

# Anna Roglans

## List of Publications by Citations

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51  
g-index

128  
ext. papers

3,273  
ext. citations

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L-index

#	Paper	IF	Citations
91	Diazonium salts as substrates in palladium-catalyzed cross-coupling reactions. <i>Chemical Reviews</i> , <b>2006</b> , 106, 4622-43	68.1	649
90	Direct and Highly Enantioselective Synthesis of Ferrocenes with Planar Chirality by (R)-Sparteine-Mediated Lithiation. <i>Journal of the American Chemical Society</i> , <b>1996</b> , 118, 685-686	16.4	217
89	First Heck reaction with arenediazonium cations with recovery of Pd-triolefinic macrocyclic catalyst. <i>Organic Letters</i> , <b>2003</b> , 5, 1559-61	6.2	103
88	Electrospray Ionization Mass Spectrometry Detection of Intermediates in the Palladium-Catalyzed Oxidative Self-Coupling of Areneboronic Acids. <i>Journal of Organic Chemistry</i> , <b>1999</b> , 64, 3592-3594	4.2	95
87	Highly enantioselective electrophilic amination and michael addition of cyclic beta-ketoesters induced by lanthanides and (S,S)-ip-pybox: the mechanism. <i>Journal of Organic Chemistry</i> , <b>2007</b> , 72, 2077-87	4.2	87
86	Can the disproportionation of oxidation state III be favored in RuII-OH2/RuIV=O systems?. <i>Journal of the American Chemical Society</i> , <b>2006</b> , 128, 5306-7	16.4	78
85	Allenes, versatile unsaturated motifs in transition-metal-catalysed [2+2+2] cycloaddition reactions. <i>Chemical Society Reviews</i> , <b>2016</b> , 45, 2010-23	58.5	76
84	Density Functional Study of the [2+2+2] Cyclotrimerization of Acetylene Catalyzed by Wilkinson's Catalyst, RhCl(PPh3)3. <i>Organometallics</i> , <b>2010</b> , 29, 562-569	3.8	60
83	[2+2+2] cycloaddition reactions of macrocyclic systems catalyzed by transition metals. A review. <i>Molecules</i> , <b>2010</b> , 15, 9230-51	4.8	52
82	Recoverable Homogeneous Palladium(0) Catalyst for Cross-Coupling Reactions of Arenediazonium Salts with Potassium Organotrifluoroborates: Detection of Catalytic Intermediates by Electrospray Ionization Mass Spectrometry. <i>European Journal of Organic Chemistry</i> , <b>2007</b> , 2007, 158-166	3.2	50
81	Transition metal-mediated intramolecular [2+2+2] cycloisomerizations of cyclic triynes and enediynes. <i>Journal of Organic Chemistry</i> , <b>2005</b> , 70, 2033-41	4.2	50
80	Mechanistic Studies of Transition-Metal-Catalyzed [2 + 2 + 2] Cycloaddition Reactions. <i>Chemical Reviews</i> , <b>2021</b> , 121, 1894-1979	68.1	49
79	Organometallic chemistry of 15-membered tri-olefinic macrocycles: catalysis by palladium(0) complexes in carbon-carbon bond-forming reactions. <i>Journal of Organometallic Chemistry</i> , <b>2004</b> , 689, 3669-3684	2.3	47
78	The Heck-type arylation of allylic alcohols with arenediazonium salts. <i>Journal of Organometallic Chemistry</i> , <b>2005</b> , 690, 3822-3826	2.3	45
77	Ionic and covalent copper(II)-based catalysts for Michael additions. The mechanism. <i>Journal of Organic Chemistry</i> , <b>2004</b> , 69, 6834-42	4.2	44
76	Allylic Substitution Mediated by Water and Palladium: Unusual Role of a Palladium(II) Catalyst and ESI-MS Analysis. <i>Organometallics</i> , <b>2004</b> , 23, 4796-4799	3.8	44
75	Rhodium(I)-catalysed intramolecular [2+2+2] cyclotrimerisations of 15-, 20- and 25-membered azamacrocycles: experimental and theoretical mechanistic studies. <i>Chemistry - A European Journal</i> , <b>2009</b> , 15, 5289-300	4.8	42

