Béla Török

List of Publications by Year in descending order

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94433 133252 4,221 128 37 59 citations h-index g-index papers 132 132 132 4045 docs citations times ranked citing authors all docs

#	Article	IF	CITATIONS
1	Environmentally benign synthesis of heterocyclic compounds by combined microwave-assisted heterogeneous catalytic approaches < sup>†< sup>. Green Chemistry, 2012, 14, 17-37.	9.0	216
2	Efficient Chemoselective Carboxylation of Aromatics to Arylcarboxylic Acids with a Superelectrophilically Activated Carbon Dioxideâ^'Al2Cl6/Al System. Journal of the American Chemical Society, 2002, 124, 11379-11391.	13.7	194
3	Highly Enantioselective Organocatalytic Hydroxyalkylation of Indoles with Ethyl Trifluoropyruvate. Angewandte Chemie - International Edition, 2005, 44, 3086-3089.	13.8	177
4	Microwave-assisted multicomponent domino cyclization–aromatization: an efficient approach for the synthesis of substituted quinolines. Green Chemistry, 2010, 12, 875.	9.0	162
5	Enantiodifferentiation in asymmetric sonochemical hydrogenations. Catalysis Letters, 1998, 52, 81-84.	2.6	115
6	Organofluorine Inhibitors of Amyloid Fibrillogenesisâ€. Biochemistry, 2006, 45, 5377-5383.	2.5	108
7	Application of microwave-assisted heterogeneous catalysis in sustainable synthesis design. Green Chemistry, 2017, 19, 3729-3751.	9.0	108
8	Solvent-Free Solid Acid-Catalyzed Electrophilic Annelations: A New Green Approach for the Synthesis of Substituted Five-Membered N-Heterocycles. Advanced Synthesis and Catalysis, 2006, 348, 2191-2196.	4.3	102
9	Triflic Acid-Catalyzed Highly Stereoselective Friedelâ^'Crafts Aminoalkylation of Indoles and Pyrroles. Organic Letters, 2008, 10, 933-935.	4.6	84
10	Energy efficiency of heterogeneous catalytic microwave-assisted organic reactions. Green Chemistry, 2014, 16, 3623-3634.	9.0	79
11	Chemoselective Hydrogenation of Cinnamaldehyde to Cinnamyl Alcohol over Pt/K-10 Catalyst. Journal of Catalysis, 1998, 179, 619-623.	6.2	75
12	Microwave-assisted oxidative coupling of amines to imines on solid acid catalysts. Tetrahedron Letters, 2007, 48, 5161-5164.	1.4	75
13	The Paal–Knorr reaction revisited. A catalyst and solvent-free synthesis of underivatized and N-substituted pyrroles. Green Chemistry, 2015, 17, 1088-1099.	9.0	74
14	APPLICATION OF CLAY CATALYSTS IN ORGANIC SYNTHESIS. A REVIEW. Organic Preparations and Procedures International, 2008, 40, 1-65.	1.3	68
15	Sulfonamides as multifunctional agents for Alzheimer's disease. Bioorganic and Medicinal Chemistry Letters, 2015, 25, 626-630.	2.2	68
16	A direct synthesis of \hat{l}^2 -carbolines via a three-step one-pot domino approach with a bifunctional Pd/C/K-10 catalyst. Tetrahedron Letters, 2009, 50, 1791-1794.	1.4	64
17	Heterogeneous Catalytic Hydrogenation of Unprotected Indoles in Water: A Green Solution to a Long-Standing Challenge. Organic Letters, 2011, 13, 5124-5127.	4.6	64
18	Title is missing!. Catalysis Letters, 2003, 85, 1-6.	2.6	63

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19	Synthesis of quinolines by a solid acid-catalyzed microwave-assisted domino cyclization–aromatization approach. Tetrahedron Letters, 2009, 50, 2939-2942.	1.4	60
