

Mihály Bartók

List of Publications by Year in descending order

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181
papers

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#	ARTICLE	IF	CITATIONS
1	Unexpected Inversions in Asymmetric Reactions: Reactions with Chiral Metal Complexes, Chiral Organocatalysts, and Heterogeneous Chiral Catalysts. <i>Chemical Reviews</i> , 2010, 110, 1663-1705.	47.7	352
2	New Catalytic Materials from Amorphous Metal Alloys. <i>Advances in Catalysis</i> , 1989, 36, 329-383.	0.2	168
3	Heterogeneous Catalytic Enantioselective Hydrogenation of Activated Ketones. <i>Current Organic Chemistry</i> , 2006, 10, 1533-1567.	1.6	149
4	Enantiodifferentiation in asymmetric sonochemical hydrogenations. <i>Catalysis Letters</i> , 1998, 52, 81-84.	2.6	115
5	Detection of new fumonisin mycotoxins and fumonisin-like compounds by reversed-phase high-performance liquid chromatography/electrospray ionization ion trap mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2006, 20, 2447-2462.	1.5	85
6	In Situ Generation of Palladium Nanoparticles in Smectite Clays. <i>Journal of Catalysis</i> , 1996, 161, 401-408.	6.2	81
7	Chemoselective Hydrogenation of Cinnamaldehyde to Cinnamyl Alcohol over Pt/K-10 Catalyst. <i>Journal of Catalysis</i> , 1998, 179, 619-623.	6.2	75
8	Electrospray Ionization–Mass Spectrometry in the Enantioselective Hydrogenation of Ethyl Pyruvate Catalyzed by Dihydrocinchonidine Modified Pt/Al ₂ O ₃ in Acetic Acid. <i>Journal of Catalysis</i> , 2002, 205, 168-176.	6.2	68
9	Heterogeneous asymmetric reactions. <i>Applied Catalysis A: General</i> , 2000, 203, 71-79.	4.3	67
10	98% Enantioselectivity in the asymmetric synthesis of a useful chiral building block by heterogeneous method: Enantioselective hydrogenation of ethyl-benzoylformate over cinchona modified Pt/Al ₂ O ₃ catalysts in the acetic acid. <i>Catalysis Communications</i> , 2002, 3, 125-127.	3.3	63
11	Detection and characterization of twenty-eight isomers of fumonisin B ₁ (FB ₁) mycotoxin in a solid rice culture infected with <i>Fusarium verticillioides</i> by reversed-phase high-performance liquid chromatography/electrospray ionization time-of-flight and ion trap mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2010, 24, 35-42.	1.5	63
12	Enantioselective direct aldol addition of acetone to aliphatic aldehydes. <i>Chirality</i> , 2003, 15, S90-S96.	2.6	59
13	Asymmetric reactions in sonochemistry. <i>Ultrasonics Sonochemistry</i> , 2001, 8, 191-200.	8.2	55
14	New synthesis of a useful C ₃ chiral building block by a heterogeneous method: enantioselective hydrogenation of pyruvaldehyde dimethyl acetal over cinchona modified Pt/Al ₂ O ₃ catalysts. <i>Chemical Communications</i> , 1999, , 1725-1726.	4.1	54
15	Increased enantioselectivity in the presence of benzylamine in the heterogeneous hydrogenation of α,β -unsaturated carboxylic acids. <i>Journal of Catalysis</i> , 2005, 231, 480-483.	6.2	53
16	Ultrasonic irradiation as activity and selectivity improving factor in the hydrogenation of cinnamaldehyde over Pt/SiO ₂ catalysts. <i>Applied Catalysis A: General</i> , 1998, 172, 225-232.	4.3	52
17	Title is missing!. <i>Catalysis Letters</i> , 1999, 61, 1-5.	2.6	51
18	Ultrasonics in asymmetric syntheses. Sonochemical enantioselective hydrogenation of prochiral C=O groups over platinum catalysts. <i>Chirality</i> , 1999, 11, 470-474.	2.6	51

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19	Heterogeneous asymmetric reactions. <i>Journal of Molecular Catalysis A</i> , 2002, 177, 299-305.	4.8	51
20	A new cinchona-modified platinum catalyst for the enantioselective hydrogenation of pyruvate: the structure of the 1:1 alkaloid-reactant complex. <i>Chemical Communications</i> , 1998, , 2605-2606.	4.1	50
21	Heterogeneous asymmetric reactions. <i>Journal of Molecular Catalysis A</i> , 2004, 216, 181-187.	4.8	48
22	Studies on the conversions of diols and cyclic ethers ⁴⁹ . <i>Tetrahedron</i> , 1981, 37, 2149-2151.	1.9	46
23	Enantioselective hydrogenation of ethyl pyruvate catalysed by cinchonine-modified Pt/Al ₂ O ₃ : tilted adsorption geometry of cinchonine. <i>Catalysis Letters</i> , 2005, 100, 161-167.	2.6	45
