

# Antonio Leyva-Prez

## List of Publications by Citations

**Source:** <https://exaly.com/author-pdf/7690349/antonio-leyva-perez-publications-by-citations.pdf>

**Version:** 2024-04-27

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Gold-catalyzed carbon-heteroatom bond-forming reactions. <i>Chemical Reviews</i> , <b>2011</b> , 111, 1657-712	68.1	1133
105	Small gold clusters formed in solution give reaction turnover numbers of 10(7) at room temperature. <i>Science</i> , <b>2012</b> , 338, 1452-5	33.3	346
104	Isolable gold(I) complexes having one low-coordinating ligand as catalysts for the selective hydration of substituted alkynes at room temperature without acidic promoters. <i>Journal of Organic Chemistry</i> , <b>2009</b> , 74, 2067-74	4.2	197
103	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> , <b>2004</b> , 69, 439-46	4.2	194
102	The MOF-driven synthesis of supported palladium clusters with catalytic activity for carbene-mediated chemistry. <i>Nature Materials</i> , <b>2017</b> , 16, 760-766	27	180
101	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. <i>Journal of Molecular Catalysis A</i> , <b>2005</b> , 230, 97-105		175
100	Similarities and differences between the "relativistic" triad gold, platinum, and mercury in catalysis. <i>Angewandte Chemie - International Edition</i> , <b>2012</b> , 51, 614-35	16.4	170
99	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> , <b>2014</b> , 47, 834-44	24.3	167
98	A periodic mesoporous organosilica containing a carbapalladacycle complex as heterogeneous catalyst for Suzuki cross-coupling. <i>Journal of Catalysis</i> , <b>2005</b> , 229, 322-331	7.3	158
97	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> , <b>2003</b> , 606-7	5.8	137
96	Selective Gold Recovery and Catalysis in a Highly Flexible Methionine-Decorated Metal-Organic Framework. <i>Journal of the American Chemical Society</i> , <b>2016</b> , 138, 7864-7	16.4	136
95	Polyethyleneglycol as scaffold and solvent for reusable CC coupling homogeneous Pd catalysts. <i>Journal of Catalysis</i> , <b>2006</b> , 240, 87-99	7.3	108
94	MOFs as Multifunctional Catalysts: Synthesis of Secondary Arylamines, Quinolines, Pyrroles, and Arylpyrrolidines over Bifunctional MIL-101. <i>ChemCatChem</i> , <b>2013</b> , 5, 538-549	5.2	103
93	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> , <b>2013</b> , 52, 11554-9	16.4	98
92	Nickel phosphide nanocatalysts for the chemoselective hydrogenation of alkynes. <i>Nano Today</i> , <b>2012</b> , 7, 21-28	17.9	96
91	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> , <b>2005</b> , 61, 9848-9854	2.4	91
90	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> , <b>2004</b> , 60, 8553-8560	2.4	90

