Anne Ponchel

List of Publications by Year
in descending order

91	2,745	126708 33	205818 48
papers	citations	h-index	g-index

96	96	96	3177
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Polyoxometalate, Cationic Cluster, and Î³-Cyclodextrin: From Primary Interactions to Supramolecular Hybrid Materials. Journal of the American Chemical Society, 2017, 139, 12793-12803.	6.6	137
2	Studies of the cerium-metalâ€"oxygenâ€"hydrogen system (metal=Cu, Ni). Catalysis Today, 1999, 50, 247-259.	2.2	133
3	Remediation technologies using cyclodextrins: an overview. Environmental Chemistry Letters, 2012, 10, 225-237.	8.3	116
4	Cyclodextrins and their applications in aqueous-phase metal-catalyzed reactions. Comptes Rendus Chimie, 2011, 14, 149-166.	0.2	92
5	Cyclodextrin-based systems for the stabilization of metallic(0) nanoparticles and their versatile applications in catalysis. Catalysis Today, 2014, 235, 20-32.	2.2	83
6	Effects of Î²-cyclodextrin introduction to zirconia supported-cobalt oxide catalysts: From molecule-ion associations to complete oxidation of formaldehyde. Applied Catalysis B: Environmental, 2013, 138-139, 381-390.	10.8	82
7	Nonconventional Three-Component Hierarchical Hostâ€"Guest Assembly Based on Mo-Blue Ring-Shaped Giant Anion, Î³-Cyclodextrin, and Dawson-type Polyoxometalate. Journal of the American Chemical Society, 2017, 139, 14376-14379.	6.6	81
8	Title is missing!. Topics in Catalysis, 2002, 20, 65-74.	1.3	78
9	Selfâ€Assembled Metastable Î³â€Ga₂O₃ Nanoflowers with Hexagonal Nanopetals for Solarâ€Blind Photodetection. Advanced Materials, 2014, 26, 6238-6243.	11.1	76
10	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.	1.6	65
11	Evaluation of surface properties and pore structure of carbon on the activity of supported Ru catalysts in the aqueous-phase aerobic oxidation of HMF to FDCA. Applied Catalysis A: General, 2015, 506, 206-219.	2.2	65
12	Unexpected Multifunctional Effects of Methylated Cyclodextrins in a Palladium Charcoal-Catalyzed Suzukiâˆ'Miyaura Reaction. Organic Letters, 2006, 8, 4823-4826.	2.4	58
13	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
14	Facile preparation of Ni/Al2O3 catalytic formulations with the aid of cyclodextrin complexes: Towards highly active and robust catalysts for the direct amination of alcohols. Journal of Catalysis, 2017, 356, 111-124.	3.1	52
15	CeNixOy and CeAlzNixOy solids studied by electron microscopy, XRD, XPS and depth sputtering techniques. Physical Chemistry Chemical Physics, 2000, 2, 303-312.	1.3	48
16	Relationship between Structure of CeNiXOY Mixed Oxides and Catalytic Properties in Oxidative Dehydrogenation of Propane. Langmuir, 2001, 17, 1511-1517.	1.6	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	Cyclodextrin-cobalt (II) molecule-ion pairs as precursors to active Co3O4/ZrO2 catalysts for the complete oxidation of formaldehyde: Influence of the cobalt source. Journal of Catalysis, 2016, 341, 191-204.	3.1	46