24	Up to 96% Enantioselectivities in the Hydrogenation of Fluorine Substituted (<i>E</i>)-2,3-Diphenylpropenoic Acids over Cinchonidine-Modified Palladium Catalyst. <i>Advanced Synthesis and Catalysis</i> , 2008, 350, 2804-2814.	4.3	45
25	Transformation of 1,2-diols over perfluorinated resinsulfonic acids (Nafion-H). <i>Tetrahedron</i> , 1994, 50, 8195-8202.	1.9	43
26	New data on enantiomeric excess versus conversion during enantioselective hydrogenation of activated ketones on a platinum catalyst. <i>Journal of Catalysis</i> , 2004, 224, 463-472.	6.2	43
27	Enantioselective hydrogenation of ethyl pyruvate catalyzed by - and -isocinchonine-modified Pt/AlO in toluene: inversion of enantioselectivity. <i>Journal of Catalysis</i> , 2005, 231, 33-40.	6.2	43
28	Homogeneous and heterogeneous asymmetric reactions: Part 11. <i>Ultrasonics Sonochemistry</i> , 1999, 5, 149-155.	8.2	41
29	Title is missing!. <i>Catalysis Letters</i> , 1999, 59, 179-185.	2.6	41
30	Heterogeneous asymmetric reactions. <i>Applied Catalysis A: General</i> , 2002, 237, 275-280.	4.3	41
31	New data to the origin of rate enhancement on the Pt-cinchona catalyzed enantioselective hydrogenation of activated ketones using continuous-flow fixed-bed reactor system. <i>Journal of Catalysis</i> , 2008, 260, 245-253.	6.2	41
32	Hydrogenation of unsaturated ketones: selective catalytic transfer hydrogenation of 5-hexen-2-one over MgO. <i>Journal of Molecular Catalysis A</i> , 1999, 148, 265-273.	4.8	40
33	Title is missing!. <i>Catalysis Letters</i> , 1999, 61, 57-60.	2.6	40
34	Stereoselective hydrogenation of 1-phenyl-1-pentyne over low-loaded Pd-montmorillonite catalysts. <i>Applied Catalysis A: General</i> , 2001, 213, 133-140.	4.3	39
35	Asymmetric synthesis of alkyl 5-oxotetrahydrofuran-2-carboxylates by enantioselective hydrogenation of dialkyl 2-oxoglutarates over cinchona modified Pt/Al ₂ O ₃ catalysts. <i>Chemical Communications</i> , 2000, , 555-556.	4.1	38
36	Crotonaldehyde hydrogenation over clay-supported platinum catalysts. <i>Journal of Molecular Catalysis A</i> , 2001, 169, 235-246.	4.8	38

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37	Homogeneous and heterogeneous catalytic asymmetric reactions. <i>Journal of Molecular Catalysis</i> , 1990, 60, 1-10.	1.2	37
38	Palladium Nanoparticle-Graphene Catalysts for Asymmetric Hydrogenation. <i>Catalysis Letters</i> , 2013, 143, 539-546.	2.6	37
39	Sonochemical enantioselective hydrogenation of ethyl pyruvate over platinum catalysts. <i>Ultrasonics Sonochemistry</i> , 1997, 4, 301-304.	8.2	36
40	Dynamic Kinetic Resolution over Cinchona-Modified Platinum Catalyst: Hydrogenation of Racemic Ethyl 2-Fluoroacetate. <i>Advanced Synthesis and Catalysis</i> , 2006, 348, 515-522.	4.3	36
41	Enantioselective hydrogenation of itaconic acid over cinchona alkaloid modified supported palladium catalyst. <i>Applied Catalysis A: General</i> , 2007, 319, 193-201.	4.3	36
42	Identification of ethyl pyruvate and dihydrocinchonidine adducts by electrospray ionization mass spectrometry. , 2000, 14, 509-514.		35
43	Advances in Immobilized Organocatalysts for the Heterogeneous Asymmetric Direct Aldol Reactions. <i>Catalysis Reviews - Science and Engineering</i> , 2015, 57, 192-255.	12.9	35
44	Transformation of 1,3-, 1,4- and 1,5-diols over perfluorinated resinsulfonic acids (Nafion-H). <i>Tetrahedron</i> , 1995, 51, 3319-3326.	1.9	34
45	Title is missing!. <i>Catalysis Letters</i> , 2002, 81, 55-62.	2.6	34
46	Inversion of enantioselectivity in the hydrogenation of ketopantolactone on a Pt-ICN chiral catalyst. <i>Journal of Catalysis</i> , 2006, 239, 74-82.	6.2	34
47	Amorphous alloy catalysis. <i>Journal of Molecular Catalysis</i> , 1991, 64, 41-51.	1.2	33
48	Homogeneous and heterogeneous asymmetric reactions. Part X: Enantioselective hydrogenations over K-10 montmorillonite supported noble metal catalysts with immobilized modifier1Part IX: B. Tátrai, J. Wálfing, Gy. Schneider, M. Barták, Asymmetric transfer hydrogenation of steroid 17-ketones in the presence of rhodium(I) complexes, <i>React. Kinet. Catal. Lett.</i> 64 (1998) 35.1. <i>Applied Catalysis A: General</i> , 1999, 182, 53-63.	4.3	33