89	Synthesis of Densely Packaged, Ultrasmall Pt Clusters within a Thioether-Functionalized MOF: Catalytic Activity in Industrial Reactions at Low Temperature. <i>Angewandte Chemie - International Edition</i> , <b>2018</b> , 57, 6186-6191	16.4	89
88	Total synthesis of the anti-apoptotic agents iso- and bongkreic acids. <i>Organic Letters</i> , <b>2010</b> , 12, 340-3	6.2	82
87	Bifunctional palladium-basic zeolites as catalyst for Suzuki reaction. <i>Applied Catalysis A: General</i> , <b>2002</b> , 236, 179-185	5.1	82
86	Basic zeolites containing palladium as bifunctional heterogeneous catalysts for the Heck reaction. <i>Applied Catalysis A: General</i> , <b>2003</b> , 247, 41-49	5.1	74
85	Gold catalysts and solid catalysts for biomass transformations: Valorization of glycerol and glycerol/water mixtures through formation of cyclic acetals. <i>Journal of Catalysis</i> , <b>2010</b> , 271, 351-357	7.3	73
84	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> , <b>2004</b> , 257, 77-83	5.1	73
83	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> , <b>2004</b> , 214, 137-142		72
82	Regioselective hydration of alkynes by iron(III) Lewis/Brønsted catalysis. <i>Chemistry - A European Journal</i> , <b>2012</b> , 18, 11107-14	4.8	70
81	Gold Redox Catalytic Cycles for the Oxidative Coupling of Alkynes. <i>ACS Catalysis</i> , <b>2012</b> , 2, 121-126	13.1	69
80	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> , <b>2019</b> , 141, 1928-1940	16.4	65
79	Regio- and Stereoselective Intermolecular Hydroalkoxylation of Alkynes Catalysed by Cationic Gold(I) Complexes. <i>Advanced Synthesis and Catalysis</i> , <b>2010</b> , 352, 1701-1710	5.6	61
78	Reusable Gold(I) Catalysts with Unique Regioselectivity for Intermolecular Hydroamination of Alkynes. <i>Advanced Synthesis and Catalysis</i> , <b>2009</b> , 351, 2876-2886	5.6	55
77	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> , <b>2015</b> , 137, 11832-7	16.4	54
76	Iron-Catalysed Markovnikov Hydrothiolation of Styrenes. <i>Advanced Synthesis and Catalysis</i> , <b>2012</b> , 354, 678-687	5.6	52
75	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. <i>Journal of the American Chemical Society</i> , <b>2015</b> , 137, 3894-900	16.4	51
74	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. <i>Tetrahedron</i> , <b>2007</b> , 63, 7097-7111	2.4	51
73	Isolated Fe(III)-O Sites Catalyze the Hydrogenation of Acetylene in Ethylene Flows under Front-End Industrial Conditions. <i>Journal of the American Chemical Society</i> , <b>2018</b> , 140, 8827-8832	16.4	50
72	Ähnlichkeiten und Unterschiede innerhalb der Relativistischen Triade Gold, Platin und Quecksilber in der Katalyse. <i>Angewandte Chemie</i> , <b>2012</b> , 124, 636-658	3.6	47

71	Partial Reduction and Selective Transfer of Hydrogen Chloride on Catalytic Gold Nanoparticles. <i>Angewandte Chemie - International Edition</i> , <b>2017</b> , 56, 6435-6439	16.4	45
70	Few layer 2D pnictogens catalyze the alkylation of soft nucleophiles with esters. <i>Nature Communications</i> , <b>2019</b> , 10, 509	17.4	45
69	Metal-Organic Frameworks as Chemical Nanoreactors: Synthesis and Stabilization of Catalytically Active Metal Species in Confined Spaces. <i>Accounts of Chemical Research</i> , <b>2020</b> , 53, 520-531	24.3	45
68	Gold(I) catalyzes the intermolecular hydroamination of alkynes with imines and produces $\mu$ -N-triaryl-bis enamines: studies on their use as intermediates in synthesis. <i>Journal of Organic Chemistry</i> , <b>2010</b> , 75, 7769-80	4.2	44
67	Chemoselective hydroboration of alkynes vs. alkenes over gold catalysts. <i>Chemical Communications</i> , <b>2009</b> , 4947-9	5.8	43
66	Synthesis of Supported Planar Iron Oxide Nanoparticles and Their Chemo- and Stereoselectivity for Hydrogenation of Alkynes. <i>ACS Catalysis</i> , <b>2017</b> , 7, 3721-3729	13.1	42
65	Lattice Opening upon Bulk Reductive Covalent Functionalization of Black Phosphorus. <i>Angewandte Chemie - International Edition</i> , <b>2019</b> , 58, 5763-5768	16.4	42
64	Unique distal size selectivity with a digold catalyst during alkyne homocoupling. <i>Nature Communications</i> , <b>2015</b> , 6, 6703	17.4	41
63	Iron-Catalysed Regio- and Stereoselective Head-to-Tail Dimerisation of Styrenes. <i>Advanced Synthesis and Catalysis</i> , <b>2010</b> , 352, 1571-1576	5.6	40
62	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> , <b>2005</b> , 15, 1742		36
61	Heterogeneous Baylis-Hillman using a polystyrene-bound 4-(N-benzyl-N-methylamino)pyridine as reusable catalyst. <i>Chemical Communications</i> , <b>2003</b> , 2806-7	5.8	35
60	Confined Pt Water Clusters in a MOF Catalyze the Low-Temperature Water-Gas Shift Reaction with both CO Oxygen Atoms Coming from Water. <i>Angewandte Chemie - International Edition</i> , <b>2018</b> , 57, 17094-17099	16.4	35
59	Multisite organic-inorganic hybrid catalysts for the direct sustainable synthesis of GABAergic drugs. <i>Angewandte Chemie - International Edition</i> , <b>2014</b> , 53, 8687-90	16.4	34
58	Reactivity of Electron-Deficient Alkynes on Gold Nanoparticles. <i>ACS Catalysis</i> , <b>2013</b> , 3, 1865-1873	13.1	34
57	A Ligand-Free Pt Cluster Catalyzes the Markovnikov Hydrosilylation of Alkynes with up to 10 Turnover Frequencies. <i>Chemistry - A European Journal</i> , <b>2017</b> , 23, 1702-1708	4.8	33
56	Very Small (38 Atoms) Gold Cluster Catalyzed Carbon-Carbon and Carbon-Heteroatom Bond-Forming Reactions in Solution. <i>ChemCatChem</i> , <b>2013</b> , 5, 3509-3515	5.2	33
55	Copper(I)-catalyzed hydrophosphination of styrenes. <i>Journal of Organometallic Chemistry</i> , <b>2011</b> , 696, 362-367	2.3	33
54	Facile Synthesis of Surface-Clean Monodispersed CuOx Nanoparticles and Their Catalytic Properties for Oxidative Coupling of Alkynes. <i>ACS Catalysis</i> , <b>2016</b> , 6, 2211-2221	13.1	32

