

Kevin H Shaughnessy

List of Publications by Year in descending order

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73
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4,711
citations

159358

30
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98622

67
g-index

104
all docs

104
docs citations

104
times ranked

3816
citing authors

#	ARTICLE	IF	CITATIONS
1	Room-Temperature Palladium-Catalyzed Amination of Aryl Bromides and Chlorides and Extended Scope of Aromatic C-N Bond Formation with a Commercial Ligand. <i>Journal of Organic Chemistry</i> , 1999, 64, 5575-5580.	1.7	742
2	Hydrophilic Ligands and Their Application in Aqueous-Phase Metal-Catalyzed Reactions. <i>Chemical Reviews</i> , 2009, 109, 643-710.	23.0	457
3	A Fluorescence-Based Assay for High-Throughput Screening of Coupling Reactions. Application to Heck Chemistry. <i>Journal of the American Chemical Society</i> , 1999, 121, 2123-2132.	6.6	288
4	Palladium-Catalyzed Inter- and Intramolecular α -Arylation of Amides. Application of Intramolecular Amide Arylation to the Synthesis of Oxindoles. <i>Journal of Organic Chemistry</i> , 1998, 63, 6546-6553.	1.7	274
5	Aqueous-Phase, Palladium-Catalyzed Cross-Coupling of Aryl Bromides under Mild Conditions, Using Water-Soluble, Sterically Demanding Alkylphosphines. <i>Journal of Organic Chemistry</i> , 2004, 69, 7919-7927.	1.7	221
6	Screening of Homogeneous Catalysts by Fluorescence Resonance Energy Transfer. Identification of Catalysts for Room-Temperature Heck Reactions. <i>Journal of the American Chemical Society</i> , 2001, 123, 2677-2678.	6.6	220
7	Efficient One-Step Suzuki Arylation of Unprotected Halonucleosides, Using Water-Soluble Palladium Catalysts. <i>Journal of Organic Chemistry</i> , 2003, 68, 6767-6774.	1.7	188
8	Palladium-Catalyzed Cross-Coupling in Aqueous Media: Recent Progress and Current Applications. <i>Current Organic Chemistry</i> , 2005, 9, 585-604.	0.9	175
9	Sterically Demanding, Water-Soluble Alkylphosphines as Ligands for High Activity Suzuki Coupling of Aryl Bromides in Aqueous Solvents. <i>Organic Letters</i> , 2001, 3, 2757-2759.	2.4	159
10	Beyond TPPTS: New Approaches to the Development of Efficient Palladium-Catalyzed Aqueous-Phase Cross-Coupling Reactions. <i>European Journal of Organic Chemistry</i> , 2006, 2006, 1827-1835.	1.2	148
11	Efficient Aqueous-Phase Heck and Suzuki Couplings of Aryl Bromides Using Tri(4,6-dimethyl-3- <i>Tj</i> ETQq1 1 0.784314 rgBT /Oyerklock 10	2.4	137
12	Water-Soluble Palladacycles as Precursors to Highly Recyclable Catalysts for the Suzuki Coupling of Aryl Bromides in Aqueous Solvents. <i>Organometallics</i> , 2006, 25, 4105-4112.	1.1	126
13	Synthesis and X-ray Structure Determination of Highly Active Pd(II), Pd(I), and Pd(0) Complexes of Di(<i>tert</i> -butyl)neopentylphosphine (DTBNpP) in the Arylation of Amines and Ketones. <i>Journal of Organic Chemistry</i> , 2010, 75, 6477-6488.	1.7	113
14	Synthesis and Characterization of Water-Soluble Silver and Palladium Imidazol-2-ylidene Complexes with Noncoordinating Anionic Substituents. <i>Organometallics</i> , 2006, 25, 5151-5158.	1.1	99
15	Bulky Alkylphosphines with Neopentyl Substituents as Ligands in the Amination of Aryl Bromides and Chlorides. <i>Journal of Organic Chemistry</i> , 2006, 71, 5117-5125.	1.7	94
16	Trineopentylphosphine: A Conformationally Flexible Ligand for the Coupling of Sterically Demanding Substrates in the Buchwald-Hartwig Amination and Suzuki-Miyaura Reaction. <i>Journal of Organic Chemistry</i> , 2013, 78, 4649-4664.	1.7	85
17	Sterically Demanding, Sulfonated, Triarylphosphines: Application to Palladium-Catalyzed Cross-Coupling, Steric and Electronic Properties, and Coordination Chemistry. <i>Organometallics</i> , 2008, 27, 576-593.	1.1	79
18	Palladium-Catalyzed Modification of Unprotected Nucleosides, Nucleotides, and Oligonucleotides. <i>Molecules</i> , 2015, 20, 9419-9454.	1.7	77