49	Ultrasonics in heterogeneous metal catalysis: sonochemical chemo- and enantioselective hydrogenations over supported platinum catalysts. <i>Ultrasonics Sonochemistry</i> , 1999, 6, 97-103.	8.2	31
50	Enantioselective hydrogenation of α,β -unsaturated carboxylic acids in fixed-bed reactor. <i>Applied Catalysis A: General</i> , 2007, 331, 39-43.	4.3	30
51	NMR spectroscopic and theoretical evidence of cinchona alkaloid-ketopantolactone complex formation in aprotic solvents: Implications for the mechanism of Pt-catalyzed enantioselective hydrogenation of activated ketones. <i>Journal of Catalysis</i> , 2007, 246, 266-276.	6.2	30
52	Enantioselective Michael addition catalyzed by cinchona alkaloids. <i>Chirality</i> , 2001, 13, 614-618.	2.6	29
53	Enantioselective Hydrogenation of Trifluoromethylcyclohexyl Ketone on Cinchona Alkaloid Modified Pt-Alumina Catalyst. <i>Catalysis Letters</i> , 2004, 97, 65-70.	2.6	29
54	Effect of the substituent position on the enantioselective hydrogenation of methoxy-substituted 2,3-diphenylpropenoic acids over palladium catalyst. <i>Journal of Molecular Catalysis A</i> , 2008, 290, 54-59.	4.8	29

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55	Heterogeneous asymmetric reactions. <i>Journal of Molecular Catalysis A</i> , 2001, 170, 165-173.	4.8	28
56	C9-O-substituted derivatives of cinchona alkaloids as chiral modifiers in the Orito-reaction: Effects of structure of modifiers on sense of enantioselectivity. <i>Journal of Molecular Catalysis A</i> , 2006, 247, 108-115.	4.8	28
57	Role of basic and acidic centers of MgO and modified MgO in catalytic transfer hydrogenation of ketones studied by infrared spectroscopy. <i>Journal of Molecular Structure</i> , 1999, 482-483, 13-17.	3.6	27
58	Inversion of enantioselectivity in the 2,2,2-trifluoroacetophenone hydrogenation over Pt-alumina catalyst modified by cinchona alkaloids. <i>Applied Catalysis A: General</i> , 2009, 362, 178-184.	4.3	27
59	Origin of the rate enhancement and enantiodifferentiation in the heterogeneous enantioselective hydrogenation of 2,2,2-trifluoroacetophenone over Pt/alumina studied in continuous-flow fixed-bed reactor system. <i>Applied Catalysis A: General</i> , 2010, 382, 263-271.	4.3	27
60	Effect of coacid acidity on the cinchona-modified Pt-catalyzed enantioselective hydrogenations. <i>Studies in Surface Science and Catalysis</i> , 2000, 130, 3381-3386.	1.5	26
61	Study of enantioselective hydrogenation of bulky esters of phenylglyoxylic acid on Pt-CD and Pt- \hat{I}^2 -ICN chiral catalysts: Steric effect of ester groups and inversion of enantioselectivity. <i>Journal of Catalysis</i> , 2006, 241, 149-154.	6.2	26
62	New data in the enantioselective hydrogenation of ethyl pyruvate on Pt-cinchona chiral catalyst using continuous-flow fixed-bed reactor system: The origin of rate enhancement. <i>Journal of Molecular Catalysis A</i> , 2009, 305, 155-160.	4.8	25
63	Hydrogenation of cinchona alkaloids over supported Pt catalyst. <i>Chirality</i> , 2003, 15, S82-S89.	2.6	24
64	The first case of competitive heterogeneously catalyzed enantioselective hydrogenation of ketones. <i>Chemical Communications</i> , 2011, 47, 1551-1552.	4.1	24
65	Enantioselective hydrogenation of fluorinated unsaturated carboxylic acids over cinchona alkaloid modified palladium catalysts. <i>Catalysis Communications</i> , 2008, 9, 421-424.	3.3	23
66	Inversion of the Enantioselectivity in the Hydrogenation of (<i>E</i>)-2,3-diphenylpropenoic Acids over Pd Modified by Cinchonidine Silyl Ethers. <i>ACS Catalysis</i> , 2011, 1, 1316-1326.	11.2	23
67	Title is missing!. <i>Catalysis Letters</i> , 2001, 73, 127-131.	2.6	22
68	Title is missing!. <i>Catalysis Letters</i> , 2002, 81, 281-284.	2.6	22
69	Cinchona methyl ethers as modifiers in the enantioselective hydrogenation of (<i>E</i>)-2,3-diphenylpropenoic acids over Pd catalyst. <i>Journal of Catalysis</i> , 2010, 276, 259-267.	6.2	22
70	Enantioselective Hydrogenation of <i>N</i> -Acetyldehydroamino Acids over Supported Palladium Catalysts. <i>Advanced Synthesis and Catalysis</i> , 2007, 349, 405-410.	4.3	21
