

# Sachin Handa

## List of Publications by Citations

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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.

63

papers

2,128

citations

25

h-index

45

g-index

72

ext. papers

2,626

ext. citations

8.9

avg, IF

5.54

L-index

#	Paper	IF	Citations
63	Sustainable Fe-ppm Pd nanoparticle catalysis of Suzuki-Miyaura cross-couplings in water. <i>Science</i> , <b>2015</b> , 349, 1087-91	33.3	202
62	Enantioselective alkynylbenzaldehyde cyclizations catalyzed by chiral gold(I) acyclic diaminocarbene complexes containing weak Au-arene interactions. <i>Angewandte Chemie - International Edition</i> , <b>2012</b> , 51, 2912-5	16.4	191
61	Evolution of Solvents in Organic Chemistry. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2016</b> , 4, 5838-5849	16.4	142
60	Aerobic oxidation in nanomicelles of aryl alkynes, in water at room temperature. <i>Angewandte Chemie - International Edition</i> , <b>2014</b> , 53, 3432-5	16.4	121
59	HandaPhos: A General Ligand Enabling Sustainable ppm Levels of Palladium-Catalyzed Cross-Couplings in Water at Room Temperature. <i>Angewandte Chemie - International Edition</i> , <b>2016</b> , 55, 4914-8	16.4	106
58	Safe and Selective Nitro Group Reductions Catalyzed by Sustainable and Recyclable Fe/ppm Pd Nanoparticles in Water at Room Temperature. <i>Angewandte Chemie - International Edition</i> , <b>2016</b> , 55, 8979-83	16.4	94
57	Nanonickel-catalyzed Suzuki-Miyaura cross-couplings in water. <i>Angewandte Chemie - International Edition</i> , <b>2015</b> , 54, 11994-8	16.4	76
56	Asymmetric gold-catalyzed lactonizations in water at room temperature. <i>Angewandte Chemie - International Edition</i> , <b>2014</b> , 53, 10658-62	16.4	71
55	Enantioselective Alkynylbenzaldehyde Cyclizations Catalyzed by Chiral Gold(I) Acyclic Diaminocarbene Complexes Containing Weak Au-Arene Interactions. <i>Angewandte Chemie</i> , <b>2012</b> , 124, 2966-2969	3.6	69
54	Micelle-Enabled Palladium Catalysis for Convenient sp <sup>2</sup> -sp <sup>3</sup> Coupling of Nitroalkanes with Aryl Bromides in Water Under Mild Conditions. <i>ACS Catalysis</i> , <b>2017</b> , 7, 7245-7250	13.1	57
53	Sonogashira Couplings Catalyzed by Fe Nanoparticles Containing ppm Levels of Reusable Pd, under Mild Aqueous Micellar Conditions. <i>ACS Catalysis</i> , <b>2019</b> , 9, 2423-2431	13.1	52
52	Synergistic and Selective Copper/ppm Pd-Catalyzed Suzuki-Miyaura Couplings: In Water, Mild Conditions, with Recycling. <i>ACS Catalysis</i> , <b>2016</b> , 6, 8179-8183	13.1	49
51	Sustainable HandaPhos-ppm Palladium Technology for Copper-Free Sonogashira Couplings in Water under Mild Conditions. <i>Organic Letters</i> , <b>2018</b> , 20, 542-545	6.2	47
50	Micelle-enabled clean and selective sulfonylation of polyfluoroarenes in water under mild conditions. <i>Green Chemistry</i> , <b>2018</b> , 20, 1784-1790	10	47
49	A Micellar Catalysis Strategy for Suzuki-Miyaura Cross-Couplings of 2-Pyridyl MIDA Boronates: No Copper, in Water, Very Mild Conditions. <i>ACS Catalysis</i> , <b>2017</b> , 7, 8331-8337	13.1	44
48	A new, palladacycle for ppm level Pd-catalyzed Suzuki-Miyaura cross couplings in water. <i>Chemical Science</i> , <b>2019</b> , 10, 8825-8831	9.4	41
47	Micelle-Enabled Photoassisted Selective Oxyhalogenation of Alkynes in Water under Mild Conditions. <i>Journal of Organic Chemistry</i> , <b>2018</b> , 83, 7366-7372	4.2	38

