Sachin Handa

List of Publications by Year in Descending Order

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	Highly Sterically Encumbered Gold Acyclic Diaminocarbene Complexes: Overriding Electronic Control in Regiodivergent Gold Catalysis. *Organometallics*, **2021**, 40, 1416-1433	3.8	2
62	Reactivity of Styrenes in Micelles: Safe, Selective, and Sustainable Functionalization with Azides and Carboxylic Acids. *ACS Sustainable Chemistry and Engineering*, **2021**, 9, 5513-5518	8.3	2
61	Photoassisted Charge Transfer Between DMF and Substrate: Facile and Selective N,N-Dimethylamination of Fluoroarenes. *ChemSusChem*, **2021**, 14, 2704-2709	8.3	1
60	Shielding Effect of Nanomicelles: Stable and Catalytically Active Oxidizable Pd(0) Nanoparticle Catalyst Compatible for Cross-Couplings of Water-Sensitive Acid Chlorides in Water. *Jacs Au*, **2021**, 1, 1506-1513		8
59	Metal-Micelle Cooperativity: Phosphine Ligand-Free Ultrasmall Palladium(II) Nanoparticles for Oxidative Mizoroki-Heck-type Couplings in Water at Room Temperature. *Jacs Au*, **2021**, 1, 308-315		11
58	Nanochannels in Photoactive Polymeric Cu(I) Compatible for Efficient Micellar Catalysis: Sustainable Aerobic Oxidations of Alcohols in Water. *ACS Sustainable Chemistry and Engineering*, **2021**, 9, 2854-2860	8.3	5
57	Insights into Fast Amide Couplings in Aqueous Nanomicelles. *Organic Process Research and Development*, **2021**, 25, 1960-1965	3.9	3
56	HPMC: A Biomass-Based Semisynthetic Sustainable Additive Enabling Clean and Fast Chemistry in Water. *ACS Sustainable Chemistry and Engineering*, **2021**, 9, 12719-12728	8.3	6
55	Nucleophilic aromatic substitution reactions under aqueous, mild conditions using polymeric additive HPMC. *Green Chemistry*, **2021**, 23, 3955-3962	10	6
54	A Glimpse into Green Chemistry Practices in the Pharmaceutical Industry. *ChemSusChem*, **2020**, 13, 2806	8.3	2
53	Fast Amide Couplings in Water: Extraction, Column Chromatography, and Crystallization Not Required. *Organic Letters*, **2020**, 22, 5737-5740	6.2	22
52	A Glimpse into Green Chemistry Practices in the Pharmaceutical Industry. *ChemSusChem*, **2020**, 13, 2859-2875	8.3	28
51	Cross-couplings in Water A Better Way to Assemble New Bonds **2020**, 203-238		7
50	Scalable Arylation of Nitriles in Aqueous Micelles using Ultrasmall Pd Nanoparticles: Surprising Formation of Carbanions in Water. *ACS Catalysis*, **2020**, 10, 6816-6821	13.1	19
49	Hydrophobic Pockets of HPMC Enable Extremely Short Reaction Times in Water. *ACS Sustainable Chemistry and Engineering*, **2020**, 8, 12612-12617	8.3	20
48	Insights on Bimetallic Micellar Nanocatalysis for BuchwaldHartwig Aminations. *ACS Catalysis*, **2019** , 9, 10389-10397	13.1	31
47	Organopolymer with dual chromophores and fast charge-transfer properties for sustainable photocatalysis. *Nature Communications*, **2019**, 10, 1837	17.4	13

