

Anna Roglans

List of Publications by Year in descending order

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101
papers

3,508
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147801

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docs citations

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times ranked

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#	ARTICLE	IF	CITATIONS
1	Diazonium Salts as Substrates in Palladium-Catalyzed Cross-Coupling Reactions. <i>Chemical Reviews</i> , 2006, 106, 4622-4643.	47.7	708
2	Direct and Highly Enantioselective Synthesis of Ferrocenes with Planar Chirality by ($\hat{\alpha}$)-Sparteine-Mediated Lithiation. <i>Journal of the American Chemical Society</i> , 1996, 118, 685-686.	13.7	264
3	Mechanistic Studies of Transition-Metal-Catalyzed [2 + 2 + 2] Cycloaddition Reactions. <i>Chemical Reviews</i> , 2021, 121, 1894-1979.	47.7	125
4	Allenes, versatile unsaturated motifs in transition-metal-catalysed [2+2+2] cycloaddition reactions. <i>Chemical Society Reviews</i> , 2016, 45, 2010-2023.	38.1	111
5	First Heck Reaction with Arenediazonium Cations with Recovery of Pd-Trioletinic Macrocyclic Catalyst. <i>Organic Letters</i> , 2003, 5, 1559-1561.	4.6	107
6	Electrospray Ionization Mass Spectrometry Detection of Intermediates in the Palladium-Catalyzed Oxidative Self-Coupling of Areneboronic Acids. <i>Journal of Organic Chemistry</i> , 1999, 64, 3592-3594.	3.2	100
7	Highly Enantioselective Electrophilic Amination and Michael Addition of Cyclic $\hat{1}$ -Ketoesters Induced by Lanthanides and (S,S)-ip-pybox: The Mechanism. <i>Journal of Organic Chemistry</i> , 2007, 72, 2077-2087.	3.2	94
8	Can the Disproportion of Oxidation State III Be Favored in Rull $\hat{2}$ /RuIVO Systems?. <i>Journal of the American Chemical Society</i> , 2006, 128, 5306-5307.	13.7	87
9	Density Functional Study of the [2+2+2] Cyclotrimerization of Acetylene Catalyzed by Wilkinson's Catalyst, RhCl(PPh ₃) ₃ . <i>Organometallics</i> , 2010, 29, 562-569.	2.3	68
10	[2+2+2] Cycloaddition Reactions of Macrocyclic Systems Catalyzed by Transition Metals. A Review. <i>Molecules</i> , 2010, 15, 9230-9251.	3.8	61
11	Transition Metal-Mediated Intramolecular [2+2+2] Cycloisomerizations of Cyclic Triynes and Eneynes. <i>Journal of Organic Chemistry</i> , 2005, 70, 2033-2041.	3.2	55
12	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> , 2007, 2007, 158-166.	2.4	52
13	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> , 2004, 689, 3669-3684.	1.8	49
14	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> , 2009, 15, 5289-5300.	3.3	49
15	Ionic and Covalent Copper(II)-Based Catalysts for Michael Additions. The Mechanism. <i>Journal of Organic Chemistry</i> , 2004, 69, 6834-6842.	3.2	48
16	The Heck-type arylation of allylic alcohols with arenediazonium salts. <i>Journal of Organometallic Chemistry</i> , 2005, 690, 3822-3826.	1.8	46
17	Stereogenic Secondary Iminophosphorane Ligands and Their Rhodium(I) Complexes: Taking Advantage of NH/PH Tautomerism. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 6951-6955.	13.8	46
18	Dendritic phosphoramidite ligands for Rh-catalyzed [2+2+2] cycloaddition reactions: unprecedented enhancement of enantiodiscrimination. <i>Chemical Communications</i> , 2012, 48, 9248.	4.1	45