46	Micellar catalysis-enabled sustainable ppm Au-catalyzed reactions in water at room temperature. <i>Chemical Science</i> , <b>2017</b> , 8, 6354-6358	9.4	38
45	EvanPhos: a ligand for ppm level Pd-catalyzed Suzuki-Miyaura couplings in either organic solvent or water. <i>Green Chemistry</i> , <b>2018</b> , 20, 3436-3443	10	33
44	Sustainable and Scalable Fe/ppm Pd Nanoparticle Nitro Group Reductions in Water at Room Temperature. <i>Organic Process Research and Development</i> , <b>2017</b> , 21, 247-252	3.9	32
43	Insights on Bimetallic Micellar Nanocatalysis for Buchwald-Hartwig Aminations. <i>ACS Catalysis</i> , <b>2019</b> , 9, 10389-10397	13.1	31
42	Aerobic Oxidation in Nanomicelles of Aryl Alkynes, in Water at Room Temperature. <i>Angewandte Chemie</i> , <b>2014</b> , 126, 3500-3503	3.6	30
41	A Glimpse into Green Chemistry Practices in the Pharmaceutical Industry. <i>ChemSusChem</i> , <b>2020</b> , 13, 2859-2875	8.75	28
40	Recyclable cellulose-palladium nanoparticles for clean cross-coupling chemistry. <i>Organic and Biomolecular Chemistry</i> , <b>2018</b> , 16, 2748-2752	3.9	26
39	Lactam-Synthone-Interceded, Facile, One-Pot, Diastereoselective Synthesis of Functionalized Tetra/Octahydroisoquinolone Derivatives. <i>European Journal of Organic Chemistry</i> , <b>2011</b> , 2011, 2697-2704	4.2	26
38	Shielding Effect of Micelle for Highly Effective and Selective Monofluorination of Indoles in Water. <i>ChemSusChem</i> , <b>2019</b> , 12, 3037-3042	8.3	25
37	Allylpalladium Species in Micelles of FI-750-M for Sustainable and General Suzuki-Miyaura Couplings of Unactivated Quinoline Systems in Water. <i>ChemCatChem</i> , <b>2018</b> , 10, 4229-4233	5.2	25
36	Asymmetric Gold-Catalyzed Lactonizations in Water at Room Temperature. <i>Angewandte Chemie</i> , <b>2014</b> , 126, 10834-10838	3.6	23
35	Fast Amide Couplings in Water: Extraction, Column Chromatography, and Crystallization Not Required. <i>Organic Letters</i> , <b>2020</b> , 22, 5737-5740	6.2	22
34	Hydrophobic Pockets of HPMC Enable Extremely Short Reaction Times in Water. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2020</b> , 8, 12612-12617	8.3	20
33	Safe and Selective Nitro Group Reductions Catalyzed by Sustainable and Recyclable Fe/ppm Pd Nanoparticles in Water at Room Temperature. <i>Angewandte Chemie</i> , <b>2016</b> , 128, 9125-9129	3.6	20
32	Scalable Arylation of Nitriles in Aqueous Micelles using Ultrasmall Pd Nanoparticles: Surprising Formation of Carbanions in Water. <i>ACS Catalysis</i> , <b>2020</b> , 10, 6816-6821	13.1	19
31	Microballs Containing Ni(0)/Pd(0) Nanoparticles for Highly Selective Micellar Catalysis in Water. <i>ACS Catalysis</i> , <b>2019</b> , 9, 7520-7526	13.1	19
30	Reactivity of Carbenes in Aqueous Nanomicelles Containing Palladium Nanoparticles. <i>ACS Catalysis</i> , <b>2019</b> , 9, 10963-10970	13.1	19
29	Simple Silver Salts and Palladium Bis(N-heterocyclic carbene) Complexes As Complementary Catalysts for the Nazarov Cyclization. <i>ACS Catalysis</i> , <b>2011</b> , 1, 1371-1374	13.1	19

