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Platinum-catalyzed asymmetric hydrogenation:  
spectroscopic evidence for an O-H-O hydrogen-bond  
interaction between substrate and modifier

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#	Paper	IF	Citations
52	Aminolactone Chiral Modifiers for Heterogeneous Asymmetric Hydrogenation: Corrected Structure of Pantoyl-Naphthylethylamine, In-Situ Hydrogenolysis, and Scanning Tunneling Microscopy Observation of Supramolecular Aminolactone/Substrate Assemblies on Pt(111). <i>ACS Catalysis</i> , <b>2013</b> , 3, 2677-2683	13.1	8
51	Stereodirection of a $\beta$ -ketoester at sub-molecular sites on chirally modified Pt(111): heterogeneous asymmetric catalysis. <i>Journal of the American Chemical Society</i> , <b>2013</b> , 135, 9999-10002	16.4	34
50	An In Situ Spectroscopic Study of Prochiral Reactant-Chiral Modifier Interactions on Palladium Catalyst: Case of Alkenoic Acid and Cinchonidine in Various Solvents. <i>Journal of Physical Chemistry C</i> , <b>2013</b> , 117, 18043-18052	3.8	17
49	In-Situ Spectroscopic Detection of Active Surface Species in Asymmetric Heterogeneous Catalysis. <i>ChemCatChem</i> , <b>2013</b> , 5, 683-685	5.2	14
48	Adsorption of 1-(1-naphthyl)ethylamine from solution onto platinum surfaces: implications for the chiral modification of heterogeneous catalysts. <i>Angewandte Chemie - International Edition</i> , <b>2013</b> , 52, 3453-6	16.4	31
47	Adsorption of 1-(1-Naphthyl)ethylamine from Solution onto Platinum Surfaces: Implications for the Chiral Modification of Heterogeneous Catalysts. <i>Angewandte Chemie</i> , <b>2013</b> , 125, 3537-3540	3.6	2
46	Monitoring Surface Processes During Heterogeneous Asymmetric Hydrogenation of Ketones on a Chirally Modified Platinum Catalyst by Operando Spectroscopy. <i>Angewandte Chemie</i> , <b>2014</b> , 126, 8784-8788	3.6	1
45	Monitoring surface processes during heterogeneous asymmetric hydrogenation of ketones on a chirally modified platinum catalyst by operando spectroscopy. <i>Angewandte Chemie - International Edition</i> , <b>2014</b> , 53, 8640-4	16.4	43
44	Effective one-step reduction of Pt/alumina-carbon catalysts for asymmetric hydrogenation of $\beta$ -ketoesters. <i>Applied Catalysis A: General</i> , <b>2014</b> , 480, 50-57	5.1	8
43	Hydrogen-bond-assisted controlled C-H functionalization via adaptive recognition of a purine directing group. <i>Journal of the American Chemical Society</i> , <b>2014</b> , 136, 1132-40	16.4	132
42	Chiral metal nanoparticle-catalyzed asymmetric C-C bond formation reactions. <i>Chemical Society Reviews</i> , <b>2014</b> , 43, 1450-61	58.5	136
41	Surface Diastereomeric Complexes Formed by Methyl Benzoylformate and (R)-1-(1-Naphthyl)ethylamine on Pt(111). <i>ACS Catalysis</i> , <b>2014</b> , 4, 847-854	13.1	10
40	Preparation and characterization of single-handed twisted platinum tubular nanoribbons. <i>Materials Letters</i> , <b>2014</b> , 133, 147-150	3.3	5
39	Walking-like diffusion of two-footed asymmetric aromatic adsorbates on Pt(111). <i>Surface Science</i> , <b>2014</b> , 629, 123-131	1.8	17
38	Homogeneous Catalytic Processes Monitored by Combined in Situ ATR-IR, UV-Vis, and Raman Spectroscopy. <i>ACS Catalysis</i> , <b>2014</b> , 4, 2153-2164	13.1	28
37	Use of Short Time-on-Stream Attenuated Total Internal Reflection Infrared Spectroscopy To Probe Changes in Adsorption Geometry for Determination of Selectivity in the Hydrogenation of Citral. <i>ACS Catalysis</i> , <b>2014</b> , 4, 2470-2478	13.1	22
36	Heterogeneous asymmetric hydrogenation of heteroaromatic methyl ketones catalyzed by cinchona-modified iridium catalysts. <i>Tetrahedron: Asymmetry</i> , <b>2014</b> , 25, 821-824		10

35	Chiral modification of platinum by co-adsorbed cinchonidine and trifluoroacetic acid: origin of enhanced stereocontrol in the hydrogenation of trifluoroacetophenone. <i>Chemistry - A European Journal</i> , <b>2014</b> , 20, 1298-309	4.8	13
34	Chirally-modified metal surfaces: energetics of interaction with chiral molecules. <i>Physical Chemistry Chemical Physics</i> , <b>2015</b> , 17, 22726-35	3.6	11
33	Catalyst characterisation techniques and reaction cells operating at realistic conditions; towards acquisition of kinetically relevant information. <i>Catalysis Science and Technology</i> , <b>2015</b> , 5, 4859-4883	5.5	37
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31	Effect of Hydrogen on the Orientation of Cinchonidine Adsorbed on Platinum: An ATR-SEIRAS Study. <i>Chemistry Letters</i> , <b>2015</b> , 44, 770-772	1.7	13
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29	Chirality in ordered porous organosilica hybrid materials. <i>Chemistry - an Asian Journal</i> , <b>2015</b> , 10, 70-82	4.5	12
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24	X-Ray Absorption and Emission Spectroscopy for Catalysis. <b>2016</b> , 351-383		17
23	Chiral Ligand-Modified Metal Nanoparticles as Unique Catalysts for Asymmetric C-C Bond-Forming Reactions: How Are Active Species Generated?. <i>ACS Catalysis</i> , <b>2016</b> , 6, 7979-7988	13.1	49
22	Insights into the Complexity of Heterogeneous Liquid-Phase Catalysis: Case Study on the Cyclization of Citronellal. <i>ACS Catalysis</i> , <b>2016</b> , 6, 2760-2769	13.1	23
21	Structure Sensitivity in Catalytic Hydrogenation at Platinum Surfaces Measured by Shell-Isolated Nanoparticle Enhanced Raman Spectroscopy (SHINERS). <i>ACS Catalysis</i> , <b>2016</b> , 6, 1822-1832	13.1	53
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15	Heterogeneous Asymmetric Catalysis. <b>2017</b> , 479-509		
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8	Kinetic Analysis of Enantioselective Hydrogenation of 2,3-(E)-Diarylpropenoic Acids over a Chiral Cinchona Alkaloid-Modified Pd/C Catalyst. <i>Bulletin of the Chemical Society of Japan</i> , <b>2020</b> , 93, 163-175	5.1	4
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2	Ligand-Assisted Carbonyl Bond Activation in Single Diastereomeric Complexes on Platinum. <b>2022</b> , 12, 12186-12194		0
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