Kevin H Shaughnessy

List of Publications by Year
in descending order

73	4,711	159585 30	98798 67
papers	citations	h-index	g-index

104	104	104	3816
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	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.	3.2	742
2	Hydrophilic Ligands and Their Application in Aqueous-Phase Metal-Catalyzed Reactions. Chemical Reviews, 2009, 109, 643-710.	47.7	457
3	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.	13.7	288
4	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.	3.2	274
5	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.	3.2	221
6	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.	13.7	220
7	Efficient One-Step Suzuki Arylation of Unprotected Halonucleosides, Using Water-Soluble Palladium Catalysts. Journal of Organic Chemistry, 2003, 68, 6767-6774.	3.2	188
8	Palladium-Catalyzed Cross-Coupling in Aqueous Media: Recent Progress and Current Applications. Current Organic Chemistry, 2005, 9, 585-604.	1.6	175
9	Sterically Demanding, Water-Soluble Alkylphosphines as Ligands for High Activity Suzuki Coupling of Aryl Bromides in Aqueous Solvents. Organic Letters, 2001, 3, 2757-2759.	4.6	159
10	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.	2.4	148
11	Efficient Aqueous-Phase Heck and Suzuki Couplings of Aryl Bromides Using Tri(4,6-dimethyl-3-) Tj ETQq1 1 0.784314 rgBT /Overlock 10	4.6	137
12	Water-Soluble Palladacycles as Precursors to Highly Recyclable Catalysts for the Suzuki Coupling of Aryl Bromides in Aqueous Solvents. Organometallics, 2006, 25, 4105-4112.	2.3	126
13	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.	3.2	113
14	Synthesis and Characterization of Water-Soluble Silver and Palladium Imidazol-2-ylidene Complexes with Noncoordinating Anionic Substituents. Organometallics, 2006, 25, 5151-5158.	2.3	99
15	Bulky Alkylphosphines with Neopentyl Substituents as Ligands in the Amination of Aryl Bromides and Chlorides. Journal of Organic Chemistry, 2006, 71, 5117-5125.	3.2	94
16	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.	3.2	85
17	Sterically Demanding, Sulfonated, Triarylphosphines: Application to Palladium-Catalyzed Cross-Coupling, Steric and Electronic Properties, and Coordination Chemistry. Organometallics, 2008, 27, 576-593.	2.3	79
18	Palladium-Catalyzed Modification of Unprotected Nucleosides, Nucleotides, and Oligonucleotides. Molecules, 2015, 20, 9419-9454.	3.8	77

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19	Carbometalation of .alpha.,.omega.-Dienes and Olefins Catalyzed by Zirconocenes. Journal of the American Chemical Society, 1995, 117, 5873-5874.	13.7	69
20	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.	4.1	67
21	Inhibitory Effects of the Guanine Moiety on Suzuki Couplings of Unprotected Halonucleosides in Aqueous Media. Journal of Organic Chemistry, 2005, 70, 6378-6388.	3.2	58
22	Neopentylphosphines as effective ligands in palladium-catalyzed cross-couplings of aryl bromides and chlorides. Tetrahedron, 2008, 64, 6920-6934.	1.9	58
23	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.	2.3	54
24	Enantio- and Diastereoselective Catalytic Carboalumination of 1-Alkenes and Î±,Ï‰-Dienes with Cationic Zirconocenes:Â Scope and Mechanism. Organometallics, 1998, 17, 5728-5745.	2.3	51
25	Palladium-catalyzed hydroesterification of styrene derivatives in the presence of ionic liquids. Journal of Organometallic Chemistry, 2005, 690, 3620-3626.	1.8	51
26	Development of Palladium Precatalysts that Efficiently Generate LPd(0) Active Species. Israel Journal of Chemistry, 2020, 60, 180-194.	2.3	51
27	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.	4.1	36
28	Controlling Olefin Isomerization in the Heck Reaction with Neopentyl Phosphine Ligands. Journal of Organic Chemistry, 2014, 79, 10837-10848.	3.2	36
29	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.	3.3	33
30	Efficient Sonogashira Coupling of Unprotected Halonucleosides in Aqueous Solvents Using Waterâ€soluble Palladium Catalysts. European Journal of Organic Chemistry, 2010, 2010, 3678-3683.	2.4	31
31	Stereospecific Suzuki, Sonogashira, and Negishi Coupling Reactions of N-Alkoxyimidoyl Iodides and Bromides. Journal of Organic Chemistry, 2013, 78, 3676-3687.	3.2	29
32	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.	11.2	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. ACS Catalysis, 2017, 7, 2516-2527.	11.2	24
34	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.	4.0	21
35	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.	2.4	20
36	Arylation of diethyl malonate and ethyl cyanoacetate catalyzed by palladium/di-tert-butylneopentylphosphine. Tetrahedron Letters, 2015, 56, 3447-3450.	1.4	20