28	Competing amination and C-H arylation pathways in Pd/xantphos-catalyzed transformations of binaphthyl triflates: switchable routes to chiral amines and helicene derivatives. <i>Organic and Biomolecular Chemistry</i> , <b>2016</b> , 14, 8123-40	3.9	17
27	HandaPhos: A General Ligand Enabling Sustainable ppm Levels of Palladium-Catalyzed Cross-Couplings in Water at Room Temperature. <i>Angewandte Chemie</i> , <b>2016</b> , 128, 4998-5002	3.6	17
26	Nanonickel-Catalyzed SuzukiMiyaura Cross-Couplings in Water. <i>Angewandte Chemie</i> , <b>2015</b> , 127, 12162-12166	3.66	16
25	Chugaev-type bis(acyclic diaminocarbenes) as a new ligand class for the palladium-catalyzed MizorokiHeck reaction. <i>Applied Organometallic Chemistry</i> , <b>2012</b> , 26, 712-717	3.1	15
24	Access to 2-Substituted binaphthyl monoalcohols via complementary nickel-catalyzed Kumada coupling reactions under mild conditions: key role of a P,O ligand. <i>Journal of Organic Chemistry</i> , <b>2013</b> , 78, 5694-9	4.2	14
23	Organopolymer with dual chromophores and fast charge-transfer properties for sustainable photocatalysis. <i>Nature Communications</i> , <b>2019</b> , 10, 1837	17.4	13
22	Lactam synthon-interceded diastereoselective synthesis of functionalized octahydroindole-based molecular scaffolds and their in vitro cytotoxic evaluation. <i>European Journal of Medicinal Chemistry</i> , <b>2012</b> , 58, 513-8	6.8	12
21	Organometallic Catalysis and Sustainability: From Origin to Date. <i>Johnson Matthey Technology Review</i> , <b>2017</b> , 61, 231-245	2.5	11
20	The magical but endangered metal: searching for sustainable palladium catalysis. <i>Current Opinion in Green and Sustainable Chemistry</i> , <b>2018</b> , 11, 45-53	7.9	11
19	Enantiomeric separation of isochromene derivatives by high-performance liquid chromatography using cyclodextrin based stationary phases and principal component analysis of the separation data. <i>Journal of Chromatography A</i> , <b>2013</b> , 1305, 94-101	4.5	11
18	Ligand- and Brønsted acid/base-switchable reaction pathways in gold(I)-catalyzed cycloisomerizations of allenic acids. <i>Organic and Biomolecular Chemistry</i> , <b>2015</b> , 13, 3936-49	3.9	11
17	Metal-Micelle Cooperativity: Phosphine Ligand-Free Ultrasmall Palladium(II) Nanoparticles for Oxidative Mizoroki-Heck-type Couplings in Water at Room Temperature. <i>Jacs Au</i> , <b>2021</b> , 1, 308-315		11
16	Shielding Effect of Nanomicelles: Stable and Catalytically Active Oxidizable Pd(0) Nanoparticle Catalyst Compatible for Cross-Couplings of Water-Sensitive Acid Chlorides in Water. <i>Jacs Au</i> , <b>2021</b> , 1, 1506-1513		8
15	Cross-couplings in Water – A Better Way to Assemble New Bonds <b>2020</b> , 203-238		7
14	HPMC: A Biomass-Based Semisynthetic Sustainable Additive Enabling Clean and Fast Chemistry in Water. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2021</b> , 9, 12719-12728	8.3	6
13	Nucleophilic aromatic substitution reactions under aqueous, mild conditions using polymeric additive HPMC. <i>Green Chemistry</i> , <b>2021</b> , 23, 3955-3962	10	6
12	The Resurrection of Murahashi Coupling after Four Decades. <i>ACS Catalysis</i> , 13188-13202	13.1	5
11	Nanochannels in Photoactive Polymeric Cu(I) Compatible for Efficient Micellar Catalysis: Sustainable Aerobic Oxidations of Alcohols in Water. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2021</b> , 9, 2854-2860	8.3	5

10	The Catalytic Formation of Atropisomers and Stereocenters via Asymmetric Suzuki-Miyaura Couplings. <i>ACS Catalysis</i> , 4918-4937	13.1	4
9	Titelbild: Enantioselective Alkynylbenzaldehyde Cyclizations Catalyzed by Chiral Gold(I) Acyclic Diaminocarbene Complexes Containing Weak Au $\pi$ -Arene Interactions (Angew. Chem. 12/2012). <i>Angewandte Chemie</i> , 2012, 124, 3082-3082	3.6	3
8	Insights into Fast Amide Couplings in Aqueous Nanomicelles. <i>Organic Process Research and Development</i> , 2021, 25, 1960-1965	3.9	3
7	A Glimpse into Green Chemistry Practices in the Pharmaceutical Industry. <i>ChemSusChem</i> , 2020, 13, 2806-2813	8.3	2
6	Highly Sterically Encumbered Gold Acyclic Diaminocarbene Complexes: Overriding Electronic Control in Regiodivergent Gold Catalysis. <i>Organometallics</i> , 2021, 40, 1416-1433	3.8	2
5	Reactivity of Styrenes in Micelles: Safe, Selective, and Sustainable Functionalization with Azides and Carboxylic Acids. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 5513-5518	8.3	2
4	Photoassisted Charge Transfer Between DMF and Substrate: Facile and Selective N,N-Dimethylamination of Fluoroarenes. <i>ChemSusChem</i> , 2021, 14, 2704-2709	8.3	1
3	Titelbild: HandaPhos: A General Ligand Enabling Sustainable ppm Levels of Palladium-Catalyzed Cross-Couplings in Water at Room Temperature (Angew. Chem. 16/2016). <i>Angewandte Chemie</i> , 2016, 128, 4921-4921	3.6	1
2	Back Cover: Enantioselective Alkynylbenzaldehyde Cyclizations Catalyzed by Chiral Gold(I) Acyclic Diaminocarbene Complexes Containing Weak Au $\pi$ -Arene Interactions (Angew. Chem. Int. Ed. 12/2012). <i>Angewandte Chemie - International Edition</i> , 2012, 51, 3028-3028	16.4	
1	Allylpalladium Species in Micelles of FI-750-M for Sustainable and General Suzuki-Miyaura Couplings of Unactivated Quinoline Systems in Water. <i>ChemCatChem</i> , 2018, 10, 4194-4194	5.2	