FrÃ©dÃ©ric Hapiot

List of Publications by Year
in descending order

98 papers	3,110 citations	126708 33 h-index	189595 50 g-index
113 all docs	113 docs citations	113 times ranked	2886 citing authors

#	Article	IF	Citations
1	Cyclodextrins as Supramolecular Hosts for Organometallic Complexes. Chemical Reviews, 2006, 106, 767-781.	23.0	394
2	Recent breakthroughs in aqueous cyclodextrin-assisted supramolecular catalysis. Catalysis Science and Technology, 2014, 4, 1899.	2.1	100
3	The aminophosphine-phosphinites and related ligands: synthesis, coordination chemistry and enantioselective catalysis1Dedicated to the memory of Professor Francis Petit1. Coordination Chemistry Reviews, 1998, 178-180, 1615-1645.	9.5	96
4	Cyclodextrins and their applications in aqueous-phase metal-catalyzed reactions. Comptes Rendus Chimie, 2011, 14, 149-166.	0.2	92
5	Thermoresponsive Hydrogels in Catalysis. ACS Catalysis, 2013, 3, 1006-1010.	5.5	87
6	Hydrogen Production by Selective Dehydrogenation of HCOOH Catalyzed by Ru-Biaryl Sulfonated Phosphines in Aqueous Solution. ACS Catalysis, 2014, 4, 3002-3012.	5.5	68
7	Sulfonated Xantphos Ligand and Methylated Cyclodextrin:Â A Winning Combination for Rhodium-Catalyzed Hydroformylation of Higher Olefins in Aqueous Medium. Organometallics, 2005, 24, 2070-2075.	1.1	66
8	Pickering Emulsions Based on Supramolecular Hydrogels: Application to Higher Olefinsâ€™ Hydroformylation. ACS Catalysis, 2013, 3, 1618-1621.	5.5	64
9	High-Pressure31P{1H}â€...NMR Studies of RhH(CO)(TPPTS)3 in the Presence of Methylated Cyclodextrins: New Light on Rhodium-Catalyzed Hydroformylation Reaction Assisted by Cyclodextrins. Advanced Synthesis and Catalysis, 2004, 346, 425-431.	2.1	59
10	Unexpected Multifunctional Effects of Methylated Cyclodextrins in a Palladium Charcoal-Catalyzed Suzukiâˆ'Miyaura Reaction. Organic Letters, 2006, 8, 4823-4826.	2.4	58
11	Cyclodextrins as effective additives in AuNP-catalyzed reduction of nitrobenzene derivatives in a ball-mill. Green Chemistry, 2016, 18, 5500-5509.	4.6	58
12	Chemically Modified Cyclodextrins: An Attractive Class of Supramolecular Hosts for the Development of Aqueous Biphasic Catalytic Processes. Sustainability, 2009, 1, 924-945.	1.6	55
13	Cyclodextrins or Calixarenes: What is the Best Mass Transfer Promoter for Suzuki Cross-Coupling Reactions in Water?. Advanced Synthesis and Catalysis, 2004, 346, 83-89.	2.1	53
14	Self-Assembled Supramolecular Bidentate Ligands for Aqueous Organometallic Catalysis. Angewandte Chemie - International Edition, 2007, 46, 3040-3042.	7.2	53
15	Rhodium-Catalyzed Hydroformylation Promoted by Modified Cyclodextrins:Current Scope and Future Developments. Current Organic Synthesis, 2008, 5, 162-172.	0.7	50
16	About the Use of Rhodium Nanoparticles in Hydrogenation and Hydroformylation Reactions. Current Organic Chemistry, 2013, 17, 364-399.	0.9	47
17	Chemically modified cyclodextrins adsorbed on Pd/C particles: New opportunities to generate highly chemo- and stereoselective catalysts for Heck reaction. Catalysis Communications, 2008, 9, 1346-1351.	1.6	46
18	Catalysis in Cyclodextrin-Based Unconventional Reaction Media: Recent Developments and Future Opportunities. ACS Sustainable Chemistry and Engineering, 2017, 5, 3598-3606.	3.2	46

