Kevin H Shaughnessy

List of Publications by Year
in descending order

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73 papers	4,711 citations	159358 30 h-index	98622 67 g-index
104 all docs	104 docs citations	104 times ranked	3816 citing authors

#	Article	IF	Citations
1	How addition of a nickel cyclohexyl-salen complex impacts a one-pot synthesis of nickel/hierarchically porous carbon monolith catalyst. Journal of Sol-Gel Science and Technology, 2021, 97, 106-116.	1.1	1
2	[closo-B₁₀H₈-1,10-(CN)₂]^{2â€“} as a Conduit of Electronic Effects: Comparative Studies of FeÂ·Â·Fe Communication in [{(Î·⁵-Cp)(dppe)Fe}₂{Î¼₂-(NC-X-CN)}]ⁿ⁺ (n = 0, 2). Organometallics, 2021, 40, 2504-2515.	1.1	10
3	Development of Palladium Precatalysts that Efficiently Generate LPd(0) Active Species. Israel Journal of Chemistry, 2020, 60, 180-194.	1.0	51
4	Effect of Aryl Ligand Identity on Catalytic Performance of Trineopentylphosphine Arylpalladium Complexes in N-Arylation Reactions. Organometallics, 2020, 39, 3618-3627.	1.1	4
5	Enolizable Ketones as Activators of Palladium(II) Precatalysts in Amine Arylation Reactions. ACS Catalysis, 2020, 10, 4127-4135.	5.5	15
6	Experimental and Computational Study of the Structure, Steric Properties, and Binding Equilibria of Neopentylphosphine Palladium Complexes. Inorganic Chemistry, 2020, 59, 5579-5592.	1.9	3
7	Monodentate Trialkylphosphines: Privileged Ligands in Metal-catalyzed Crosscoupling Reactions. Current Organic Chemistry, 2020, 24, 231-264.	0.9	11
8	Introduction of Water-Solubility in Palladacycles and Their Catalytic Applications. , 2019, , 225-247.		1
9	Synthesis, Structural Characterization, and Coordination Chemistry of (Trineopentylphosphine)palladium(aryl)bromide Dimer Complexes ([(Np₃P)Pd(Ar)Br]₂). Inorganic Chemistry, 2019, 58, 13299-13313.	1.9	8
10	Air-Stable [(R₃P)PdCl₂]₂Complexes of Neopentylphosphines as Cross-Coupling Precatalysts: Catalytic Application and Mechanism of Catalyst Activation and Deactivation. Organometallics, 2018, 37, 1410-1424.	1.1	10
11	Application of Water-Soluble Palladium-Catalyst Systems for Introduction of C C Bonds in Nucleosides. , 2018, , 247-268.		1
12	Mechanistic Study of the Role of Substrate Steric Effects and Aniline Inhibition on the Bis(trineopentylphosphine)palladium(0)-Catalyzed Arylation of Aniline Derivatives. ACS Catalysis, 2017, 7, 2516-2527.	5.5	24
13	Copolymerization of transition metal salen complexes and conversion into metal nanoparticles supported on hierarchically porous carbon monoliths: a one pot synthesis. Journal of Sol-Gel Science and Technology, 2017, 84, 258-273.	1.1	3
14	A Trialkylphosphine-Derived Palladacycle as a Catalyst in the Selective Cross-Dimerization of Terminal Arylacetylenes with Terminal Propargyl Alcohols and Amides. ACS Catalysis, 2016, 6, 5834-5842.	5.5	26
15	Influence of water on the deprotonation and the ionic mechanisms of a Heck alkynylation and its resultant E-factors. Reaction Chemistry and Engineering, 2016, 1, 65-72.	1.9	15
16	Palladium Theory of Aqueousâ€Phase Heck Alkynylations for Intensification of Discovery and Manufacture. Chemical Engineering and Technology, 2015, 38, 1717-1725.	0.9	5
17	Palladium-Catalyzed Modification of Unprotected Nucleosides, Nucleotides, and Oligonucleotides. Molecules, 2015, 20, 9419-9454.	1.7	77
18	Arylation of diethyl malonate and ethyl cyanoacetate catalyzed by palladium/di-tert-butylneopentylphosphine. Tetrahedron Letters, 2015, 56, 3447-3450.	0.7	20

