

Pazhamalai Anbarasan

List of Publications by Year in descending order

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126907

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times ranked

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citing authors

#	ARTICLE	IF	CITATIONS
1	Recent developments and perspectives in palladium-catalyzed cyanation of aryl halides: synthesis of benzonitriles. <i>Chemical Society Reviews</i> , 2011, 40, 5049.	38.1	597
2	From Noble Metal to Nobel Prize: Palladium-Catalyzed Coupling Reactions as Key Methods in Organic Synthesis. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 9047-9050.	13.8	515
3	Well-Defined Iron Catalyst for Improved Hydrogenation of Carbon Dioxide and Bicarbonate. <i>Journal of the American Chemical Society</i> , 2012, 134, 20701-20704.	13.7	345
4	Integration of chemical catalysis with extractive fermentation to produce fuels. <i>Nature</i> , 2012, 491, 235-239.	27.8	327
5	Recent Advances in Transition-Metal-Catalyzed Denitrogenative Transformations of 1,2,3-Triazoles and Related Compounds. <i>Synthesis</i> , 2014, 46, 3004-3023.	2.3	216
6	A General and Efficient Catalyst for Palladium-Catalyzed C ^{sp} O Coupling Reactions of Aryl Halides with Primary Alcohols. <i>Journal of the American Chemical Society</i> , 2010, 132, 11592-11598.	13.7	209
7	A General Rhodium-Catalyzed Cyanation of Aryl and Alkenyl Boronic Acids. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 519-522.	13.8	206
8	Palladium Catalyzed Aryl(alkyl)thiolation of Unactivated Arenes. <i>Organic Letters</i> , 2014, 16, 848-851.	4.6	168
9	Palladium-Catalyzed Carbonylative C ^{sp} H Activation of Heteroarenes. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 7316-7319.	13.8	165
10	Rhodium Catalyzed Cyanation of Chelation Assisted C ^{sp} H Bonds. <i>Organic Letters</i> , 2013, 15, 4960-4963.	4.6	128
11	A Novel and Convenient Synthesis of Benzonitriles: Electrophilic Cyanation of Aryl and Heteroaryl Bromides. <i>Chemistry - A European Journal</i> , 2011, 17, 4217-4222.	3.3	119
12	Rhodium Catalyzed Direct Arylation of α -Diazoimines. <i>Organic Letters</i> , 2014, 16, 2510-2513.	4.6	117
13	Efficient Synthesis of Aryl Fluorides. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 2219-2222.	13.8	110
14	A Convenient Synthesis of Benzonitriles via Electrophilic Cyanation with <i>N</i> -Cyanobenzimidazole. <i>Chemistry - A European Journal</i> , 2010, 16, 4725-4728.	3.3	97
15	Rhodium-Catalyzed Denitrogenative [2,3]-Sigmatropic Rearrangement: An Efficient Entry to Sulfur-Containing Quaternary Centers. <i>Chemistry - A European Journal</i> , 2013, 19, 15115-15119.	3.3	85
16	Production of an acetone-butanol-ethanol mixture from <i>Clostridium acetobutylicum</i> and its conversion to high-value biofuels. <i>Nature Protocols</i> , 2015, 10, 528-537.	12.0	77
17	Rhodium catalyzed diastereoselective synthesis of 2,2,3,3-tetrasubstituted indolines from <i>N</i> -sulfonyl-1,2,3-triazoles and ortho-vinylanilines. <i>Chemical Science</i> , 2016, 7, 5934-5938.	7.4	75
18	Cobalt(III)-Catalyzed Intramolecular Cross-Dehydrogenative C ^{sp} H/X ^{sp} H Coupling: Efficient Synthesis of Indoles and Benzofurans. <i>Chemistry - A European Journal</i> , 2016, 22, 16042-16046.	3.3	75