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19	Allylic Substitution Mediated by Water and Palladium: An Unusual Role of a Palladium(II) Catalyst and ESI-MS Analysis. <i>Organometallics</i> , 2004, 23, 4796-4799.	2.3	44
20	Chiral N-phosphino sulfinamide ligands in rhodium(I)-catalyzed [2+2+2] cycloaddition reactions. <i>Tetrahedron</i> , 2010, 66, 9032-9040.	1.9	41
21	Palladium(0)-catalyzed allylation of highly acidic and non-nucleophilic arenesulfonamides, sulfamide, and cyanamide. I. <i>Tetrahedron</i> , 1998, 54, 14869-14884.	1.9	40
22	Chiral Induction in [2+2+2] Cycloaddition Reactions. <i>Asian Journal of Organic Chemistry</i> , 2018, 7, 1706-1718.	2.7	40
23	Dehydrogenative [2 + 2 + 2] Cycloaddition of Cyano-yne-allene Substrates: Convenient Access to 2,6-Naphthyridine Scaffolds. <i>Organic Letters</i> , 2015, 17, 2882-2885.	4.6	39
24	Synthesis of Nitrogen-Containing 15-Membered Triacetylenic Macrocycles. Stable Complex with Palladium(0). <i>Organometallics</i> , 2004, 23, 2762-2767.	2.3	37
25	Direct Detection of Key Intermediates in Rhodium(I)-Catalyzed [2+2+2] Cycloadditions of Alkynes by ESI-MS. <i>Chemistry - A European Journal</i> , 2012, 18, 13097-13107.	3.3	37
26	Enantioselective Rhodium(I) Donor Carbenoid-Mediated Cascade Triggered by a Base-Free Decomposition of Arylsulfonyl Hydrazones. <i>Chemistry - A European Journal</i> , 2015, 21, 16240-16245.	3.3	37
27	Microwave-Enhanced Rhodium-Catalyzed [2+2+2] Cycloaddition Reactions To Afford Highly Functionalized Pyridines and Bipyridines. <i>European Journal of Organic Chemistry</i> , 2010, 2010, 3407-3415.	2.4	34
28	Examining the Factors That Govern the Regioselectivity in Rhodium-Catalyzed Alkyne Cyclotrimerization. <i>Organometallics</i> , 2019, 38, 2853-2862.	2.3	34
29	Ethyl N-(diphenylmethylene)glycinate as anionic glycine equivalent. Monoalkylation, dialkylation and Michael additions under solid-liquid phase-transfer catalysis. <i>Tetrahedron</i> , 1996, 52, 8365-8386.	1.9	33
30	Palladium(0)-catalyzed allylation of highly acidic and non-nucleophilic arenesulfonamides, sulfamide, and cyanamide. II. Formation of medium and large heterocycles. <i>Tetrahedron</i> , 1998, 54, 14885-14904.	1.9	33
31	Intramolecular [2+2+2] Cycloaddition Reactions of Yne-yne and Yne-yne-yne Enediyne Catalysed by Rh ^I : Experimental and Theoretical Mechanistic Studies. <i>Chemistry - A European Journal</i> , 2011, 17, 14493-14507.	3.3	32
32	Fused tetracycles with a benzene or cyclohexadiene core: [2 + 2 + 2] cycloadditions on macrocyclic systems. <i>Chemical Communications</i> , 2008, , 4339.	4.1	31
33	Stereospecific Preparation of (E) and (Z)-3,3-Diarylacrylonitriles by Heck Reaction. <i>Synlett</i> , 1997, 1997, 1157-1158.	1.8	30
34	Rates and Mechanism of Rhodium-Catalyzed [2+2+2] Cycloaddition of Bisalkynes and a Monoalkyne. <i>Organometallics</i> , 2009, 28, 6036-6043.	2.3	28
35	Expedient Preparation of Open-Cage Fullerenes by Rhodium(I)-Catalyzed [2+2+2] Cycloaddition of Dienes and C ₆₀ : An Experimental and Theoretical Study. <i>Chemistry - A European Journal</i> , 2018, 24, 10653-10661.	3.3	28
36	15-Membered triolefinic macrocycles, their coordination chemistry with transition metals, and the catalytic properties of their palladium metal complexes. A review.. <i>Arkivoc</i> , 2004, 2004, 109-129.	0.5	28

