

# Basker Sundararaju

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

62

papers

3,596

citations

33

h-index

59

g-index

82

ext. papers

4,128

ext. citations

7.9

avg, IF

6.09

L-index

#	Paper	IF	Citations
62	Weak-Coordination in C <sub>H</sub> Bond Functionalizations Catalyzed by 3d Metals. <i>ACS Catalysis</i> , <b>2022</b> , 12, 3452-3506	3.9	11
61	C-H bond functionalization by dual catalysis: merging of high-valent cobalt and photoredox catalysis. <i>Chemical Communications</i> , <b>2021</b> , 57, 13075-13083	5.8	4
60	Room-temperature C-H bond alkynylation by merging cobalt and photocatalysts. <i>Chemical Communications</i> , <b>2021</b> , 57, 12167-12170	5.8	2
59	Recent developments on methanol as liquid organic hydrogen carrier in transfer hydrogenation reactions. <i>Coordination Chemistry Reviews</i> , <b>2021</b> , 433, 213728	23.2	13
58	Well-defined Cp*Co(III)-catalyzed Hydrogenation of Carbonates and Polycarbonates. <i>ChemCatChem</i> , <b>2021</b> , 13, 934-939	5.2	8
57	Synthesis and crystallographic studies of 2-(di-phenyl-phosphino-thio-yl)-2-(3-oxobut-1-en-yl)ferrocene. <i>Acta Crystallographica Section E: Crystallographic Communications</i> , <b>2021</b> , 77, 853-856	0.7	
56	Cp*Co-Catalyzed C(7)-H Bond Annulation of Indolines with Alkynes. <i>Journal of Organic Chemistry</i> , <b>2021</b> , 86, 9407-9417	4.2	5
55	New Borrowing Hydrogen Mechanism for Redox-Active Metals. <i>ACS Catalysis</i> , <b>2021</b> , 11, 11906-11920	13.1	4
54	Recent advances in transition metal-catalyzed asymmetric electrocatalysis. <i>Coordination Chemistry Reviews</i> , <b>2021</b> , 444, 214065	23.2	5
53	Efficient Transfer Hydrogenation of Ketones using Methanol as Liquid Organic Hydrogen Carrier. <i>ChemCatChem</i> , <b>2020</b> , 12, 3472-3476	5.2	13
52	C-Alkylation of Various Carbonucleophiles with Secondary Alcohols under Co(III)-Catalysis. <i>ACS Catalysis</i> , <b>2020</b> , 10, 8023-8031	13.1	17
51	Cp*Co(III)-Catalyzed o-Amidation of Benzaldehydes with Dioxazolones Using Transient Directing Group Strategy. <i>Advanced Synthesis and Catalysis</i> , <b>2020</b> , 362, 1195-1200	5.6	24
50	C-H and N-H bond annulation of aryl amides with unactivated olefins by merging cobalt(III) and photoredox catalysis. <i>Chemical Communications</i> , <b>2019</b> , 55, 11626-11629	5.8	33
49	Electrochemical-/Photoredox Aspects of Transition Metal-Catalyzed Directed C <sub>H</sub> Bond Activation. <i>ChemCatChem</i> , <b>2019</b> , 11, 5160-5187	5.2	32
48	Alkylation of Ketones with Secondary Alcohols Catalyzed by Well-Defined Cp*Co -Complexes. <i>ChemSusChem</i> , <b>2019</b> , 12, 3463-3467	8.3	29
47	Cp*Co(III)-catalyzed N-alkylation of amines with secondary alcohols. <i>Organic Chemistry Frontiers</i> , <b>2019</b> , 6, 852-857	5.2	33
46	Cobalt-Catalyzed Reductive Alkylation of Amines with Carboxylic Acids. <i>ChemSusChem</i> , <b>2019</b> , 12, 3089-3093	3.9	14