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19	Novel C-H functionalization of arenes: palladium-catalyzed synthesis of diaryl sulfides. <i>Chemical Communications</i> , 2011, 47, 3233.	4.1	72
20	Tandem 1,2-sulfur migration and (aza)-Diels-Alder reaction of $\hat{\text{I}}^2$ -thio- $\hat{\text{I}}^{\pm}$ -diazoimines: rhodium catalyzed synthesis of (fused)-polyhydropyridines, and cyclohexenes. <i>Chemical Science</i> , 2015, 6, 5847-5852.	7.4	68
21	Rhodium Catalyzed C2-Selective Cyanation of Indoles and Pyrroles. <i>Journal of Organic Chemistry</i> , 2015, 80, 3695-3700.	3.2	66
22	Rhodium-Catalyzed Cyanation of C(sp ²)-H Bond of Alkenes. <i>Organic Letters</i> , 2015, 17, 3766-3769.	4.6	63
23	Rhodium-Catalyzed Transannulation of 1,2,3-Triazoles to Polysubstituted Pyrroles. <i>Journal of Organic Chemistry</i> , 2014, 79, 8428-8434.	3.2	62
24	Rhodium Catalyzed Synthesis of Benzopyrans via Transannulation of N-Sulfonyl-1,2,3-triazoles with 2-Hydroxybenzyl Alcohols. <i>Organic Letters</i> , 2018, 20, 3762-3765.	4.6	60
25	Developments in Cp*Co ^{III} -Catalyzed C-H Bond Functionalizations. <i>Asian Journal of Organic Chemistry</i> , 2019, 8, 430-455.	2.7	45
26	A General Cyclocarbonylation of Aryl Bromides and Triflates with Acetylenes: Palladium-Catalyzed Synthesis of 3-Alkylidene-furanones. <i>Chemistry - A European Journal</i> , 2011, 17, 8014-8017.	3.3	43
27	Acid-Mediated Oxychalcogenation of <i>N</i> -Vinylanilides with <i>N</i> -(Arylthio/arylseleno)succinimides. <i>Organic Letters</i> , 2018, 20, 1183-1186.	4.6	42
28	Stereoselective formal synthesis of ($\hat{\text{A}}^{\text{r}}$)-centrolobine. <i>Tetrahedron</i> , 2007, 63, 1089-1092.	1.9	40
29	Rhodium Catalyzed Arylation of Diazo Compounds with Aryl Boronic Acids. <i>Journal of Organic Chemistry</i> , 2015, 80, 3455-3461.	3.2	39
30	Lewis Acid/Bronsted Acid Controlled Pd(II)-Catalyzed Chemodivergent Functionalization of C(sp ²)-H Bonds with <i>N</i> -(Arylthio)imides. <i>Organic Letters</i> , 2018, 20, 3362-3366.	4.6	39
31	Recent developments and applications of cyanamides in electrophilic cyanation. <i>Organic and Biomolecular Chemistry</i> , 2018, 16, 7084-7103.	2.8	37
32	One-Pot Aminoethylation of Indoles/Pyrroles with Alkynes and Sulfonyl Azides. <i>Chemistry - A European Journal</i> , 2015, 21, 17079-17084.	3.3	34
33	Copper-Catalyzed Trifluoromethylthiolation of Di(hetero)aryl ³ -iodanes: Mechanistic Insight and Application to Synthesis of (Hetero)Aryl Trifluoromethyl Sulfides. <i>Advanced Synthesis and Catalysis</i> , 2015, 357, 3521-3528.	4.3	31
34	Stereoselective Palladium-Catalyzed Synthesis of Indolines via Intramolecular Trapping of <i>N</i> -Ylides with Alkenes. <i>ACS Catalysis</i> , 2017, 7, 6283-6288.	11.2	31
35	Cobalt(III)-Catalyzed Allylation of Arene C-H Bonds. <i>European Journal of Organic Chemistry</i> , 2017, 2017, 3965-3968.	2.4	30
36	Cp*Co(iii)-catalysed selective alkylation of C-H bonds of arenes and heteroarenes with $\hat{\text{I}}^{\pm}$ -diazocarbonyl compounds. <i>Organic and Biomolecular Chemistry</i> , 2018, 16, 7346-7350.	2.8	30

