

HervÃ© Bricout

List of Publications by Year in descending order

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94
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126708

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104
all docs

104
docs citations

104
times ranked

2394
citing authors

#	ARTICLE	IF	CITATIONS
1	Epimerization of isosorbide catalyzed by homogeneous ruthenium-phosphine complexes: A new step towards an industrial process. <i>Inorganica Chimica Acta</i> , 2021, 515, 120094.	1.2	2
2	Asymmetric hydrogenation of ethyl pyruvate over aqueous dispersed Pt nanoparticles stabilized by a cinchonidine-functionalized β -cyclodextrin. <i>Catalysis Communications</i> , 2021, 150, 106272.	1.6	2
3	Hydrohydroxymethylation of Ethyl Ricinoleate and Castor Oil. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 9444-9454.	3.2	18
4	Reductive Hydroformylation of Isosorbide Diallyl Ether. <i>Molecules</i> , 2021, 26, 7322.	1.7	11
5	Anionic Amphiphilic Cyclodextrins Bearing Oleic Grafts for the Stabilization of Ruthenium Nanoparticles Efficient in Aqueous Catalytic Hydrogenation. <i>ChemCatChem</i> , 2020, 12, 1013-1018.	1.8	8
6	Rhodium-Catalyzed Aqueous Biphasic Olefin Hydroformylation Promoted by Amphiphilic Cyclodextrins. <i>Catalysts</i> , 2020, 10, 56.	1.6	18
7	Catalytic reduction of 4-nitrophenol with gold nanoparticles stabilized by large-ring cyclodextrins. <i>New Journal of Chemistry</i> , 2020, 44, 21007-21011.	1.4	17
8	Multiscale Structure of Starches Grafted with Hydrophobic Groups: A New Analytical Strategy. <i>Molecules</i> , 2020, 25, 2827.	1.7	13
9	rRh^{I} -Catalyzed Hydroformylation of Divinylglycol: An Effective Way to Access 2,7-Dioxadecalin-3,8-diol. <i>European Journal of Organic Chemistry</i> , 2019, 2019, 4372-4376.	1.2	0
10	Highly Water-Soluble Amphiphilic Cyclodextrins Bearing Branched and Cyclic Oleic Grafts. <i>European Journal of Organic Chemistry</i> , 2019, 2019, 4863-4868.	1.2	4
11	First Evidence of Cyclodextrin Inclusion Complexes in a Deep Eutectic Solvent. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 6345-6351.	3.2	41
12	Synthesis of 2-Hydroxydodecyl Starch Ethers: Importance of the Purification Process. <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 2437-2444.	1.8	5
13	Oleic Acid Based Cyclodextrins for the Development of New Hydrosoluble Amphiphilic Compounds. <i>European Journal of Organic Chemistry</i> , 2019, 2019, 1236-1241.	1.2	6
14	New water-soluble Schiff base ligands based on β -cyclodextrin for aqueous biphasic hydroformylation reaction. <i>Pure and Applied Chemistry</i> , 2018, 90, 845-855.	0.9	7
15	Unconventional media and technologies for starch etherification and esterification. <i>Green Chemistry</i> , 2018, 20, 1152-1168.	4.6	75
16	Catalysis in Cyclodextrin-Based Unconventional Reaction Media: Recent Developments and Future Opportunities. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 3598-3606.	3.2	46
17	Green and Scalable Palladium-Carbon-Catalyzed Tsuji-Trost Coupling Reaction Using an Efficient and Continuous Flow System. <i>European Journal of Organic Chemistry</i> , 2017, 2017, 1078-1085.	1.2	10
18	Deep eutectic solvents as green absorbents of volatile organic pollutants. <i>Environmental Chemistry Letters</i> , 2017, 15, 747-753.	8.3	66