71	Identification of new types of aluminium compounds by electrospray ionization mass spectrometry: oxonium cations. <i>Rapid Communications in Mass Spectrometry</i> , 2001, 15, 65-69.	1.5	20
72	Low- and high-temperature hydrogenative ring-opening of alkyl-substituted cyclopropanes and methyloxirane over Pd/SiO ₂ catalyst: detection of \hat{I}^2 -hydride by a chemical method. <i>Journal of Molecular Catalysis</i> , 1990, 63, 43-54.	1.2	19

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73	Title is missing!. Catalysis Letters, 2003, 87, 235-240.	2.6	19
74	Methylethers of cinchona alkaloids in Pt-catalyzed hydrogenation of ethyl pyruvate and ketopantolactone: Effect of stereochemical factors on the enantioselectivity. Journal of Molecular Catalysis A, 2008, 280, 87-95.	4.8	19
75	Enantioselective hydrogenation of ketopantolactone using Pt(II)-ICN chiral catalyst: Correlation between the solution-state concentration of a nucleophilic Pt(II)-isocinchonine-ketopantolactone complex and enantioselectivity. Journal of Catalysis, 2008, 255, 296-303.	6.2	19
76	Preparation and Characterization of TiO ₂ Coated Multi-walled Carbon Nanotube-supported Pd and its Catalytic Performance in the Asymmetric Hydrogenation of α,β -Unsaturated Carboxylic Acids. Catalysis Letters, 2009, 132, 370-376.	2.6	19
77	Novel Evidence on the Role of the Nucleophilic Intermediate Complex in the Orito-Reaction: Unexpected Inversion in the Enantioselective Hydrogenation of 2,2,2-Trifluoroacetophenone on Pt-Cinchona Chiral Catalyst Using Continuous-Flow Fixed-Bed Reactor. Catalysis Letters, 2010, 134, 264-269.	2.6	19
78	Heterogeneous Asymmetric Reactions, 22. β -Isocinchona Alkaloids in Enantioselective Hydrogenations. Reaction Kinetics and Catalysis Letters, 2000, 71, 99-108.	0.6	18
79	Title is missing!. Reaction Kinetics and Catalysis Letters, 2002, 77, 363-370.	0.6	18
80	A new type of fumonisin series appeared on the scene of food and feed safety. Cereal Research Communications, 2008, 36, 315-319.	1.6	18
81	New phenomenon in competitive hydrogenation of binary mixtures of activated ketones over unmodified and cinchonidine-modified Pt/alumina catalyst. Catalysis Communications, 2011, 12, 1410-1414.	3.3	18
82	Preparation of Optically Enriched 3-Hydroxy-4-dihydroquinolin-2(1H)-ones by Heterogeneous Catalytic Cascade Reaction over Supported Platinum Catalyst. Advanced Synthesis and Catalysis, 2013, 355, 1623-1629.	4.3	18
83	On the nature of catalytic activity of nickel and platinum graphimets. Journal of Catalysis, 1989, 117, 558-560.	6.2	17
84	Transformation of organic compounds in the presence of metal complexes. Journal of Organometallic Chemistry, 1993, 460, 111-115.	1.8	17
85	Heterogeneous Catalytic Hydrogenation. , 0, , 843-908.		17
86	New results on the mass spectra of cinchona alkaloids. Journal of Mass Spectrometry, 2000, 35, 711-717.	1.6	17
87	Reversal of the ee in enantioselective hydrogenation of activated ketones in continuous-flow fixed-bed reactor system. Catalysis Communications, 2010, 12, 14-19.	3.3	17
88	Heterogeneous Enantioselective Hydrogenation in a Continuous-flow Fixed-bed Reactor System: Hydrogenation of Activated Ketones and Their Binary Mixtures on Pt(II)-Alumina-Cinchona Alkaloid Catalysts. Catalysis Letters, 2012, 142, 889-894.	2.6	17
89	Homogeneous and heterogeneous asymmetric reactions. Part 5. Diastereoselective and enantioselective hydrogenation of cyclic β -keto esters on modified Raney-nickel catalysts. Helvetica Chimica Acta, 1990, 73, 635-639.	1.6	16
90	Preparation, Characterization and Application of K-10 Montmorillonite Modified with Chiral Ammonium Halides. Molecular Crystals and Liquid Crystals, 1998, 311, 289-294.	0.3	16

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91	Ultrasonics in chemoselective heterogeneous metal catalysis. Sonochemical hydrogenation of unsaturated carbonyl compounds over platinum catalysts. <i>Ultrasonics Sonochemistry</i> , 2000, 7, 173-176.	8.2	16
92	Shape-selective catalysts: quasi-two-dimensional Pd-particles encapsulated in graphite. <i>Journal of Molecular Catalysis A</i> , 2001, 175, 205-213.	4.8	16