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37	Trifluoromethylthiolative 1,2-difunctionalization of alkenes with diselenides and AgSCF ₃ . Chemical Communications, 2019, 55, 4639-4642.	4.1	28
38	One-Pot Cascade Trifluoromethylation/Cyclization of Imides: Synthesis of $\hat{\pm}$ -Trifluoromethylated Amine Derivatives. Journal of Organic Chemistry, 2014, 79, 4154-4160.	3.2	26
39	Tandem Rh(II) and Chiral Squaramide Relay Catalysis: Enantioselective Synthesis of Dihydro- $\hat{2}$ -carbolines via Insertion to C-H Bond and Aza-Michael Reaction. Organic Letters, 2019, 21, 3067-3071.	4.6	26
40	Enantiodivergent Synthesis of Both Enantiomers of Gypsy Moth Pheromone Disparlure. Journal of Organic Chemistry, 2007, 72, 3155-3157.	3.2	25
41	A New and Practical Grignard-Coupling-Fluorination Sequence: Synthesis of $\hat{2}$ -Aryl Fluoroarenes. Chemistry - an Asian Journal, 2010, 5, 1775-1778.	3.3	25
42	Cascade Rh and Yb catalyzed synthesis of substituted naphthofurans via transannulation of N-sulfonyl-1,2,3-triazoles with $\hat{2}$ -naphthols. Chemical Communications, 2019, 55, 4507-4510.	4.1	25
43	Rhodium-catalyzed Sommelet-Hauser type rearrangement of $\hat{\pm}$ -diazoimines: synthesis of functionalized enamides. Chemical Communications, 2020, 56, 5649-5652.	4.1	25
44	Asymmetric synthesis of unsaturated $\hat{\pm}$ -benzyloxyaldehydes: an enantioselective synthesis of (+)-exo-brevicomine. Tetrahedron: Asymmetry, 2005, 16, 3951-3953.	1.8	24
45	Stereoselective synthesis of (+)-boronolide and ($\hat{\sim}$)-5-epi-boronolide. Tetrahedron: Asymmetry, 2006, 17, 1146-1151.	1.8	24
46	An iodine mediated oxidative rearrangement of enamines: efficient synthesis of $\hat{\pm}$ -amino ketones. Chemical Communications, 2015, 51, 14203-14206.	4.1	21
47	Metal-Free Directed Diastereoselective C2,C3-Cyclopropanation of Substituted Indoles with Diazoesters. Organic Letters, 2019, 21, 3431-3435.	4.6	21
48	Diastereoselective Palladium Catalyzed Carbenylative Amination of <i>ortho</i> -Vinylanilines with $\hat{2}$ -Diazindolinones. Advanced Synthesis and Catalysis, 2020, 362, 801-806.	4.3	21
49	Stereoselective synthesis of ($\hat{\sim}$)-6-acetoxylhexadecanolide: a mosquito oviposition attractant pheromone. Tetrahedron: Asymmetry, 2007, 18, 2479-2483.	1.8	20
50	Enantioselective synthesis of $\hat{\pm}$ -benzyloxy-alkenals: application to the synthesis of (+)-exo-brevicomine, (+)-iso-exo-brevicomine, and ($\hat{\sim}$)-isolaurepan. Tetrahedron: Asymmetry, 2007, 18, 1419-1427.	1.8	19
51	Rhodium-Catalyzed Rearrangement of S/Se-Ylides for the Synthesis of Substituted Vinylogous Carbonates. Organic Letters, 2019, 21, 9965-9969.	4.6	19
52	Enantiospecific synthesis of ($\hat{\sim}$)-2-hydroxy-exo-brevicomine. Tetrahedron: Asymmetry, 2006, 17, 850-853.	1.8	18
53	Enantiospecific synthesis of ($\hat{\sim}$)-muricatacin from l-(+)-tartaric acid. Tetrahedron: Asymmetry, 2006, 17, 2465-2467.	1.8	18
54	Cp*Co-catalyzed C2-thiolation and C2,C3-dithiolation of substituted indoles with N-(arylthio)succinimide. Chemical Communications, 2021, 57, 10544-10547.	4.1	18

