by Homogeneous and Solid Acids in Flow. *Angewandte Chemie*, **2020**, 132, 3874-3877	3.6	2
88	Intermolecular Carbonyl-olefin Metathesis with Vinyl Ethers Catalyzed by Homogeneous and Solid Acids in Flow. *Angewandte Chemie - International Edition*, **2020**, 59, 3846-3849	16.4	17
87	Gitteröffnung durch reduktive kovalente Volumen-Funktionalisierung von schwarzem Phosphor. *Angewandte Chemie*, **2019**, 131, 5820-5826	3.6	10
86	Lattice Opening upon Bulk Reductive Covalent Functionalization of Black Phosphorus. *Angewandte Chemie - International Edition*, **2019**, 58, 5763-5768	16.4	42
85	Self-Assembly of Catalytically Active Supramolecular Coordination Compounds within Metal-Organic Frameworks. *Journal of the American Chemical Society*, **2019**, 141, 10350-10360	16.4	25
84	Few layer 2D pnictogens catalyze the alkylation of soft nucleophiles with esters. *Nature Communications*, **2019**, 10, 509	17.4	45
83	Base-Controlled Heck, Suzuki, and Sonogashira Reactions Catalyzed by Ligand-Free Platinum or Palladium Single Atom and Sub-Nanometer Clusters. *Journal of the American Chemical Society*, **2019**, 141, 1928-1940	16.4	65
82	Generation and Reactivity of Electron-Rich Carbenes on the Surface of Catalytic Gold Nanoparticles. *Journal of the American Chemical Society*, **2018**, 140, 3215-3218	16.4	29
81	Synthesis of Densely Packaged, Ultrasmall Pt02 Clusters within a Thioether-Functionalized MOF: Catalytic Activity in Industrial Reactions at Low Temperature. *Angewandte Chemie*, **2018**, 130, 6294-6299	3.6	12
80	Synthesis of Densely Packaged, Ultrasmall Pt Clusters within a Thioether-Functionalized MOF: Catalytic Activity in Industrial Reactions at Low Temperature. *Angewandte Chemie - International Edition*, **2018**, 57, 6186-6191	16.4	89
79	Confined Pt Water Clusters in a MOF Catalyze the Low-Temperature Water-Gas Shift Reaction with both CO Oxygen Atoms Coming from Water. *Angewandte Chemie - International Edition*, **2018**, 57, 17094-17099	16.4	35
78	Confined Pt11+ Water Clusters in a MOF Catalyze the Low-Temperature Water–Gas Shift Reaction with both CO2 Oxygen Atoms Coming from Water. *Angewandte Chemie*, **2018**, 130, 17340-17345	3.6	4
77	Stabilized Ru[(H2O)6]3+ in Confined Spaces (MOFs and Zeolites) Catalyzes the Imination of Primary Alcohols under Atmospheric Conditions with Wide Scope. *ACS Catalysis*, **2018**, 8, 10401-10406	13.1	19
76	Isolated Fe(III)-O Sites Catalyze the Hydrogenation of Acetylene in Ethylene Flows under Front-End Industrial Conditions. *Journal of the American Chemical Society*, **2018**, 140, 8827-8832	16.4	50
75	Partial Reduction and Selective Transfer of Hydrogen Chloride on Catalytic Gold Nanoparticles. *Angewandte Chemie - International Edition*, **2017**, 56, 6435-6439	16.4	45
74	Synthesis of Supported Planar Iron Oxide Nanoparticles and Their Chemo- and Stereoselectivity for Hydrogenation of Alkynes. *ACS Catalysis*, **2017**, 7, 3721-3729	13.1	42
73	Partial Reduction and Selective Transfer of Hydrogen Chloride on Catalytic Gold Nanoparticles. *Angewandte Chemie*, **2017**, 129, 6535-6539	3.6	8
72	A Ligand-Free Pt Cluster Catalyzes the Markovnikov Hydrosilylation of Alkynes with up to 10 Turnover Frequencies. *Chemistry - A European Journal*, **2017**, 23, 1702-1708	4.8	33

71	The MOF-driven synthesis of supported palladium clusters with catalytic activity for carbene-mediated chemistry. *Nature Materials*, **2017**, 16, 760-766	27	180
70	Disassembling Metal Nanocrystallites into Sub-nanometric Clusters and Low-faceted Nanoparticles for Multisite Catalytic Reactions. *ChemCatChem*, **2017**, 9, 1429-1435	5.2	7
69	The wet synthesis and quantification of ligand-free sub-nanometric Au clusters in solid matrices. *Chemical Communications*, **2017**, 53, 1116-1119	5.8	9