53	Oxyhalogenation of Activated Arenes with Nanocrystalline Ceria. <i>ACS Catalysis</i> , <b>2013</b> , 3, 250-258	13.1	31
52	Cationic Gold Catalyzes Bromination of Terminal Alkynes and Subsequent Hydroaddition Reactions. <i>ACS Catalysis</i> , <b>2011</b> , 1, 601-606	13.1	31
51	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> , <b>2015</b> , 54, 5658-61	16.4	29
50	Generation and Reactivity of Electron-Rich Carbenes on the Surface of Catalytic Gold Nanoparticles. <i>Journal of the American Chemical Society</i> , <b>2018</b> , 140, 3215-3218	16.4	29
49	Synthesis of Organic-Inorganic Hybrid Solids with Copper Complex Framework and Their Catalytic Activity for the S-Arylation and the Azide-Alkyne Cycloaddition Reactions. <i>ACS Catalysis</i> , <b>2011</b> , 1, 147-158 <sup>13.1</sup>	13.1	29
48	Bifunctional solid catalysts for chemoselective hydrogenation-cyclisation-elimination cascade reactions of relevance for the synthesis of pharmaceuticals. <i>Tetrahedron</i> , <b>2010</b> , 66, 8203-8209	2.4	29
47	Partially oxidized gold nanoparticles: A catalytic base-free system for the aerobic homocoupling of alkynes. <i>Journal of Catalysis</i> , <b>2014</b> , 315, 6-14	7.3	27
46	Iron(III) triflimide as a catalytic substitute for gold(I) in hydroaddition reactions to unsaturated carbon-carbon bonds. <i>Chemistry - A European Journal</i> , <b>2013</b> , 19, 8627-33	4.8	27
45	Total synthesis of iso- and bongkreic acids: natural antibiotics displaying potent antiapoptotic properties. <i>Chemistry - A European Journal</i> , <b>2011</b> , 17, 329-43	4.8	27
44	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> , <b>2013</b> , 49, 7782-4	5.8	26
43	Electrochemiluminescence of a Periodic Mesoporous Organosilica Containing 9,10-Diarylanthracene Units. <i>Journal of Physical Chemistry C</i> , <b>2007</b> , 111, 7532-7538	3.8	26
42	Self-Assembly of Catalytically Active Supramolecular Coordination Compounds within Metal-Organic Frameworks. <i>Journal of the American Chemical Society</i> , <b>2019</b> , 141, 10350-10360	16.4	25
41	Synthesis of the ortho/meta/para isomers of Relevant Pharmaceutical Compounds by Coupling a Sonogashira Reaction with a Regioselective Hydration. <i>ACS Catalysis</i> , <b>2014</b> , 4, 722-731	13.1	23
40	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> , <b>2021</b> , 143, 2581-2592	16.4	22
39	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> , <b>2018</b> , 8, 10401-10406	13.1	19
38	Water-Stabilized Three- and Four-Atom Palladium Clusters as Highly Active Catalytic Species in Ligand-Free C-C Cross-Coupling Reactions. <i>Angewandte Chemie</i> , <b>2013</b> , 125, 11768-11773	3.6	17
37	Intermolecular Carbonyl-olefin Metathesis with Vinyl Ethers Catalyzed by Homogeneous and Solid Acids in Flow. <i>Angewandte Chemie - International Edition</i> , <b>2020</b> , 59, 3846-3849	16.4	17
36	Hydrolase-like catalysis and structural resolution of natural products by a metal-organic framework. <i>Nature Communications</i> , <b>2020</b> , 11, 3080	17.4	16