45	Recent advances in C(sp <sup>3</sup> ) H bond carbonylation by first row transition metals. <i>Tetrahedron Letters</i> , <b>2018</b> , 59, 862-868	2	38
44	Co-Catalyzed Isonitrile Insertion/Acyl Group Migration Between C-H and N-H bonds of Arylamides. <i>Chemistry - A European Journal</i> , <b>2018</b> , 24, 2360-2364	4.8	39
43	Room-Temperature C-H Bond Functionalization by Merging Cobalt and Photoredox Catalysis. <i>ACS Catalysis</i> , <b>2018</b> , 8, 8115-8120	13.1	89
42	Cp*Co(III)-Catalyzed C-H Alkylation with Maleimides Using Weakly Coordinating Carbonyl Directing Groups. <i>Organic Letters</i> , <b>2018</b> , 20, 2835-2838	6.2	65
41	Cp*Co-Catalyzed Efficient Dehydrogenation of Secondary Alcohols. <i>Chemistry - an Asian Journal</i> , <b>2018</b> , 13, 2445-2448	4.5	14
40	Isolation of Cp*Co-Alkenyl Intermediate in Efficient Cobalt-Catalyzed C-H Alkenylation with Alkynes. <i>Chemistry - A European Journal</i> , <b>2018</b> , 24, 342-346	4.8	47
39	Site-selective C-H bond carbonylation with CO <sub>2</sub> and cobalt-catalysis. <i>Catalysis Science and Technology</i> , <b>2018</b> , 8, 5963-5969	5.5	26
38	Nickel-catalyzed C-H bond Alkoxylation of Amides with Alcohols. <i>Asian Journal of Organic Chemistry</i> , <b>2018</b> , 7, 1368-1371	3	11
37	C-H and N-H Bond Annulation of Benzamides with Isonitriles Catalyzed by Cobalt(III). <i>Synthesis</i> , <b>2017</b> , 49, 3937-3944	2.9	27
36	Cp*Co(III)-Catalyzed Annulation of Carboxylic Acids with Alkynes. <i>Organic Letters</i> , <b>2017</b> , 19, 2544-2547	6.2	90
35	Cobalt catalyzed carbonylation of unactivated C(sp)-H bonds. <i>Chemical Science</i> , <b>2017</b> , 8, 2431-2435	9.4	97
34	Iron-Catalyzed Sustainable Synthesis of Pyrrole. <i>Organic Letters</i> , <b>2017</b> , 19, 6-9	6.2	75
33	Cp*Co-Catalyzed Bis-isoquinolone Synthesis by C-H Annulation of Arylamide with 1,3-Diyne. <i>Chemistry - A European Journal</i> , <b>2017</b> , 23, 17454-17457	4.8	57
32	Linear Selective C-H Bond Alkylation with Activated Olefins Catalyzed by Cp*Co(III). <i>European Journal of Organic Chemistry</i> , <b>2017</b> , 2017, 4370-4374	3.2	32
31	Dehydrative Cp*Co(III)-Catalyzed C-H Bond Allenylation. <i>Organic Letters</i> , <b>2017</b> , 19, 3699-3702	6.2	70
30	C-8-Selective Allylation of Quinoline: A Case Study of $\beta$ -Hydride vs $\beta$ -Hydroxy Elimination. <i>Organic Letters</i> , <b>2016</b> , 18, 4198-201	6.2	111
29	Iron-Catalyzed Allylic Amination Directly from Allylic Alcohols. <i>Chemistry - A European Journal</i> , <b>2016</b> , 22, 3952-5	4.8	84
28	Cp*Co(III)-Catalyzed C(sp <sup>3</sup> )-H Bond Amidation of 8-Methylquinoline. <i>Chemistry - A European Journal</i> , <b>2016</b> , 22, 9135-8	4.8	116

