# HervÃ© Bricout

List of Publications by Year
in descending order



| | | | |
|---|---|---|---|
| 94 papers | 2,800 citations | 126708 33 h-index | 214527 47 g-index |
| 104 all docs | 104 docs citations | 104 times ranked | 2394 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Recent breakthroughs in aqueous cyclodextrin-assisted supramolecular catalysis. Catalysis Science and Technology, 2014, 4, 1899. | 2.1 | 100 |
| 2 | Behavior of Î±-, Î²-, and Î³-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 |
| 3 | 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 |
| 4 | 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 |
| 5 | Unconventional media and technologies for starch etherification and esterification. Green Chemistry, 2018, 20, 1152-1168. | 4.6 | 75 |
| 6 | Nickel vs. palladium catalysts for coupling reactions of allyl alcohol with soft nucleophiles: activities and deactivation processes. Journal of Molecular Catalysis A, 1998, 136, 243-251. | 4.8 | 73 |
| 7 | 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 |
| 8 | Deep eutectic solvents as green absorbents of volatile organic pollutants. Environmental Chemistry Letters, 2017, 15, 747-753. | 8.3 | 66 |
| 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 | Bis(aminophosphine)-nickel complexes as efficient catalysts for alkylation of allylic acetates with stabilized nucleophiles. Tetrahedron Letters, 1996, 37, 6105-6108. | 0.7 | 55 |
| 11 | 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 |
| 12 | Cyclodextrins as inverse phase transfer catalysts for the biphasic catalytic hydrogenation of aldehydes: a green and easy alternative to conventional mass transfer promoters. Green Chemistry, 2002, 4, 188-193. | 4.6 | 53 |
| 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 | Low melting mixtures based on Î²-cyclodextrin derivatives and N,Nâ€²-dimethylurea as solvents for sustainable catalytic processes. Green Chemistry, 2014, 16, 3876-3880. | 4.6 | 50 |
| 16 | Homogeneous and Biphasic Nickel-Catalyzed Isomerization of Allylic Alcohols. European Journal of Inorganic Chemistry, 1998, 1998, 1739-1744. | 1.0 | 48 |
| 17 | Effects of Î³- and Hydroxypropyl-Î³-cyclodextrins on the Transport of Doxorubicin across an in Vitro Model of Blood-Brain Barrier. Journal of Pharmacology and Experimental Therapeutics, 2004, 311, 1115-1120. | 1.3 | 48 |
| 18 | Methylated Î²-cyclodextrin as P-gp modulators for deliverance of doxorubicin across an in vitro model of bloodâ€“brain barrier. Bioorganic and Medicinal Chemistry Letters, 2006, 16, 2154-2157. | 1.0 | 48 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Cyclodextrinâ€“phosphane possessing a guest-tunable conformation for aqueous rhodium-catalyzed hydroformylation. Chemical Communications, 2012, 48, 753-755. | 2.2 | 47 |
| 20 | Catalysis in Cyclodextrin-Based Unconventional Reaction Media: Recent Developments and Future Opportunities. ACS Sustainable Chemistry and Engineering, 2017, 5, 3598-3606. | 3.2 | 46 |
| 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 | Nickel-catalysed substitution reactions of allylic compounds with soft nucleophiles: an efficient alternative to palladium catalysis. Journal of the Chemical Society Chemical Communications, 1995, , 1863. | 2.0 | 42 |
| 23 | Two-Phase Hydroformylation of Higher Olefins Using Randomly Methylated ?-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 |
| 24 | Cyclodextrins as Mass Transfer Additives in Aqueous Organometallic Catalysis. Current Organic Chemistry, 2010, 14, 1296-1307. | 0.9 | 41 |
| 25 | First Evidence of Cyclodextrin Inclusion Complexes in a Deep Eutectic Solvent. ACS Sustainable Chemistry and Engineering, 2019, 7, 6345-6351. | 3.2 | 41 |
| 26 | Synthetic and kinetic aspects of nickel-catalysed amination of allylic alcohol derivatives. Tetrahedron, 1998, 54, 1073-1084. | 1.0 | 39 |