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19	Water-soluble phosphane-substituted cyclodextrin as an effective bifunctional additive in hydroformylation of higher olefins. <i>Catalysis Science and Technology</i> , 2017, 7, 3823-3830.	2.1	20
20	Transition Metal Complexes Coordinated by Water Soluble Phosphane Ligands: How Cyclodextrins Can Alter the Coordination Sphere?. <i>Molecules</i> , 2017, 22, 140.	1.7	4
21	β -Cyclodextrins Decrease Cholesterol Release and ABC-Associated Transporter Expression in Smooth Muscle Cells and Aortic Endothelial Cells. <i>Frontiers in Physiology</i> , 2016, 7, 185.	1.3	28
22	Cleavage of Benzyl Phosphonium Salts as Efficient Bypass for the Synthesis of Disulfonated Alkyldiphenylphosphanes Bearing an Oleum-sensitive Alkyl Group. <i>European Journal of Organic Chemistry</i> , 2016, 2016, 3322-3325.	1.2	2
23	Recent developments in cyclodextrin-mediated aqueous biphasic hydroformylation and tsuji-trost reactions. <i>Applied Organometallic Chemistry</i> , 2015, 29, 580-587.	1.7	26
24	Tetrasulfonated 1,2-bis(diphenylphosphanyl)ethane as a Building Block for the Synthesis of Disulfonated Alkyldiphenylphosphanes. <i>European Journal of Organic Chemistry</i> , 2015, 2015, 5509-5512.	1.2	2
25	Cyclodextrins Modified by Metal-Coordinating Groups for Aqueous Organometallic Catalysis: What Remains to be Done?. <i>Current Organocatalysis</i> , 2015, 3, 24-31.	0.3	14
26	Rhodium catalyzed hydroformylation of 1-decene in low melting mixtures based on various cyclodextrins and N,N-dimethylurea. <i>Catalysis Communications</i> , 2015, 63, 62-65.	1.6	37
27	Homogenous catalytic hydrogenation of bicarbonate with water soluble aryl phosphine ligands. <i>Inorganica Chimica Acta</i> , 2015, 431, 132-138.	1.2	6
28	Rhodium catalyzed hydroformylation assisted by cyclodextrins in biphasic medium: Can sulfonated naphthylphosphanes lead to active, selective and recyclable catalytic species?. <i>Catalysis Today</i> , 2015, 247, 47-54.	2.2	15
29	Synthesis and characterization of a new photoinduced switchable β -cyclodextrin dimer. <i>Beilstein Journal of Organic Chemistry</i> , 2014, 10, 2874-2885.	1.3	20
30	Organometallic synthesis of water-soluble ruthenium nanoparticles in the presence of sulfonated diphosphines and cyclodextrins. <i>Materials Research Society Symposia Proceedings</i> , 2014, 1675, 219-225.	0.1	2
31	Low melting mixtures based on β -cyclodextrin derivatives and N,N-dimethylurea as solvents for sustainable catalytic processes. <i>Green Chemistry</i> , 2014, 16, 3876-3880.	4.6	50
32	Hydrogen Production by Selective Dehydrogenation of HCOOH Catalyzed by Ru-Biaryl Sulfonated Phosphines in Aqueous Solution. <i>ACS Catalysis</i> , 2014, 4, 3002-3012.	5.5	68
33	Recent breakthroughs in aqueous cyclodextrin-assisted supramolecular catalysis. <i>Catalysis Science and Technology</i> , 2014, 4, 1899.	2.1	100
34	Efficient Ruthenium Nanocatalysts in Liquid-Liquid Biphasic Hydrogenation Catalysis: Towards a Supramolecular Control through a Sulfonated Diphosphine-Cyclodextrin Smart Combination. <i>ChemCatChem</i> , 2013, 5, 3802-3811.	1.8	29
35	A cyclodextrin dimer as a supramolecular reaction platform for aqueous organometallic catalysis. <i>Chemical Communications</i> , 2013, 49, 6989.	2.2	28
36	Hydroformylation in Aqueous Biphasic Media Assisted by Molecular Receptors. <i>Topics in Current Chemistry</i> , 2013, 342, 49-78.	4.0	8