68	Sub-nanometre metal clusters for catalytic carbon-carbon and carbon-heteroatom cross-coupling reactions. *Dalton Transactions*, **2017**, 46, 15987-15990	4.3	13
67	Bimetallic nanosized solids with acid and redox properties for catalytic activation of C-C and C-H bonds. *Chemical Science*, **2017**, 8, 689-696	9.4	12
66	Selective Gold Recovery and Catalysis in a Highly Flexible Methionine-Decorated Metal-Organic Framework. *Journal of the American Chemical Society*, **2016**, 138, 7864-7	16.4	136
65	Facile Synthesis of Surface-Clean Monodispersed CuOx Nanoparticles and Their Catalytic Properties for Oxidative Coupling of Alkynes. *ACS Catalysis*, **2016**, 6, 2211-2221	13.1	32
64	Stabilized naked sub-nanometric Cu clusters within a polymeric film catalyze C-N, C-C, C-O, C-S, and C-P bond-forming reactions. *Journal of the American Chemical Society*, **2015**, 137, 3894-900	16.4	51
63	Beyond acid strength in zeolites: soft framework counteranions for stabilization of carbocations on zeolites and its implication in organic synthesis. *Angewandte Chemie - International Edition*, **2015**, 54, 5658-61	16.4	29
62	Beyond Acid Strength in Zeolites: Soft Framework Counteranions for Stabilization of Carbocations on Zeolites and Its Implication in Organic Synthesis. *Angewandte Chemie*, **2015**, 127, 5750-5753	3.6	12
61	Unique distal size selectivity with a digold catalyst during alkyne homocoupling. *Nature Communications*, **2015**, 6, 6703	17.4	41
60	Well-Defined Noble Metal Single Sites in Zeolites as an Alternative to Catalysis by Insoluble Metal Salts. *Journal of the American Chemical Society*, **2015**, 137, 11832-7	16.4	54
59	Partially oxidized gold nanoparticles: A catalytic base-free system for the aerobic homocoupling of alkynes. *Journal of Catalysis*, **2014**, 315, 6-14	7.3	27
58	One pot synthesis of cyclohexanone oxime from nitrobenzene using a bifunctional catalyst. *Chemical Communications*, **2014**, 50, 1645-7	5.8	14
57	Synthesis of theortho/meta/paraIsomers of Relevant Pharmaceutical Compounds by Coupling a Sonogashira Reaction with a Regioselective Hydration. *ACS Catalysis*, **2014**, 4, 722-731	13.1	23
56	Multisite organic-inorganic hybrid catalysts for the direct sustainable synthesis of GABAergic drugs. *Angewandte Chemie - International Edition*, **2014**, 53, 8687-90	16.4	34
55	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. *Accounts of Chemical Research*, **2014**, 47, 834-44	24.3	167
54	Formation and stability of 3-5 atom gold clusters from gold complexes during the catalytic reaction: dependence on ligands and counteranions. *Chemical Communications*, **2013**, 49, 7782-4	5.8	26

53	Reactivity of Electron-Deficient Alkynes on Gold Nanoparticles. *ACS Catalysis*, **2013**, 3, 1865-1873	13.1	34
52	Very Small (3 Atoms) Gold Cluster Catalyzed Carbon Carbon and Carbon Heteroatom Bond-Forming Reactions in Solution. *ChemCatChem*, **2013**, 5, 3509-3515	5.2	33
51	A bifunctional palladium/acid solid catalyst performs the direct synthesis of cyclohexylanilines and dicyclohexylamines from nitrobenzenes. *Chemical Communications*, **2013**, 49, 8160-2	5.8	16
50	Water-stabilized three- and four-atom palladium clusters as highly active catalytic species in ligand-free C-C cross-coupling reactions. *Angewandte Chemie - International Edition*, **2013**, 52, 11554-9	16.4	98
49	MOFs as Multifunctional Catalysts: Synthesis of Secondary Arylamines, Quinolines, Pyrroles, and Arylpyrrolidines over Bifunctional MIL-101. *ChemCatChem*, **2013**, 5, 538-549	5.2	103
48	Oxyhalogenation of Activated Arenes with Nanocrystalline Ceria. *ACS Catalysis*, **2013**, 3, 250-258	13.1	31