#	Article	IF	Citations
19	Click chemistry as an efficient tool to access Î²-cyclodextrin dimers. Tetrahedron, 2008, 64, 7159-7163.	1.0	44
20	Aqueous rhodium-catalyzed hydroformylation of 1-decene in the presence of randomly methylated Î²-cyclodextrin and 1,3,5-triaza-7-phosphaadamantane derivatives. Applied Catalysis A: General, 2009, 362, 62-66.	2.2	44
21	Functionalized Cyclodextrins as First and Second Coordination Sphere Ligands for Aqueous Organometallic Catalysis. European Journal of Inorganic Chemistry, 2012, 2012, 1571-1578.	1.0	44
22	Cooperativity in Aqueous Organometallic Catalysis: Contribution of Cyclodextrin-Substituted Polymers. ACS Catalysis, 2012, 2, 1417-1420.	5.5	42
23	Cyclodextrins as Mass Transfer Additives in Aqueous Organometallic Catalysis. Current Organic Chemistry, 2010, 14, 1296-1307.	0.9	41
24	Greener Paalâ€"Knorr Pyrrole Synthesis by Mechanical Activation. European Journal of Organic Chemistry, 2016, 2016, 31-35.	1.2	41
25	Nanoparticleâ€Based Catalysis using Supramolecular Hydrogels. Advanced Synthesis and Catalysis, 2012, 354, 1269-1272.	2.1	40
26	Substrate-selective aqueous organometallic catalysis. How size and chemical modification of cyclodextrin influence the substrate selectivity. Tetrahedron, 2004, 60, 6487-6493.	1.0	39
27	Selective Secondary Face Modification of Cyclodextrins by Mechanosynthesis. Journal of Organic Chemistry, 2015, 80, 6259-6266.	1.7	39
28	Heptakis(2,3-di-O-methyl-6-O-sulfopropyl)-Î²-cyclodextrin: A Genuine Supramolecular Carrier for Aqueous Organometallic Catalysis. Advanced Synthesis and Catalysis, 2006, 348, 379-386.	2.1	38
29	Hydroformylation of vegetable oils: More than 50 years of technical innovation, successful research, and development. European Journal of Lipid Science and Technology, 2016, 118, 26-35.	1.0	38
30	Unusual Inversion Phenomenon of Î²â€Cyclodextrin Dimers in Water. Chemistry - A European Journal, 2011, 17, 3949-3955.	1.7	37
31	Unconventional Approaches Involving Cyclodextrin-Based, Self-Assembly-Driven Processes for the Conversion of Organic Substrates in Aqueous Biphasic Catalysis. Catalysts, 2017, 7, 173.	1.6	37
32	Cleavage of water-insoluble alkylallylcarbonates catalysed by a palladium/TPPTS/cyclodextrin system: effect of phosphine/cyclodextrin interactions on the reaction rate. Journal of Molecular Catalysis A, 2004, 215, 23-32.	4.8	35
33	Sulfobutyl Ether-Î²-Cyclodextrins: Promising Supramolecular Carriers for Aqueous Organometallic Catalysis. Advanced Synthesis and Catalysis, 2005, 347, 1301-1307.	2.1	35
34	Easily Accessible Monoâ€•and Polytopic ÂÎ²â€Cyclodextrin Hosts by Click Chemistry. European Journal of Organic Chemistry, 2008, 2008, 5723-5730.	1.2	35
35	Synergetic Effect of Randomly Methylated Î²-Cyclodextrin and a Supramolecular Hydrogel in Rh-Catalyzed Hydroformylation of Higher Olefins. ACS Catalysis, 2014, 4, 2342-2346.	5.5	32
36	Rhodium-catalyzed one pot synthesis of hydroxymethylated triglycerides. Green Chemistry, 2016, 18, 6687-6694.	4.6	32

#	Article	IF	Citations
37	Supramolecularly controlled surface activity of an amphiphilic ligand. Application to aqueous biphasic hydroformylation of higher olefins. Catalysis Science and Technology, 2011, 1, 1347.	2.1	31
38	Water-Soluble Triphenylphosphane-3,3â€²,3â€²â€²-tricarboxylate (m-TPPTC) Ligand and Methylated Cyclodextrins: A New Combination for Biphasic Rhodium-Catalyzed Hydroformylation of Higher Olefins. Advanced Synthesis and Catalysis, 2006, 348, 1547-1552.	2.1	30