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37	Palladium and rhodium-catalyzed intramolecular [2+2+2] cycloisomerizations in molten tetrabutylammonium bromide. <i>Tetrahedron Letters</i> , 2007, 48, 6425-6428.	1.4	26
38	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> , 2002, 43, 1425-1428.	1.4	25
39	15-Membered Triolefinic Macrocycles $\hat{\alpha}$ 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> , 2003, 2003, 274-283.	2.4	25
40	Functionalization of the 3-Position of Thiophene and Benzo[<i>b</i>]thiophene Moieties by Palladium-Catalyzed C-C Bond Forming Reactions using Diazonium Salts. <i>Advanced Synthesis and Catalysis</i> , 2011, 353, 2003-2012.	4.3	25
41	A simple catalytic system based on PdCl ₂ (CH ₃ CN) ₂ in water for cross-coupling reactions using diazonium salts. <i>Tetrahedron</i> , 2013, 69, 9761-9765.	1.9	24
42	Ene reactions between two alkynes? Doors open to thermally induced cycloisomerization of macrocyclic triynes and enediynes. <i>Chemical Communications</i> , 2010, 46, 2944.	4.1	23
43	Preparation of 3-Pyrrolidone and 4-Perhydroazepinone. <i>Synthetic Communications</i> , 1992, 22, 1249-1258.	2.1	22
44	Heck-type reactions of allylic alcohols. <i>Journal of Molecular Catalysis A</i> , 2008, 283, 140-145.	4.8	22
45	RhCl(PPh ₃) ₃ -Catalyzed Intramolecular Cycloaddition of Enediynes: The Nature of the Tether and Substituents Controls the Reaction Mechanism. <i>Organometallics</i> , 2011, 30, 3151-3159.	2.3	22
46	Rhodium-Catalyzed [2+2+2] Cycloaddition Reactions of Linear Allene-Ynes to afford Fused Tricyclic Scaffolds: Insights into the Mechanism. <i>Chemistry - A European Journal</i> , 2017, 23, 14889-14899.	3.3	22
47	Synthesis of $\hat{\alpha}$ -substituted and $\hat{\alpha},\hat{\alpha}$ -disubstituted $\hat{\alpha}$ -amino acids by controlled mono- and dialkylation of ethyl N-diphenylmethyleneglycinate. <i>Tetrahedron Letters</i> , 1993, 34, 8535-8538.	1.4	21
48	An Enantioselective Cascade Cyclopropanation Reaction Catalyzed by Rhodium(I): Asymmetric Synthesis of Vinylcyclopropanes. <i>Advanced Synthesis and Catalysis</i> , 2016, 358, 3512-3516.	4.3	21
49	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> , 2007, 31, 121-126.	2.8	20
50	The palladium(0) Suzuki cross-coupling reaction as the key step in the synthesis of aporphinoids. <i>Tetrahedron</i> , 2004, 60, 5725-5735.	1.9	19
51	Novel Homo- and Heterobimetallic Palladium(0) and Platinum(0) Complexes of Olefinic Mono-, Bis-, and Tris-macrocyclic Ligands. <i>Organometallics</i> , 2004, 23, 2533-2540.	2.3	19
52	New applications of azamacrocyclic ligands in ion recognition, transport and preconcentration of palladium. <i>Analytica Chimica Acta</i> , 2006, 560, 77-83.	5.4	19
53	Rhodium-NHC Hybrid Silica Materials as Recyclable Catalysts for [2+2+2] Cycloaddition Reactions of Alkynes. <i>European Journal of Organic Chemistry</i> , 2014, 2014, 6242-6251.	2.4	19
54	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> , 2005, 2005, 51-62.	0.5	19