47	Iron(III) triflimide as a catalytic substitute for gold(I) in hydroaddition reactions to unsaturated carbon-carbon bonds. *Chemistry - A European Journal*, **2013**, 19, 8627-33	4.8	27
46	Water-Stabilized Three- and Four-Atom Palladium Clusters as Highly Active Catalytic Species in Ligand-Free C?C Cross-Coupling Reactions. *Angewandte Chemie*, **2013**, 125, 11768-11773	3.6	17
45	Electrochemical monitoring of the oxidative coupling of alkynes catalyzed by triphenylphosphine gold complexes. *Electrochemistry Communications*, **2012**, 19, 145-148	5.1	9
44	Nickel phosphide nanocatalysts for the chemoselective hydrogenation of alkynes. *Nano Today*, **2012**, 7, 21-28	17.9	96
43	Similarities and differences between the "relativistic" triad gold, platinum, and mercury in catalysis. *Angewandte Chemie - International Edition*, **2012**, 51, 614-35	16.4	170
42	Small gold clusters formed in solution give reaction turnover numbers of 10(7) at room temperature. *Science*, **2012**, 338, 1452-5	33.3	346
41	Gold Redox Catalytic Cycles for the Oxidative Coupling of Alkynes. *ACS Catalysis*, **2012**, 2, 121-126	13.1	69
40	Iron-Catalysed Markovnikov Hydrothiolation of Styrenes. *Advanced Synthesis and Catalysis*, **2012**, 354, 678-687	5.6	52
39	nlichkeiten und Unterschiede innerhalb der elativistischen Triade Gold, Platin und Quecksilber in der Katalyse. *Angewandte Chemie*, **2012**, 124, 636-658	3.6	47
38	Regioselective hydration of alkynes by ironIII Lewis/Br sted catalysis. *Chemistry - A European Journal*, **2012**, 18, 11107-14	4.8	70
37	Gold-catalyzed carbon-heteroatom bond-forming reactions. *Chemical Reviews*, **2011**, 111, 1657-712	68.1	1133
36	Synthesis of Organic norganic 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	13.1	29

35	Total synthesis of iso- and bongkrekic acids: natural antibiotics displaying potent antiapoptotic properties. *Chemistry - A European Journal*, **2011**, 17, 329-43	4.8	27
34	Cationic Gold Catalyzes Bromination of Terminal Alkynes and Subsequent Hydroaddition Reactions. *ACS Catalysis*, **2011**, 1, 601-606	13.1	31
33	Copper(I)-catalyzed hydrophosphination of styrenes. *Journal of Organometallic Chemistry*, **2011**, 696, 362-367	2.3	33
32	Gold(I) catalyzes the intermolecular hydroamination of alkynes with imines and produces N-triarylbisenamines: studies on their use as intermediates in synthesis. *Journal of Organic Chemistry*, **2010**, 75, 7769-80	4.2	44
31	Iron-Catalysed Regio- and Stereoselective Head-to-Tail Dimerisation of Styrenes. *Advanced Synthesis and Catalysis*, **2010**, 352, 1571-1576	5.6	40
30	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	7.3	73
29	Total synthesis of the anti-apoptotic agents iso- and bongkrekic acids. *Organic Letters*, **2010**, 12, 340-3	6.2	82
28	Bifunctional solid catalysts for chemoselective hydrogenation/cyclisation/amination cascade reactions of relevance for the synthesis of pharmaceuticals. *Tetrahedron*, **2010**, 66, 8203-8209	2.4	29
27	Regio- and Stereoselective Intermolecular Hydroalkoxylation of Alkynes Catalysed by Cationic Gold(I) Complexes. *Advanced Synthesis and Catalysis*, **2010**, 352, 1701-1710	5.6	61
26	Reusable Gold(I) Catalysts with Unique Regioselectivity for Intermolecular Hydroamination of Alkynes. *Advanced Synthesis and Catalysis*, **2009**, 351, 2876-2886	5.6	55
25	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, 2067-74	4.2	197
24	Chemoselective hydroboration of alkynes vs. alkenes over gold catalysts. *Chemical Communications*, **2009**, 4947-9	5.8	43
23	Functionalised butanediacetal-protected 1,2-diols as suitable partners for Pd-catalysed cross-coupling reactions. *Tetrahedron*, **2008**, 64, 2348-2358	2.4	10
22	A new synthesis of (-)-epipyriculol: a phytotoxic metabolite. *Tetrahedron*, **2008**, 64, 4711-4717	2.4	11