39	Cyclodextrin/Amphiphilic Phosphane Mixed Systems and their Applications in Aqueous Organometallic Catalysis. Advanced Synthesis and Catalysis, 2012, 354, 1337-1346.	2.1	30
40	Rhodiumâ€catalyzed hydroformylation of unsaturated fatty esters in aqueous media assisted by activated carbon. European Journal of Lipid Science and Technology, 2012, 114, 1439-1446.	1.0	29
41	Fine tuning of sulfoalkylated cyclodextrin structures to improve their mass-transfer properties in an aqueous biphasic hydroformylation reaction. Journal of Molecular Catalysis A, 2008, 286, 11-20.	4.8	26
42	Recent developments in cyclodextrinâ€mediated aqueous biphasic hydroformylation and tsujiâ€“trost reactions. Applied Organometallic Chemistry, 2015, 29, 580-587.	1.7	26
43	Catalytic Decarbonylation of Biosourced Substrates. ChemSusChem, 2015, 8, 1585-1592.	3.6	25
44	Hydroformylation of Alkenes in a Planetary Ball Mill: From Additiveâ€Controlled Reactivity to Supramolecular Control of Regioselectivity. Angewandte Chemie - International Edition, 2017, 56, 10564-10568.	7.2	25
45	Amphiphilic photo-isomerisable phosphanes for aqueous organometallic catalysis. Chemical Communications, 2010, 46, 7813.	2.2	23
46	Lower- and upper-rim-modified derivatives of 1,3,5-triaza-7-phosphaadamantane: Coordination chemistry and applications in catalytic reactions in water. Pure and Applied Chemistry, 2012, 85, 385-396.	0.9	23
47	Cyclodextrin-Based SupramolecularP,NBidentate Ligands and their Platinum and Rhodium Complexes. Organometallics, 2010, 29, 6668-6674.	1.1	22
48	The Role of Metals and Ligands in Organic Hydroformylation. Topics in Current Chemistry, 2013, 342, 1-47.	4.0	22
49	Methylated-Î²-cyclodextrins: useful discriminating tools for substrate-selective reactions in aqueous organometallic catalysis. Catalysis Communications, 2004, 5, 265-270.	1.6	21
50	Substrate-selective aqueous organometallic catalysis. How small water-soluble organic molecules enhance the supramolecular discrimination. Tetrahedron, 2005, 61, 4811-4817.	1.0	21
51	Tetronics/cyclodextrin-based hydrogels as catalyst-containing media for the hydroformylation of higher olefins. Catalysis Science and Technology, 2017, 7, 114-123.	2.1	21
52	Hydroformylation of vegetable oils and the potential use of hydroformylated fatty acids. Lipid Technology, 2013, 25, 175-178.	0.3	20
53	Water-soluble phosphane-substituted cyclodextrin as an effective bifunctional additive in hydroformylation of higher olefins. Catalysis Science and Technology, 2017, 7, 3823-3830.	2.1	20
54	Optically Active Homogeneous Mixtures of Cholesteric Liquid Crystals and a New Coordination Compound: Eu(Thenoyltrifluoroacetonate)3. (Cholesteryl Tetradecanoate or Nonanoate). Molecular Crystals and Liquid Crystals, 1999, 330, 143-150.	0.3	19

#	Article	IF	Citations
55	A Propertyâ€Matched Waterâ€Soluble Analogue of the Benchmark Ligand PPh₃. ChemSusChem, 2008, 1, 631-636.	3.6	19
56	Impact of cyclodextrins on the behavior of amphiphilic ligands in aqueous organometallic catalysis. Beilstein Journal of Organic Chemistry, 2012, 8, 1479-1484.	1.3	19
57	Limits of the Inversion Phenomenon in Triazolylâ€Substituted Î²â€Cyclodextrin Dimers. European Journal of Organic Chemistry, 2014, 2014, 1547-1556.	1.2	19