35	A bifunctional palladium/acid solid catalyst performs the direct synthesis of cyclohexylanilines and dicyclohexylamines from nitrobenzenes. <i>Chemical Communications</i> , <b>2013</b> , 49, 8160-2	5.8	16
34	One pot synthesis of cyclohexanone oxime from nitrobenzene using a bifunctional catalyst. <i>Chemical Communications</i> , <b>2014</b> , 50, 1645-7	5.8	14
33	Sub-nanometre metal clusters for catalytic carbon-carbon and carbon-heteroatom cross-coupling reactions. <i>Dalton Transactions</i> , <b>2017</b> , 46, 15987-15990	4.3	13
32	Ship-in-a-bottle synthesis of triphenylamine inside faujasite supercages and generation of the triphenylamminium radical ion. <i>Tetrahedron</i> , <b>2005</b> , 61, 791-796	2.4	13
31	Beyond Acid Strength in Zeolites: Soft Framework Counteranions for Stabilization of Carbocations on Zeolites and Its Implication in Organic Synthesis. <i>Angewandte Chemie</i> , <b>2015</b> , 127, 5750-5753	3.6	12
30	Synthesis of Densely Packaged, Ultrasmall PtO <sub>2</sub> Clusters within a Thioether-Functionalized MOF: Catalytic Activity in Industrial Reactions at Low Temperature. <i>Angewandte Chemie</i> , <b>2018</b> , 130, 6294-6299 <sup>3.6</sup>	3.6	12
29	Bimetallic nanosized solids with acid and redox properties for catalytic activation of C-C and C-H bonds. <i>Chemical Science</i> , <b>2017</b> , 8, 689-696	9.4	12
28	Palladium catalyzed cycloisomerization of 2,2-diallylmalonates in imidazolium ionic liquids. <i>Journal of Organometallic Chemistry</i> , <b>2005</b> , 690, 3529-3534	2.3	12
27	A new synthesis of (R)-epipyriculol: a phytotoxic metabolite. <i>Tetrahedron</i> , <b>2008</b> , 64, 4711-4717	2.4	11
26	Controlling the softness/hardness of Pd by strong metal/zeolite interaction: cyclisation of diallylmalonate as a test reaction. <i>Journal of Catalysis</i> , <b>2004</b> , 225, 350-358	7.3	11
25	Regioirregular and catalytic Mizoroki-Hick reactions. <i>Nature Catalysis</i> , <b>2021</b> , 4, 293-303	36.5	11
24	Gitteröffnung durch reduktive kovalente Volumen-Funktionalisierung von schwarzem Phosphor. <i>Angewandte Chemie</i> , <b>2019</b> , 131, 5820-5826	3.6	10
23	Functionalised butanediactal-protected 1,2-diols as suitable partners for Pd-catalysed cross-coupling reactions. <i>Tetrahedron</i> , <b>2008</b> , 64, 2348-2358	2.4	10
22	Mixed component metal-organic frameworks: Heterogeneity and complexity at the service of application performances. <i>Coordination Chemistry Reviews</i> , <b>2022</b> , 451, 214273	23.2	10
21	Cyclic metal(oid) clusters control platinum-catalysed hydrosilylation reactions: from soluble to zeolite and MOF catalysts. <i>Chemical Science</i> , <b>2020</b> , 11, 8113-8124	9.4	10
20	The wet synthesis and quantification of ligand-free sub-nanometric Au clusters in solid matrices. <i>Chemical Communications</i> , <b>2017</b> , 53, 1116-1119	5.8	9
19	Electrochemical monitoring of the oxidative coupling of alkynes catalyzed by triphenylphosphine gold complexes. <i>Electrochemistry Communications</i> , <b>2012</b> , 19, 145-148	5.1	9
18	Partial Reduction and Selective Transfer of Hydrogen Chloride on Catalytic Gold Nanoparticles. <i>Angewandte Chemie</i> , <b>2017</b> , 129, 6535-6539	3.6	8

