

# Sebastien Tilloy

## List of Publications by Year in descending order

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100  
papers

3,602  
citations

101384

36  
h-index

155451

55  
g-index

115  
all docs

115  
docs citations

115  
times ranked

3030  
citing authors

#	ARTICLE	IF	CITATIONS
1	Unnatural cyclodextrins can be accessed from enzyme-mediated dynamic combinatorial libraries. <i>Chemical Communications</i> , 2022, 58, 2287-2290.	2.2	4
2	Interesterification of triglycerides with methyl acetate for biodiesel production using a cyclodextrin-derived SnO@I <sup>3</sup> -Al <sub>2</sub> O <sub>3</sub> composite as heterogeneous catalyst. <i>Fuel</i> , 2022, 321, 124026.	3.4	7
3	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
4	Aqueous Biphasic Hydroaminomethylation Enabled by Methylated Cyclodextrins: Sensitivity Analysis for Transfer into a Continuous Process. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 273-283.	3.2	7
5	Asymmetric hydrogenation of ethyl pyruvate over aqueous dispersed Pt nanoparticles stabilized by a cinchonidine-functionalized I <sup>2</sup> -cyclodextrin. <i>Catalysis Communications</i> , 2021, 150, 106272.	1.6	2
6	Hydrohydroxymethylation of Ethyl Ricinoleate and Castor Oil. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 9444-9454.	3.2	18
7	Reductive Hydroformylation of Isosorbide Diallyl Ether. <i>Molecules</i> , 2021, 26, 7322.	1.7	11
8	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
9	Rhodium-Catalyzed Aqueous Biphasic Olefin Hydroformylation Promoted by Amphiphilic Cyclodextrins. <i>Catalysts</i> , 2020, 10, 56.	1.6	18
10	New Lipidyl-Cyclodextrins Obtained by Ring Opening of Methyl Oleate Epoxide Using Ball Milling. <i>Biomolecules</i> , 2020, 10, 339.	1.8	13
11	Multiscale Structure of Starches Grafted with Hydrophobic Groups: A New Analytical Strategy. <i>Molecules</i> , 2020, 25, 2827.	1.7	13
12	Continuous hydroformylation of 1-decene in an aqueous biphasic system enabled by methylated cyclodextrins. <i>Green Chemistry</i> , 2020, 22, 3809-3819.	4.6	18
13	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
14	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
15	Synthesis of 2-Hydroxydodecyl Starch Ethers: Importance of the Purification Process. <i>Industrial &amp; Engineering Chemistry Research</i> , 2019, 58, 2437-2444.	1.8	5
16	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
17	New water-soluble Schiff base ligands based on I <sup>2</sup> -cyclodextrin for aqueous biphasic hydroformylation reaction. <i>Pure and Applied Chemistry</i> , 2018, 90, 845-855.	0.9	7
18	Unconventional media and technologies for starch etherification and esterification. <i>Green Chemistry</i> , 2018, 20, 1152-1168.	4.6	75

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19	Robust Mesoporous CoMo/Al <sub>2</sub> O <sub>3</sub> Catalysts from Cyclodextrin-Based Supramolecular Assemblies for Hydrothermal Processing of Microalgae: Effect of the Preparation Method. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 12562-12579.	4.0	18
20	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
21	Enhance the rheological and mechanical properties of clayey materials by adding starches. <i>Construction and Building Materials</i> , 2017, 139, 602-610.	3.2	21
22	Deep eutectic solvents as green absorbents of volatile organic pollutants. <i>Environmental Chemistry Letters</i> , 2017, 15, 747-753.	8.3	66
23	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
24	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
25	Cyclodextrins as Emerging Therapeutic Tools in the Treatment of Cholesterol-Associated Vascular and Neurodegenerative Diseases. <i>Molecules</i> , 2016, 21, 1748.	1.7	94
26	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
27	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
28	Ring opening polymerization of ε-caprolactone in the presence of wet β-cyclodextrin: effect of the operative pressure and of water molecules in the β-cyclodextrin cavity. <i>RSC Advances</i> , 2016, 6, 90290-90299.	1.7	17
29	Recent developments in cyclodextrin-mediated aqueous biphasic hydroformylation and Tsuji-Trost reactions. <i>Applied Organometallic Chemistry</i> , 2015, 29, 580-587.	1.7	26
30	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
31	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
32	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
33	Ruthenium-containing β-cyclodextrin polymer globules for the catalytic hydrogenation of biomass-derived furanic compounds. <i>Green Chemistry</i> , 2015, 17, 2444-2454.	4.6	37
34	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
35	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
36	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