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37	Aqueous biphasic hydrogenation of benzene catalyzed by ruthenium complex of trisulfonated tris(biphenyl)phosphine. <i>Catalysis Science and Technology</i> , 2012, 2, 2273.	2.1	4
38	Water-soluble diphosphadiazacyclooctanes as ligands for aqueous organometallic catalysis. <i>Catalysis Communications</i> , 2012, 29, 77-81.	1.6	10
39	Aqueous biphasic hydroformylation in the presence of cyclodextrins mixtures: evidence of a positive synergistic effect. <i>Dalton Transactions</i> , 2012, 41, 8643.	1.6	24
40	Cyclodextrin- β -phosphane possessing a guest-tunable conformation for aqueous rhodium-catalyzed hydroformylation. <i>Chemical Communications</i> , 2012, 48, 753-755.	2.2	47
41	Rhodium-catalyzed hydroformylation of unsaturated fatty esters in aqueous media assisted by activated carbon. <i>European Journal of Lipid Science and Technology</i> , 2012, 114, 1439-1446.	1.0	29
42	Phosphane-Based Cyclodextrins as Mass Transfer Agents and Ligands for Aqueous Organometallic Catalysis. <i>Molecules</i> , 2012, 17, 13062-13072.	1.7	21
43	Impact of cyclodextrins on the behavior of amphiphilic ligands in aqueous organometallic catalysis. <i>Beilstein Journal of Organic Chemistry</i> , 2012, 8, 1479-1484.	1.3	19
44	Functionalized Cyclodextrins as First and Second Coordination Sphere Ligands for Aqueous Organometallic Catalysis. <i>European Journal of Inorganic Chemistry</i> , 2012, 2012, 1571-1578.	1.0	44
45	Cyclodextrin/Amphiphilic Phosphane Mixed Systems and their Applications in Aqueous Organometallic Catalysis. <i>Advanced Synthesis and Catalysis</i> , 2012, 354, 1337-1346.	2.1	30
46	Alkyl sulfonated diphosphines-stabilized ruthenium nanoparticles as efficient nanocatalysts in hydrogenation reactions in biphasic media. <i>Catalysis Today</i> , 2012, 183, 34-41.	2.2	38
47	Biphasic hydroformylation of 1-octene catalyzed by cobalt complex of trisulfonated tris(biphenyl)phosphine. <i>Applied Catalysis A: General</i> , 2012, 413-414, 273-279.	2.2	21
48	Interaction of water-soluble triphenylphosphines with β -cyclodextrin: a quantum chemistry study. <i>Journal of Physical Organic Chemistry</i> , 2011, 24, 1129-1135.	0.9	6
49	Synthesis, Rhodium Complexes and Catalytic Applications of a New Water-Soluble Triphenylphosphane-Modified β -Cyclodextrin. <i>Advanced Synthesis and Catalysis</i> , 2011, 353, 1325-1334.	2.1	32
50	Properties and Catalytic Activities of New Easily-Made Amphiphilic Phosphanes for Aqueous Organometallic Catalysis. <i>Advanced Synthesis and Catalysis</i> , 2010, 352, 1193-1203.	2.1	27
51	Ditopic Cyclodextrin-Based Receptors: New Perspectives in Aqueous Organometallic Catalysis. <i>Advanced Synthesis and Catalysis</i> , 2010, 352, 1467-1475.	2.1	12
52	Cyclodextrins as Mass Transfer Additives in Aqueous Organometallic Catalysis. <i>Current Organic Chemistry</i> , 2010, 14, 1296-1307.	0.9	41
53	Amphiphilic photo-isomerisable phosphanes for aqueous organometallic catalysis. <i>Chemical Communications</i> , 2010, 46, 7813.	2.2	23
54	Chemically Modified Cyclodextrins: An Attractive Class of Supramolecular Hosts for the Development of Aqueous Biphasic Catalytic Processes. <i>Sustainability</i> , 2009, 1, 924-945.	1.6	55