74	Dendritic phosphoramidite ligands for Rh-catalyzed [2+2+2] cycloaddition reactions: unprecedented enhancement of enantiodiscrimination. <i>Chemical Communications</i> , <b>2012</b> , 48, 9248-50	5.8	40
73	P-stereogenic secondary iminophosphorane ligands and their rhodium(I) complexes: taking advantage of NH/PH tautomerism. <i>Angewandte Chemie - International Edition</i> , <b>2012</b> , 51, 6951-5	16.4	37
72	Chiral N-phosphino sulfinamide ligands in rhodium(I)-catalyzed [2+2+2] cycloaddition reactions. <i>Tetrahedron</i> , <b>2010</b> , 66, 9032-9040	2.4	36
71	Palladium(0)-catalyzed allylation of highly acidic and non-nucleophilic arenesulfonamides, sulfamide, and cyanamide. I. <i>Tetrahedron</i> , <b>1998</b> , 54, 14869-14884	2.4	35
70	Synthesis of Nitrogen-Containing 15-Membered Triacetylenic Macrocycles. Stable Complex with Palladium(0). <i>Organometallics</i> , <b>2004</b> , 23, 2762-2767	3.8	35
69	Direct detection of key intermediates in rhodium(I)-catalyzed [2+2+2] cycloadditions of alkynes by ESI-MS. <i>Chemistry - A European Journal</i> , <b>2012</b> , 18, 13097-107	4.8	32
68	Enantioselective Rhodium(I) Donor Carbenoid-Mediated Cascade Triggered by a Base-Free Decomposition of Arylsulfonyl Hydrazones. <i>Chemistry - A European Journal</i> , <b>2015</b> , 21, 16240-5	4.8	31
67	Dehydrogenative [2 + 2 + 2] Cycloaddition of Cyano-yne-allene Substrates: Convenient Access to 2,6-Naphthyridine Scaffolds. <i>Organic Letters</i> , <b>2015</b> , 17, 2882-5	6.2	29
66	Microwave-Enhanced Rhodium-Catalyzed [2+2+2] Cycloaddition Reactions To Afford Highly Functionalized Pyridines and Bipyridines. <i>European Journal of Organic Chemistry</i> , <b>2010</b> , 2010, 3407-3415	3.2	29
65	Palladium(0)-catalyzed allylation of highly acidic and non-nucleophilic arenesulfonamides, sulfamide, and cyanamide. II. Formation of medium and large heterocycles. <i>Tetrahedron</i> , <b>1998</b> , 54, 14885-14904	2.4	29
64	Stereospecific Preparation of (E) and (Z)-3,3-Diarylacrylonitriles by Heck Reaction. <i>Synlett</i> , <b>1997</b> , 1997, 1157-1158	2.2	28
63	Fused tetracycles with a benzene or cyclohexadiene core: [2 + 2 + 2] cycloadditions on macrocyclic systems. <i>Chemical Communications</i> , <b>2008</b> , 4339-41	5.8	27
62	Ethyl N-(diphenylmethylene)glycinate as anionic glycine equivalent. Monoalkylation, dialkylation and Michael additions under solid-liquid phase-transfer catalysis. <i>Tetrahedron</i> , <b>1996</b> , 52, 8365-8386	2.4	26
61	15-Membered triolefinic macrocycles, their coordination chemistry with transition metals, and the catalytic properties of their palladium metal complexes. A review.. <i>Arkivoc</i> , <b>2004</b> , 2004, 109-129	0.9	26
60	Intramolecular [2+2+2] cycloaddition reactions of yne-ene-yne and yne-yne-ene enediyne catalysed by Rh(I): experimental and theoretical mechanistic studies. <i>Chemistry - A European Journal</i> , <b>2011</b> , 17, 14493-507	4.8	25
59	Chiral Induction in [2+2+2] Cycloaddition Reactions. <i>Asian Journal of Organic Chemistry</i> , <b>2018</b> , 7, 1706-1718	3.8	24
58	Functionalization of the 3-Position of Thiophene and Benzo[b]thiophene Moieties by Palladium-Catalyzed C-C Bond Forming Reactions using Diazonium Salts. <i>Advanced Synthesis and Catalysis</i> , <b>2011</b> , 353, 2003-2012	5.6	23
57	Rates and Mechanism of Rhodium-Catalyzed [2+2+2] Cycloaddition of Bisalkynes and a Monoalkyne. <i>Organometallics</i> , <b>2009</b> , 28, 6036-6043	3.8	23