21	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	2.4	51
20	Electrochemiluminescence of a Periodic Mesoporous Organosilica Containing 9,10-Diarylanthracene Units. *Journal of Physical Chemistry C*, **2007**, 111, 7532-7538	3.8	26
19	Polyethyleneglycol as scaffold and solvent for reusable CC coupling homogeneous Pd catalysts. *Journal of Catalysis*, **2006**, 240, 87-99	7.3	108
18	A fluoride-catalyzed sol-gel route to catalytically active non-ordered mesoporous silica materials in the absence of surfactants. *Journal of Materials Chemistry*, **2005**, 15, 1742		36

17	Palladium catalyzed cycloisomerization of 2,2-diallylmalonates in imidazolium ionic liquids. *Journal of Organometallic Chemistry*, **2005**, 690, 3529-3534	2.3	12
16	Catalytic activity of palladium supported on single wall carbon nanotubes compared to palladium supported on activated carbon: Study of the Heck and Suzuki couplings, aerobic alcohol oxidation and selective hydrogenation. *Journal of Molecular Catalysis A*, **2005**, 230, 97-105		175
15	Ship-in-a-bottle synthesis of triphenylamine inside faujasite supercages and generation of the triphenylamminium radical ion. *Tetrahedron*, **2005**, 61, 791-796	2.4	13
14	Comparison between polyethylenglycol and imidazolium ionic liquids as solvents for developing a homogeneous and reusable palladium catalytic system for the Suzuki and Sonogashira coupling. *Tetrahedron*, **2005**, 61, 9848-9854	2.4	91
13	A periodic mesoporous organosilica containing a carbapalladacycle complex as heterogeneous catalyst for Suzuki cross-coupling. *Journal of Catalysis*, **2005**, 229, 322-331	7.3	158
12	Assessment of the suitability of imidazolium ionic liquids as reaction medium for base-catalysed reactions Case of Knoevenagel and Claisen□Schmidt reactions. *Journal of Molecular Catalysis A*, **2004**, 214, 137-142		72
11	Alkali-exchanged sepiolites containing palladium as bifunctional (basic sites and noble metal) catalysts for the Heck and Suzuki reactions. *Applied Catalysis A: General*, **2004**, 257, 77-83	5.1	73
10	Supercritical CO2 as a superior solvent for the cyclization of diallylmalonate catalyzed by palladium-containing zeolites. *Tetrahedron*, **2004**, 60, 8131-8135	2.4	7
9	An imidazolium ionic liquid having covalently attached an oxime carbapalladacycle complex as ionophilic heterogeneous catalysts for the Heck and Suzuki□Miyaura cross-coupling. *Tetrahedron*, **2004**, 60, 8553-8560	2.4	90
8	Controlling the softness□hardness of Pd by strong metal□zeolite interaction: cyclisation of diallylmalonate as a test reaction. *Journal of Catalysis*, **2004**, 225, 350-358	7.3	11
7	Preparation and photochemical properties of p-phenylene oligomers encapsulated within faujasite Y. *Physical Chemistry Chemical Physics*, **2004**, 6, 201-204	3.6	6
6	Oxime carbapalladacycle covalently anchored to high surface area inorganic supports or polymers as heterogeneous green catalysts for the Suzuki reaction in water. *Journal of Organic Chemistry*, **2004**, 69, 439-46	4.2	194
5	Basic zeolites containing palladium as bifunctional heterogeneous catalysts for the Heck reaction. *Applied Catalysis A: General*, **2003**, 247, 41-49	5.1	74
4	An oxime-carbapalladacycle complex covalently anchored to silica as an active and reusable heterogeneous catalyst for Suzuki cross-coupling in water. *Chemical Communications*, **2003**, 606-7	5.8	137
3	Heterogeneous Baylis-Hillman using a polystyrene-bound 4-(N-benzyl-N-methylamino)pyridine as reusable catalyst. *Chemical Communications*, **2003**, 2806-7	5.8	35
2	Bifunctional palladium-basic zeolites as catalyst for Suzuki reaction. *Applied Catalysis A: General*, **2002**, 236, 179-185	5.1	82
1	A Career in Catalysis: Avelino Corma. *ACS Catalysis*,7054-7123	13.1	1