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55	A Property-Matched Water-Soluble Analogue of the Benchmark Ligand PPh ₃ . ChemSusChem, 2008, 1, 631-636.	3.6	19
56	Biphasic Aqueous Organometallic Catalysis Promoted by Cyclodextrins: How to Design the Water-Soluble Phenylphosphane to Avoid Interaction with Cyclodextrin. Advanced Synthesis and Catalysis, 2008, 350, 609-618.	2.1	36
57	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
58	Self-Assembled Supramolecular Bidentate Ligands for Aqueous Organometallic Catalysis. Angewandte Chemie - International Edition, 2007, 46, 3040-3042.	7.2	53
59	Biphasic aqueous organometallic catalysis promoted by cyclodextrins: Can surface tension measurements explain the efficiency of chemically modified cyclodextrins?. Journal of Colloid and Interface Science, 2007, 307, 481-487.	5.0	77
60	Supramolecular shuttle and protective agent: a multiple role of methylated cyclodextrins in the chemoselective hydrogenation of benzene derivatives with ruthenium nanoparticles. Chemical Communications, 2006, , 296-298.	2.2	84
61	Methylated β -cyclodextrin as P-gp modulators for deliverance of doxorubicin across an in vitro model of blood-brain barrier. Bioorganic and Medicinal Chemistry Letters, 2006, 16, 2154-2157.	1.0	48
62	Eco-efficient Catalytic Hydrodechlorination of Carbon Tetrachloride in Aqueous Cyclodextrin Solutions. Catalysis Letters, 2006, 108, 209-214.	1.4	13
63	Peracetylated β -cyclodextrin as solubilizer of arylphosphines in supercritical carbon dioxide. Journal of Supercritical Fluids, 2006, 36, 173-181.	1.6	23
64	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
65	Heptakis(2,3-di-O-methyl-6-O-sulfopropyl)- β -cyclodextrin: A Genuine Supramolecular Carrier for Aqueous Organometallic Catalysis. Advanced Synthesis and Catalysis, 2006, 348, 379-386.	2.1	38
66	Substrate-selective aqueous organometallic catalysis. How small water-soluble organic molecules enhance the supramolecular discrimination. Tetrahedron, 2005, 61, 4811-4817.	1.0	21
67	Two-Phase Hydroformylation of Higher Olefins Using Randomly Methylated β -Cyclodextrin as Mass Transfer Promoter: A Smart Solution for Preserving the Intrinsic Properties of the Rhodium/Trisulfonated Triphenylphosphine Catalytic System. Advanced Synthesis and Catalysis, 2005, 347, 55-59.	2.1	41
68	Sulfobutyl Ether- β -Cyclodextrins: Promising Supramolecular Carriers for Aqueous Organometallic Catalysis. Advanced Synthesis and Catalysis, 2005, 347, 1301-1307.	2.1	35
69	Rhodium Complexes Non-Covalently Bound to Cyclodextrins: Novel Water-Soluble Supramolecular Catalysts for the Biphasic Hydroformylation of Higher Olefins. Chemistry - A European Journal, 2005, 11, 6228-6236.	1.7	31
70	Complexation of Monosulfonated Triphenylphosphine with Chemically Modified β -Cyclodextrins: Effect of Substituents on the Stability of Inclusion Complexes. Journal of Inclusion Phenomena and Macroscopic Chemistry, 2005, 51, 79-85.	1.6	17
71	Behavior of α -, β -, and γ -Cyclodextrins and Their Derivatives on an in Vitro Model of Blood-Brain Barrier. Journal of Pharmacology and Experimental Therapeutics, 2004, 310, 745-751.	1.3	93
72	Substrate-selective aqueous organometallic catalysis. How size and chemical modification of cyclodextrin influence the substrate selectivity. Tetrahedron, 2004, 60, 6487-6493.	1.0	39