93	Heterogeneous asymmetric reactions. Part 24. Heterogeneous catalytic enantioselective hydrogenation of the C=N group over cinchona alkaloid modified palladium catalyst. <i>Chirality</i> , 2001, 13, 619-624.	2.6	16
94	Heterogeneous asymmetric reactions. <i>Journal of Molecular Catalysis A</i> , 2004, 219, 383-389.	4.8	16
95	New Data on the Orito Reaction: Effect of Substrate Structure on Nonlinear Phenomenon. <i>Catalysis Letters</i> , 2008, 125, 401-407.	2.6	16
96	Enantioselective hydrogenation of arecaidine over cinchona alkaloid-modified palladium catalyst: A novel route to enantioenriched nipecotic acid derivatives. <i>Journal of Catalysis</i> , 2008, 256, 349-352.	6.2	16
97	The First Case of Competitive Heterogeneously Catalyzed Hydrogenation using Continuous-Flow Fixed-Bed Reactor System: Hydrogenation of Binary Mixtures of Activated Ketones on Pt-Alumina and on Pt-Alumina-Cinchonidine Catalysts. <i>Catalysis Letters</i> , 2011, 141, 1616-1620.	2.6	16
98	Unusual enantioselectivities in heterogeneous organocatalyzed reactions: Reversal of direction using proline di- versus tri-peptides in the aldol addition. <i>Journal of Molecular Catalysis A</i> , 2014, 382, 86-92.	4.8	16
99	Homogeneous and heterogeneous asymmetric reactions. Part 13. Clay-supported noble metal catalysts in enantioselective hydrogenations. <i>Studies in Surface Science and Catalysis</i> , 1999, 125, 515-522.	1.5	15
100	Hydrogen pressure-dependence in the ring-opening reactions of substituted cyclopropanes over Rh/SiO ₂ catalyst. <i>Catalysis Letters</i> , 1990, 5, 229-235.	2.6	14
101	Hydrogenative ring-opening reactions of alkyl-substituted cyclopropanes over Pt/SiO ₂ catalyst. <i>Journal of Molecular Catalysis</i> , 1992, 77, 313-319.	1.2	14
102	Organocatalytic direct aldol reaction between acetone and α -substituted β -keto esters. <i>Journal of Molecular Catalysis A</i> , 2007, 267, 98-101.	4.8	14
103	A new rigid cinchona modified (α -IQ) platinum catalyst for the enantioselective hydrogenation of activated ketones: Data to the origin of enantioselection. <i>Journal of Molecular Catalysis A</i> , 2007, 272, 265-274.	4.8	14
104	Enantioselective hydrogenation of (E)-2-methyl-2-butenoic acid over cinchonidine modified Pd catalyst. Effect of the structure of achiral amine additives. <i>Reaction Kinetics and Catalysis Letters</i> , 2009, 96, 319-325.	0.6	14
105	Reactions of chlorine substituted (E)-2,3-diphenylpropenoic acids over cinchonidine-modified Pd: Enantioselective hydrogenation versus hydrodechlorination. <i>Journal of Molecular Catalysis A</i> , 2010, 333, 28-36.	4.8	14
106	Transformation of Vinyloxirane on Pt-SiO ₂ and Pd-SiO ₂ . <i>Journal of Catalysis</i> , 1998, 175, 40-47.	6.2	13
107	The mechanism of hydrogenolysis and isomerization of oxacycloalkanes on metals. <i>Journal of Molecular Catalysis A</i> , 1998, 135, 307-316.	4.8	13
108	Heterogeneous asymmetric reactions, 14. Epicinchona alkaloids in the enantioselective hydrogenation of ethyl pyruvate over Pt/alumina. What determines the sense of enantioselection?. <i>Reaction Kinetics and Catalysis Letters</i> , 1999, 68, 371-377.	0.6	13

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109	Heterogeneous asymmetric reactions. <i>Journal of Molecular Catalysis A</i> , 2003, 202, 163-170.	4.8	13
110	Structure-Property Relationship in <i>py</i> -Hexahydrocinchonidine Diastereomers: Ab Initio and NMR Study. <i>Journal of Physical Chemistry A</i> , 2005, 109, 860-868.	2.5	13
111	Reversal of Enantioselectivity in Aldol Reaction: New Data on Proline/ γ -Alumina Organic-Inorganic Hybrid Catalysts. <i>Catalysis Letters</i> , 2014, 144, 478-486.	2.6	13
112	Ni-catalyzed ring-opening reactions of alkyl-substituted cyclopropanes; role of unreduced Ni species. <i>Journal of Molecular Catalysis</i> , 1991, 68, 237-241.	1.2	12
113	Hydrogen pressure dependence in the ring-opening reactions of propylcyclobutane over Pd/SiO ₂ catalyst. <i>Catalysis Letters</i> , 1995, 31, 421-429.	2.6	12
114	Solvent and support effects in the case of acetic acid and alumina: Oxonium cations in asymmetric hydrogenation of ethyl pyruvate over dihydrocinchonidine modified platinum. <i>Catalysis Communications</i> , 2001, 2, 269-272.	3.3	12