27	Cobalt(III) catalyzed C-8 selective C-H and C-O coupling of quinoline N-oxide with internal alkynes via C-H activation and oxygen atom transfer. <i>Chemical Communications</i> , <b>2016</b> , 52, 1338-41	5.8	120
26	Cp*Co(III)-Catalyzed C(sp <sup>3</sup> )H Bond Activation: A Highly Stereoselective and Regioselective Alkenylation of 8-Methylquinoline with Alkynes. <i>ACS Catalysis</i> , <b>2016</b> , 6, 2792-2796	13.1	135
25	Cobalt Catalyzed C-H and N-H Bond Annulation of Sulfonamide with Terminal and Internal Alkynes. <i>Organic Letters</i> , <b>2015</b> , 17, 6118-21	6.2	121
24	Carboxylate Assisted Ni-Catalyzed C-H Bond Allylation of Benzamides. <i>Chemistry - A European Journal</i> , <b>2015</b> , 21, 9364-8	4.8	48
23	Cobalt(III)-Catalyzed Dehydrative [4+2] Annulation of Oxime with Alkyne by C-H and N-OH Activation. <i>Chemistry - A European Journal</i> , <b>2015</b> , 21, 15529-33	4.8	170
22	A trans-selective hydroboration of internal alkynes. <i>Angewandte Chemie - International Edition</i> , <b>2013</b> , 52, 14050-4	16.4	142
21	Ring Closing and Macrocyclization of Dipeptides by Olefin Metathesis. <i>European Journal of Organic Chemistry</i> , <b>2013</b> , 2013, 6433-6442	3.2	5
20	Selective carbon-carbon bond formation: terpenylations of amines involving hydrogen transfers. <i>Green Chemistry</i> , <b>2013</b> , 15, 775	10	38
19	A Functional-Group-Tolerant Catalytic trans Hydrogenation of Alkynes. <i>Angewandte Chemie</i> , <b>2013</b> , 125, 373-378	3.6	74
18	A functional-group-tolerant catalytic trans hydrogenation of alkynes. <i>Angewandte Chemie - International Edition</i> , <b>2013</b> , 52, 355-60	16.4	173
17	A trans-Selective Hydroboration of Internal Alkynes. <i>Angewandte Chemie</i> , <b>2013</b> , 125, 14300-14304	3.6	61
16	Transition metal catalyzed nucleophilic allylic substitution: activation of allylic alcohols via allylic species. <i>Chemical Society Reviews</i> , <b>2012</b> , 41, 4467-83	58.5	347
15	Isoquinoline derivatives via stepwise regioselective sp(2) and sp(3) C-H bond functionalizations. <i>Journal of Organic Chemistry</i> , <b>2012</b> , 77, 3674-8	4.2	33
14	Ruthenium-catalyzed reductive amination of allylic alcohols. <i>Organic Letters</i> , <b>2011</b> , 13, 3964-7	6.2	48
13	Dendralenes Preparation via Ene-Cross-Metathesis from In Situ Generated 1,3-Enynes. <i>ChemCatChem</i> , <b>2011</b> , 3, 1876-1879	5.2	8
12	sp <sup>3</sup> C-H bond activation with ruthenium(II) catalysts and C(3)-alkylation of cyclic amines. <i>Journal of the American Chemical Society</i> , <b>2011</b> , 133, 10340-3	16.4	136
11	A general palladium-catalyzed carbonylative sonogashira coupling of aryl triflates. <i>Chemistry - A European Journal</i> , <b>2011</b> , 17, 106-10	4.8	93
10	A general cyclocarbonylation of aryl bromides and triflates with acetylenes: palladium-catalyzed synthesis of 3-alkylidene furan-2-ones. <i>Chemistry - A European Journal</i> , <b>2011</b> , 17, 8014-7	4.8	39

9	Asymmetric Induction by Chiral Borate Anions in Enantioselective Hydrogenation using a Racemic Rh <sup>+</sup> Binap Catalyst. <i>ChemCatChem</i> , <b>2010</b> , 2, 55-57	5.2	26
8	Preparation of Sugar $\beta$ -Amino Acid Derivatives with Cyclic Structures by Ring-Closing Metathesis. <i>European Journal of Organic Chemistry</i> , <b>2010</b> , 2010, 6092-6096	3.2	9
7	Ruthenium-Catalyzed Cascade N- and C(3)-Dialkylation of Cyclic Amines with Alcohols Involving Hydrogen Autotransfer Processes. <i>Advanced Synthesis and Catalysis</i> , <b>2010</b> , 352, 3141-3146	5.6	88
6	Ruthenium(IV) Complexes Featuring P,O-Chelating Ligands: Regioselective Substitution Directly from Allylic Alcohols. <i>Angewandte Chemie</i> , <b>2010</b> , 122, 2842-2845	3.6	43
5	Ruthenium(IV) complexes featuring P,O-chelating ligands: regioselective substitution directly from allylic alcohols. <i>Angewandte Chemie - International Edition</i> , <b>2010</b> , 49, 2782-5	16.4	101
4	Light-driven hydrogen generation: efficient iron-based water reduction catalysts. <i>Angewandte Chemie - International Edition</i> , <b>2009</b> , 48, 9962-5	16.4	169
3	Efficient ruthenium-catalyzed synthesis of [3]dendralenes from 1,3-dienic allylic carbonates. <i>Chemical Communications</i> , <b>2009</b> , 6580-2	5.8	21
2	Ruthenium-catalyzed selective N,N-diallylation- and N,N,O-triallylation of free amino acids. <i>Organic and Biomolecular Chemistry</i> , <b>2009</b> , 7, 3906-9	3.9	10
1	Synthesis of Overloaded Cyclopentadienyl Rhodium(III) Complexes via Cyclotetramerization of tert-Butylacetylene. <i>Organometallics</i> ,	3.8	2