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19	Synthesis of 4-sulfonatobenzylphosphines and their application in aqueous-phase palladium-catalyzed cross-coupling. Journal of Organometallic Chemistry, 2015, 777, 16-24.	0.8	12
20	Diâ€‹tertâ€‹butylneopentylphosphine (DTBNpP): An Efficient Ligand in the Palladiumâ€‹Catalyzed Î±â€‹Arylation of Ketones. European Journal of Organic Chemistry, 2014, 2014, 7395-7404.	1.2	20
21	Controlling Olefin Isomerization in the Heck Reaction with Neopentyl Phosphine Ligands. Journal of Organic Chemistry, 2014, 79, 10837-10848.	1.7	36
22	Palladium-catalyzed ortho-halogenation of diaryl oxime ethers. Tetrahedron Letters, 2014, 55, 4801-4806.	0.7	11
23	Kinetic Analysis of Aqueous-Phase Pd-Catalyzed, Cu-Free Direct Arylation of Terminal Alkynes Using a Hydrophilic Ligand. Organic Process Research and Development, 2013, 17, 1262-1271.	1.3	11
24	Stereospecific Suzuki, Sonogashira, and Negishi Coupling Reactions of N-Alkoxyimidoyl Iodides and Bromides. Journal of Organic Chemistry, 2013, 78, 3676-3687.	1.7	29
25	Trineopentylphosphine: A Conformationally Flexible Ligand for the Coupling of Sterically Demanding Substrates in the Buchwaldâ€“Hartwig Amination and Suzukiâ€“Miyaura Reaction. Journal of Organic Chemistry, 2013, 78, 4649-4664.	1.7	85
26	Formation and Applications of Hierarchically Porous Carbon, Metals and Metal Oxides Formed by Nanocasting. Materials Research Society Symposia Proceedings, 2012, 1389, 18.	0.1	1
27	Aqueousâ€‹Phase Sonogashira Alkynylation to Synthesize 5â€‹Substituted Pyrimidine and 8â€‹Substituted Purine Nucleosides. Current Protocols in Nucleic Acid Chemistry, 2012, 49, Unit1.27.	0.5	3
28	The conformational effect of para-substituted C8-arylguanine adducts on the B/Z-DNA equilibrium. Biophysical Chemistry, 2011, 154, 41-48.	1.5	19
29	Aqueous-Phase Heck Coupling of 5-Iodouridine and Alkenes under Phosphine-Free Conditions. Synlett, 2011, 2011, 2963-2966.	1.0	5
30	Efficient Sonogashira Coupling of Unprotected Halonucleosides in Aqueous Solvents Using Waterâ€‹Soluble Palladium Catalysts. European Journal of Organic Chemistry, 2010, 2010, 3678-3683.	1.2	31
31	Synthesis and X-ray Structure Determination of Highly Active Pd(II), Pd(I), and Pd(0) Complexes of Di(tert-butyl)neopentylphosphine (DTBNpP) in the Arylation of Amines and Ketones. Journal of Organic Chemistry, 2010, 75, 6477-6488.	1.7	113
32	Prediction of Reliable Metalâ^’PH₃ Bond Energies for Ni, Pd, and Pt in the 0 and +2 Oxidation States. Inorganic Chemistry, 2010, 49, 5546-5553.	1.9	21
33	A General Synthesis of C8-Arylpurine Phosphoramidites. Molecules, 2009, 14, 3339-3352.	1.7	19
34	Hydrophilic Ligands and Their Application in Aqueous-Phase Metal-Catalyzed Reactions. Chemical Reviews, 2009, 109, 643-710.	23.0	457
35	Neopentylphosphines as effective ligands in palladium-catalyzed cross-couplings of aryl bromides and chlorides. Tetrahedron, 2008, 64, 6920-6934.	1.0	58
36	Sterically Demanding, Sulfonated, Triarylphosphines: Application to Palladium-Catalyzed Cross-Coupling, Steric and Electronic Properties, and Coordination Chemistry. Organometallics, 2008, 27, 576-593.	1.1	79

