Audrey Denicourt-Nowicki

List of Publications by Citations

69 papers	1,819 citations	28 h-index	40 g-index
77 ext. papers	1,950 ext. citations	5.2 avg, IF	4.57 L-index

#	Paper	IF	Citations
69	Supramolecular shuttle and protective agent: a multiple role of methylated cyclodextrins in the chemoselective hydrogenation of benzene derivatives with ruthenium nanoparticles. *Chemical Communications*, **2006**, 296-8	5.8	78
68	Cyclodextrin-based systems for the stabilization of metallic(0) nanoparticles and their versatile applications in catalysis. *Catalysis Today*, **2014**, 235, 20-32	5.3	76
67	Nanoheterogeneous Catalytic Hydrogenation of Arenes: Evaluation of the Surfactant-Stabilized Aqueous Ruthenium(0) Colloidal Suspension. *Advanced Synthesis and Catalysis*, **2007**, 349, 2326-2330	5.6	71
66	A simple and reproducible method for the synthesis of silica-supported rhodium nanoparticles and their investigation in the hydrogenation of aromatic compounds. *New Journal of Chemistry*, **2006**, 30, 1214-1219	3.6	67
65	Rhodium nanocatalysts stabilized by various bipyridine ligands in nonaqueous ionic liquids: influence of the bipyridine coordination modes in arene catalytic hydrogenation. *Inorganic Chemistry*, **2008**, 47, 9090-6	5.1	64
64	Synthesis of Bipyridine-Stabilized Rhodium Nanoparticles in Non-Aqueous Ionic Liquids: A New Efficient Approach for Arene Hydrogenation with Nanocatalysts. *Advanced Synthesis and Catalysis*, **2008**, 350, 153-159	5.6	63
63	Diphosphite ligands derived from carbohydrates as stabilizers for ruthenium nanoparticles: promising catalytic systems in arene hydrogenation. *Chemical Communications*, **2008**, 2759-61	5.8	62
62	Methylated cyclodextrins: an efficient protective agent in water for zerovalent ruthenium nanoparticles and a supramolecular shuttle in alkene and arene hydrogenation reactions. *Dalton Transactions*, **2007**, 5714-9	4.3	61
61	Experimental and theoretical evidences of the influence of hydrogen bonding on the catalytic activity of a series of 2-hydroxy substituted quaternary ammonium salts in the styrene oxide/CO2 coupling reaction. *Journal of Catalysis*, **2016**, 333, 29-39	7.3	57
60	Catalytically active nanoparticles stabilized by host-guest inclusion complexes in water. *Chemical Communications*, **2009**, 1228-30	5.8	55
59	PTA-Stabilized Ruthenium and Platinum Nanoparticles: Characterization and Investigation in Aqueous Biphasic Hydrogenation Catalysis. *European Journal of Inorganic Chemistry*, **2012**, 2012, 1229-1236	2.3	50
58	Rh(0) colloids supported on TiO2: a highly active and pertinent tandem in neat water for the hydrogenation of aromatics. *Green Chemistry*, **2011**, 13, 1766	10	50
57	Carbohydrate-derived 1,3-diphosphite ligands as chiral nanoparticle stabilizers: promising catalytic systems for asymmetric hydrogenation. *ChemSusChem*, **2009**, 2, 769-79	8.3	50
56	New ammonium surfactant-stabilized rhodium(0) colloidal suspensions: influence of novel counter-anions on physico-chemical and catalytic properties. *Dalton Transactions*, **2011**, 40, 6524-31	4.3	47
55	About the Use of Rhodium Nanoparticles in Hydrogenation and Hydroformylation Reactions. *Current Organic Chemistry*, **2013**, 17, 364-399	1.7	40
54	Polyhydroxylated ammonium chloride salt: a new efficient surfactant for nanoparticles stabilisation in aqueous media. Characterization and application in catalysis. *Dalton Transactions*, **2009**, 7356-8	4.3	39
53	TiO2-supported Rh nanoparticles: From green catalyst preparation to application in arene hydrogenation in neat water. *Green Chemistry*, **2010**, 12, 1167	10	38