115	A novel asymmetric heterogeneous catalytic reaction: hydrogenation of ethyl 2-acetoxyacrylate on cinchonidine modified Pd and Pt catalyst. <i>Reaction Kinetics and Catalysis Letters</i> , 2005, 84, 151-156.	0.6	12
116	Hydrogenation of β -isocinchonicine in mild conditions on Pt and Pd catalysts using HPLC-ESI-ion-trap MS: New results on the role of structure of cinchona alkaloids in the Orito reaction. <i>Catalysis Communications</i> , 2006, 7, 104-108.	3.3	12
117	IDENTIFICATION OF UNKNOWN ISOMERS OF FUMONISIN B ₅ MYCOTOXIN IN A <i>FUSARIUM VERTICILLIOIDES</i> CULTURE BY HIGH-PERFORMANCE LIQUID CHROMATOGRAPHY/ELECTROSPRAY IONIZATION TIME-OF-FLIGHT AND ION TRAP MASS SPECTROMETRY. <i>Journal of Liquid Chromatography and Related Technologies</i> , 2013, 36, 1549-1561.	1.0	12
118	Detection of Previously Unknown Fumonisin P Analogue Mycotoxins in a <i>Fusarium verticillioides</i> Culture by High-Performance Liquid Chromatography-Electrospray Ionization Time-of-Flight and Ion Trap Mass Spectrometry. <i>Journal of Chromatographic Science</i> , 2014, 52, 508-513.	1.4	12
119	Transformation of compounds containing C-N bonds on heterogeneous catalysts. <i>Journal of Molecular Catalysis</i> , 1989, 57, 81-89.	1.2	11
120	Amorphous alloy catalysis IX. Isomerization and hydrogenation of allyl alcohol over an amorphous copper-zirconium alloy. <i>Journal of Molecular Catalysis A</i> , 1996, 112, 85-92.	4.8	11
121	Transformations of Cyclohexene over Silica-Supported Copper in the Presence of Deuterium. <i>Journal of Catalysis</i> , 1997, 167, 215-223.	6.2	11
122	Methylethers of cinchona alkaloids in Pt-catalyzed hydrogenation of methyl benzoylformate and pyruvaldehyde dimethyl acetal. <i>Journal of Molecular Catalysis A</i> , 2008, 285, 84-91.	4.8	11
123	The enantioselective hydrogenation of 5,6-dihydro-2H-pyran-3-carboxylic acid over a cinchona alkaloid-modified palladium catalyst: asymmetric synthesis of a cockroach attractant. <i>New Journal of Chemistry</i> , 2008, 32, 1354.	2.8	11
124	Achiral amine additives in the enantioselective hydrogenation of aliphatic α,β -unsaturated acids over cinchonidine-modified Pd/Al ₂ O ₃ catalyst. <i>Catalysis Today</i> , 2012, 181, 56-61.	4.4	11
125	Reversal of the enantioselectivity in aldol addition over immobilized di- and tripeptides: studies under continuous flow conditions. <i>RSC Advances</i> , 2014, 4, 61611-61618.	3.6	11
126	1,2-Bond shift isomerization on copper. <i>Journal of the Chemical Society Chemical Communications</i> , 1980, , 1178-1180.	2.0	10

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127	Studies on the Conversions of Diols and Cyclic Ethers. Part 48. Dehydration of alcohols and diols on the action of dimethylsulfoxide. <i>Helvetica Chimica Acta</i> , 1981, 64, 389-398.	1.6	10
128	Multinuclear and 2D NMR structural study of methyl-substituted 1,3-dioxadecalanes. <i>Tetrahedron</i> , 1987, 43, 2761-2767.	1.9	10
129	Transformation of carbon compounds on graphimet catalysts. Part V. The effect of pretreatment on the structure and activity of Pt-graphimet catalyst. <i>Journal of Molecular Catalysis A</i> , 1995, 99, 115-121.	4.8	10
130	Enantioselective hydrogenation of propenoic acids bearing heteroaromatic substituents over cinchonidine modified Pd/alumina. <i>Catalysis Communications</i> , 2009, 10, 1107-1110.	3.3	10
131	Tuning the sense of product stereochemistry in aldol reactions of acetone and aromatic aldehydes in the presence of water with a single chiral catalyst. <i>Tetrahedron Letters</i> , 2015, 56, 7201-7205.	1.4	10
132	Comparative Study of Graphite-Oxide and Graphene-Oxide Supported Proline Organocatalysts in Asymmetric Aldol Addition. <i>Topics in Catalysis</i> , 2016, 59, 1227-1236.	2.8	10
133	Stereochemistry of the hydrogenolysis of oxacycloalkanes on metal catalysts. <i>Journal of the Chemical Society Chemical Communications</i> , 1980, , 667-668.	2.0	9
134	Reactions of organosilicon compounds on metals. <i>Journal of Molecular Catalysis</i> , 1990, 61, 307-317.	1.2	9
135	Dehydration of 2-propanol over Cu–Ti metallic glasses: effect of pretreatments and reaction on the structure and surface properties. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 1994, 181-182, 1095-1098.	5.6	9