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37	Sterically Demanding, Zwitterionic Trialkylphosphonium Sulfonates as Air-Stable Ligand Precursors for Efficient Palladium-Catalyzed Cross-Couplings of Aryl Bromides and Chlorides. Synthesis, 2008, 2008, 1965-1970.	1.2	3
38	A selective and tin-free Pd-catalyzed phenylselenylation of aryl bromides. Main Group Chemistry, 2007, 6, 201-214.	0.4	3
39	Synthesis and Characterization of Water-Soluble Silver and Palladium Imidazol-2-ylidene Complexes with Noncoordinating Anionic Substituents. Organometallics, 2006, 25, 5151-5158.	1.1	99
40	Bulky Alkylphosphines with Neopentyl Substituents as Ligands in the Amination of Aryl Bromides and Chlorides. Journal of Organic Chemistry, 2006, 71, 5117-5125.	1.7	94
41	Water-Soluble Palladacycles as Precursors to Highly Recyclable Catalysts for the Suzuki Coupling of Aryl Bromides in Aqueous Solvents. Organometallics, 2006, 25, 4105-4112.	1.1	126
42	t-Bu-Amphosâ€"RhCl3Ã—3H2O: A Highly Recyclable Catalyst System for the Cross-Coupling of Aldehydes and Aryl- and Alkenylboronic Acids in Aqueous Solvents.. ChemInform, 2006, 37, no.	0.1	0
43	Beyond TPPTS: New Approaches to the Development of Efficient Palladiumâ€Catalyzed Aqueousâ€Phase Crossâ€Coupling Reactions. European Journal of Organic Chemistry, 2006, 2006, 1827-1835.	1.2	148
44	Promoting effect of ionic liquids on ligand substitution reactions. Journal of Organometallic Chemistry, 2005, 690, 3540-3545.	0.8	11
45	Kinetic study of the oxidative addition of methyl iodide to Vaskaâ€™s complex in ionic liquids. Journal of Organometallic Chemistry, 2005, 690, 3522-3528.	0.8	16
46	Palladium-catalyzed hydroesterification of styrene derivatives in the presence of ionic liquids. Journal of Organometallic Chemistry, 2005, 690, 3620-3626.	0.8	51
47	Aqueous-Phase, Palladium-Catalyzed Cross-Coupling of Aryl Bromides under Mild Conditions, Using Water-Soluble, Sterically Demanding Alkylphosphines.. ChemInform, 2005, 36, no.	0.1	0
48	Di-t-butyl(ferrocenylmethyl)phosphine: Air-Stability, Structural Characterization, Coordination Chemistry, and Application to Palladium-Catalyzed Cross-Coupling Reactions.. ChemInform, 2005, 36, no.	0.1	0
49	Palladium-Catalyzed Cross-Coupling in Aqueous Media: Recent Progress and Current Applications. ChemInform, 2005, 36, no.	0.1	0
50	Di-t-butyl(ferrocenylmethyl)phosphine: air-stability, structural characterization, coordination chemistry, and application to palladium-catalyzed cross-coupling reactions. Journal of Organometallic Chemistry, 2005, 690, 1478-1486.	0.8	19
51	Palladium-Catalyzed Cross-Coupling in Aqueous Media: Recent Progress and Current Applications. Current Organic Chemistry, 2005, 9, 585-604.	0.9	175
52	t-Bu-Amphosâ€"RhCl3Â·3H2O: a highly recyclable catalyst system for the cross-coupling of aldehydes and aryl- and alkenylboronic acids in aqueous solvents. Chemical Communications, 2005, , 4484.	2.2	36
53	Experimental and Computational Study of Steric and Electronic Effects on the Coordination of Bulky, Water-Soluble Alkylphosphines to Palladium under Reducing Conditions:â€‰ Correlation to Catalytic Activity. Organometallics, 2005, 24, 962-971.	1.1	54
54	Inhibitory Effects of the Guanine Moiety on Suzuki Couplings of Unprotected Halonucleosides in Aqueous Media. Journal of Organic Chemistry, 2005, 70, 6378-6388.	1.7	58