20	Stable Dialkyl Ether/Poly(Hydrogen Fluoride) Complexes:  Dimethyl Ether/Poly(Hydrogen Fluoride), A New, Convenient, and Effective Fluorinating Agent1a. Journal of the American Chemical Society, 2002, 124, 7728-7736.	13.7	57
21	Synthesis of N-Heteroaryl(trifluoromethyl)hydroxyalkanoic Acid Esters by Highly Efficient Solid Acid-Catalyzed Hydroxyalkylation of Indoles and Pyrroles with Activated Trifluoromethyl Ketones. Advanced Synthesis and Catalysis, 2005, 347, 1797-1803.	4.3	57
22	Acidity and Catalytic Activity of a Nafion-H/Silica Nanocomposite Catalyst Compared with a Silica-Supported Nafion Sample. Journal of Catalysis, 2000, 193, 132-138.	6.2	56
23	AN EFFICIENT AND RAPID SYNTHESIS OF N-SUBSTITUTED PYRROLES BY MICROWAVE ASSISTED SOLID ACID CATALYSIS. Organic Preparations and Procedures International, 2006, 38, 495-500.	1.3	56
24	Asymmetric reactions in sonochemistry. Ultrasonics Sonochemistry, 2001, 8, 191-200.	8.2	55
25	Superacidic Trifluoromethanesulfonic Acid-Induced Cycli-Acyalkylation of Aromatics. Catalysis Letters, 2003, 87, 109-112.	2.6	53
26	Synthesis of Chiral Trifluoromethylated Amines by Palladium-Catalyzed Diastereoselective Hydrogenation-Hydrogenolysis Approach. Advanced Synthesis and Catalysis, 2003, 345, 165-168.	4.3	52
27	Ultrasonics in asymmetric syntheses. Sonochemical enantioselective hydrogenation of prochiral C=O groups over platinum catalysts. Chirality, 1999, 11, 470-474.	2.6	51
28	Pd/C–Al–water facilitated selective reduction of a broad variety of functional groups. Green Chemistry, 2017, 19, 1230-1234.	9.0	50
29	Triflic acid controlled successive annelation of aromatic sulfonamides: an efficient one-pot synthesis of N-sulfonyl pyrroles, indoles and carbazoles. Tetrahedron Letters, 2007, 48, 4047-4050.	1.4	49
30	A metal nanoparticle-based supramolecular approach for aqueous biphasic reactions. Chemical Communications, 2005, , 3207.	4.1	47
31	Design, synthesis and biological activity of multifunctional α,β-unsaturated carbonyl scaffolds for Alzheimer's disease. Bioorganic and Medicinal Chemistry Letters, 2013, 23, 2614-2618.	2.2	47
32	Synthesis of trifluoromethyl-imines by solid acid/superacid catalyzed microwave assisted approach. Journal of Fluorine Chemistry, 2007, 128, 587-594.	1.7	44
33	Solid acid (superacid) catalyzed regioselective adamantylation of substituted benzenes. Catalysis Letters, 1996, 42, 5-13.	2.6	42
34	Environmentally Benign Contemporary Friedel-Crafts Chemistry by Solid Acids. Current Organic Synthesis, 2008, 5, 321-342.	1.3	41
35	Synthesis of Condensed Benzo[N,N]-Heterocycles by Microwave-Assisted Solid Acid Catalysis. Catalysis Letters, 2008, 122, 338-343.	2.6	40
36	Synthesis and application of β-carbolines as novel multi-functional anti-Alzheimer's disease agents. Bioorganic and Medicinal Chemistry Letters, 2017, 27, 232-236.	2.2	40

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37	Highly asymmetric heterogeneous catalytic hydrogenation of isophorone on proline modified base-supported palladium catalysts. Journal of Catalysis, 2006, 238, 441-448.	6.2	39
38	Microwave-assisted solid acid-catalyzed one-pot synthesis of isobenzofuran-1(3H)-ones. Tetrahedron Letters, 2008, 49, 4505-4508.	1.4	37
39	Microwave-assisted solid phase diazotation: a method for the environmentally benign synthesis of benzotriazoles. Green Chemistry, 2017, 19, 2515-2519.	9.0	37