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37	Recent breakthroughs in aqueous cyclodextrin-assisted supramolecular catalysis. <i>Catalysis Science and Technology</i> , 2014, 4, 1899.	2.1	100
38	A cyclodextrin dimer as a supramolecular reaction platform for aqueous organometallic catalysis. <i>Chemical Communications</i> , 2013, 49, 6989.	2.2	28
39	Hydroformylation in Aqueous Biphasic Media Assisted by Molecular Receptors. <i>Topics in Current Chemistry</i> , 2013, 342, 49-78.	4.0	8
40	Diametrically Opposed Carbenes on an $\beta$ -Cyclodextrin: Synthesis, Characterization of Organometallic Complexes and Suzuki-Miyaura Coupling in Ethanol and in Water. <i>European Journal of Organic Chemistry</i> , 2013, 2013, 3691-3699.	1.2	40
41	Rhodium-Catalyzed Hydroformylation Promoted by Modified Cyclodextrins: Current Scope and Future Developments. , 2013, , 36-63.		2
42	Water-soluble diphosphadiazacyclooctanes as ligands for aqueous organometallic catalysis. <i>Catalysis Communications</i> , 2012, 29, 77-81.	1.6	10
43	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
44	Cyclodextrin-phosphane possessing a guest-tunable conformation for aqueous rhodium-catalyzed hydroformylation. <i>Chemical Communications</i> , 2012, 48, 753-755.	2.2	47
45	Carboxylated polymers functionalized by cyclodextrins for the stabilization of highly efficient rhodium(0) nanoparticles in aqueous phase catalytic hydrogenation. <i>Dalton Transactions</i> , 2012, 41, 13359.	1.6	23
46	Phosphane-Based Cyclodextrins as Mass Transfer Agents and Ligands for Aqueous Organometallic Catalysis. <i>Molecules</i> , 2012, 17, 13062-13072.	1.7	21
47	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
48	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
49	An N-heterocyclic carbene ligand based on a $\beta$ -cyclodextrin-imidazolium salt: synthesis, characterization of organometallic complexes and Suzuki coupling. <i>New Journal of Chemistry</i> , 2011, 35, 2061.	1.4	53
50	Interaction of water-soluble triphenylphosphines with $\beta$ -cyclodextrin: a quantum chemistry study. <i>Journal of Physical Organic Chemistry</i> , 2011, 24, 1129-1135.	0.9	6
51	Synthesis, Rhodium Complexes and Catalytic Applications of a New Water-Soluble Triphenylphosphane-Modified $\beta$ -Cyclodextrin. <i>Advanced Synthesis and Catalysis</i> , 2011, 353, 1325-1334.	2.1	32
52	Cyclodextrins and their applications in aqueous-phase metal-catalyzed reactions. <i>Comptes Rendus Chimie</i> , 2011, 14, 149-166.	0.2	92
53	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
54	New Phosphane Based on a $\beta$ -Cyclodextrin, Exhibiting a Solvent-Tunable Conformation, and its Catalytic Properties. <i>Chemistry - A European Journal</i> , 2010, 16, 10195-10201.	1.7	29