52	Alkyl sulfonated diphosphines-stabilized ruthenium nanoparticles as efficient nanocatalysts in hydrogenation reactions in biphasic media. *Catalysis Today*, **2012**, 183, 34-41	5.3	36
51	Competitive hydrogenation/dehalogenation of halogenoarenes with surfactant-stabilized aqueous suspensions of rhodium and palladium colloids: A major effect of the metal nature. *Journal of Molecular Catalysis A*, **2007**, 266, 221-225		36
50	N-donor ligands based on bipyridine and ionic liquids: an efficient partnership to stabilize rhodium colloids. Focus on oxygen-containing compounds hydrogenation. *Physical Chemistry Chemical Physics*, **2011**, 13, 13510-7	3.6	35
49	Imidazolium-functionalized bipyridine derivatives: a promising family of ligands for catalytical Rh(0) colloids. *Tetrahedron Letters*, **2009**, 50, 6531-6533	2	35
48	Magnetically Recoverable Palladium(0) Nanocomposite Catalyst for Hydrogenation Reactions in Water. *ChemCatChem*, **2015**, 7, 309-315	5.2	34
47	Reduced forms of Rh(III) containing MCM-41 silicas as hydrogenation catalysts for arene derivatives. *Journal of Molecular Catalysis A*, **2006**, 259, 91-98		33
46	A surfactant-assisted preparation of well dispersed rhodium nanoparticles within the mesopores of AlSBA-15: characterization and use in catalysis. *Chemical Communications*, **2008**, 2920-2	5.8	32
45	Carbon-supported ruthenium nanoparticles stabilized by methylated cyclodextrins: a new family of heterogeneous catalysts for the gas-phase hydrogenation of arenes. *Chemistry - A European Journal* , **2008**, 14, 8090-3	4.8	32
44	Methylated Cyclodextrin-Capped Ruthenium Nanoparticles: Synthesis Strategies, Characterization, and Application in Hydrogenation Reactions. *ChemCatChem*, **2013**, 5, 1497-1503	5.2	31
43	Rhodium colloidal suspensions stabilised by poly-N-donor ligands in non-aqueous ionic liquids: preliminary investigation into the catalytic hydrogenation of arenes. *ChemSusChem*, **2008**, 1, 984-7	8.3	31
42	Chiral ammonium-capped rhodium(0) nanocatalysts: synthesis, characterization, and advances in asymmetric hydrogenation in neat water. *ChemSusChem*, **2012**, 5, 91-101	8.3	29
41	Toluene total oxidation over Pd and Au nanoparticles supported on hydroxyapatite. *Comptes Rendus Chimie*, **2016**, 19, 525-537	2.7	28
40	Efficient Ruthenium Nanocatalysts in Liquid–Liquid Biphasic Hydrogenation Catalysis: Towards a Supramolecular Control through a Sulfonated Diphosphine–Cyclodextrin Smart Combination. *ChemCatChem*, **2013**, 5, 3802-3811	5.2	26
39	Moving from surfactant-stabilized aqueous rhodium (0) colloidal suspension to heterogeneous magnetite-supported rhodium nanocatalysts: Synthesis, characterization and catalytic performance in hydrogenation reactions. *Catalysis Today*, **2012**, 183, 124-129	5.3	26
38	Model arenes hydrogenation with silica-supported rhodium nanoparticles: The role of the silica grains and of the solvent on catalytic activities. *Catalysis Communications*, **2009**, 10, 1235-1239	3.2	26
37	Magnetically Retrievable Rh(0) Nanocomposite as Relevant Catalyst for Mild Hydrogenation of Functionalized Arenes in Water. *ACS Sustainable Chemistry and Engineering*, **2016**, 4, 1834-1839	8.3	25
36	Asymmetric Allylic Alkylation **2014**, 85-126		24
35	Tandem dehalogenation–hydrogenation reaction of halogenoarenes as model substrates of endocrine disruptors in water: Rhodium nanoparticles in suspension vs. on silica support. *Applied Catalysis A: General*, **2011**, 394, 215-219	5.1	24

34	Water soluble polymer–surfactant complexes-stabilized Pd(0) nanocatalysts: Characterization and structure–activity relationships in biphasic hydrogenation of alkenes and α,β-unsaturated ketones. *Journal of Catalysis*, **2016**, 340, 144-153	7.3	18
33	Synthesis of new functionalized polymers and their use as stabilizers of Pd, Pt, and Rh nanoparticles. Preliminary catalytic studies. *Journal of Applied Polymer Science*, **2007**, 105, 2772-2782	2.9	18
32	Catalytic asymmetric carbonylative silylcarbocyclization of enynes. *Tetrahedron: Asymmetry*, **2004**, 15, 3019-3022		18
31	Novel access to verbenone via ruthenium nanoparticles-catalyzed oxidation of α-pinene in neat water. *Applied Catalysis A: General*, **2018**, 550, 266-273	5.1	17
30	Efficient catalytic ozonation by ruthenium nanoparticles supported on SiO 2 or TiO 2 : Towards the use of a non-woven fiber paper as original support. *Chemical Engineering Journal*, **2016**, 289, 374-381	14.7	16
29	From Hydroxyalkylammonium Salts to Protected-Rh(0) Nanoparticles for Catalysis in Water: Comparative Studies of the Polar Heads. *Topics in Catalysis*, **2013**, 56, 1220-1227	2.3	16
28	Rhodium colloidal suspension deposition on porous silica particles by dry impregnation: Study of the influence of the reaction conditions on nanoparticles location and dispersion and catalytic reactivity. *Chemical Engineering Journal*, **2009**, 151, 372-379	14.7	16
27	β-Cyclodextrins grafted with chiral amino acids: A promising supramolecular stabilizer of nanoparticles for asymmetric hydrogenation?. *Applied Catalysis A: General*, **2013**, 467, 497-503	5.1	15
26	Noble Metal Nanoparticles Stabilized by Cyclodextrins: A Pertinent Partnership for Catalytic Applications. *Current Organic Chemistry*, **2010**, 14, 1266-1283	1.7	15
25	N-methylephedrium salts as chiral surfactants for asymmetric hydrogenation in neat water with rhodium(0) nanocatalysts. *ChemSusChem*, **2010**, 3, 1276-9	8.3	15
24	N-(2-hydroxyethyl)ammonium derivatives as protective agents for Pd(0) nanocolloids and catalytic investigation in Suzuki reactions in aqueous media. *Catalysis Communications*, **2008**, 10, 68-70	3.2	14
23	Construction of quaternary carbon stereocentres: catalytic enantioselective allylation assisted by a bimetallic catalytic system. *Tetrahedron: Asymmetry*, **2005**, 16, 1295-1298		14
22	Odyssey in Polyphasic Catalysis by Metal Nanoparticles. *Chemical Record*, **2016**, 16, 2127-41	6.6	13
21	Highly Selective Preparation of a Chiral Quaternary Allyl Aryl Piperidinedione by Palladium-Catalyzed Asymmetric Allylation Under Solid–Liquid Phase-Transfer Catalysis. *European Journal of Organic Chemistry*, **2007**, 2007, 6124-6127	3.2	13
20	New and tunable hydroxylated driving agents for the production of tailor-made gold nanorods. *RSC Advances*, **2013**, 3, 18292	3.7	9
19	Active hydrogenation Rh nanocatalysts protected by new self-assembled supramolecular complexes of cyclodextrins and surfactants in water. *RSC Advances*, **2016**, 6, 108125-108131	3.7	8
18	Tunable hydroxylated surfactants: an efficient toolbox towards anisotropic gold nanoparticles. *RSC Advances*, **2014**, 4, 25875-25879	3.7	8
17	Ruthenium Trichloride Catalyst in Water: Ru Colloids versus Ru Dimer Characterization Investigations. *Inorganic Chemistry*, **2019**, 58, 4141-4151	5.1	7