56	15-Membered Triolefinic Macrocycles [Catalytic Role of (E,E,E)-1,6,11-Tris(arenesulfonyl)-1,6,11-triazacyclopentadeca-3,8,13-triene Complexes of Palladium(0) in the Presence of Phosphanes. <i>European Journal of Organic Chemistry</i> , <b>2003</b> , 2003, 274-283	3.2	23
55	A simple catalytic system based on PdCl <sub>2</sub> (CH <sub>3</sub> CN) <sub>2</sub> in water for cross-coupling reactions using diazonium salts. <i>Tetrahedron</i> , <b>2013</b> , 69, 9761-9765	2.4	22
54	Palladium and rhodium-catalyzed intramolecular [2+2+2] cycloisomerizations in molten tetrabutylammonium bromide. <i>Tetrahedron Letters</i> , <b>2007</b> , 48, 6425-6428	2	21
53	Heck-type reactions of allylic alcohols. <i>Journal of Molecular Catalysis A</i> , <b>2008</b> , 283, 140-145		21
52	Ene reactions between two alkynes? Doors open to thermally induced cycloisomerization of macrocyclic triynes and enediynes. <i>Chemical Communications</i> , <b>2010</b> , 46, 2944-6	5.8	20
51	Expeditious Preparation of Open-Cage Fullerenes by Rhodium(I)-Catalyzed [2+2+2] Cycloaddition of Diynes and C : An Experimental and Theoretical Study. <i>Chemistry - A European Journal</i> , <b>2018</b> , 24, 10653-10661	4.8	19
50	Examining the Factors That Govern the Regioselectivity in Rhodium-Catalyzed Alkyne Cyclotrimerization. <i>Organometallics</i> , <b>2019</b> , 38, 2853-2862	3.8	19
49	RhCl(PPh <sub>3</sub> ) <sub>3</sub> -Catalyzed Intramolecular Cycloaddition of Eneidyne: The Nature of the Tether and Substituents Controls the Reaction Mechanism. <i>Organometallics</i> , <b>2011</b> , 30, 3151-3159	3.8	19
48	Novel Homo- and Heterobimetallic Palladium(0) and Platinum(0) Complexes of Olefinic Mono-, Bis-, and Tris-macrocyclic Ligands. <i>Organometallics</i> , <b>2004</b> , 23, 2533-2540	3.8	19
47	Preparation of 3-Pyrrolidone and 4-Perhydroazepinone. <i>Synthetic Communications</i> , <b>1992</b> , 22, 1249-1258	1.7	19
46	Substitution of allylic acetates with sodium para-toluenesulfinate in aqueous media using allylpalladium chloride dimer and a water-soluble ligand as the catalytic system; electrospray ionisation mass spectrometry analysis. <i>New Journal of Chemistry</i> , <b>2007</b> , 31, 121-126	3.6	18
45	Synthesis, catalytic activity and redox properties of palladium(0) complexes with 15-membered triolefinic macrocyclic ligands containing one, two or three ferrocenyl groups. <i>Tetrahedron Letters</i> , <b>2002</b> , 43, 1425-1428	2	18
44	ESI-mass spectrometry as a tool for investigating the mechanistic role of a 15-membered triolefinic macrocyclic palladium(0) complex in the Heck reaction. <i>Arkivoc</i> , <b>2005</b> , 2005, 51-62	0.9	18
43	P-Stereogenic Secondary Iminophosphorane Ligands and Their Rhodium(I) Complexes: Taking Advantage of NH/PH Tautomerism. <i>Angewandte Chemie</i> , <b>2012</b> , 124, 7057-7061	3.6	17
42	Fluorous aryl compounds by Matsuda-Heck reaction. <i>Tetrahedron</i> , <b>2011</b> , 67, 8659-8664	2.4	17
41	New applications of azamacrocyclic ligands in ion recognition, transport and preconcentration of palladium. <i>Analytica Chimica Acta</i> , <b>2006</b> , 560, 77-83	6.6	17
40	An Enantioselective Cascade Cyclopropanation Reaction Catalyzed by Rhodium(I): Asymmetric Synthesis of Vinylcyclopropanes. <i>Advanced Synthesis and Catalysis</i> , <b>2016</b> , 358, 3512-3516	5.6	16
39	Rhodium-NHC Hybrid Silica Materials as Recyclable Catalysts for [2+2+2] Cycloaddition Reactions of Alkynes. <i>European Journal of Organic Chemistry</i> , <b>2014</b> , 2014, 6242-6251	3.2	16