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55	$\beta$ -Cyclodextrins modified by alkyl and poly(ethylene oxide) chains: A novel class of mass transfer additives for aqueous organometallic catalysis. <i>Journal of Molecular Catalysis A</i> , 2010, 318, 8-14.	4.8	23
56	Cyclodextrins as Mass Transfer Additives in Aqueous Organometallic Catalysis. <i>Current Organic Chemistry</i> , 2010, 14, 1296-1307.	0.9	41
57	Aqueous hydroformylation reaction mediated by randomly methylated $\beta$ -cyclodextrin: How substitution degree influences catalytic activity and selectivity. <i>Journal of Molecular Catalysis A</i> , 2009, 303, 72-77.	4.8	37
58	Aqueous rhodium-catalyzed hydroformylation of 1-decene in the presence of randomly methylated $\beta$ -cyclodextrin and 1,3,5-triaza-7-phosphaadamantane derivatives. <i>Applied Catalysis A: General</i> , 2009, 362, 62-66.	2.2	44
59	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
60	A Property-Matched Water-Soluble Analogue of the Benchmark Ligand PPh <sub>3</sub> . <i>ChemSusChem</i> , 2008, 1, 631-636.	3.6	19
61	Easily Accessible Mono- and Polytopic $\beta$ -Cyclodextrin Hosts by Click Chemistry. <i>European Journal of Organic Chemistry</i> , 2008, 2008, 5723-5730.	1.2	35
62	Biphasic Aqueous Organometallic Catalysis Promoted by Cyclodextrins: How to Design the Water-Soluble Phenylphosphane to Avoid Interaction with Cyclodextrin. <i>Advanced Synthesis and Catalysis</i> , 2008, 350, 609-618.	2.1	36
63	Rhodium-Catalyzed Hydroformylation Promoted by Modified Cyclodextrins: Current Scope and Future Developments. <i>Current Organic Synthesis</i> , 2008, 5, 162-172.	0.7	50
64	Complexation of Phosphine Ligands with Peracetylated $\beta$ -Cyclodextrin in Supercritical Carbon Dioxide: A Spectroscopic Determination of Equilibrium Constants. <i>Journal of Physical Chemistry B</i> , 2007, 111, 2573-2578.	1.2	28
65	Self-Assembled Supramolecular Bidentate Ligands for Aqueous Organometallic Catalysis. <i>Angewandte Chemie - International Edition</i> , 2007, 46, 3040-3042.	7.2	53
66	Biphasic aqueous organometallic catalysis promoted by cyclodextrins: Can surface tension measurements explain the efficiency of chemically modified cyclodextrins?. <i>Journal of Colloid and Interface Science</i> , 2007, 307, 481-487.	5.0	77
67	Hydroformylation of 1-decene in aqueous medium catalysed by rhodium-alkyl sulfonated diphosphines system in the presence of methylated cyclodextrins. How the flexibility of the diphosphine backbone influences the regioselectivity. <i>New Journal of Chemistry</i> , 2006, 30, 377.	1.4	37
68	Cyclodextrins as Supramolecular Hosts for Organometallic Complexes. <i>Chemical Reviews</i> , 2006, 106, 767-781.	23.0	394
69	Methylated $\beta$ -cyclodextrin as P-gp modulators for deliverance of doxorubicin across an in vitro model of blood-brain barrier. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2006, 16, 2154-2157.	1.0	48
70	Supramolecular Trapping of Phosphanes by Cyclodextrins: A General Approach to Generate Phosphane Coordinatively Unsaturated Organometallic Complexes. <i>European Journal of Inorganic Chemistry</i> , 2006, 2006, 1611-1619.	1.0	14
71	Heptakis(2,3-di-O-methyl-6-O-sulfopropyl)- $\beta$ -cyclodextrin: A Genuine Supramolecular Carrier for Aqueous Organometallic Catalysis. <i>Advanced Synthesis and Catalysis</i> , 2006, 348, 379-386.	2.1	38
72	Water-Soluble Triphenylphosphane-3,3',3''-tricarboxylate (m-TPPTC) Ligand and Methylated Cyclodextrins: A New Combination for Biphasic Rhodium-Catalyzed Hydroformylation of Higher Olefins. <i>Advanced Synthesis and Catalysis</i> , 2006, 348, 1547-1552.	2.1	30