40	Structure–Activity Relationships of Organofluorine Inhibitors of βâ€Amyloid Selfâ€Assembly. ChemMedChem, 2012, 7, 910-919.	3.2	35
41	Graphene-supported NiPd alloy nanoparticles: A novel and highly efficient heterogeneous catalyst system for the reductive amination of aldehydes. Journal of Molecular Catalysis A, 2015, 409, 191-197.	4.8	35
42	Title is missing!. Catalysis Letters, 2002, 81, 55-62.	2.6	34
43	Homogeneous and neterogeneous asymmetric reactions. Part X: Enantioselective hydrogenations over K-10 montmorillonite supported noble metal catalysts with immobilized modifier1Part IX: B. Török, J. Wölfling, Gy. Schneider, M. Bartók, Asymmetric transfer hydrogenation of steroid 17-ketones in the presence of rhodium(I) complexes, React. Kinet. Catal. Lett. 64 (1998) 35.1. Applied Catalysis A: General,	4.3	33
44	Synthesis of diversely 1,3,5-trisubstituted pyrazoles via 5-exo-dig cyclization. Organic and Biomolecular Chemistry, 2012, 10, 4505.	2.8	33
45	Catalyst-free chemo-/regio-/stereo-selective amination of alk-3-ynones. Synthesis of 1,5-benzodiazepines and 3-amino-2-alkenones. Green Chemistry, 2014, 16, 1120-1124.	9.0	33
46	Organic Synthesis Using Environmentally Benign Acid Catalysis. Current Organic Synthesis, 2019, 16, 615-649.	1.3	33
47	Microwave-Assisted Heterogeneous Catalysis: An Environmentally Benign Tool for Contemporary Organic Synthesis. Current Organic Synthesis, 2011, 8, 237-261.	1.3	32
48	Heteropoly acid-catalyzed microwave-assisted three-component aza-Diels–Alder cyclizations: diastereoselective synthesis of potential drug candidates for Alzheimer's disease. Organic and Biomolecular Chemistry, 2011, 9, 1394.	2.8	31
49	Effect of chirality of small molecule organofluorine inhibitors of amyloid self-assembly on inhibitor potency. Bioorganic and Medicinal Chemistry Letters, 2009, 19, 6931-6934.	2.2	30
50	Selective reduction of condensed N-heterocycles using water as a solvent and a hydrogen source. Organic and Biomolecular Chemistry, 2013, 11, 1209.	2.8	30
51	Theoretical and experimental analysis of the antioxidant features of substituted phenol and aniline model compounds. Structural Chemistry, 2019, 30, 23-35.	2.0	30
52	Sonochemical asymmetric hydrogenation of isophorone on proline modified Pd/Al2O3catalysts. Chemical Communications, 2004, , 984-985.	4.1	29
53	Cinchona alkaloid induced chiral discrimination for the determination of the enantiomeric composition of $\hat{l}\pm$ -trifluoromethylated-hydroxyl compounds by 19F NMR spectroscopy. Tetrahedron: Asymmetry, 2005, 16, 1547-1555.	1.8	29
54	Surface characterization of variously treated Nafion-H, Nafion-H supported on silica and Nafion-H silica nanocomposite catalysts by infrared microscopy. Applied Catalysis A: General, 1998, 174, 147-153.	4.3	28

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55	Diaryl Hydrazones as Multifunctional Inhibitors of Amyloid Self-Assembly. Biochemistry, 2013, 52, 1137-1148.	2.5	28
56	Heterogeneous Catalytic Reductive Amination of Carbonyl Compounds with Ni-Al Alloy in Water as Solvent and Hydrogen Source. Synthesis, 2016, 48, 3127-3133.	2.3	28
57	Heterogeneous Catalytic Hydrogenations as an Environmentally Benign Tool for Organic Synthesis. Current Organic Synthesis, 2011, 8, 187-207.	1.3	28
58	Disassembly of preformed amyloid beta fibrils by small organofluorine molecules. Bioorganic and Medicinal Chemistry Letters, 2011, 21, 2044-2047.	2.2	27