136	Ring enlargement and aromatization of propylcyclobutane over silica-supported Pt, Pd and Rh in hydrogen atmosphere. <i>Journal of Molecular Catalysis</i> , 1994, 91, 61-69.	1.2	9
137	Effect of ion exchange by an organic cation on platinum immobilization on clays. <i>Reaction Kinetics and Catalysis Letters</i> , 2001, 74, 241-249.	0.6	9
138	Preparation, characterization and application of platinum catalysts immobilized on clays. <i>Solid State Ionics</i> , 2001, 141-142, 273-278.	2.7	9
139	Investigation of chiral reactions: the structural detection of new hydrogenated isocinchona alkaloids from mixtures without isolation using electrospray ionization tandem mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2004, 18, 1352-1360.	1.5	9
140	Dual stereocontrol in aldol reactions catalysed by hydroxyproline derivatives in the presence of a large amount of water. <i>Tetrahedron: Asymmetry</i> , 2016, 27, 936-942.	1.8	9
141	Ring-opening of alkyl-substituted cyclopropanes in the presence of hydrogen on copper. <i>Journal of the Chemical Society Chemical Communications</i> , 1987, , 953-954.	2.0	8
142	The mechanism of hydrogenolysis and isomerization of oxacycloalkanes on metals. <i>Journal of Molecular Catalysis</i> , 1988, 44, 337-345.	1.2	8
143	Hydrogenative ring opening of propylcyclopropane over silica-supported Pt and Pd catalysts. <i>Catalysis Letters</i> , 1995, 33, 331-339.	2.6	8
144	Alkylation of Benzene with Cyclic Ethers in Superacidic Media. <i>Catalysis Letters</i> , 2003, 89, 1-9.	2.6	8

#	ARTICLE	IF	CITATIONS
145	New Data of Nonlinear Phenomenon in the Heterogeneous Enantioselective Hydrogenation of Activated Ketones. <i>Catalysis Letters</i> , 2008, 124, 46-51.	2.6	8
146	Mass Spectra of Iso-Cinchona- and Halogenated Cinchona Alkaloids. <i>European Journal of Mass Spectrometry</i> , 2000, 6, 347-355.	1.0	7
147	Modifier's substrate interactions of various types in the Orto reaction: Reversal of the enantioselection in the hydrogenation of ketopantolactone on Pt modified by β -isocinchonine and O-phenylcinchonidine. <i>Catalysis Communications</i> , 2013, 32, 81-85.	3.3	7
148	1,3-Bond shift isomerization of 2,2,4,4-tetramethyloxetan on noble metals. <i>Journal of the Chemical Society Chemical Communications</i> , 1979, , 139-140.	2.0	6
149	Transformation of 1,3-aminoalcohols to ketones on copper. <i>Journal of Molecular Catalysis</i> , 1982, 14, 379-382.	1.2	6
150	Transformation of compounds containing C-N bonds on heterogeneous catalysis. <i>Journal of Molecular Catalysis</i> , 1988, 49, 103-111.	1.2	6
151	Temperature and hydrogen pressure dependences in the ring opening of methylcyclobutane over Pt/SiO ₂ catalyst. <i>Catalysis Letters</i> , 1995, 33, 321-330.	2.6	6
152	Catalytic transfer hydrogenation of 2-butanone over oxide catalysts. <i>Reaction Kinetics and Catalysis Letters</i> , 1999, 68, 197-205.	0.6	6
153	Catalytic Investigation of Quasi-Two-Dimensional Palladium Nanoparticles Encapsulated in Graphite. <i>Langmuir</i> , 2001, 17, 3776-3778.	3.5	6
154	Heterogeneous Asymmetric Hydrogenation of N-Heterocyclic Compounds: Hydrogenation of Tetrahydroisoquinoline Derivatives. <i>Topics in Catalysis</i> , 2012, 55, 880-888.	2.8	6
155	The Molecular Structure of 2-Methyloxacyclobutane, as Studied by Electron Diffraction. <i>Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences</i> , 1979, 34, 1130-1134.	1.5	5
156	Isomerization and hydrogenolysis of 1,3-dioxacycloalkanes on metal catalysts. <i>Journal of the Chemical Society Chemical Communications</i> , 1981, , 106-108.	2.0	5
157	Studies on the chemistry of diols and cyclic ethers-52. <i>Tetrahedron</i> , 1987, 43, 131-141.	1.9	5
158	1,2-Bond shift isomerization of oxiranes on copper-graphimete. <i>Journal of the Chemical Society Chemical Communications</i> , 1989, , 124-126.	2.0	5
159	Transformation of organic compounds in the presence of metal complexes. <i>Journal of Organometallic Chemistry</i> , 1991, 415, 127-131.	1.8	5
160	Studies on the chemistry of diols and cyclic ethers-53. Dehydration of 1,1-bishydroxymethylcycloalkanes: a quest for a 1,3-hydride shift. <i>Tetrahedron</i> , 1992, 48, 4929-4936.	1.9	5