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37	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.	1.8	19
38	A General Synthesis of C8-Arylpurine Phosphoramidites. Molecules, 2009, 14, 3339-3352.	3.8	19
39	The conformational effect of para-substituted C8-arylguanine adducts on the B/Z-DNA equilibrium. Biophysical Chemistry, 2011, 154, 41-48.	2.8	19
40	Kinetic study of the oxidative addition of methyl iodide to Vaskaâ€™s complex in ionic liquids. Journal of Organometallic Chemistry, 2005, 690, 3522-3528.	1.8	16
41	Regioselective Cyclocarboxylation of Nonconjugated Dienes to Cyclic Keto Esters. Organometallics, 1997, 16, 1001-1007.	2.3	15
42	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.	3.7	15
43	Enolizable Ketones as Activators of Palladium(II) Precatalysts in Amine Arylation Reactions. ACS Catalysis, 2020, 10, 4127-4135.	11.2	15
44	Synthesis of 4-sulfonatobenzylphosphines and their application in aqueous-phase palladium-catalyzed cross-coupling. Journal of Organometallic Chemistry, 2015, 777, 16-24.	1.8	12
45	A Facile Method for the Preparation of Functionalized 2-Halo-1-olefins. Synthetic Communications, 1993, 23, 525-529.	2.1	11
46	Promoting effect of ionic liquids on ligand substitution reactions. Journal of Organometallic Chemistry, 2005, 690, 3540-3545.	1.8	11
47	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.	2.7	11
48	Palladium-catalyzed ortho-halogenation of diaryl oxime ethers. Tetrahedron Letters, 2014, 55, 4801-4806.	1.4	11
49	Monodentate Trialkylphosphines: Privileged Ligands in Metal-catalyzed Crosscoupling Reactions. Current Organic Chemistry, 2020, 24, 231-264.	1.6	11
50	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.	2.3	10
51	[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.	2.3	10
52	Synthesis, Structural Characterization, and Coordination Chemistry of (Trineopentylphosphine)palladium(aryl)bromide Dimer Complexes ([(Np₃P)Pd(Ar)Br]₂). Inorganic Chemistry, 2019, 58, 13299-13313.	4.0	8
53	ACID-MEDIATED, CHROMIUM-CATALYZED ALLYLATION OF ALDEHYDES. Synthetic Communications, 2002, 32, 1923-1928.	2.1	6
54	Aqueous-Phase Heck Coupling of 5-Iodouridine and Alkenes under Phosphine-Free Conditions. Synlett, 2011, 2011, 2963-2966.	1.8	5

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55	Palladium Theory of Aqueousâ€Phase Heck Alkynylations for Intensification of Discovery and Manufacture. Chemical Engineering and Technology, 2015, 38, 1717-1725.	1.5	5
56	Effect of Aryl Ligand Identity on Catalytic Performance of Trineopentylphosphine Arylpalladium Complexes in N-Arylation Reactions. Organometallics, 2020, 39, 3618-3627.	2.3	4
57	A selective and tin-free Pd-catalyzed phenylselenylation of aryl bromides. Main Group Chemistry, 2007, 6, 201-214.	0.8	3
58	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.	2.3	3
59	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
60	Experimental and Computational Study of the Structure, Steric Properties, and Binding Equilibria of Neopentylphosphine Palladium Complexes. Inorganic Chemistry, 2020, 59, 5579-5592.	4.0	3
61	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.	2.4	3
62	Polar, Non-Coordinating Ionic Liquids as Solvents for Coordination Polymerization of Olefins. ACS Symposium Series, 2003, , 300-313.	0.5	2
63	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
64	CHAPTER 14. Greener Approaches to Cross-Coupling. RSC Catalysis Series, 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. Journal of Sol-Gel Science and Technology, 2021, 97, 106-116.	2.4	1
68	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.	0.0	0
69	Aqueous-Phase, Palladium-Catalyzed Cross-Coupling of Aryl Bromides under Mild Conditions, Using Water-Soluble, Sterically Demanding Alkylphosphines.. ChemInform, 2005, 36, no.	0.0	0
70	Di-t-butyl(ferrocenylmethyl)phosphine: Air-Stability, Structural Characterization, Coordination Chemistry, and Application to Palladium-Catalyzed Cross-Coupling Reactions.. ChemInform, 2005, 36, no.	0.0	0
71	Palladium-Catalyzed Cross-Coupling in Aqueous Media: Recent Progress and Current Applications. ChemInform, 2005, 36, no.	0.0	0
72	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.	0.0	0

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73	Screening of Homogeneous Catalysts by Fluorescence Resonance Energy Transfer. Identification of Catalysts for Roomâ€Temperature Heck Reactions.. ChemInform, 2001, 32, 91-91.	0.0	0