59	Enantioselective Friedel–Crafts reaction of indoles with trifluoroacetaldehyde catalyzed by Cinchona alkaloids. Chirality, 2011, 23, 612-616.	2.6	26
60	Highly Enantioselective Organocatalytic Addition of Ethyl Trifluoropyruvate to Ketones with Subzero Temperature Microwave Activation. Catalysis Letters, 2009, 131, 432-439.	2.6	25
61	Syntheses of Tungsten <i>tert</i> -Butylimido and Adamantylimido Alkylidene Complexes Employing Pyridinium Chloride As the Acid. Organometallics, 2012, 31, 6522-6525.	2.3	25
62	Novel Heteroaromatic Organofluorine Inhibitors of Fructose-1,6-bisphosphatase. Journal of Medicinal Chemistry, 2009, 52, 878-882.	6.4	24
63	Catalyst-free ambient temperature synthesis of isoquinoline-fused benzimidazoles from 2-alkynylbenzaldehydes <i>via</i> alkyne hydroamination. Green Chemistry, 2019, 21, 99-108.	9.0	24
64	Rational Design, Synthesis, and Potency of Nâ€Substituted Indoles, Pyrroles, and Triarylpyrazoles as Potential Fructose 1,6â€Bisphosphatase Inhibitors. ChemMedChem, 2010, 5, 384-389.	3.2	23
65	K-10 montmorillonite-catalyzed solid phase diazotizations: environmentally benign coupling of diazonium salts with aromatic hydrocarbons to biaryls. Green Chemistry, 2017, 19, 5390-5395.	9.0	23
66	Title is missing!. Catalysis Letters, 1997, 48, 83-87.	2.6	22
67	Title is missing!. Catalysis Letters, 2001, 73, 127-131.	2.6	22
68	Proline-induced enantioselective heterogeneous catalytic hydrogenation of isophorone on basic polymer-supported Pd catalysts. Catalysis Science and Technology, 2015, 5, 716-723.	4.1	22
69	Microwave-assisted preparation of trifluoroacetaldehyde (fluoral): isolation and applications. Tetrahedron Letters, 2007, 48, 6372-6376.	1.4	21
70	Mechanistic study on the oxidative coupling of amines to imines on K-10 montmorillonite. Applied Clay Science, 2011, 53, 220-226.	5.2	21
71	Theoretical and experimental analysis of the antioxidant features of diarylhydrazones. Structural Chemistry, 2017, 28, 391-402.	2.0	20
72	Chemistry of Small Molecule Inhibitors in Self-Assembly of Alzheimers Disease Related Amyloid-Beta Peptide. Current Bioactive Compounds, 2008, 4, 159-174.	0.5	19

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73	Microwave-Assisted Tandem Processes for the Synthesis of N-Heterocycles. Australian Journal of Chemistry, 2009, 62, 208.	0.9	19
74	Nature of Proline-induced Enantiodifferentiation in Asymmetric Pd Catalyzed Hydrogenations: Is the Catalyst Really Indifferent?. Catalysis Letters, 2008, 123, 156-163.	2.6	18
75	Selective reduction of ketones using water as a hydrogen source under high hydrostatic pressure. Organic and Biomolecular Chemistry, 2012, 10, 7321.	2.8	18
76	Regioselective "hydroamination―of alk-3-ynones with non-symmetrical o-phenylenediamines. Synthesis of diversely substituted 3H-1,5-benzodiazepines via (Z)-3-amino-2-alkenones. RSC Advances, 2016, 6, 107081-107093.	3.6	17
77	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
78	Acidâ€catalyzed isobutane–isobutylene alkylation in liquid carbon dioxide solution. Catalysis Letters, 1999, 61, 105-110.	2.6	16
79	Homogeneous and heterogeneous asymmetric reactions. Part 13. Clay-supported noble metal catalysts in enantioselective hydrogenations. Studies in Surface Science and Catalysis, 1999, 125, 515-522.	1.5	15