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19	Cyclodextrin-Directed Synthesis of Gold-Modified TiO₂ Materials and Evaluation of Their Photocatalytic Activity in the Removal of a Pesticide from Water: Effect of Porosity and Particle Size. ACS Sustainable Chemistry and Engineering, 2017, 5, 3623-3630.	3.2	43
20	Cyclodextrin silica-based materials: advanced characterizations and study of their complexing behavior by diffuse reflectance UVâ€“Vis spectroscopy. Microporous and Mesoporous Materials, 2004, 75, 261-272.	2.2	42
21	Solubilisation of chlorinated solvents by cyclodextrin derivativesA study by static headspace gas chromatography and molecular modelling. Journal of Hazardous Materials, 2007, 141, 92-97.	6.5	42
22	Cyclodextrins as Mass Transfer Additives in Aqueous Organometallic Catalysis. Current Organic Chemistry, 2010, 14, 1296-1307.	0.9	41
23	An ordered hydrophobic P6mm mesoporous carbon with graphitic pore walls and its application in aqueous catalysis. Carbon, 2011, 49, 1290-1298.	5.4	41
24	Nanoparticleâ€Based Catalysis using Supramolecular Hydrogels. Advanced Synthesis and Catalysis, 2012, 354, 1269-1272.	2.1	40
25	Effect of the sequence of potassium introduction to V2O5/TiO2 catalysts on their physicochemical properties and catalytic performance in oxidative dehydrogenation of propane. Catalysis Today, 1997, 33, 109-118.	2.2	39
26	Selective Secondary Face Modification of Cyclodextrins by Mechanosynthesis. Journal of Organic Chemistry, 2015, 80, 6259-6266.	1.7	39
27	Mixed oxides supported low-nickel formulations for the direct amination of aliphatic alcohols with ammonia. Journal of Catalysis, 2017, 356, 133-146.	3.1	39
28	Effect of potassium addition to the TiO2 support on the structure of V2O5/TiO2 and its catalytic properties in the oxidative dehydrogenation of propane. Journal of the Chemical Society, Faraday Transactions, 1996, 92, 1609.	1.7	37
29	Ruthenium-containing Î²-cyclodextrin polymer globules for the catalytic hydrogenation of biomass-derived furanic compounds. Green Chemistry, 2015, 17, 2444-2454.	4.6	37
30	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
31	Sulfobutyl Ether-Î²-Cyclodextrins: Promising Supramolecular Carriers for Aqueous Organometallic Catalysis. Advanced Synthesis and Catalysis, 2005, 347, 1301-1307.	2.1	35
32	Cyclodextrins as growth controlling agents for enhancing the catalytic activity of PVP-stabilized Ru(0) nanoparticles. Chemical Communications, 2012, 48, 3451.	2.2	35
33	Carbonâ€Supported Ruthenium Nanoparticles Stabilized by Methylated Cyclodextrins: A New Family of Heterogeneous Catalysts for the Gasâ€Phase Hydrogenation of Arenes. Chemistry - A European Journal, 2008, 14, 8090-8093.	1.7	34
34	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
35	Catalytic hydrogen storage in cerium nickel and zirconium (or aluminium) mixed oxides. International Journal of Hydrogen Energy, 2007, 32, 2439-2444.	3.8	30
36	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

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37	Photocatalysis of Volatile Organic Compounds in water: Towards a deeper understanding of the role of cyclodextrins in the photodegradation of toluene over titanium dioxide. Journal of Colloid and Interface Science, 2016, 461, 317-325.	5.0	29
38	Storage of reactive hydrogen species in CeMxOy (M = Cu, Ni; 0Ã¢Â‰ÂxÃ¢Â‰Â1) mixed oxides. International Journal of Hydrogen Energy, 1999, 24, 1083-1092.	3.8	27
39	Hostâ€“guest inclusion complexes between peracetylated Î²-cyclodextrin and diphenyl(4-phenylphenyl)phosphine: Computational studies. Computational and Theoretical Chemistry, 2006, 777, 99-106.	1.5	27
40	Coassembly of Block Copolymer and Randomly Methylated Î²-Cyclodextrin: From Swollen Micelles to Mesoporous Alumina with Tunable Pore Size. Macromolecules, 2013, 46, 5672-5683.	2.2	26
41	Chemically modified cyclodextrins as supramolecular tools to generate carbon-supported ruthenium nanoparticles: An application towards gas phase hydrogenation. Applied Catalysis A: General, 2011, 391, 334-341.	2.2	24
42	A Pd/CeO₂ â€œH₂ Pumpâ€•for the Direct Amination of Alcohols. ChemCatChem, 2016, 8, 3347-3352.	1.8	24
43	Peracetylated Î²-cyclodextrin as solubilizer of arylphosphines in supercritical carbon dioxide. Journal of Supercritical Fluids, 2006, 36, 173-181.	1.6	23
44	Carboxylated polymers functionalized by cyclodextrins for the stabilization of highly efficient rhodium(0) nanoparticles in aqueous phase catalytic hydrogenation. Dalton Transactions, 2012, 41, 13359.	1.6	23
45	Cyclodextrin-assisted low-metal Ni-Pd/Al2O3 bimetallic catalysts for the direct amination of aliphatic alcohols. Journal of Catalysis, 2018, 368, 172-189.	3.1	23
46	Understanding the Role of Cyclodextrins in the Self-Assembly, Crystallinity, and Porosity of Titania Nanostructures. Langmuir, 2014, 30, 11812-11822.	1.6	22
47	Evidence for the existence of crosslinked crystalline domains within cyclodextrin-based supramolecular hydrogels through solâ€“gel replication. RSC Advances, 2014, 4, 8200.	1.7	22
48	Acid-tolerant cyclodextrin-based ruthenium nanoparticles for the hydrogenation of unsaturated compounds in water. Catalysis Science and Technology, 2017, 7, 5982-5992.	2.1	22
49	Noncovalent functionalization of multiwall carbon nanotubes by methylated-Î²-cyclodextrins modified by a triazole group. Chemical Communications, 2010, 46, 7382.	2.2	21
50	Hydroxypropyl-Î²-cyclodextrin as a versatile additive for the formation of metastable tetragonal zirconia exhibiting high thermal stability. CrystEngComm, 2013, 15, 2076-2083.	1.3	20
51	Supported ruthenium nanoparticles on ordered mesoporous carbons using a cyclodextrin-assisted hard-template approach and their applications as hydrogenation catalysts. Journal of Catalysis, 2020, 383, 343-356.	3.1	19
52	Activated Carbon as a Massâ€Transfer Additive in Aqueous Organometallic Catalysis. Chemistry - A European Journal, 2010, 16, 6138-6141.	1.7	18
53	Robust Mesoporous CoMo/Î³-Al₂O₃ Catalysts from Cyclodextrin-Based Supramolecular Assemblies for Hydrothermal Processing of Microalgae: Effect of the Preparation Method. ACS Applied Materials & Interfaces, 2018, 10, 12562-12579.	4.0	18
54	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