| 27 | Substrate-selective aqueous organometallic catalysis. How size and chemical modification of cyclodextrin influence the substrate selectivity. Tetrahedron, 2004, 60, 6487-6493. | 1.0 | 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 | Alkyl sulfonated diphosphines-stabilized ruthenium nanoparticles as efficient nanocatalysts in hydrogenation reactions in biphasic media. Catalysis Today, 2012, 183, 34-41. | 2.2 | 38 |
| 30 | Rhodium catalyzed hydroformylation of 1-decene in low melting mixtures based on various cyclodextrins and N,Nâ€²-dimethylurea. Catalysis Communications, 2015, 63, 62-65. | 1.6 | 37 |
| 31 | Biphasic Aqueous Organometallic Catalysis Promoted by Cyclodextrins: How to Design the Waterâ€Soluble Phenylphosphane to Avoid Interaction with Cyclodextrin. Advanced Synthesis and Catalysis, 2008, 350, 609-618. | 2.1 | 36 |
| 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 | Further developments in metal-catalysed Cî—¸C bond cleavage in allylic dimethyl malonate derivatives. Tetrahedron Letters, 1997, 38, 1053-1056. | 0.7 | 34 |
| 35 | Efficient coupling reactions of allylamines with soft nucleophiles using nickel-based catalysts. Chemical Communications, 1997, , 1393-1394. | 2.2 | 33 |
| 36 | Molecular Recognition Between a Water-Soluble Organometallic Complex and a ?-Cyclodextrin: First Example of Second-Sphere Coordination Adducts Possessing a Catalytic Activity. Advanced Synthesis and Catalysis, 2004, 346, 1449-1456. | 2.1 | 33 |

| # | Article | IF | Citations |
|---|---|---|---|
| 37 | Synthesis, Rhodium Complexes and Catalytic Applications of a New Waterâ€Soluble Triphenylphosphaneâ€Modified Î²â€Cyclodextrin. Advanced Synthesis and Catalysis, 2011, 353, 1325-1334. | 2.1 | 32 |
| 38 | Chemically ModifiedÎ²-Cyclodextrins as Supramolecular Carriers in the Biphasic Palladium-Catalyzed Cleavage of Allylic Carbonates: Activity Enhancement and Substrate-Selective Catalysis. European Journal of Organic Chemistry, 1999, 1999, 3127-3129. | 1.2 | 31 |
| 39 | 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 |
| 40 | Highly selective synthesis of 4-vinylcyclohexene by cyclodimerization of Butadiene catalysed by aminophosphinephosphinite and bis(aminophosphine) chiral ligands nickel complexes. Tetrahedron Letters, 1994, 35, 413-416. | 0.7 | 30 |
| 41 | Substrate-selective catalysis in an aqueous biphasic system with per(2,6-di-O-methyl)-Î²-cyclodextrin. Catalysis Today, 2001, 66, 355-361. | 2.2 | 30 |
| 42 | Cyclodextrin/Amphiphilic Phosphane Mixed Systems and their Applications in Aqueous Organometallic Catalysis. Advanced Synthesis and Catalysis, 2012, 354, 1337-1346. | 2.1 | 30 |
| 43 | 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 |
| 44 | Efficient Ruthenium Nanocatalysts in Liquidâ€“Liquid Biphasic Hydrogenation Catalysis: Towards a Supramolecular Control through a Sulfonated Diphosphineâ€“Cyclodextrin Smart Combination. ChemCatChem, 2013, 5, 3802-3811. | 1.8 | 29 |
| 45 | A cyclodextrin dimer as a supramolecular reaction platform for aqueous organometallic catalysis. Chemical Communications, 2013, 49, 6989. | 2.2 | 28 |
| 46 | Î²-Cyclodextrins Decrease Cholesterol Release and ABC-Associated Transporter Expression in Smooth Muscle Cells and Aortic Endothelial Cells. Frontiers in Physiology, 2016, 7, 185. | 1.3 | 28 |
| 47 | Unexpected Effect of Cyclodextrins on Water-Soluble Rhodium Complexes. European Journal of Inorganic Chemistry, 2003, 2003, 595-599. | 1.0 | 27 |
| 48 | Properties and Catalytic Activities of New Easilyâ€Made Amphiphilic Phosphanes for Aqueous Organometallic Catalysis. Advanced Synthesis and Catalysis, 2010, 352, 1193-1203. | 2.1 | 27 |
| 49 | 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 |