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73	Cleavage of water-insoluble alkylallylcarbonates catalysed by a palladium/TPPTS/cyclodextrin system: effect of phosphine/cyclodextrin interactions on the reaction rate. <i>Journal of Molecular Catalysis A</i> , 2004, 215, 23-32.	4.8	35
74	Cyclodextrins or Calixarenes: What is the Best Mass Transfer Promoter for Suzuki Cross-Coupling Reactions in Water?. <i>Advanced Synthesis and Catalysis</i> , 2004, 346, 83-89.	2.1	53
75	High-Pressure $^31\text{P}\{1\text{H}\}$ NMR Studies of $\text{RhH}(\text{CO})(\text{TPPTS})_3$ in the Presence of Methylated Cyclodextrins: New Light on Rhodium-Catalyzed Hydroformylation Reaction Assisted by Cyclodextrins. <i>Advanced Synthesis and Catalysis</i> , 2004, 346, 425-431.	2.1	59
76	Molecular Recognition Between a Water-Soluble Organometallic Complex and a β -Cyclodextrin: First Example of Second-Sphere Coordination Adducts Possessing a Catalytic Activity. <i>Advanced Synthesis and Catalysis</i> , 2004, 346, 1449-1456.	2.1	33
77	Effects of β - and Hydroxypropyl- β -cyclodextrins on the Transport of Doxorubicin across an in Vitro Model of Blood-Brain Barrier. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2004, 311, 1115-1120.	1.3	48
78	Methylated- β -cyclodextrins: useful discriminating tools for substrate-selective reactions in aqueous organometallic catalysis. <i>Catalysis Communications</i> , 2004, 5, 265-270.	1.6	21
79	Unexpected Effect of Cyclodextrins on Water-Soluble Rhodium Complexes. <i>European Journal of Inorganic Chemistry</i> , 2003, 2003, 595-599.	1.0	27
80	Complexation of monosulfonated triphenylphosphine oxides with β -cyclodextrin: spectroscopic study and consequence on the behaviour of cyclodextrins in aqueous-phase organometallic catalysis. <i>New Journal of Chemistry</i> , 2003, 27, 1603-1608.	1.4	12
81	Phosphocontaining Cyclodextrins as a New Class of Supramolecular Structures. <i>Phosphorus, Sulfur and Silicon and the Related Elements</i> , 2002, 177, 1489-1492.	0.8	0
82	Cyclodextrins as inverse phase transfer catalysts for the biphasic catalytic hydrogenation of aldehydes: a green and easy alternative to conventional mass transfer promoters. <i>Green Chemistry</i> , 2002, 4, 188-193.	4.6	53
83	Convenient synthesis of new amphiphilic triphenylphosphine analogues for aqueous biphasic catalysis. <i>Tetrahedron Letters</i> , 2001, 42, 8837-8840.	0.7	24
84	Substrate-selective catalysis in an aqueous biphasic system with per(2,6-di-O-methyl)- β -cyclodextrin. <i>Catalysis Today</i> , 2001, 66, 355-361.	2.2	30
85	Chemically Modified β -Cyclodextrins as Supramolecular Carriers in the Biphasic Palladium-Catalyzed Cleavage of Allylic Carbonates: Activity Enhancement and Substrate-Selective Catalysis. <i>European Journal of Organic Chemistry</i> , 1999, 1999, 3127-3129.	1.2	31
86	Synthetic and kinetic aspects of nickel-catalysed amination of allylic alcohol derivatives. <i>Tetrahedron</i> , 1998, 54, 1073-1084.	1.0	39
87	Homogeneous and Biphasic Nickel-Catalyzed Isomerization of Allylic Alcohols. <i>European Journal of Inorganic Chemistry</i> , 1998, 1998, 1739-1744.	1.0	48
88	Nickel vs. palladium catalysts for coupling reactions of allyl alcohol with soft nucleophiles: activities and deactivation processes. <i>Journal of Molecular Catalysis A</i> , 1998, 136, 243-251.	4.8	73
89	Efficient coupling reactions of allyl amines with soft nucleophiles using nickel-based catalysts. <i>Chemical Communications</i> , 1997, , 1393-1394.	2.2	33
90	Further developments in metal-catalysed $\text{C}-\text{C}$ bond cleavage in allylic dimethyl malonate derivatives. <i>Tetrahedron Letters</i> , 1997, 38, 1053-1056.	0.7	34

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91	Bis(aminophosphine)-nickel complexes as efficient catalysts for alkylation of allylic acetates with stabilized nucleophiles. <i>Tetrahedron Letters</i> , 1996, 37, 6105-6108.	0.7	55
92	Nickel-catalysed substitution reactions of allylic compounds with soft nucleophiles: an efficient alternative to palladium catalysis. <i>Journal of the Chemical Society Chemical Communications</i> , 1995, , 1863.	2.0	42
93	Highly selective synthesis of 4-vinylcyclohexene by cyclodimerization of Butadiene catalysed by aminophosphinephosphinite and bis(aminophosphine) chiral ligands nickel complexes. <i>Tetrahedron Letters</i> , 1994, 35, 413-416.	0.7	30
94	Highly regio- and stereo-controlled hydroformylation of ortho-substituted (<i>1</i> -6-styrene)chromium complexes. <i>Journal of Organometallic Chemistry</i> , 1994, 483, c1-c5.	0.8	7