16	Highly Selective Cycloalkane Oxidation in Water with Ruthenium Nanoparticles. *ChemCatChem*, **2016**, 8, 357-362	5.2	7
15	Metallic Nanoparticles in Neat Water for Catalytic Applications **2012**, 55-95		7
14	Catalytic Oxidation Processes for the Upgrading of Terpenes: State-of-the-Art and Future Trends. *Catalysts*, **2019**, 9, 893	4	7
13	From hydroxycetylammonium salts to their chiral counterparts. A library of efficient stabilizers of Rh(0) nanoparticles for catalytic hydrogenation in water. *Catalysis Today*, **2015**, 247, 90-95	5.3	6
12	Multigram Scale-up of the Selective Hydrogenation of □Pinene with Ruthenium Nanoparticles in Water. *ACS Sustainable Chemistry and Engineering*, **2020**, 8, 5985-5993	8.3	6
11	Preparation of chiral key intermediates of morpholine based neurokinin receptor antagonists by asymmetric allylic alkylation. *Tetrahedron*, **2013**, 69, 6424-6430	2.4	5
10	Development of a Sustainable Heterogeneous Catalyst Based on an Open-Cell Glass Foam Support: Application in Gas-Phase Ozone Decomposition. *ACS Sustainable Chemistry and Engineering*, **2020**, 8, 2854-2864	8.3	5
9	Synthesis of the □Northern-Hemisphere□Fragments of the Thiopeptide Antibiotic Nosiheptide. *Synlett*, **2006**, 2006, 3033-3036	2.2	4
8	CHAPTER 6:Ammonium Surfactant-capped Rh(0) Nanoparticles for Biphasic Hydrogenation. *RSC Catalysis Series*,99-111	0.3	3
7	Novel and Sustainable Catalytic Ruthenium-Doped Glass Foam for Thermocatalytic Oxidation of Volatile Organic Compounds: An Experimental and Modeling Study. *Industrial & Engineering Chemistry Research*, **2020**, 59, 14758-14766	3.9	3
6	Synthesis of a Chiral Key Intermediate of Neurokinin Antagonist SSR 240600 by Asymmetric Allylic Alkylation. *Synlett*, **2011**, 2011, 2939-2942	2.2	2
5	Selective palladium nanoparticles-catalyzed hydrogenolysis of industrially targeted epoxides in water. *Journal of Catalysis*, **2021**, 396, 261-268	7.3	1
4	Simulation and optimization of the removal of toluene in air by ozonation with a catalytic open-cell foam. *Chemical Engineering Research and Design*, **2021**, 168, 453-464	5.5	1
3	Metal Nanoparticles in Water: A Relevant Toolbox for Green Catalysis **2021**, 43-71		0
2	Impact of the charge transfer process on the Fe2+/Fe3+distribution at Fe3O4 magnetic surface induced by deposited Pd clusters. *Surface Science*, **2021**, 712, 121879	1.8	0
1	Remediation of Diethyl Phthalate in Aqueous Effluents with TiO2-Supported Rh0 Nanoparticles as Multicatalytic Materials. *Catalysts*, **2021**, 11, 1166	4	