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19	Carbometalation of α,ω -Dienes and Olefins Catalyzed by Zirconocenes. <i>Journal of the American Chemical Society</i> , 1995, 117, 5873-5874.	6.6	69
20	Polar, non-coordinating ionic liquids as solvents for the alternating copolymerization of styrene and CO catalyzed by cationic palladium catalysts. Electronic supplementary information (ESI) available: experimental details. See http://www.rsc.org/suppdata/cc/b2/b203367d/ . <i>Chemical Communications</i> , 2002, , 1394-1395.	2.2	67
21	Inhibitory Effects of the Guanine Moiety on Suzuki Couplings of Unprotected Halonucleosides in Aqueous Media. <i>Journal of Organic Chemistry</i> , 2005, 70, 6378-6388.	1.7	58
22	Neopentylphosphines as effective ligands in palladium-catalyzed cross-couplings of aryl bromides and chlorides. <i>Tetrahedron</i> , 2008, 64, 6920-6934.	1.0	58
23	Experimental and Computational Study of Steric and Electronic Effects on the Coordination of Bulky, Water-Soluble Alkylphosphines to Palladium under Reducing Conditions: Correlation to Catalytic Activity. <i>Organometallics</i> , 2005, 24, 962-971.	1.1	54
24	Enantio- and Diastereoselective Catalytic Carboalumination of 1-Alkenes and $\hat{I},\hat{I}\%$ -Dienes with Cationic Zirconocenes: Scope and Mechanism. <i>Organometallics</i> , 1998, 17, 5728-5745.	1.1	51
25	Palladium-catalyzed hydroesterification of styrene derivatives in the presence of ionic liquids. <i>Journal of Organometallic Chemistry</i> , 2005, 690, 3620-3626.	0.8	51
26	Development of Palladium Precatalysts that Efficiently Generate LPd(0) Active Species. <i>Israel Journal of Chemistry</i> , 2020, 60, 180-194.	1.0	51
27	<i>t</i> -Bu-Amphosâ€‘RhCl ₃ ·3H ₂ O: a highly recyclable catalyst system for the cross-coupling of aldehydes and aryl- and alkenylboronic acids in aqueous solvents. <i>Chemical Communications</i> , 2005, , 4484.	2.2	36
28	Controlling Olefin Isomerization in the Heck Reaction with Neopentyl Phosphine Ligands. <i>Journal of Organic Chemistry</i> , 2014, 79, 10837-10848.	1.7	36
29	Synthesis, Properties, and NMR Studies of a C ₈ -Phenylguanine Modified Oligonucleotide that Preferentially Adopts the Z DNA Conformation. <i>Chemical Research in Toxicology</i> , 2003, 16, 1385-1394.	1.7	33
30	Efficient Sonogashira Coupling of Unprotected Halonucleosides in Aqueous Solvents Using Waterâ€‘Soluble Palladium Catalysts. <i>European Journal of Organic Chemistry</i> , 2010, 2010, 3678-3683.	1.2	31
31	Stereospecific Suzuki, Sonogashira, and Negishi Coupling Reactions of <i><i>N</i></i> -Alkoxyimidoyl Iodides and Bromides. <i>Journal of Organic Chemistry</i> , 2013, 78, 3676-3687.	1.7	29
32	A Trialkylphosphine-Derived Palladacycle as a Catalyst in the Selective Cross-Dimerization of Terminal Arylacetylenes with Terminal Propargyl Alcohols and Amides. <i>ACS Catalysis</i> , 2016, 6, 5834-5842.	5.5	26
33	Mechanistic Study of the Role of Substrate Steric Effects and Aniline Inhibition on the Bis(trineopentylphosphine)palladium(0)-Catalyzed Arylation of Aniline Derivatives. <i>ACS Catalysis</i> , 2017, 7, 2516-2527.	5.5	24
34	Prediction of Reliable Metalâ€‘PH ₃ Bond Energies for Ni, Pd, and Pt in the 0 and +2 Oxidation States. <i>Inorganic Chemistry</i> , 2010, 49, 5546-5553.	1.9	21
35	Diâ€‘ <i>tert</i> -butylneopentylphosphine (DTBNpP): An Efficient Ligand in the Palladiumâ€‘Catalyzed $\hat{I},\hat{I}\%$ -Arylation of Ketones. <i>European Journal of Organic Chemistry</i> , 2014, 2014, 7395-7404.	1.2	20
36	Arylation of diethyl malonate and ethyl cyanoacetate catalyzed by palladium/di- <i>tert</i> -butylneopentylphosphine. <i>Tetrahedron Letters</i> , 2015, 56, 3447-3450.	0.7	20