38	The palladium(0) Suzuki cross-coupling reaction as the key step in the synthesis of aporphinoids. <i>Tetrahedron</i> , <b>2004</b> , 60, 5725-5735	2.4	16
37	Understanding Electronic Ligand Perturbation over Successive Metal-Based Redox Potentials in Mononuclear Ruthenium Aqua Complexes. <i>ChemPlusChem</i> , <b>2013</b> , 78, 235-243	2.8	15
36	Selective Pd(II) and Pt(IV) sorption using novel polymers containing azamacrocyclic functional groups. <i>Reactive and Functional Polymers</i> , <b>2008</b> , 68, 1088-1096	4.6	15
35	Synthesis of non-proteinogenic phenylalanine derivatives by rhodium-catalyzed [2+2+2] cycloaddition reactions. <i>Organic and Biomolecular Chemistry</i> , <b>2009</b> , 7, 5020-7	3.9	14
34	Chiral and Stable Palladium(0) Complexes of Polyunsaturated Aza-macrocyclic Ligands: Synthesis and Structural Analysis. <i>Organometallics</i> , <b>2006</b> , 25, 5612-5620	3.8	14
33	Synthesis of $\beta$ -substituted and $\alpha,\beta$ -disubstituted $\alpha$ -amino acids by controlled mono- and dialkylation of ethyl N-diphenylmethyleneglycinate. <i>Tetrahedron Letters</i> , <b>1993</b> , 34, 8535-8538	2	14
32	Rhodium-Catalyzed [2+2+2] Cycloaddition Reactions of Linear Allene-Ene-Ynes to afford Fused Tricyclic Scaffolds: Insights into the Mechanism. <i>Chemistry - A European Journal</i> , <b>2017</b> , 23, 14889-14899	4.8	13
31	Structural analysis of chiral complexes of palladium(0) with 15-membered triolefinic macrocyclic ligands. <i>Chemistry - A European Journal</i> , <b>2005</b> , 11, 2689-97	4.8	13
30	A Rh-Catalyzed Cycloisomerization/Diels-Alder Cascade Reaction of 1,5-Bisallenes for the Synthesis of Polycyclic Heterocycles. <i>Organic Letters</i> , <b>2019</b> , 21, 6608-6613	6.2	12
29	Computational insight into Wilkinson's complex catalyzed [2 + 2 + 2] cycloaddition mechanism leading to pyridine formation. <i>Journal of Organometallic Chemistry</i> , <b>2014</b> , 768, 15-22	2.3	12
28	Syntheses, Structures and Redox Properties of New Macrocyclic Triazatriolefinic Pd <sup>0</sup> Complexes and Their Polypyrrole Modified Electrodes Application to Heterogeneous Catalytic Suzuki Cross-Coupling Reactions. <i>European Journal of Inorganic Chemistry</i> , <b>2004</b> , 2004, 1601-1610	2.3	11
27	Rhodium(I)-Catalyzed [2 + 2 + 2] Cycloaddition Reactions of Triacetylenic 15-Membered Aza Macrocycles: A Comparative Structural Study. <i>Organometallics</i> , <b>2012</b> , 31, 318-326	3.8	10
26	IFSERF, an isotope-filtered SERF experiment for the precise measurement of proton-proton coupling constants between chemically equivalent protons. <i>Journal of Magnetic Resonance</i> , <b>2005</b> , 173, 305-9	3	10
25	Ethyl N-(diphenylmethylene)glycinate as anionic glycine equivalent transition metal mediated preparation of bicyclic and tricyclic $\alpha,\beta$ -disubstituted $\alpha$ -amino acids and derivatives. <i>Liebigs Annalen</i> , <b>1995</b> , 1995, 1807-1814		10
24	Highly enantioselective (-)-sparteine-mediated lateral metalation-functionalization of remote silyl protected ortho-ethyl N,N-dialkyl aryl O-carbamates. <i>Journal of Organic Chemistry</i> , <b>2015</b> , 80, 3368-86	4.2	9
23	Nickel(0) Complexes of Polyunsaturated Azamacrocyclic Ligands. <i>Organometallics</i> , <b>2012</b> , 31, 1983-1990	3.8	9
22	Enhanced Open-Circuit Voltage in Perovskite Solar Cells with Open-Cage [60]Fullerene Derivatives as Electron-Transporting Materials. <i>Materials</i> , <b>2019</b> , 12,	3.5	8
21	Diels-Alder Reactions of 1,1-Disubstituted 3,4-Dimethylene-cyclopentanes. Preparation of Indanes and Diazaindanes. <i>Synthetic Communications</i> , <b>1993</b> , 23, 601-612	1.7	8