46	Shielding Effect of Micelle for Highly Effective and Selective Monofluorination of Indoles in Water. *ChemSusChem*, **2019**, 12, 3037-3042	8.3	25
45	A new, palladacycle for ppm level Pd-catalyzed Suzuki-Miyaura cross couplings in water. *Chemical Science*, **2019**, 10, 8825-8831	9.4	41
44	Microballs Containing Ni(0)Pd(0) Nanoparticles for Highly Selective Micellar Catalysis in Water. *ACS Catalysis*, **2019**, 9, 7520-7526	13.1	19
43	Reactivity of Carbenes in Aqueous Nanomicelles Containing Palladium Nanoparticles. *ACS Catalysis*, **2019**, 9, 10963-10970	13.1	19
42	Sonogashira Couplings Catalyzed by Fe Nanoparticles Containing ppm Levels of Reusable Pd, under Mild Aqueous Micellar Conditions. *ACS Catalysis*, **2019**, 9, 2423-2431	13.1	52
41	Sustainable HandaPhos-ppm Palladium Technology for Copper-Free Sonogashira Couplings in Water under Mild Conditions. *Organic Letters*, **2018**, 20, 542-545	6.2	47
40	Micelle-Enabled Photoassisted Selective Oxyhalogenation of Alkynes in Water under Mild Conditions. *Journal of Organic Chemistry*, **2018**, 83, 7366-7372	4.2	38
39	The magical but endangered metal: searching for sustainable palladium catalysis. *Current Opinion in Green and Sustainable Chemistry*, **2018**, 11, 45-53	7.9	11
38	Recyclable cellulose-palladium nanoparticles for clean cross-coupling chemistry. *Organic and Biomolecular Chemistry*, **2018**, 16, 2748-2752	3.9	26
37	Micelle-enabled clean and selective sulfonylation of polyfluoroarenes in water under mild conditions. *Green Chemistry*, **2018**, 20, 1784-1790	10	47
36	Allylpalladium Species in Micelles of FI-750-M for Sustainable and General Suzuki-Miyaura Couplings of Unactivated Quinoline Systems in Water. *ChemCatChem*, **2018**, 10, 4194-4194	5.2	
35	Allylpalladium Species in Micelles of FI-750-M for Sustainable and General Suzuki-Miyaura Couplings of Unactivated Quinoline Systems in Water. *ChemCatChem*, **2018**, 10, 4229-4233	5.2	25
34	EvanPhos: a ligand for ppm level Pd-catalyzed SuzukiMiyaura couplings in either organic solvent or water. *Green Chemistry*, **2018**, 20, 3436-3443	10	33
33	Sustainable and Scalable Fe/ppm Pd Nanoparticle Nitro Group Reductions in Water at Room Temperature. *Organic Process Research and Development*, **2017**, 21, 247-252	3.9	32
32	Organometallic Catalysis and Sustainability: From Origin to Date. *Johnson Matthey Technology Review*, **2017**, 61, 231-245	2.5	11
31	Micelle-Enabled Palladium Catalysis for Convenient sp2-sp3 Coupling of Nitroalkanes with Aryl Bromides in Water Under Mild Conditions. *ACS Catalysis*, **2017**, 7, 7245-7250	13.1	57
30	Micellar catalysis-enabled sustainable ppm Au-catalyzed reactions in water at room temperature. *Chemical Science*, **2017**, 8, 6354-6358	9.4	38
29	A Micellar Catalysis Strategy for SuzukiMiyaura Cross-Couplings of 2-Pyridyl MIDA Boronates: No Copper, in Water, Very Mild Conditions. *ACS Catalysis*, **2017**, 7, 8331-8337	13.1	44