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37	Di- <i>t</i> -butyl(ferrocenylmethyl)phosphine: air-stability, structural characterization, coordination chemistry, and application to palladium-catalyzed cross-coupling reactions. <i>Journal of Organometallic Chemistry</i> , 2005, 690, 1478-1486.	0.8	19
38	A General Synthesis of C8-Arylpurine Phosphoramidites. <i>Molecules</i> , 2009, 14, 3339-3352.	1.7	19
39	The conformational effect of para-substituted C8-arylguanine adducts on the B/Z-DNA equilibrium. <i>Biophysical Chemistry</i> , 2011, 154, 41-48.	1.5	19
40	Kinetic study of the oxidative addition of methyl iodide to Vaska's complex in ionic liquids. <i>Journal of Organometallic Chemistry</i> , 2005, 690, 3522-3528.	0.8	16
41	Regioselective Cyclocarboxylation of Nonconjugated Dienes to Cyclic Keto Esters. <i>Organometallics</i> , 1997, 16, 1001-1007.	1.1	15
42	Influence of water on the deprotonation and the ionic mechanisms of a Heck alkyne arylation and its resultant E-factors. <i>Reaction Chemistry and Engineering</i> , 2016, 1, 65-72.	1.9	15
43	Enolizable Ketones as Activators of Palladium(II) Precatalysts in Amine Arylation Reactions. <i>ACS Catalysis</i> , 2020, 10, 4127-4135.	5.5	15
44	Synthesis of 4-sulfonatobenzylphosphines and their application in aqueous-phase palladium-catalyzed cross-coupling. <i>Journal of Organometallic Chemistry</i> , 2015, 777, 16-24.	0.8	12
45	A Facile Method for the Preparation of Functionalized 2-Halo-1-olefins. <i>Synthetic Communications</i> , 1993, 23, 525-529.	1.1	11
46	Promoting effect of ionic liquids on ligand substitution reactions. <i>Journal of Organometallic Chemistry</i> , 2005, 690, 3540-3545.	0.8	11
47	Kinetic Analysis of Aqueous-Phase Pd-Catalyzed, Cu-Free Direct Arylation of Terminal Alkynes Using a Hydrophilic Ligand. <i>Organic Process Research and Development</i> , 2013, 17, 1262-1271.	1.3	11
48	Palladium-catalyzed ortho-halogenation of diaryl oxime ethers. <i>Tetrahedron Letters</i> , 2014, 55, 4801-4806.	0.7	11
49	Monodentate Trialkylphosphines: Privileged Ligands in Metal-catalyzed Crosscoupling Reactions. <i>Current Organic Chemistry</i> , 2020, 24, 231-264.	0.9	11
50	Air-Stable [(R) ₃ P]PdCl ₂ Complexes of Neopentylphosphines as Cross-Coupling Precatalysts: Catalytic Application and Mechanism of Catalyst Activation and Deactivation. <i>Organometallics</i> , 2018, 37, 1410-1424.	1.1	10
51	[closo-B ₁₀ H ₈ -1,10-(CN) ₂] ²⁻ as a Conduit of Electronic Effects: Comparative Studies of Fe-Fe Communication in [(<i>η</i> -5-Cp)(dppe)Fe] ₂ { <i>η</i> -4-(NC-X-CN)] ⁿ⁺ (<i>n</i> = 0, 2). <i>Organometallics</i> , 2021, 40, 2504-2515.	1.1	10
52	Synthesis, Structural Characterization, and Coordination Chemistry of (Trineopentylphosphine)palladium(aryl)bromide Dimer Complexes [(<i>Np</i>) ₃ P]Pd(Ar)Br ₂ . <i>Inorganic Chemistry</i> , 2019, 58, 13299-13313.	1.9	8
53	ACID-MEDIATED, CHROMIUM-CATALYZED ALLYLATION OF ALDEHYDES. <i>Synthetic Communications</i> , 2002, 32, 1923-1928.	1.1	6
54	Aqueous-Phase Heck Coupling of 5-Iodouridine and Alkenes under Phosphine-Free Conditions. <i>Synlett</i> , 2011, 2011, 2963-2966.	1.0	5

