

Christian Frech

List of Publications by Year in descending order

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36
papers

1,446
citations

257450

24
h-index

330143

37
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49
all docs

49
docs citations

49
times ranked

1760
citing authors

#	ARTICLE	IF	CITATIONS
1	Development of Rhenium Catalysts for Amine Borane Dehydrocoupling and Transfer Hydrogenation of Olefins. <i>Organometallics</i> , 2009, 28, 5493-5504.	2.3	111
2	Short, Facile, and High-Yielding Synthesis of Extremely Efficient Pincer-Type Suzuki Catalysts Bearing Aminophosphine Substituents. <i>Angewandte Chemie - International Edition</i> , 2007, 46, 6514-6517.	13.8	93
3	Direct Observation of Reductive Elimination of Methyl Iodide from a Rhodium(III) Pincer Complex: The Importance of Sterics. <i>Journal of the American Chemical Society</i> , 2006, 128, 12434-12435.	13.7	91
4	Rationally Designed Pincer-Type Heck Catalysts Bearing Aminophosphine Substituents: Pd ^{IV} Intermediates and Palladium Nanoparticles. <i>Chemistry - A European Journal</i> , 2008, 14, 7969-7977.	3.3	82
5	Highly Convenient, Clean, Fast, and Reliable Sonogashira Coupling Reactions Promoted by Aminophosphine-Based Pincer Complexes of Palladium Performed under Additive- and Amine-Free Reaction Conditions. <i>Advanced Synthesis and Catalysis</i> , 2009, 351, 891-902.	4.3	69
6	Dichlorobis(aminophosphine) Complexes of Palladium: Highly Convenient, Reliable and Extremely Active Suzuki-Miyaura Catalysts with Excellent Functional Group Tolerance. <i>Chemistry - A European Journal</i> , 2010, 16, 4075-4081.	3.3	62
7	Redox-Induced Collapse and Regeneration of a Pincer-Type Complex Framework: A Nonplanar Coordination Mode of Palladium(II). <i>Angewandte Chemie - International Edition</i> , 2005, 44, 1709-1711.	13.8	61
8	The 1,3-Diaminobenzene-Derived Aminophosphine Palladium Pincer Complex {C ₆ H ₃ [NHP(piperidinyl)] ₂] ₂ Pd(Cl)} – A Highly Active Suzuki-Miyaura Catalyst with Excellent Functional Group Tolerance. <i>Advanced Synthesis and Catalysis</i> , 2010, 352, 1075-1080.	4.3	60
9	Highly Selective Dehydrogenative Silylation of Alkenes Catalyzed by Rhenium Complexes. <i>Chemistry - A European Journal</i> , 2009, 15, 2121-2128.	3.3	57
10	Transition metal-free amination of aryl halides – A simple and reliable method for the efficient and high-yielding synthesis of N-arylated amines. <i>Tetrahedron</i> , 2009, 65, 1180-1187.	1.9	56
11	Alkyne Hydrothiolation Catalyzed by a Dichlorobis(aminophosphine) Complex of Palladium: Selective Formation of <i>cis</i> -Configured Vinyl Thioethers. <i>Chemistry - A European Journal</i> , 2012, 18, 8901-8905.	3.3	56
12	Suzuki Cross-Coupling Reactions Catalyzed by an Aliphatic Phosphine-Based Pincer Complex of Palladium: Evidence for a Molecular Mechanism. <i>ChemCatChem</i> , 2009, 1, 393-400.	3.7	54
13	Cyanation of Aryl Bromides with K ₄ [Fe(CN) ₆] Catalyzed by Dichloro[bis(1-(dicyclohexylphosphanyl)piperidine)]palladium, a Molecular Source of Nanoparticles, and the Reactions Involved in the Catalyst Deactivation Processes. <i>Chemistry - A European Journal</i> , 2012, 18, 2978-2986.	3.3	45
14	Pincer-Type Heck Catalysts and Mechanisms Based on Pd ^{IV} Intermediates: A Computational Study. <i>Chemistry - A European Journal</i> , 2010, 16, 1521-1531.	3.3	44
15	[Pd(Cl) ₂ {P(NC ₅ H ₁₀)(C ₆ H ₁₁) ₂ }] ₂ – A Highly Effective and Extremely Versatile Palladium-Based Negishi Catalyst that Efficiently and Reliably Operates at Low Catalyst Loadings. <i>Chemistry - A European Journal</i> , 2010, 16, 11072-11081.	3.3	44
16	Access to 2-Aminopyridines – Compounds of Great Biological and Chemical Significance. <i>Advanced Synthesis and Catalysis</i> , 2011, 353, 945-954.	4.3	37
17	Observation of Binuclear Palladium Clusters upon ESI-MS Monitoring of the Suzuki-Miyaura Cross-Coupling Catalyzed by a Dichloro-bis(aminophosphine) Complex of Palladium. <i>Organometallics</i> , 2011, 30, 3579-3587.	2.3	36
18	Unprecedented ROMP Activity of Low-Valent Rhenium-Nitrosyl Complexes: Mechanistic Evaluation of an Electrophilic Olefin Metathesis System. <i>Chemistry - A European Journal</i> , 2006, 12, 3325-3338.	3.3	35