28	Competing amination and C-H arylation pathways in Pd/xantphos-catalyzed transformations of binaphthyl triflates: switchable routes to chiral amines and helicene derivatives. *Organic and Biomolecular Chemistry*, **2016**, 14, 8123-40	3.9	17
27	Evolution of Solvents in Organic Chemistry. *ACS Sustainable Chemistry and Engineering*, **2016**, 4, 5838-5849	8.3	142
26	Synergistic and Selective Copper/ppm Pd-Catalyzed Suzuki–Miyaura Couplings: In Water, Mild Conditions, with Recycling. *ACS Catalysis*, **2016**, 6, 8179-8183	13.1	49
25	HandaPhos: A General Ligand Enabling Sustainable ppm Levels of Palladium-Catalyzed Cross-Couplings in Water at Room Temperature. *Angewandte Chemie*, **2016**, 128, 4998-5002	3.6	17
24	Safe and Selective Nitro Group Reductions Catalyzed by Sustainable and Recyclable Fe/ppm Pd Nanoparticles in Water at Room Temperature. *Angewandte Chemie - International Edition*, **2016**, 55, 8979-83	16.4	94
23	Safe and Selective Nitro Group Reductions Catalyzed by Sustainable and Recyclable Fe/ppm Pd Nanoparticles in Water at Room Temperature. *Angewandte Chemie*, **2016**, 128, 9125-9129	3.6	20
22	HandaPhos: A General Ligand Enabling Sustainable ppm Levels of Palladium-Catalyzed Cross-Couplings in Water at Room Temperature. *Angewandte Chemie - International Edition*, **2016**, 55, 4914-8	16.4	106
21	Titelbild: HandaPhos: A General Ligand Enabling Sustainable ppm Levels of Palladium-Catalyzed Cross-Couplings in Water at Room Temperature (Angew. Chem. 16/2016). *Angewandte Chemie*, **2016**, 128, 4921-4921	3.6	1
20	Sustainable Fe-ppm Pd nanoparticle catalysis of Suzuki-Miyaura cross-couplings in water. *Science*, **2015**, 349, 1087-91	33.3	202
19	Nanonickel-Catalyzed Suzuki–Miyaura Cross-Couplings in Water. *Angewandte Chemie*, **2015**, 127, 12162-12166	3.6	16
18	Nanonickel-catalyzed Suzuki-Miyaura cross-couplings in water. *Angewandte Chemie - International Edition*, **2015**, 54, 11994-8	16.4	76
17	Ligand- and Brønsted acid/base-switchable reaction pathways in gold(I)-catalyzed cycloisomerizations of allenoic acids. *Organic and Biomolecular Chemistry*, **2015**, 13, 3936-49	3.9	11
16	Aerobic oxidation in nanomicelles of aryl alkynes, in water at room temperature. *Angewandte Chemie - International Edition*, **2014**, 53, 3432-5	16.4	121
15	Aerobic Oxidation in Nanomicelles of Aryl Alkynes, in Water at Room Temperature. *Angewandte Chemie*, **2014**, 126, 3500-3503	3.6	30
14	Asymmetric gold-catalyzed lactonizations in water at room temperature. *Angewandte Chemie - International Edition*, **2014**, 53, 10658-62	16.4	71
13	Asymmetric Gold-Catalyzed Lactonizations in Water at Room Temperature. *Angewandte Chemie*, **2014**, 126, 10834-10838	3.6	23
12	Enantiomeric separation of isochromene derivatives by high-performance liquid chromatography using cyclodextrin based stationary phases and principal component analysis of the separation data. *Journal of Chromatography A*, **2013**, 1305, 94-101	4.5	11
11	Access to 2′-substituted binaphthyl monoalcohols via complementary nickel-catalyzed Kumada coupling reactions under mild conditions: key role of a P,O ligand. *Journal of Organic Chemistry*, **2013**, 78, 5694-9	4.2	14

10	Chugaev-type bis(acyclic diaminocarbenes) as a new ligand class for the palladium-catalyzed Mizoroki□Heck reaction. *Applied Organometallic Chemistry*, **2012**, 26, 712-717	3.1	15
9	□Lactam synthon-interceded diastereoselective synthesis of functionalized octahydroindole-based molecular scaffolds and their in vitro cytotoxic evaluation. *European Journal of Medicinal Chemistry*, **2012**, 58, 513-8	6.8	12
8	Enantioselective Alkynylbenzaldehyde Cyclizations Catalyzed by Chiral Gold(I) Acyclic Diaminocarbene Complexes Containing Weak Au□Arene Interactions. *Angewandte Chemie*, **2012**, 124, 2966-2969	3.6	69
7	R□ktitelbild: Enantioselective Alkynylbenzaldehyde Cyclizations Catalyzed by Chiral Gold(I) Acyclic Diaminocarbene Complexes Containing Weak Au□Arene Interactions (Angew. Chem. 12/2012). *Angewandte Chemie*, **2012**, 124, 3082-3082	3.6	3
6	Enantioselective alkynylbenzaldehyde cyclizations catalyzed by chiral gold(I) acyclic diaminocarbene complexes containing weak Au-arene interactions. *Angewandte Chemie - International Edition*, **2012**, 51, 2912-5	16.4	191
5	Back Cover: Enantioselective Alkynylbenzaldehyde Cyclizations Catalyzed by Chiral Gold(I) Acyclic Diaminocarbene Complexes Containing Weak Au□Arene Interactions (Angew. Chem. Int. Ed. 12/2012). *Angewandte Chemie - International Edition*, **2012**, 51, 3028-3028	16.4	
4	Simple Silver Salts and Palladium Bis(N-heterocyclic carbene) Complexes As Complementary Catalysts for the Nazarov Cyclization. *ACS Catalysis*, **2011**, 1, 1371-1374	13.1	19
3	□Lactam-Synthon-Interceded, Facile, One-Pot, Diastereoselective Synthesis of Functionalized Tetra/Octahydroisoquinolone Derivatives. *European Journal of Organic Chemistry*, **2011**, 2011, 2697-2704	3.2	26
2	The Resurrection of Murahashi Coupling after Four Decades. *ACS Catalysis*,13188-13202	13.1	5
1	The Catalytic Formation of Atropisomers and Stereocenters via Asymmetric Suzuki□Miyaura Couplings. *ACS Catalysis*,4918-4937	13.1	4