Arunachalam Sagadevan

List of Publications by Year
in descending order

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29 papers	2,107 citations	236925 25 h-index	477307 29 g-index
35 all docs	35 docs citations	35 times ranked	2321 citing authors

#	Article	IF	Citations
1	Visible-Light Copper Nanocluster Catalysis for the Câ€“N Coupling of Aryl Chlorides at Room Temperature. Journal of the American Chemical Society, 2022, 144, 12052-12061.	13.7	37
2	Oxy-sulfonylation of terminal alkynes via Câ€“S coupling enabled by copper photoredox catalysis. Green Chemistry, 2021, 23, 3569-3574.	9.0	27
3	Photoredox synthesis of functionalized quinazolines via copper-catalyzed aerobic oxidative C_{sp2}â€“H annulation of amidines with terminal alkynes. Green Chemistry, 2021, 23, 5024-5030.	9.0	35
4	Cu₂O Nanocrystalsâ€Catalyzed Photoredox Sonogashira Coupling of Terminal Alkynes and Arylhalides Enhanced by CO₂. ChemSusChem, 2020, 13, 287-292.	6.8	25
5	Visible light-promoted copper catalyzed regioselective acetamidation of terminal alkynes by arylamines. Green Chemistry, 2020, 22, 1164-1170.	9.0	30
6	Ortho Câ€“H arylation of arenes at room temperature using visible light ruthenium Câ€“H activation. Chemical Science, 2020, 11, 4439-4443.	7.4	49
7	Visible light-induced aerobic oxidation of diarylalkynes to Î±-diketones catalyzed by copper-superoxo at room temperature. Green Chemistry, 2020, 22, 4426-4432.	9.0	39
8	The sustainable room temperature conversion of p-xylene to terephthalic acid using ozone and UV irradiation. Green Chemistry, 2019, 21, 6082-6088.	9.0	24
9	Copper Photoredox Catalyzed A3â€™ Coupling of Arylamines, Terminal Alkynes, and Alcohols through a Hydrogen Atom Transfer Process. Angewandte Chemie, 2019, 131, 3878-3882.	2.0	13
10	Copper Photoredox Catalyzed A3â€™ Coupling of Arylamines, Terminal Alkynes, and Alcohols through a Hydrogen Atom Transfer Process. Angewandte Chemie - International Edition, 2019, 58, 3838-3842.	13.8	66
11	metaâ€Selective Cî’H Activation of Arenes at Room Temperature Using Visible Light: Dualâ€Function Ruthenium Catalysis. Angewandte Chemie, 2019, 131, 9931-9935.	2.0	35
12	Visible Light-Induced Excited-State Transition-Metal Catalysis. Trends in Chemistry, 2019, 1, 510-523.	8.5	140
13	metaâ€Selective Cî’H Activation of Arenes at Room Temperature Using Visible Light: Dualâ€Function Ruthenium Catalysis. Angewandte Chemie - International Edition, 2019, 58, 9826-9830.	13.8	135
14	Visible-light-driven copper-catalyzed aerobic oxidative cascade cyclization of N-tosylhydrazones and terminal alkynes: regioselective synthesis of 3-arylcoumarins. Chemical Communications, 2019, 55, 5151-5154.	4.1	33
15	Visible-light induced copper(<scp>i</scp>)-catalysed denitrogenative oxidative coupling of hydrazinylpyridines with terminal alkynes. Green Chemistry, 2018, 20, 4859-4864.	9.0	35
16	Visible Lightâ€Mediated Copper(I)â€Catalysed Aerobic Oxidation of Ynamides/Ynamines at Room Temperature: A Sustainable Approach to the Synthesis of Î±â€Ketoimides/Î±â€Ketoamides. Advanced Synthesis and Catalysis, 2017, 359, 1138-1143.	4.3	47
17	Visible Light Copper Photoredox-Catalyzed Aerobic Oxidative Coupling of Phenols and Terminal Alkynes: Regioselective Synthesis of Functionalized Ketones via Câ‰¡C Triple Bond Cleavage. Journal of the American Chemical Society, 2017, 139, 2896-2899.	13.7	135
18	Singlet oxygen-mediated selective Câ€“H bond hydroperoxidation of ethereal hydrocarbons. Nature Communications, 2017, 8, 1812.	12.8	96

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19	Copper(<scp>i</scp>) chloride catalysed room temperature C_{sp}â€“C_{sp} homocoupling of terminal alkynes mediated by visible light. Catalysis Science and Technology, 2016, 6, 7688-7692.	4.1	60
20	Copper(<scp>i</scp>)-catalysed oxidative Câ€“N coupling of 2-aminopyridine with terminal alkynes featuring a Cî€‚C bond cleavage promoted by visible light. Chemical Communications, 2016, 52, 11756-11759.	4.1	63
21	Visible-light-activated copper(<scp>i</scp>) catalyzed oxidative C_{sp}â€“C_{sp} cross-coupling reaction: efficient synthesis of unsymmetrical conjugated diynes without ligands and base. Green Chemistry, 2016, 18, 4526-4530.	9.0	88
22	Frontispiece: Photoinduced Copperâ€Catalyzed Regioselective Synthesis of Indoles: Threeâ€Component Coupling of Arylamines, Terminal Alkynes, and Quinones. Angewandte Chemie - International Edition, 2015, 54, .	13.8	0
23	Photoinduced Copperâ€Catalyzed Regioselective Synthesis of Indoles: Threeâ€Component Coupling of Arylamines, Terminal Alkynes, and Quinones. Angewandte Chemie - International Edition, 2015, 54, 13896-13901.	13.8	129
24	Visible-light initiated copper(<scp>i</scp>)-catalysed oxidative Câ€“N coupling of anilines with terminal alkynes: one-step synthesis of Î±-ketoamides. Green Chemistry, 2015, 17, 1113-1119.	9.0	129
25	One-pot room-temperature conversion of cyclohexane to adipic acid by ozone and UV light. Science, 2014, 346, 1495-1498.	12.6	90
26	Visible-light-induced, copper(i)-catalysed C-N coupling between o-phenylenediamine and terminal alkynes: one-pot synthesis of 3-phenyl-2-hydroxy-quinoxalines. Photochemical and Photobiological Sciences, 2013, 12, 2110-2118.	2.9	52
27	Morphology dependent photosensitization and formation of singlet oxygen (1Î”g) by gold and silver nanoparticles and its application in cancer treatment. Journal of Materials Chemistry B, 2013, 1, 4379.	5.8	88
28	Photoâ€Induced Sonogashira Cï£¿C Coupling Reaction Catalyzed by Simple Copper(I) Chloride Salt at Room Temperature. Advanced Synthesis and Catalysis, 2012, 354, 3421-3427.	4.3	157
29	Metal Nanoparticles Sensitize the Formation of Singlet Oxygen. Angewandte Chemie - International Edition, 2011, 50, 10640-10644.	13.8	218