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55	Palladium Theory of Aqueous-Phase Heck Alkynylations for Intensification of Discovery and Manufacture. <i>Chemical Engineering and Technology</i> , 2015, 38, 1717-1725.	0.9	5
56	Effect of Aryl Ligand Identity on Catalytic Performance of Trineopentylphosphine Arylpalladium Complexes in <i>N</i> -Arylation Reactions. <i>Organometallics</i> , 2020, 39, 3618-3627.	1.1	4
57	A selective and tin-free Pd-catalyzed phenylselenylation of aryl bromides. <i>Main Group Chemistry</i> , 2007, 6, 201-214.	0.4	3
58	Sterically Demanding, Zwitterionic Trialkylphosphonium Sulfonates as Air-Stable Ligand Precursors for Efficient Palladium-Catalyzed Cross-Couplings of Aryl Bromides and Chlorides. <i>Synthesis</i> , 2008, 2008, 1965-1970.	1.2	3
59	Aqueous-Phase Sonogashira Alkynylation to Synthesize 5-Substituted Pyrimidine and 8-Substituted Purine Nucleosides. <i>Current Protocols in Nucleic Acid Chemistry</i> , 2012, 49, Unit1.27.	0.5	3
60	Experimental and Computational Study of the Structure, Steric Properties, and Binding Equilibria of Neopentylphosphine Palladium Complexes. <i>Inorganic Chemistry</i> , 2020, 59, 5579-5592.	1.9	3
61	Copolymerization of transition metal salen complexes and conversion into metal nanoparticles supported on hierarchically porous carbon monoliths: a one pot synthesis. <i>Journal of Sol-Gel Science and Technology</i> , 2017, 84, 258-273.	1.1	3
62	Polar, Non-Coordinating Ionic Liquids as Solvents for Coordination Polymerization of Olefins. <i>ACS Symposium Series</i> , 2003, , 300-313.	0.5	2
63	Formation and Applications of Hierarchically Porous Carbon, Metals and Metal Oxides Formed by Nanocasting. <i>Materials Research Society Symposia Proceedings</i> , 2012, 1389, 18.	0.1	1
64	CHAPTER 14. Greener Approaches to Cross-Coupling. <i>RSC Catalysis Series</i> , 0, , 645-696.	0.1	1
65	Application of Water-Soluble Palladium-Catalyst Systems for Introduction of C C Bonds in Nucleosides. , 2018, , 247-268.		1
66	Introduction of Water-Solubility in Palladacycles and Their Catalytic Applications. , 2019, , 225-247.		1
67	How addition of a nickel cyclohexyl-salen complex impacts a one-pot synthesis of nickel/hierarchically porous carbon monolith catalyst. <i>Journal of Sol-Gel Science and Technology</i> , 2021, 97, 106-116.	1.1	1
68	Efficient Aqueous-Phase Heck and Suzuki Couplings of Aryl Bromides Using Tri(4,6-dimethyl-3-sulfonatophenyl)phosphine Trisodium Salt (TXPTS).. <i>ChemInform</i> , 2004, 35, no.	0.1	0
69	Aqueous-Phase, Palladium-Catalyzed Cross-Coupling of Aryl Bromides under Mild Conditions, Using Water-Soluble, Sterically Demanding Alkylphosphines.. <i>ChemInform</i> , 2005, 36, no.	0.1	0
70	Di- <i>t</i> -butyl(ferrocenylmethyl)phosphine: Air-Stability, Structural Characterization, Coordination Chemistry, and Application to Palladium-Catalyzed Cross-Coupling Reactions.. <i>ChemInform</i> , 2005, 36, no.	0.1	0
71	Palladium-Catalyzed Cross-Coupling in Aqueous Media: Recent Progress and Current Applications. <i>ChemInform</i> , 2005, 36, no.	0.1	0
72	<i>t</i> -Bu-Amphosâ€”RhCl ₃ ·3H ₂ O: A Highly Recyclable Catalyst System for the Cross-Coupling of Aldehydes and Aryl- and Alkenylboronic Acids in Aqueous Solvents.. <i>ChemInform</i> , 2006, 37, no.	0.1	0

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73	Screening of Homogeneous Catalysts by Fluorescence Resonance Energy Transfer. Identification of Catalysts for Room-Temperature Heck Reactions.. ChemInform, 2001, 32, 91-91.	0.1	0