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55	Biphasic Palladiumâ€Catalyzed Hydroesterification in a Polyol Phase: Selective Synthesis of Derived Monoesters. ChemSusChem, 2015, 8, 2133-2137.	3.6	17
56	Mesoporous RuO₂/TiO₂ composites prepared by cyclodextrin-assisted colloidal self-assembly: towards efficient catalysts for the hydrogenation of methyl oleate. RSC Advances, 2016, 6, 14570-14579.	1.7	17
57	Block copolymerâ€“cyclodextrin supramolecular assemblies as soft templates for the synthesis of titania materials with controlled crystallinity, porosity and photocatalytic activity. RSC Advances, 2014, 4, 40061-40070.	1.7	16
58	Highly regio-selective hydroformylation of biomass derived eugenol using aqueous biphasic Rh/TPPTS/CDs as a greener and recyclable catalyst. Molecular Catalysis, 2017, 436, 157-163.	1.0	16
59	Catalytic glycosylation of glucose with alkyl alcohols over sulfonated mesoporous carbons. Molecular Catalysis, 2019, 468, 125-129.	1.0	16
60	Synthesis of 1,4:3,6â€Dianhydrohexitols Diesters from the Palladiumâ€Catalyzed Hydroesterification Reaction. ChemSusChem, 2014, 7, 3157-3163.	3.6	15
61	Cyclodextrin-based supramolecular assemblies: a versatile toolbox for the preparation of functional porous materials. Environmental Chemistry Letters, 2018, 16, 1393-1413.	8.3	15
62	Cyclodextrins as multitask agents for metal nano-heterogeneous catalysis: a review. Environmental Chemistry Letters, 2021, 19, 4327-4348.	8.3	14
63	Eco-efficient Catalytic Hydrodechlorination of Carbon Tetrachloride in Aqueous Cyclodextrin Solutions. Catalysis Letters, 2006, 108, 209-214.	1.4	13
64	Scope and limitation of activated carbons in aqueous organometallic catalysis. Journal of Catalysis, 2011, 278, 208-218.	3.1	12
65	Cyclodextrins for Remediation Technologies. Environmental Chemistry for A Sustainable World, 2012, , 47-81.	0.3	12
66	A direct novel synthesis of highly uniform dispersed ruthenium nanoparticles over P6mm ordered mesoporous carbon by hostâ€“guest complexes. Journal of Materials Chemistry A, 2014, 2, 6641-6648.	5.2	12
67	Cyclodextrins adsorbed onto activated carbons: Preparation, characterization, and effect on the dispersibility of the particles in water. Journal of Colloid and Interface Science, 2012, 371, 89-100.	5.0	11
68	Cyclodextrins: a new and effective class of co-modulators for aqueous zirconium-MOF syntheses. CrystEngComm, 2021, 23, 2764-2772.	1.3	11
69	Rhodium catalyzed selective hydroaminomethylation of biorenewable eugenol under aqueous biphasic condition. Molecular Catalysis, 2018, 452, 108-116.	1.0	10
70	Fast Microwave Synthesis of Gold-Doped TiO2 Assisted by Modified Cyclodextrins for Photocatalytic Degradation of Dye and Hydrogen Production. Catalysts, 2020, 10, 801.	1.6	10
71	Investigating the effect of randomly methylated Î²-cyclodextrin/block copolymer molar ratio on the template-directed preparation of mesoporous alumina with tailored porosity. Journal of Inclusion Phenomena and Macrocyclic Chemistry, 2014, 80, 323-335.	0.9	9
72	First Steps to Rationalize Hostâ€“Guest Interaction between Î±-, Î²-, and Î³-Cyclodextrin and Divalent First-Row Transition and Post-transition Metals (Subgroups VIIB, VIIIB, and IIB). Inorganic Chemistry, 2021, 60, 930-943.	1.9	9