58	Synthesis of new chiral arene ruthenium(II) aminophosphinephosphinite complexes and use in asymmetric hydrogenation of an activated keto compound. Tetrahedron: Asymmetry, 1994, 5, 515-518.	1.8	18
59	Using click chemistry to access mono- and ditopic Î²-cyclodextrin hosts substituted by chiral amino acids. Carbohydrate Research, 2011, 346, 210-218.	1.1	18
60	Supramolecular Emulsifiers in Biphasic Catalysis: The Substrate Drives Its Own Transformation. ACS Catalysis, 2015, 5, 4288-4292.	5.5	18
61	Evidence of a self-inclusion phenomenon for a new class of mono-substituted alkylammonium-Î²-cyclodextrins. Organic and Biomolecular Chemistry, 2005, 3, 1129-1133.	1.5	17
62	A self-emulsifying catalytic system for the aqueous biphasic hydroformylation of triglycerides. Catalysis Science and Technology, 2016, 6, 3064-3073.	2.1	16
63	Î²-Cyclodextrins grafted with chiral amino acids: A promising supramolecular stabilizer of nanoparticles for asymmetric hydrogenation?. Applied Catalysis A: General, 2013, 467, 497-503.	2.2	15
64	Asymmetric catalytic hydrogenation of Î±-ketoesters using new chiral Ru(II)(AMPP) complexes. Tetrahedron: Asymmetry, 1995, 6, 11-14.	1.8	14
65	Supramolecular Trapping of Phosphanes by Cyclodextrins: A General Approach to Generate Phosphane Coordinatively Unsaturated Organometallic Complexes. European Journal of Inorganic Chemistry, 2006, 2006, 1611-1619.	1.0	14
66	Cyclodextrins Modified by Metal-Coordinating Groups for Aqueous Organometallic Catalysis: What Remains to be Done?. Current Organocatalysis, 2015, 3, 24-31.	0.3	14
67	Enantioselective hydrogenation of Î±- and Î²-functionalized ketones by Ru(II){AMPP} catalysts. Tetrahedron: Asymmetry, 1997, 8, 2881-2884.	1.8	13
68	Multifunctional cyclodextrin-based N,N-bidentate ligands for aqueous Heck arylation. Applied Catalysis A: General, 2014, 479, 1-8.	2.2	13
69	Thermoresponsive self-assembled cyclodextrin-end-decorated PNIPAM for aqueous catalysis. Chemical Communications, 2015, 51, 2328-2330.	2.2	13
70	A hydroaminomethylation/hydrohydroxymethylation sequence for the one pot synthesis of aminohydroxytriglycerides. Green Chemistry, 2017, 19, 1940-1948.	4.6	13
71	Hydroaminomethylation of oleochemicals: A comprehensive overview. European Journal of Lipid Science and Technology, 2018, 120, 1700190.	1.0	13
72	A versatile liposome/cyclodextrin supramolecular carrier for drug delivery through the blood-brain barrier. Journal of Inclusion Phenomena and Macrocyclic Chemistry, 2007, 57, 567-572.	1.6	12

#	Article	IF	Citations
73	Ditopic Cyclodextrinâ€Based Receptors: New Perspectives in Aqueous Organometallic Catalysis. Advanced Synthesis and Catalysis, 2010, 352, 1467-1475.	2.1	12
74	How cyclodextrins can mask their toxic effect on the bloodâ€"brain barrier. Bioorganic and Medicinal Chemistry Letters, 2006, 16, 1784-1787.	1.0	11
75	Cyclodextrin-based PNN supramolecular assemblies: a new class of pincer-type ligands for aqueous organometallic catalysis. Dalton Transactions, 2015, 44, 13504-13512.	1.6	11
76	Hydroformylation of Alkenes in a Planetary Ball Mill: From Additiveâ€Controlled Reactivity to Supramolecular Control of Regioselectivity. Angewandte Chemie, 2017, 129, 10700-10704.	1.6	11