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55	An Electrophilic Trifluoromethylthiolation of Silylenol Ethers and α -Naphthols with Diethylaminosulfur Trifluoride and (Trifluoromethyl)trimethylsilane. <i>Advanced Synthesis and Catalysis</i> , 2018, 360, 2894-2899.	4.3	17
56	An enantiospecific synthesis of (+)-hydroxy-exo-brevicomine. <i>Tetrahedron Letters</i> , 2006, 47, 1433-1435.	1.4	16
57	Copper catalyzed oxidative coupling of ortho-vinylanilines with N-tosylhydrazones: Efficient synthesis of polysubstituted quinoline derivatives. <i>Journal of Catalysis</i> , 2018, 363, 102-108.	6.2	16
58	One-Pot Transannulation of N -Sulfonyl-1,2,3-triazoles to Dihydro- β -carbolines and Dihydroisoquinolines via Rhodium-Catalyzed $C-H$ Insertion-cum-Base-Mediated Aza-Michael Reaction. <i>Journal of Organic Chemistry</i> , 2019, 84, 7747-7761.	3.2	16
59	Palladium-Catalyzed Trifluoromethylthiolation of Chelation-Assisted $C-H$ Bonds. <i>European Journal of Organic Chemistry</i> , 2018, 2018, 3276-3279.	2.4	15
60	An Expedient Enantiospecific Synthesis of (+)-2-Hydroxy-exo-brevicomine. <i>Synlett</i> , 2006, 2006, 2087-2088.	1.8	13
61	One-Pot Trifluoromethylative Functionalization of Amides: Synthesis of Trifluoromethylated Bis(indolyl)arylmethanes and Triarylmethanes. <i>Journal of Organic Chemistry</i> , 2017, 82, 12328-12336.	3.2	13
62	Cobalt-catalyzed multisubstituted allylation of the chelation-assisted $C-H$ bond of (hetero)arenes with cyclopropenes. <i>Chemical Science</i> , 2021, 12, 13442-13449.	7.4	13
63	(Cyclopentadienone)iron Complexes: Synthesis, Mechanism and Applications in Organic Synthesis. <i>Chemistry - an Asian Journal</i> , 2021, 16, 1703-1724.	3.3	13
64	Enantiodivergent synthesis of both antipodes of hydroxy-exo-brevicomine from l-(+)-tartaric acid. <i>Tetrahedron</i> , 2006, 62, 8303-8308.	1.9	12
65	Copper-catalyzed synthesis of trifluoromethyl(hetero)arenes from di(hetero)aryl- λ^3 -iodanes. <i>RSC Advances</i> , 2016, 6, 18525-18529.	3.6	12
66	A General Proline-Catalyzed Synthesis of 4,5-Disubstituted N -Sulfonyl-1,2,3-Triazoles from 1,3-Dicarbonyl Compounds and Sulfonyl Azide. <i>Chemistry - an Asian Journal</i> , 2019, 14, 4563-4567.	3.3	12
67	Catalytic Functionalization of Metallocarbenes Derived from α -Diazocarbonyl Compounds and Their Precursors. <i>Chemical Record</i> , 2021, 21, 3872-3883.	5.8	12
68	Stereoselective synthesis of (α)-microcarpalide. <i>Tetrahedron Letters</i> , 2007, 48, 309-311.	1.4	11
69	Divergent Functionalization of N -Alkyl- α -alkenylanilines: Efficient Synthesis of Substituted Indoles and Quinolines. <i>Chemistry - an Asian Journal</i> , 2018, 13, 2499-2504.	3.3	11
70	Catalytic enantioselective oxysulfenylation of α -vinylanilides. <i>Chemical Communications</i> , 2021, 58, 282-285.	4.1	11
71	Palladium-catalyzed diastereoselective synthesis of 2,2,3-trisubstituted dihydrobenzofurans via intramolecular trapping of O-ylides with activated alkenes. <i>Journal of Catalysis</i> , 2021, 396, 291-296.	6.2	10
72	Asymmetric synthesis of both enantiomers of α -methyl- β -methoxyphenylacetic acid from l-(+)-tartaric acid: formal enantioselective synthesis of insect pheromone (α)-frontalin. <i>Tetrahedron: Asymmetry</i> , 2006, 17, 1979-1984.	1.8	9

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73	Rhodium-catalyzed synthesis of C4-chalcogenoalkylated oxindoles via Sommelet-Hauser type rearrangement of 3-diazoindolin-2-ones. <i>Journal of Chemical Sciences</i> , 2019, 131, 1.	1.5	4
74	Rhodium-Catalyzed Annulation of <i>N</i> -Acetoxyacetanilide with Substituted Alkynes: Conversion of Nitroarenes to Substituted Indoles. <i>Journal of Organic Chemistry</i> , 2021, 86, 14812-14825.	3.2	4
75	Ligand-based Modeling for the Prediction of Pharmacophore Features for Multi-targeted Inhibition of the Arachidonic Acid Cascade. <i>Molecular Informatics</i> , 2018, 37, 1700073.	2.5	3
76	Vicinal Trifluoromethylthioamination of Alkenes with Trifluoromethanesulfenamides. <i>Asian Journal of Organic Chemistry</i> , 2021, 10, 2562.	2.7	2
77	Palladium Catalyzed Aerobic Oxidative Cyclization of ortho-Vinylanilines with Isocyanides. <i>Proceedings of the Indian National Science Academy</i> , 2016, 82, .	1.4	0