17	Disassembling Metal Nanocrystallites into Sub-nanometric Clusters and Low-faceted Nanoparticles for Multisite Catalytic Reactions. <i>ChemCatChem</i> , <b>2017</b> , 9, 1429-1435	5.2	7
16	Supercritical CO <sub>2</sub> as a superior solvent for the cyclization of diallylmalonate catalyzed by palladium-containing zeolites. <i>Tetrahedron</i> , <b>2004</b> , 60, 8131-8135	2.4	7
15	Few-layer Black Phosphorous Catalyzes Radical Additions to Alkenes Faster than Low-valence Metals. <i>ChemCatChem</i> , <b>2020</b> , 12, 2226-2232	5.2	6
14	Preparation and photochemical properties of p-phenylene oligomers encapsulated within faujasite Y. <i>Physical Chemistry Chemical Physics</i> , <b>2004</b> , 6, 201-204	3.6	6
13	Nanoceria as a recyclable catalyst/support for the cyanosilylation of ketones and alcohol oxidation in cascade. <i>Journal of Catalysis</i> , <b>2020</b> , 392, 21-28	7.3	5
12	Acid Catalysis with Alkane/Water Microdroplets in Ionic Liquids. <i>Jacs Au</i> , <b>2021</b> , 1, 786-794		4
11	Confined Pt <sub>11</sub> + 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> , <b>2018</b> , 130, 17340-17345	3.6	4
10	Selective semi-hydrogenation of internal alkynes catalyzed by Pd/CaCO <sub>3</sub> clusters. <i>Journal of Catalysis</i> , <b>2022</b> , 408, 43-55	7.3	3
9	Zeolites Catalyze the Nazarov Reaction and the tert-Butylation of Alcohols by Stabilization of Carboxonium Intermediates. <i>Synthesis</i> , <b>2020</b> , 52, 2031-2037	2.9	2
8	Intermolecular Carbonyl-Blefin Metathesis with Vinyl Ethers Catalyzed by Homogeneous and Solid Acids in Flow. <i>Angewandte Chemie</i> , <b>2020</b> , 132, 3874-3877	3.6	2
7	Radical Alkylation of ketones with unactivated alkenes under catalytic and sustainable industrial conditions. <i>Applied Catalysis A: General</i> , <b>2021</b> , 613, 118021	5.1	1
6	Crystallographic Visualization of a Double Water Molecule Addition on a Pt <sub>1</sub> -MOF during the Low-temperature Water-Gas Shift Reaction. <i>ChemCatChem</i> , <b>2021</b> , 13, 1195-1200	5.2	1
5	A Career in Catalysis: Avelino Corma. <i>ACS Catalysis</i> , 7054-7123	13.1	1
4	Nanotitania catalyzes the chemoselective hydration and alkoxylation of epoxides. <i>Molecular Catalysis</i> , <b>2021</b> , 515, 111927	3.3	0
3	Ligand-Free Sub-Nanometer Metal Clusters in Catalysis. <i>Molecular Catalysis</i> , <b>2020</b> , 1-37	0.3	
2	Zeolites catalyze selective reactions of large organic molecules. <i>Advances in Catalysis</i> , <b>2021</b> , 69, 59-102	2.4	
1	Click amidations, esterifications and one-pot reactions catalyzed by Cu salts and multimetal-organic frameworks (MMOFs). <i>Molecular Catalysis</i> , <b>2022</b> , 522, 112228	3.3	