80	Sustainable Production of Fine Chemicals and Materials Using Nontoxic Renewable Sources. Toxicological Sciences, 2018, 161, 214-224.	3.1	14
81	Selective catalytic hydrogenation of bifunctional compounds over amorphous nickel alloys. Studies in Surface Science and Catalysis, 1993, 78, 179-186.	1.5	13
82	The structure of chiral phenylethylammonium montmorillonites in ethanol-toluene mixtures. Colloid and Polymer Science, 1999, 277, 340-346.	2.1	12
83	Heterogeneous Catalytic Aqueous Phase Oxidative Cleavage of Styrenes to Benzaldehydes: An Environmentally Benign Alternative to Ozonolysis. Topics in Catalysis, 2018, 61, 643-651.	2.8	12
84	Synthesis and Application of Polystyrene Nanospheres Supported Platinum Catalysts in Enantioselective Hydrogenations. Catalysis Letters, 2011, 141, 1435-1441.	2.6	11
85	Synthesis of Chiral Trifluoromethyl Benzylamines by Heterogeneous Catalytic Reductive Amination. Topics in Catalysis, 2016, 59, 1207-1213.	2.8	11
86	Hydrogenations and Deuterium Labeling with Aluminum-based Metal Alloys Under Aqueous Conditions. Current Organic Synthesis, 2015, 13, 255-277.	1.3	11
87	Effect of acid/hydrocarbon ratio, temperature and contact time on the isobutane-isobutylene alkylation with trifluoromethanesulfonic acid. Catalysis Letters, 1996, 40, 137-142.	2.6	10
88	Structural Features of Small Molecule Amyloid-Beta Self-Assembly Inhibitors. Current Bioactive Compounds, 2013, 9, 37-63.	0.5	10
89	Organofluorine Hydrazone Derivatives as Multifunctional Antiâ€Alzheimer's Agents with CK2 Inhibitory and Antioxidant Features. ChemMedChem, 2021, 16, 1927-1932.	3.2	10
90	Recent Advances in the Synthesis of Isoquinoline-Fused Benzimidazoles. Molecules, 2022, 27, 2062.	3.8	10

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91	Heterogeneous Metal Catalysis for the Environmentally Benign Synthesis of Medicinally Important Scaffolds, Intermediates, and Building Blocks. Current Organic Chemistry, 2021, 25, 2304-2330.	1.6	9
92	Hydrogenative ring opening of propylcyclopropane over silica-supported Pt and Pd catalysts. Catalysis Letters, 1995, 33, 331-339.	2.6	8
93	Alkylation of aromatics with diols in superacidic media. Topics in Catalysis, 1998, 6, 9-16.	2.8	8
94	Recent Advances in the Green Synthesis of Heterocycles: From Building Blocks to Biologically Active Compounds. Current Organic Synthesis, 2022, 19, 426-462.	1.3	8
95	Heterogeneous catalytic oxidations. , 2022, , 227-277.		8
96	Microwave-Assisted Solid-Acid-Catalyzed Friedel-Crafts Alkylation and Electrophilic Annulation of Indoles Using Alcohols as Alkylating Agents. Synthesis, 2009, 2009, 4010-4014.	2.3	7
97	Temperature and hydrogen pressure dependences in the ring opening of methylcyclobutane over Pt/SiO2 catalyst. Catalysis Letters, 1995, 33, 321-330.	2.6	6
98	Deprotection and cleavage of peptides bound to Merrifield resin by stable dimethyl ether–poly(hydrogen fluoride) (DMEPHF) complex. a new and convenient reagent for peptide chemistry. Chemical Communications, 2002, , 2882-2883.	4.1	6
99	Rearrangement Reactions of α-Phenylcinnamic Acid Trimethylsilyl Esters Upon Electron Impact Ionization: Practical and Theoretical Aspects. Journal of Mass Spectrometry, 1996, 31, 823-824.	1.6	4
100	Title is missing!. Magyar Apróvad Közlemények, 1999, 56, 337-343.	1.4	4