| 50 | Recent developments in cyclodextrinâ€mediated aqueous biphasic hydroformylation and tsujiâ€“trost reactions. Applied Organometallic Chemistry, 2015, 29, 580-587. | 1.7 | 26 |
| 51 | Convenient synthesis of new amphiphilic triphenylphosphine analogues for aqueous biphasic catalysis. Tetrahedron Letters, 2001, 42, 8837-8840. | 0.7 | 24 |
| 52 | Aqueous biphasic hydroformylation in the presence of cyclodextrins mixtures: evidence of a positive synergistic effect. Dalton Transactions, 2012, 41, 8643. | 1.6 | 24 |
| 53 | Peracetylated Î²-cyclodextrin as solubilizer of arylphosphines in supercritical carbon dioxide. Journal of Supercritical Fluids, 2006, 36, 173-181. | 1.6 | 23 |
| 54 | Amphiphilic photo-isomerisable phosphanes for aqueous organometallic catalysis. Chemical Communications, 2010, 46, 7813. | 2.2 | 23 |

| # | Article | IF | Citations |
|---|---|---|---|
| 55 | Methylated-Î²-cyclodextrins: useful discriminating tools for substrate-selective reactions in aqueous organometallic catalysis. Catalysis Communications, 2004, 5, 265-270. | 1.6 | 21 |
| 56 | Substrate-selective aqueous organometallic catalysis. How small water-soluble organic molecules enhance the supramolecular discrimination. Tetrahedron, 2005, 61, 4811-4817. | 1.0 | 21 |
| 57 | Phosphane-Based Cyclodextrins as Mass Transfer Agents and Ligands for Aqueous Organometallic Catalysis. Molecules, 2012, 17, 13062-13072. | 1.7 | 21 |
| 58 | Biphasic hydroformylation of 1-octene catalyzed by cobalt complex of trisulfonated tris(biphenyl)phosphine. Applied Catalysis A: General, 2012, 413-414, 273-279. | 2.2 | 21 |
| 59 | Synthesis and characterization of a new photoinduced switchable Î²-cyclodextrin dimer. Beilstein Journal of Organic Chemistry, 2014, 10, 2874-2885. | 1.3 | 20 |
| 60 | 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 |
| 61 | A Propertyâ€Matched Waterâ€Soluble Analogue of the Benchmark Ligand PPh<sub>3</sub>. ChemSusChem, 2008, 1, 631-636. | 3.6 | 19 |
| 62 | 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 |
| 63 | Rhodium-Catalyzed Aqueous Biphasic Olefin Hydroformylation Promoted by Amphiphilic Cyclodextrins. Catalysts, 2020, 10, 56. | 1.6 | 18 |
| 64 | Hydrohydroxymethylation of Ethyl Ricinoleate and Castor Oil. ACS Sustainable Chemistry and Engineering, 2021, 9, 9444-9454. | 3.2 | 18 |
| 65 | Complexation of Monosulfonated Triphenylphosphine with Chemically Modified Î²-Cyclodextrins: Effect of Substituents on the Stability of Inclusion Complexes. Journal of Inclusion Phenomena and Macrocyclic Chemistry, 2005, 51, 79-85. | 1.6 | 17 |
| 66 | Catalytic reduction of 4-nitrophenol with gold nanoparticles stabilized by large-ring cyclodextrins. New Journal of Chemistry, 2020, 44, 21007-21011. | 1.4 | 17 |
| 67 | Rhodium catalyzed hydroformylation assisted by cyclodextrins in biphasic medium: Can sulfonated naphthylphosphanes lead to active, selective and recyclable catalytic species?. Catalysis Today, 2015, 247, 47-54. | 2.2 | 15 |
| 68 | 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 |
| 69 | Cyclodextrins Modified by Metal-Coordinating Groups for Aqueous Organometallic Catalysis: What Remains to be Done?. Current Organocatalysis, 2015, 3, 24-31. | 0.3 | 14 |
| 70 | Eco-efficient Catalytic Hydrodechlorination of Carbon Tetrachloride in Aqueous Cyclodextrin Solutions. Catalysis Letters, 2006, 108, 209-214. | 1.4 | 13 |
| 71 | Multiscale Structure of Starches Grafted with Hydrophobic Groups: A New Analytical Strategy. Molecules, 2020, 25, 2827. | 1.7 | 13 |
| 72 | Complexation of monosulfonated triphenylphosphine oxides with Î²-cyclodextrin: spectroscopic study and consequence on the behaviour of cyclodextrins in aqueous-phase organometallic catalysis. New Journal of Chemistry, 2003, 27, 1603-1608. | 1.4 | 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 | Reductive Hydroformylation of Isosorbide Diallyl Ether. Molecules, 2021, 26, 7322. | 1.7 | 11 |