77	Pillar5arenes as Supramolecular Hosts in Aqueous Biphasic Rhodiumâ€Catalyzed Hydroformylation of Long Alkylâ€chain Alkenes. ChemCatChem, 2018, 10, 5306-5313.	1.8	11
78	Cyclodextrins: a new and effective class of co-modulators for aqueous zirconium-MOF syntheses. CrystEngComm, 2021, 23, 2764-2772.	1.3	11
79	Adamantoylated monosaccharides: new compounds for modification of the properties of cyclodextrin-containing materials. Carbohydrate Research, 2005, 340, 1461-1468.	1.1	10
80	Water-soluble diphosphadiazacyclooctanes as ligands for aqueous organometallic catalysis. Catalysis Communications, 2012, 29, 77-81.	1.6	10
81	Cyclodextrin-grafted polymers functionalized with phosphanes: a new tool for aqueous organometallic catalysis. Beilstein Journal of Organic Chemistry, 2014, 10, 2642-2648.	1.3	10
82	Hydrogenation of hydrophobic substrates catalyzed by gold nanoparticles embedded in Tetronic/cyclodextrin-based hydrogels. New Journal of Chemistry, 2019, 43, 9865-9872.	1.4	10
83	Cyclodextrins as first and second sphere ligands for Rh(I) complexes of lower-rim PTA derivatives for use as catalysts in aqueous phase hydrogenation. Catalysis Communications, 2015, 63, 74-78.	1.6	9
84	One pot synthesis of aminohydroxylated triglycerides under aqueous biphasic conditions. Catalysis Communications, 2019, 125, 37-42.	1.6	9
85	Hydroformylation in Aqueous Biphasic Media Assisted by Molecular Receptors. Topics in Current Chemistry, 2013, 342, 49-78.	4.0	8
86	Amines as effective ligands in iridium-catalyzed decarbonylative dehydration of biosourced substrates. Catalysis Science and Technology, 2018, 8, 3948-3953.	2.1	8
87	Particle size effect in the mechanically assisted synthesis of Î²-cyclodextrin mesitylene sulfonate. Beilstein Journal of Organic Chemistry, 2020, 16, 2598-2606.	1.3	7
88	New lanthanide-cholesteryl ester complexes: spectroscopic evidence of their non-mesogenic character. Magnetic Resonance in Chemistry, 2001, 39, 15-22.	1.1	6
89	Alignment of a nematic liquid crystal using substituted calixarene Langmuir-Blodgett films. Liquid Crystals, 2003, 30, 463-469.	0.9	6
90	Novel Strategy for the Bis-Butenolide Synthesis via Ring-Closing Metathesis. Synthesis, 2012, 44, 137-143.	1.2	6

#	Article	IF	Citations
91	Homogenous catalytic hydrogenation of bicarbonate with water soluble aryl phosphine ligands. Inorganica Chimica Acta, 2015, 431, 132-138.	1.2	6
92	Conjugated Dienyl Derivatives by Green Bisallylic Substitution: Synthetic and Mechanistic Insight. ChemCatChem, 2016, 8, 2321-2328.	1.8	6
93	Oneâ€Pot Twoâ€Step Synthesis of Hydroxymethylated Unsaturated VHOSO and Its Application to the Synthesis of Biobased Polyurethanes. European Journal of Lipid Science and Technology, 2020, 122, 2000158.	1.0	6
94	Cyclodextrins as Porous Material for Catalysis. , 2016, , 15-42.		4
95	Selective Rutheniumâ€Catalyzed Hydroaminomethylation of Unsaturated Oleochemicals. European Journal of Lipid Science and Technology, 2020, 122, 1900131.	1.0	4
96	Improvement of the dopant compatibility in a chiral LC mixture by structural modification of lanthanide complexes. Liquid Crystals, 2006, 33, 921-927.	0.9	3
97	Organometallic Inclusion and Intercalation Chemistry. , 2007, , 781-835.		1
98	cRhâ€Catalyzed Hydroformylation of Divinylglycol: An Effective Way to Access 2,7â€Dioxadecalinâ€3,8â€diol. European Journal of Organic Chemistry, 2019, 2019, 4372-4376.	1.2	0