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19	P ³⁺ and P ²⁺ Palladium(II) Hydride Pincer Complexes: Small Difference—Large Effect on Reactivity. <i>Chemistry - A European Journal</i> , 2010, 16, 6771-6775.	3.3	34
20	Negishi cross-coupling reaction catalyzed by an aliphatic, phosphine based pincer complex of palladium. biaryl formation via cationic pincer-type PdIV intermediates. <i>Dalton Transactions</i> , 2011, 40, 8996.	3.3	30
21	Unsaturated Rh(I) and Rh(III) Naphthyl-Based PCP Complexes. Major Steric Effect on Reactivity. <i>Organometallics</i> , 2009, 28, 1900-1908.	2.3	29
22	Negishi Cross-Coupling Reactions Catalyzed by an Aminophosphine-Based Nickel System: A Reliable and General Applicable Reaction Protocol for the High-Yielding Synthesis of Biaryls. <i>Chemistry - A European Journal</i> , 2011, 17, 11893-11904.	3.3	29
23	Mizoroki-Heck Reactions Catalyzed by Dichloro{bis[1-(dicyclohexylphosphanyl)piperidine]}palladium: Palladium Nanoparticle Formation Promoted by (Water-Induced) Ligand Degradation. <i>Advanced Synthesis and Catalysis</i> , 2012, 354, 627-641.	4.3	26
24	Metal-Controlled Reactivity of a Pincer-type, η^2 -Coordinated Naphthyl Radical Anion. <i>Journal of the American Chemical Society</i> , 2006, 128, 7128-7129.	13.7	24
25	From Alkynes to Carbenes Mediated by [Re(Br)(H)(NO)(PR ₃) ₂] (R = Cy, iPr) Complexes. <i>Organometallics</i> , 2009, 28, 4670-4680.	2.3	24
26	Hydrolysis of Ammonia Borane Catalyzed by Aminophosphine-Stabilized Precursors of Rhodium Nanoparticles: Ligand Effects and Solvent-Controlled Product Formation. <i>Chemistry - A European Journal</i> , 2011, 17, 4732-4736.	3.3	24
27	Mizoroki-Heck reactions catalyzed by palladium dichloro-bis(aminophosphine) complexes under mild reaction conditions. The importance of ligand composition on the catalytic activity. <i>Green Chemistry</i> , 2013, 15, 1678.	9.0	22
28	Methylene Transfer from SnMe Groups Mediated by a Rhodium(I) Pincer Complex: Sn η^2 C, C η^2 C, and C η^2 H Bond Activation. <i>Chemistry - A European Journal</i> , 2007, 13, 7501-7509.	3.3	20
29	Ligand controlled dioxygen oxidation of rhenium nitrosyl complexes. <i>Dalton Transactions</i> , 2006, , 4590.	3.3	19
30	Facile Synthetic Access to Rhenium(II) Complexes: Activation of Carbon-Bromine Bonds by Single-Electron Transfer. <i>Chemistry - A European Journal</i> , 2010, 16, 2240-2249.	3.3	17
31	Processes Involved in the Reduction of a Cyclometalated Palladium(II) Complex. <i>Organometallics</i> , 2008, 27, 894-899.	2.3	11
32	Water soluble phosphine rhenium complexes. <i>Journal of Organometallic Chemistry</i> , 2010, 695, 487-494.	1.8	11
33	Aminophosphine Palladium Pincer Complexes for Suzuki and Heck Reactions. <i>Chimia</i> , 2009, 63, 23.	0.6	5
34	Reactions within Molecular Single Crystals of Inorganic and Organometallic Compounds: Recent Advances and Implications for Catalysis. <i>ChemCatChem</i> , 2010, 2, 1387-1389.	3.7	5
35	Bis[2,6-bis(dipiperidin-1-ylphosphanyloxy)phenyl]bromidopalladium(II). <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2007, 63, m3086-m3086.	0.2	1
36	Mizoroki-Heck Cross-coupling Reactions Catalyzed by Dichloro{bis[1,1',1''-(phosphinetriyl)tripiperidine]}palladium Under Mild Reaction Conditions. <i>Journal of Visualized Experiments</i> , 2014, , .	0.3	0