| 75 | Water-soluble diphosphadiazacyclooctanes as ligands for aqueous organometallic catalysis. Catalysis Communications, 2012, 29, 77-81. | 1.6 | 10 |
| 76 | Green and Scalable Palladiumâ€onâ€Carbonâ€Catalyzed Tsujiâ€“Trost Coupling Reaction Using an Efficient and Continuous Flow System. European Journal of Organic Chemistry, 2017, 2017, 1078-1085. | 1.2 | 10 |
| 77 | Hydroformylation in Aqueous Biphasic Media Assisted by Molecular Receptors. Topics in Current Chemistry, 2013, 342, 49-78. | 4.0 | 8 |
| 78 | Anionic Amphiphilic Cyclodextrins Bearing Oleic Grafts for the Stabilization of Ruthenium Nanoparticles Efficient in Aqueous Catalytic Hydrogenation. ChemCatChem, 2020, 12, 1013-1018. | 1.8 | 8 |
| 79 | Highly regio- and stereo-controlled hydroformylation of ortho-substituted (Î·6-styrene)chromium complexes. Journal of Organometallic Chemistry, 1994, 483, c1-c5. | 0.8 | 7 |
| 80 | New water-soluble Schiff base ligands based on Î²-cyclodextrin for aqueous biphasic hydroformylation reaction. Pure and Applied Chemistry, 2018, 90, 845-855. | 0.9 | 7 |
| 81 | Interaction of waterâ€soluble triphenylphosphines with Î²â€cyclodextrin: a quantum chemistry study. Journal of Physical Organic Chemistry, 2011, 24, 1129-1135. | 0.9 | 6 |
| 82 | Homogenous catalytic hydrogenation of bicarbonate with water soluble aryl phosphine ligands. Inorganica Chimica Acta, 2015, 431, 132-138. | 1.2 | 6 |
| 83 | Oleic Acid Based Cyclodextrins for the Development of New Hydrosoluble Amphiphilic Compounds. European Journal of Organic Chemistry, 2019, 2019, 1236-1241. | 1.2 | 6 |
| 84 | Synthesis of 2-Hydroxydodecyl Starch Ethers: Importance of the Purification Process. Industrial & Engineering Chemistry Research, 2019, 58, 2437-2444. | 1.8 | 5 |
| 85 | Aqueous biphasic hydrogenation of benzene catalyzed by ruthenium complex of trisulfonated tris(biphenyl)phosphine. Catalysis Science and Technology, 2012, 2, 2273. | 2.1 | 4 |
| 86 | Transition Metal Complexes Coordinated by Water Soluble Phosphane Ligands: How Cyclodextrins Can Alter the Coordination Sphere?. Molecules, 2017, 22, 140. | 1.7 | 4 |
| 87 | Highly Waterâ€Soluble Amphiphilic Cyclodextrins Bearing Branched and Cyclic Oleic Grafts. European Journal of Organic Chemistry, 2019, 2019, 4863-4868. | 1.2 | 4 |
| 88 | Organometallic synthesis of water-soluble ruthenium nanoparticles in the presence of sulfonated diphosphines and cyclodextrins. Materials Research Society Symposia Proceedings, 2014, 1675, 219-225. | 0.1 | 2 |
| 89 | Tetrasulfonated 1,2â€Bis(diphenylphosphanyl)ethane as a Building Block for the Synthesis of Disulfonated Alkyldiphenylphosphanes. European Journal of Organic Chemistry, 2015, 2015, 5509-5512. | 1.2 | 2 |
| 90 | Cleavage of Benzyl Phosphonium Salts as Efficient Bypass for the Synthesis of Disulfonated Alkyldiphenylphosphanes Bearing an Oleumâ€Sensitive Alkyl Group. European Journal of Organic Chemistry, 2016, 2016, 3322-3325. | 1.2 | 2 |

| # | Article | IF | Citations |
|---|---|---|---|
| 91 | Epimerization of isosorbide catalyzed by homogeneous ruthenium-phosphine complexes: A new step towards an industrial process. Inorganica Chimica Acta, 2021, 515, 120094. | 1.2 | 2 |
| 92 | Asymmetric hydrogenation of ethyl pyruvate over aqueous dispersed Pt nanoparticles stabilized by a cinchonidine-functionalized Î²-cyclodextrin. Catalysis Communications, 2021, 150, 106272. | 1.6 | 2 |
| 93 | Phosphocontaining Cyclodextrins as a New Class of Supramolecular Structures. Phosphorus, Sulfur and Silicon and the Related Elements, 2002, 177, 1489-1492. | 0.8 | 0 |
| 94 | 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 |