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55	Fluorous aryl compounds by Matsuda's Heck reaction. <i>Tetrahedron</i> , 2011, 67, 8659-8664.	1.9	18
56	A Rh-Catalyzed Cycloisomerization/Diels-Alder Cascade Reaction of 1,5-Bisallenes for the Synthesis of Polycyclic Heterocycles. <i>Organic Letters</i> , 2019, 21, 6608-6613.	4.6	18
57	Understanding Electronic Ligand Perturbation over Successive Metal-Based Redox Potentials in Mononuclear Ruthenium-Aqua Complexes. <i>ChemPlusChem</i> , 2013, 78, 235-243.	2.8	17
58	Selective Pd(II) and Pt(IV) sorption using novel polymers containing azamacrocyclic functional groups. <i>Reactive and Functional Polymers</i> , 2008, 68, 1088-1096.	4.1	16
59	Synthesis of non-proteinogenic phenylalanine derivatives by rhodium-catalyzed [2+2+2] cycloaddition reactions. <i>Organic and Biomolecular Chemistry</i> , 2009, 7, 5020.	2.8	16
60	Computational insight into Wilkinson's complex catalyzed [2+2+2] cycloaddition mechanism leading to pyridine formation. <i>Journal of Organometallic Chemistry</i> , 2014, 768, 15-22.	1.8	15
61	Unusual reactivity of rhodium carbenes with allenes: an efficient asymmetric synthesis of methylenetetrahydropyran scaffolds. <i>Chemical Communications</i> , 2017, 53, 9922-9925.	4.1	15
62	Chiral and Stable Palladium(0) Complexes of Polyunsaturated Aza-macrocyclic Ligands: Synthesis and Structural Analysis. <i>Organometallics</i> , 2006, 25, 5612-5620.	2.3	14
63	Structural Analysis of Chiral Complexes of Palladium(0) with 15-Membered Triolefinic Macrocyclic Ligands. <i>Chemistry - A European Journal</i> , 2005, 11, 2689-2697.	3.3	13
64	Enhanced Open-Circuit Voltage in Perovskite Solar Cells with Open-Cage [60]Fullerene Derivatives as Electron-Transporting Materials. <i>Materials</i> , 2019, 12, 1314.	2.9	13
65	Syntheses, Structures and Redox Properties of New Macrocyclic Triazatriolefinic Pd(0) Complexes and Their Polypyrrole Modified Electrodes: Application to Heterogeneous Catalytic Suzuki Cross-Coupling Reactions. <i>European Journal of Inorganic Chemistry</i> , 2004, 2004, 1601-1610.	2.0	12
66	Rhodium(I)-Catalyzed [2 + 2 + 2] Cycloaddition Reactions of Triacetylenic 15-Membered Aza Macrocycles: A Comparative Structural Study. <i>Organometallics</i> , 2012, 31, 318-326.	2.3	12
67	Highly Enantioselective (S)-Sparteine-Mediated Lateral Metalation-Functionalization of Remote Silyl Protected ortho-Ethyl-N-Dialkyl Aryl-O-Carbamates. <i>Journal of Organic Chemistry</i> , 2015, 80, 3368-3386.	3.2	12
68	Ethyl-N-(diphenylmethylene)glycinate as anionic glycine equivalent transition metal mediated preparation of bicyclic and tricyclic 1,1-disubstituted amino acids and derivatives. <i>Liebigs Annalen</i> , 1995, 1995, 1807-1814.	0.8	11
69	Chiral Induction in Intramolecular Rhodium-Catalyzed [2+2+2] Cycloadditions of Optically Active Allene-ene/allene Substrates. <i>Advanced Synthesis and Catalysis</i> , 2017, 359, 506-512.	4.3	11
70	A Computational Study of the Intermolecular [2+2+2] Cycloaddition of Acetylene and C ₆₀ Catalyzed by Wilkinson's Catalyst. <i>Chemistry - A European Journal</i> , 2017, 23, 15067-15072.	3.3	11
71	Improved Preparation of Diethyl Bromomethylphosphonate and Diiodomethane-Catalyzed Triethylphosphite Michaelis-Arbuzov Isomerization. <i>Synthetic Communications</i> , 1995, 25, 191-194.	2.1	10
72	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> , 2005, 173, 305-309.	2.1	10

