

# 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	Metal Nanoparticles Sensitize the Formation of Singlet Oxygen. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 10640-10644.	13.8	218
2	Photoinduced Sonogashira C–C Coupling Reaction Catalyzed by Simple Copper(I) Chloride Salt at Room Temperature. <i>Advanced Synthesis and Catalysis</i> , 2012, 354, 3421-3427.	4.3	157
3	Visible Light-Induced Excited-State Transition-Metal Catalysis. <i>Trends in Chemistry</i> , 2019, 1, 510-523.	8.5	140
4	Visible Light Copper Photoredox-Catalyzed Aerobic Oxidative Coupling of Phenols and Terminal Alkynes: Regioselective Synthesis of Functionalized Ketones via C–C Triple Bond Cleavage. <i>Journal of the American Chemical Society</i> , 2017, 139, 2896-2899.	13.7	135
5	meta-Selective C–H Activation of Arenes at Room Temperature Using Visible Light: Dual-Function Ruthenium Catalysis. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 9826-9830.	13.8	135
6	Photoinduced Copper-Catalyzed Regioselective Synthesis of Indoles: Three-Component Coupling of Arylamines, Terminal Alkynes, and Quinones. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 13896-13901.	13.8	129
7	Visible-light initiated copper-catalysed oxidative C–N coupling of anilines with terminal alkynes: one-step synthesis of $\alpha$ -ketoamides. <i>Green Chemistry</i> , 2015, 17, 1113-1119.	9.0	129
8	Singlet oxygen-mediated selective C–H bond hydroperoxidation of ethereal hydrocarbons. <i>Nature Communications</i> , 2017, 8, 1812.	12.8	96
9	One-pot room-temperature conversion of cyclohexane to adipic acid by ozone and UV light. <i>Science</i> , 2014, 346, 1495-1498.	12.6	90
10	Morphology dependent photosensitization and formation of singlet oxygen ( $^1O_2$ ) by gold and silver nanoparticles and its application in cancer treatment. <i>Journal of Materials Chemistry B</i> , 2013, 1, 4379.	5.8	88
11	Visible-light-activated copper-catalyzed oxidative C–C cross-coupling reaction: efficient synthesis of unsymmetrical conjugated diynes without ligands and base. <i>Green Chemistry</i> , 2016, 18, 4526-4530.	9.0	88
12	Copper Photoredox Catalyzed A3™ Coupling of Arylamines, Terminal Alkynes, and Alcohols through a Hydrogen Atom Transfer Process. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 3838-3842.	13.8	66
13	Copper-catalysed oxidative C–N coupling of 2-aminopyridine with terminal alkynes featuring a C–C bond cleavage promoted by visible light. <i>Chemical Communications</i> , 2016, 52, 11756-11759.	4.1	63
14	Copper chloride catalysed room temperature C–C homocoupling of terminal alkynes mediated by visible light. <i>Catalysis Science and Technology</i> , 2016, 6, 7688-7692.	4.1	60
15	Visible-light-induced, copper(i)-catalysed C–N coupling between o-phenylenediamine and terminal alkynes: one-pot synthesis of 3-phenyl-2-hydroxy-quinoxalines. <i>Photochemical and Photobiological Sciences</i> , 2013, 12, 2110-2118.	2.9	52
16	Ortho C–H arylation of arenes at room temperature using visible light ruthenium C–H activation. <i>Chemical Science</i> , 2020, 11, 4439-4443.	7.4	49
17	Visible Light-Mediated Copper(I)-Catalysed Aerobic Oxidation of Ynamides/Ynamines at Room Temperature: A Sustainable Approach to the Synthesis of $\alpha$ -ketoimides/ $\alpha$ -ketoamides. <i>Advanced Synthesis and Catalysis</i> , 2017, 359, 1138-1143.	4.3	47
18	Visible light-induced aerobic oxidation of diarylalkynes to $\alpha$ -diketones catalyzed by copper-superoxo at room temperature. <i>Green Chemistry</i> , 2020, 22, 4426-4432.	9.0	39

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19	Visible-Light Copper Nanocluster Catalysis for the C–N Coupling of Aryl Chlorides at Room Temperature. <i>Journal of the American Chemical Society</i> , 2022, 144, 12052-12061.	13.7	37
20	Visible-light induced copper( <i>scp</i> )-catalysed denitrogenative oxidative coupling of hydrazinylpyridines with terminal alkynes. <i>Green Chemistry</i> , 2018, 20, 4859-4864.	9.0	35
21	<i>meta</i> -Selective C–H Activation of Arenes at Room Temperature Using Visible Light: Dual-Function Ruthenium Catalysis. <i>Angewandte Chemie</i> , 2019, 131, 9931-9935.	2.0	35
22	Photoredox synthesis of functionalized quinazolines <i>via</i> copper-catalyzed aerobic oxidative C <sub>2</sub> –H annulation of amidines with terminal alkynes. <i>Green Chemistry</i> , 2021, 23, 5024-5030.	9.0	35
23	Visible-light-driven copper-catalyzed aerobic oxidative cascade cyclization of <i>N</i> -tosylhydrazones and terminal alkynes: regioselective synthesis of 3-arylcoumarins. <i>Chemical Communications</i> , 2019, 55, 5151-5154.	4.1	33
24	Visible light-promoted copper catalyzed regioselective acetamidation of terminal alkynes by arylamines. <i>Green Chemistry</i> , 2020, 22, 1164-1170.	9.0	30
25	Oxy-sulfonylation of terminal alkynes <i>via</i> C–S coupling enabled by copper photoredox catalysis. <i>Green Chemistry</i> , 2021, 23, 3569-3574.	9.0	27
26	Cu <sub>2</sub> O Nanocrystals-Catalyzed Photoredox Sonogashira Coupling of Terminal Alkynes and Arylhalides Enhanced by CO <sub>2</sub> . <i>ChemSusChem</i> , 2020, 13, 287-292.	6.8	25
27	The sustainable room temperature conversion of <i>p</i> -xylene to terephthalic acid using ozone and UV irradiation. <i>Green Chemistry</i> , 2019, 21, 6082-6088.	9.0	24
28	Copper Photoredox Catalyzed A <sup>3</sup> ™ Coupling of Arylamines, Terminal Alkynes, and Alcohols through a Hydrogen Atom Transfer Process. <i>Angewandte Chemie</i> , 2019, 131, 3878-3882.	2.0	13
29	Frontispiece: Photoinduced Copper-Catalyzed Regioselective Synthesis of Indoles: Three-Component Coupling of Arylamines, Terminal Alkynes, and Quinones. <i>Angewandte Chemie - International Edition</i> , 2015, 54, .	13.8	0