20	Chiral Induction in Intramolecular Rhodium-Catalyzed [2+2+2] Cycloadditions of Optically Active Allene/ene/ellene Substrates. <i>Advanced Synthesis and Catalysis</i> , <b>2017</b> , 359, 506-512	5.6	7
19	Lanthanides/Pybox: An Excellent Combination for Highly Enantioselective Electrophilic Amination of Acyclic Keto Esters. Isolation of Ternary Pybox/Ln/Keto Ester Complexes. <i>ChemistrySelect</i> , <b>2016</b> , 1, 4305-4312	1.8	7
18	A Computational Study of the Intermolecular [2+2+2] Cycloaddition of Acetylene and C Catalyzed by Wilkinson's Catalyst. <i>Chemistry - A European Journal</i> , <b>2017</b> , 23, 15067-15072	4.8	7
17	Unusual reactivity of rhodium carbenes with allenes: an efficient asymmetric synthesis of methylenetetrahydropyran scaffolds. <i>Chemical Communications</i> , <b>2017</b> , 53, 9922-9925	5.8	7
16	Rhodium-Catalyzed [2+2+2] Cycloadditions of Dienes with Morita-Baylis-Hillman Adducts: A Stereoselective Entry to Densely Functionalized Cyclohexadiene Scaffolds. <i>Advanced Synthesis and Catalysis</i> , <b>2016</b> , 358, 1848-1853	5.6	6
15	Structural Differences between Open-Chain and Macrocyclic Triene Ligands for Palladium(0): Influence on the Stability and Catalytical Properties. <i>Organometallics</i> , <b>2008</b> , 27, 5768-5776	3.8	6
14	Nickel(0) Complexes of Acyclic Polyunsaturated Aza Ligands. <i>Organometallics</i> , <b>2013</b> , 32, 1710-1720	3.8	5
13	Improved Preparation of Diethyl Bromomethylphosphonate and Diiodomethane-Catalyzed Triethylphosphite Michaelis-Arbusov Isomerization. <i>Synthetic Communications</i> , <b>1995</b> , 25, 191-194	1.7	5
12	A new mild synthetic route to N-arylated pyridazinones from aryldiazonium salts. <i>Chemical Communications</i> , <b>2014</b> , 50, 8073-6	5.8	4
11	Rhodium N-Heterocyclic Carbene Complexes as Effective Catalysts for [2+2+2]-Cycloaddition Reactions. <i>Synlett</i> , <b>2009</b> , 2009, 2844-2848	2.2	4
10	Measurement of coupling constants in symmetrical spin systems using a full multiple-step cross-polarization-driven NMR pulse scheme. <i>Magnetic Resonance in Chemistry</i> , <b>2005</b> , 43, 979-84	2.1	4
9	Palladium Intermediates in Solution <b>2010</b> , 229-275		3
8	Preparation of 15-membered unsaturated NH containing azamacrocycles and their differential coordination with Pd(0) and Pd(II). <i>Tetrahedron</i> , <b>2005</b> , 61, 10105-10112	2.4	3
7	Application of matrix-assisted laser desorption/ionization time-of-flight mass spectrometry to the structure determination of medium and large macrocycles formed by palladium(0)-catalyzed allylation of arenesulfonamides, sulfamide, and cyanamide. <i>Rapid Communications in Mass Spectrometry</i> , <b>1999</b> , 13, 2359-2365	2.2	3
6	Synthesis of Fused Dihydroazepine Derivatives of Fullerenes by a Rh-Catalyzed Cascade Process. <i>Advanced Synthesis and Catalysis</i> , <b>2021</b> , 363, 3835-3844	5.6	3
5	Synthesis and structure of a chiral dinuclear palladium(0) complex with a 30-membered hexaolefinic macrocyclic ligand. <i>Journal of Organometallic Chemistry</i> , <b>2007</b> , 692, 2997-3004	2.3	2
4	Preparation of Aniline Derivatives: An Advanced Undergraduate Laboratory Experiment Exploring Catalytic and Stoichiometric Reaction Methodologies. <i>Journal of Chemical Education</i> , <b>2002</b> , 79, 731	2.4	2
3	Titelbild: P-Stereogenic Secondary Iminophosphorane Ligands and Their Rhodium(I) Complexes: Taking Advantage of NH/PH Tautomerism (Angew. Chem. 28/2012). <i>Angewandte Chemie</i> , <b>2012</b> , 124, 6901-6901	3.6	1

- 2 Expeditious Preparation of Open-Cage Fullerenes by Rhodium(I)-Catalyzed [2+2+2] Cycloaddition of Dienes and C<sub>60</sub>: An Experimental and Theoretical Study. *Chemistry - A European Journal*, **2018**, 24, 10561-10561 4.8
- 1 Solid phase conformational analysis of a 13-membered heterocycle: 8,13-Dioxo-1,4,7-trioxacyclotridecane (diethylene glycol cyclic adipate). *Zeitschrift für Kristallographie*, **1992**, 202, 109-114