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55	Efficient Aqueous-Phase Heck and Suzuki Couplings of Aryl Bromides Using Tri(4,6-dimethyl-3-sulfonatophenyl)phosphine Trisodium Salt (TXPTS).. ChemInform, 2004, 35, no.	0.1	0
56	Efficient Aqueous-Phase Heck and Suzuki Couplings of Aryl Bromides Using Tri(4,6-dimethyl-3-) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 70	2.4	137
57	Aqueous-Phase, Palladium-Catalyzed Cross-Coupling of Aryl Bromides under Mild Conditions, Using Water-Soluble, Sterically Demanding Alkylphosphines. Journal of Organic Chemistry, 2004, 69, 7919-7927.	1.7	221
58	Polar, Non-Coordinating Ionic Liquids as Solvents for Coordination Polymerization of Olefins. ACS Symposium Series, 2003, , 300-313.	0.5	2
59	Efficient One-Step Suzuki Arylation of Unprotected Halonucleosides, Using Water-Soluble Palladium Catalysts. Journal of Organic Chemistry, 2003, 68, 6767-6774.	1.7	188
60	Synthesis, Properties, and NMR Studies of a C8-Phenylguanine Modified Oligonucleotide that Preferentially Adopts the Z DNA Conformation. Chemical Research in Toxicology, 2003, 16, 1385-1394.	1.7	33
61	ACID-MEDIATED, CHROMIUM-CATALYZED ALLYLATION OF ALDEHYDES. Synthetic Communications, 2002, 32, 1923-1928.	1.1	6
62	Polar, non-coordinating ionic liquids as solvents for the alternating copolymerization of styrene and CO catalyzed by cationic palladium catalystsElectronic supplementary information (ESI) available: experimental details. See http://www.rsc.org/suppdata/cc/b2/b203367d/. Chemical Communications, 2002, , 1394-1395.	2.2	67
63	Sterically Demanding, Water-Soluble Alkylphosphines as Ligands for High Activity Suzuki Coupling of Aryl Bromides in Aqueous Solvents. Organic Letters, 2001, 3, 2757-2759.	2.4	159
64	Screening of Homogeneous Catalysts by Fluorescence Resonance Energy Transfer. Identification of Catalysts for Room-Temperature Heck Reactions. Journal of the American Chemical Society, 2001, 123, 2677-2678.	6.6	220
65	Screening of Homogeneous Catalysts by Fluorescence Resonance Energy Transfer. Identification of Catalysts for Roomâ€Temperature Heck Reactions.. ChemInform, 2001, 32, 91-91.	0.1	0
66	Room-Temperature Palladium-Catalyzed Amination of Aryl Bromides and Chlorides and Extended Scope of Aromatic Câ–N Bond Formation with a Commercial Ligand. Journal of Organic Chemistry, 1999, 64, 5575-5580.	1.7	742
67	A Fluorescence-Based Assay for High-Throughput Screening of Coupling Reactions. Application to Heck Chemistry. Journal of the American Chemical Society, 1999, 121, 2123-2132.	6.6	288
68	Enantio- and Diastereoselective Catalytic Carboalumination of 1-Alkenes and Î±,Ï‰-Dienes with Cationic Zirconocenes:Â Scope and Mechanism. Organometallics, 1998, 17, 5728-5745.	1.1	51
69	Palladium-Catalyzed Inter- and Intramolecular Î±-Arylation of Amides. Application of Intramolecular Amide Arylation to the Synthesis of Oxindoles. Journal of Organic Chemistry, 1998, 63, 6546-6553.	1.7	274
70	Regioselective Cyclocarboxylation of Nonconjugated Dienes to Cyclic Keto Esters. Organometallics, 1997, 16, 1001-1007.	1.1	15
71	Carbometalation of .alpha.,.omega.-Dienes and Olefins Catalyzed by Zirconocenes. Journal of the American Chemical Society, 1995, 117, 5873-5874.	6.6	69
72	A Facile Method for the Preparation of Functionalized 2-Halo-1-olefins. Synthetic Communications, 1993, 23, 525-529.	1.1	11

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73	CHAPTER 14. Greener Approaches to Cross-Coupling. RSC Catalysis Series, 0, , 645-696.	0.1	1