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73	Diels-Alder Reactions of 1,1-Disubstituted 3,4-Dimethylene-cyclopentanes. Preparation of Indanes and Diazaindanes. <i>Synthetic Communications</i> , 1993, 23, 601-612.	2.1	9
74	Nickel(0) Complexes of Polyunsaturated Azamacrocyclic Ligands. <i>Organometallics</i> , 2012, 31, 1983-1990.	2.3	9
75	The Choice of Rhodium Catalysts in [2+2+2] Cycloaddition Reaction: A Personal Account. <i>Molecules</i> , 2022, 27, 1332.	3.8	9
76	Lanthanides-pybox: An Excellent Combination for Highly Enantioselective Electrophilic α -Amination of Acyclic β -Keto Esters. Isolation of Ternary Pybox/Ln/II ² -Keto Ester Complexes. <i>ChemistrySelect</i> , 2016, 1, 4305-4312.	1.5	8
77	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> , 2016, 358, 1848-1853.	4.3	8
78	Synthesis of Fused Dihydroazepine Derivatives of Fullerenes by a Rh-Catalyzed Cascade Process. <i>Advanced Synthesis and Catalysis</i> , 2021, 363, 3835-3844.	4.3	8
79	Structural Differences between Open-Chain and Macrocyclic Triene Ligands for Palladium(0): Influence on the Stability and Catalytical Properties. <i>Organometallics</i> , 2008, 27, 5768-5776.	2.3	7
80	Highly Selective Synthesis of Seven-Membered Azaspiro Compounds by a Rh(I)-Catalyzed Cycloisomerization/Diels-Alder Cascade of 1,5-Bisallenenes. <i>Journal of Organic Chemistry</i> , 2022, 87, 5279-5286.	3.2	7
81	A new mild synthetic route to N-arylated pyridazinones from aryldiazonium salts. <i>Chemical Communications</i> , 2014, 50, 8073-8076.	4.1	6
82	Rhodium N-Heterocyclic Carbene Complexes as Effective Catalysts for [2+2+2]-Cycloaddition Reactions. <i>Synlett</i> , 2009, 2009, 2844-2848.	1.8	5
83	Nickel(0) Complexes of Acyclic Polyunsaturated Aza Ligands. <i>Organometallics</i> , 2013, 32, 1710-1720.	2.3	5
84	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> , 2005, 43, 979-984.	1.9	4
85	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. , 1999, 13, 2359-2365.		3
86	Preparation of Aniline Derivatives: An Advanced Undergraduate Laboratory Experiment Exploring Catalytic and Stoichiometric Reaction Methodologies. <i>Journal of Chemical Education</i> , 2002, 79, 731.	2.3	3
87	Preparation of 15-membered unsaturated N-H containing azamacrocycles and their differential coordination with Pd(0) and Pd(II). <i>Tetrahedron</i> , 2005, 61, 10105-10112.	1.9	3
88	A Rh(I)-Catalyzed Cascade Cyclization of 1,5-Bisallenenes and Alkynes for the Formation of cis-3,4-Arylvinyl Pyrrolidines and Cyclopentanes. <i>Advanced Synthesis and Catalysis</i> , 0, , .	4.3	3
89	Synthesis and structure of a chiral dinuclear palladium(0) complex with a 30-membered hexaolefinic macrocyclic ligand. <i>Journal of Organometallic Chemistry</i> , 2007, 692, 2997-3004.	1.8	2
90	Titelbild: P-Stereogenic Secondary Iminophosphorane Ligands and Their Rhodium(I) Complexes: Taking Advantage of NH/PH Tautomerism (<i>Angew. Chem.</i> 28/2012). <i>Angewandte Chemie</i> , 2012, 124, 6901-6901.	2.0	1

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91	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.	1.1	0
92	First Heck Reaction with Arenediazonium Cations with Recovery of Pd-Triolefinic Macrocylic Catalyst.. ChemInform, 2003, 34, no.	0.0	0
93	Synthesis of Nitrogen-Containing 15-Membered Triacetylenic Macrocylics. Stable Complex with Palladium(0).. ChemInform, 2004, 35, no.	0.0	0
94	15-Membered Triolefinic Macrocylics, Their Coordination Chemistry with Transition Metals, and the Catalytic Properties of Their Palladium Metal Complexes.. ChemInform, 2004, 35, no.	0.0	0
95	Ionic and Covalent Copper(II)-Based Catalysts for Michael Additions. The Mechanism.. ChemInform, 2005, 36, no.	0.0	0
96	The Heck-Type Arylation of Allylic Alcohols with Arenediazonium Salts.. ChemInform, 2005, 36, no.	0.0	0
97	New Unsaturated Azamacrocyclic Eneidyne: Synthesis, Structural Analysis and Thermal Behavior. Synlett, 2006, 2006, 3041-3044.	1.8	0
98	Expeditious Preparation of Open-Cage Fullerenes by Rhodium(I)-Catalyzed [2+2+2] Cycloaddition of Diynes and C60 : An Experimental and Theoretical Study. Chemistry - A European Journal, 2018, 24, 10561-10561.	3.3	0
99	Synthesis and characterization of novel homo- and heterobimetallic palladium(0) and platinum(0) complexes of olefinic bismacrocylic ligands. Arkivoc, 2009, 2010, 203-215.	0.5	0
100	(Invited) Preparation of Open-Cage Fullerene Derivatives By Rhodium(I)-Catalyzed [2+2+2] Cycloaddition of Diynes and C60: Synthesis, Computational Studies and Application in Perovskite Solar Cells. ECS Meeting Abstracts, 2020, MA2020-01, 786-786.	0.0	0
101	Cyclotrimerization takes orders from rhodium. , 0, , .		0