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73	Adamantoylated monosaccharides: new compounds for modification of the properties of cyclodextrin-containing materials. <i>Carbohydrate Research</i> , 2005, 340, 1461-1468.	1.1	10
74	Rhodium Complexes Non-Covalently Bound to Cyclodextrins: Novel Water-Soluble Supramolecular Catalysts for the Biphasic Hydroformylation of Higher Olefins. <i>Chemistry - A European Journal</i> , 2005, 11, 6228-6236.	1.7	31
75	Complexation of Monosulfonated Triphenylphosphine with Chemically Modified $\beta$ -Cyclodextrins: Effect of Substituents on the Stability of Inclusion Complexes. <i>Journal of Inclusion Phenomena and Macrocyclic Chemistry</i> , 2005, 51, 79-85.	1.6	17
76	Sulfonated Xantphos Ligand and Methylated Cyclodextrin: A Winning Combination for Rhodium-Catalyzed Hydroformylation of Higher Olefins in Aqueous Medium. <i>Organometallics</i> , 2005, 24, 2070-2075.	1.1	66
77	Behavior of $\alpha$ -, $\beta$ -, and $\gamma$ -Cyclodextrins and Their Derivatives on an in Vitro Model of Blood-Brain Barrier. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2004, 310, 745-751.	1.3	93
78	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
79	High-Pressure $^1\text{H}$ 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
80	Molecular Recognition Between a Water-Soluble Organometallic Complex and a $\beta$ -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
81	Effects of $\beta$ - and Hydroxypropyl- $\beta$ -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
82	Unexpected Effect of Cyclodextrins on Water-Soluble Rhodium Complexes. <i>European Journal of Inorganic Chemistry</i> , 2003, 2003, 595-599.	1.0	27
83	Complexation of monosulfonated triphenylphosphine oxides with $\beta$ -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
84	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
85	One and Two-dimensional NMR Investigations of the Inclusion of the Monosulfonated Triphenylphosphine in the $\beta$ -cyclodextrin. <i>Supramolecular Chemistry</i> , 2002, 14, 11-20.	1.5	33
86	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
87	Thermodynamic insight into the origin of the inclusion of monosulfonated isomers of triphenylphosphine into the $\beta$ -cyclodextrin cavity. <i>Carbohydrate Research</i> , 2002, 337, 281-287.	1.1	39
88	Title is missing!. <i>Journal of Inclusion Phenomena and Macrocyclic Chemistry</i> , 2002, 42, 269-274.	1.6	13
89	Convenient synthesis of new amphiphilic triphenylphosphine analogues for aqueous biphasic catalysis. <i>Tetrahedron Letters</i> , 2001, 42, 8837-8840.	0.7	24
90	Rhodium catalyzed hydroformylation of water insoluble olefins in the presence of chemically modified $\beta$ -cyclodextrins: evidence for ligand-cyclodextrin interactions and effect of various parameters on the activity and the aldehydes selectivity. <i>Journal of Molecular Catalysis A</i> , 2001, 176, 105-116.	4.8	70

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91	Title is missing!. Journal of Inclusion Phenomena and Macrocyclic Chemistry, 2000, 38, 361-379.	1.6	35
92	A convenient synthesis of phenylpropanoic acids: the palladium catalyzed hydrocarboxylation of styrene derivatives in a two-phase system. Journal of Molecular Catalysis A, 1999, 138, 53-57.	4.8	33
93	Chemically modified $\beta$ -cyclodextrins in biphasic catalysis: a fruitful contribution of the host-guest chemistry to the transition-metal catalyzed reactions. Catalysis Today, 1999, 48, 245-253.	2.2	54
94	Comparative Raman spectroscopy study of sulfonate-substituted triphenylphosphines. Vibrational Spectroscopy, 1999, 20, 165-172.	1.2	17
95	Chemically Modified $\beta$ -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
96	First evidence of molecular recognition between cyclodextrins and a water-soluble ligand used in aqueous phase organometallic catalysis. New Journal of Chemistry, 1999, 23, 469-472.	1.4	47
97	Chemically modified $\beta$ -cyclodextrins: Efficient supramolecular carriers for the biphasic hydrogenation of water-insoluble aldehydes. Tetrahedron Letters, 1998, 39, 2959-2960.	0.7	41
98	Wacker oxidation of various olefins in the presence of per(2,6-di-O-methyl)- $\beta$ -cyclodextrin: mechanistic investigations of a multistep catalysis in a solvent-free two-phase system. Journal of Molecular Catalysis A, 1996, 109, 27-35.	4.8	58
99	A very useful and efficient Wacker oxidation of higher $\alpha$ -olefins in the presence of per(2,6-di-O-methyl)- $\beta$ -cyclodextrin. Tetrahedron Letters, 1995, 36, 387-388.	0.7	42
100	A further breakthrough in biphasic, rhodium-catalyzed hydroformylation: the use of Per(2,6-di-O-methyl)- $\beta$ -cyclodextrin as inverse phase transfer catalyst. Tetrahedron Letters, 1995, 36, 9481-9484.	0.7	97