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73	Confinement of <i>Candida Antarctica</i> Lipase B in a Multifunctional Cyclodextrin-Derived Silicified Hydrogel and Its Application as Enzymatic Nanoreactor. ACS Applied Bio Materials, 2019, 2, 5568-5581.	2.3	8
74	Oxidation of 2,5-diformfylfuran to 2,5-furandicarboxylic acid catalyzed by Candida antarctica Lipase B immobilized in a cyclodextrin-templated mesoporous silica. The critical role of pore characteristics on the catalytic performance. Colloids and Surfaces B: Biointerfaces, 2021, 200, 111606.	2.5	7
75	Ultrasound-assisted synthesis of NiO nanoparticles and their catalytic application for the synthesis of trisubstituted imidazoles under solvent free conditions. Catalysis Communications, 2021, 161, 106366.	1.6	7
76	Interesterification of triglycerides with methyl acetate for biodiesel production using a cyclodextrin-derived SnO@Î³-Al2O3 composite as heterogeneous catalyst. Fuel, 2022, 321, 124026.	3.4	7
77	Palladium-catalyzed hydroesterification of olefins with isosorbide in standard and BrÃ¸nsted acidic ionic liquids. Catalysis Communications, 2015, 69, 143-146.	1.6	6
78	Cyclodextrin-assisted catalytic hydrogenation of hydrophobic substrates with halloysite immobilized ruthenium NPs dispersed in aqueous phase. Journal of the Indian Chemical Society, 2021, 98, 100034.	1.3	5
79	Oxidative dehydrogenation of propane on CeNiXOY (0 â‰ x â‰ 1) mixed oxides hydrogen acceptors. Studies in Surface Science and Catalysis, 1997, , 383-392.	1.5	4
80	Co3O4/C and Au supported Co3O4/C nanocomposites â€" Peculiarities of fabrication and application towards oxygen reduction reaction. Materials Chemistry and Physics, 2020, 241, 122332.	2.0	4
81	Temperature-dependent formation of Ru-based nanocomposites: structures and properties. RSC Advances, 2014, 4, 26847.	1.7	3
82	Aqueous Heck Arylation of Acrolein Derivatives: The Role of Cyclodextrin as Additive. Topics in Catalysis, 2014, 57, 1550-1557.	1.3	3
83	Oxidehydrogenation of propane on MoO₃/gAl₂O₃ hydrogen acceptor. Journal De Chimie Physique Et De Physico-Chimie Biologique, 1997, 94, 1975-1983.	0.2	3
84	Aqueous zirconiumâ€MOF syntheses assisted by Î±â€cyclodextrin: towards deeper understanding of the beneficial role of cyclodextrin. European Journal of Inorganic Chemistry, 0, , .	1.0	3
85	Effect of Functional Group on the Catalytic Activity of Lipase B from Candida antarctica Immobilized in a Silica-Reinforced Pluronic F127/Î±-Cyclodextrin Hydrogel. Gels, 2022, 8, 3.	2.1	3
86	Influence of phosphate modification on the surface properties of sulfated titania. Research on Chemical Intermediates, 2003, 29, 705-719.	1.3	2
87	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
88	Cyclodextrins and Nanostructured Porous Inorganic Materials. Environmental Chemistry for A Sustainable World, 2018, , 105-153.	0.3	1
89	Robust Ruthenium Catalysts Supported on Mesoporous Cyclodextrin-Templated TiO2-SiO2 Mixed Oxides for the Hydrogenation of Levulinic Acid to Î³-Valerolactone. International Journal of Molecular Sciences, 2021, 22, 1721.	1.8	1
90	Cyclodextrins as Multitask Agents in Nanocatalysis. , 2016, , 1151-1175.		0

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91	Metal Nanoparticles and Cyclodextrins for Catalytic Applications. Environmental Chemistry for A Sustainable World, 2020, , 219-279.	0.3	0