161	Transformation of cis- and trans-2,3-Dimethyloxiranes on a Cu/SiO ₂ Catalyst. <i>Journal of Catalysis</i> , 1997, 169, 114-119.	6.2	5
162	Sonochemical hydrosilylation of 2-substituted cyclohexanones in the presence of Wilkinson complex. <i>Ultrasonics Sonochemistry</i> , 2000, 7, 15-17.	8.2	5

#	ARTICLE	IF	CITATIONS
163	Study of fragmentation pattern and adsorption of 9-O-(triphenylsilyl)-10,11-dihydrocinchonidine on platinum by hydrogen/deuterium exchange using electrospray ionization ion-trap tandem mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2005, 19, 3743-3748.	1.5	5
164	Organocatalytic Asymmetric Aldol Reactions in Aqueous or Neat Conditions: Review of Data Published in 2009-2013. <i>Current Green Chemistry</i> , 2013, 1, 191-201.	1.1	5
165	Stereochemistry of the Conversion of 1,3-Chloroalcohols in Alkaline Medium. The Chemistry of 1,3-Bifunctional Systems. XXII. <i>Helvetica Chimica Acta</i> , 1980, 63, 2173-2178.	1.6	4
166	Preparation and Characterization of New Chirally Modified Laponites. <i>Molecular Crystals and Liquid Crystals</i> , 2000, 341, 339-344.	0.3	4
167	Structural characterization of acetylpyridinium-ethyl pyruvate adducts by electrospray ionization mass spectrometry. <i>Journal of Mass Spectrometry</i> , 2002, 37, 1034-1038.	1.6	4
168	Hydroisomerization of 1,3-dioxacycloalkanes to esters on platinum. The role of hydrogen in the isomerization. <i>Journal of the Chemical Society Chemical Communications</i> , 1981, , 978-979.	2.0	3
169	Stereochemistry of dehydration of oxolanes to dienes on γ -alumina. <i>Journal of the Chemical Society Chemical Communications</i> , 1985, , 89-90.	2.0	3
170	Transformation of cis- and trans-2,3-Dimethyloxiranes on a Pd/SiO ₂ Catalyst. <i>Journal of Catalysis</i> , 1997, 167, 242-247.	6.2	3
171	Preparation of Transition Metal and Semiconductor Nanocrystallites in the Interlayered Space of Clay Minerals. <i>Molecular Crystals and Liquid Crystals</i> , 1998, 311, 333-338.	0.3	3
172	Identification of novel chiral aluminium containing oxonium cations in the enantioselective hydrogenation of ethyl pyruvate catalyzed using cinchonidine modified Pt-alumina in acetic acid. <i>Reaction Kinetics and Catalysis Letters</i> , 2005, 85, 361-366.	0.6	3
173	New data on the effect of steric constraints on the chiral induction in the Orito reaction: Hydrogenation of activated steroid ketones. <i>Journal of Molecular Catalysis A</i> , 2008, 294, 14-19.	4.8	3
174	Configurations and conformations of some methyl-substituted 2,4-dioxabicyclo[3.3.1]nonanes. <i>Magnetic Resonance in Chemistry</i> , 1988, 26, 526-528.	1.9	2
175	Phenyl vs. carbomethoxy group effect on selectivity during hydrogenation and exchange of $\hat{1}\pm, \hat{1}^2$ -unsaturated esters over modified and unmodified deuterated Raney nickel. <i>Studies in Surface Science and Catalysis</i> , 1993, 78, 67-74.	1.5	2
176	The active surface of silica-supported copper in the hydrogenative transformations of cyclohexene: The role and state of carbonaceous deposits. <i>Applied Catalysis A: General</i> , 1998, 166, 185-190.	4.3	2
177	Investigations in chiral reactions: identification of new adducts in the reactions of ethyl pyruvate with acetic anhydride and pyridine. <i>Rapid Communications in Mass Spectrometry</i> , 2003, 17, 2849-2852.	1.5	2
178	Hydrogenation of methyl 3 α -acetoxy-23-oxo-5 β -cholan-24-oate catalyzed by cinchona alkaloid-modified Pt-alumina catalyst. <i>Reaction Kinetics and Catalysis Letters</i> , 2005, 86, 323-329.	0.6	2
179	Application of hydroxyproline derivatives in enantioselective $\hat{1}\pm$ -amination reactions in organic and aqueous environments: a structure-activity relationship study. <i>Structural Chemistry</i> , 2017, 28, 415-421.	2.0	2
180	Transformation of compounds containing C-N bonds on heterogeneous catalysts. <i>Journal of Molecular Catalysis</i> , 1989, 57, 1-12.	1.2	1

#	ARTICLE	IF	CITATIONS
181	New chiral catalysts: synthesis and fragmentation pattern of C9-o-silanzed cinchonidines. Reaction Kinetics and Catalysis Letters, 2006, 87, 281-289.	0.6	1