101	Preparation and Characterization of New Chirally Modified Laponites. Molecular Crystals and Liquid Crystals, 2000, 341, 339-344.	0.3	4
102	Application of Sonochemical Activation in Green Synthesis., 2018,, 673-693.		4
103	Microwave-Assisted Reactions in Green Chemistry. , 2018, , 1-40.		4
104	Microwave-Assisted Reactions in Green Chemistry. , 2019, , 573-612.		4
105	Homogeneous and heterogeneous asymmetric reactions. Part IX. Asymmetric transfer hydrogenation of 16-methyl-substituted steroid 17-ketones in the presence of rhodium(I) complexes. Reaction Kinetics and Catalysis Letters, 1998, 64, 35-40.	0.6	3
106	Sustainable Synthesis. , 2018, , 49-89.		3
107	Effect of solvent polarity on the regioselective hydroxyalkylation of indole with trifluoroacetaldehyde hemiacetals. Structural Chemistry, 2019, 30, 1941-1956.	2.0	3
108	Preparation of Deuterium Labeled Compounds by Pd/C-Al-D2O Facilitated Selective H-D Exchange Reactions. Molecules, 2022, 27, 614.	3.8	3

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109	Monitoring of optical isomers of chiral alcohols and derivatives by chiral gas chromatography. Effect of derivatization on the enantio-differentiation. Chromatographia, 1998, 48, 81-85.	1.3	2
110	Identifying New Drug Targets for Potent Phospholipase D Inhibitors: Combining Sequence Alignment, Molecular Docking, and Enzyme Activity/Binding Assays. Chemical Biology and Drug Design, 2016, 87, 714-729.	3.2	2
111	Friedel-Crafts and related reactions catalyzed by solid acids. , 2022, , 317-378.		2
112	Microwave-assisted flow systems in the green production of fine chemicals., 2021,, 101-136.		2
113	Application of nontraditional activation methods in green and sustainable chemistry: Microwaves, ultrasounds, electro-, photo-, and mechanochemistry, and high hydrostatic pressure. , 2021, , 1-26.		2
114	Solid acids for the synthesis of biologically active heterocycles. , 2021, , 165-213.		1
115	Heterogeneous catalysis for organic synthesis: Historical background and fundamentals., 2022, , 1-21.		1
116	Ring transformations by heterogeneous catalysis. , 2022, , 491-542.		1
117	The Synthesis and Application of Diarylhydrazones, Diaryl Schiffâ€bases, Betaâ€carbolines and Their Precursors as Potential Antibiotics. FASEB Journal, 2015, 29, LB112.	0.5	1
118	Green Synthesis of Common Heterocycles. Methods in Pharmacology and Toxicology, 2022, , 3-33.	0.2	1
119	Fragmentation patterns of $\hat{l}\pm$ -phenylcinnamic acid derivatives upon electron impact ionization; a computational approach. AIP Conference Proceedings, 1995, , .	0.4	0
120	Environmentally benign, microwave-assisted chemoselective N-hydroxyalkylation of indoles with trifluoroacetaldehyde methyl hemiacetal. Arkivoc, 2018, 2018, 122-130.	0.5	0
121	Hydrogenation. , 2022, , 85-156.		0
122	Heterogeneous catalytic rearrangements and other transformations. , 2022, , 543-592.		0
123	Heterogeneous catalytic hydrogenolysis of organic compounds. , 2022, , 157-225.		0
124	Asymmetric synthesis by solid catalysts. , 2022, , 593-654.		0
125	Application of heterogeneous catalysis in the development of environmentally benign synthetic processes., 2022,,81-83.		0
126	Solid catalysts for environmentally benign synthesis. , 2022, , 23-80.		0

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127	Diastereo- and enantioselective synthesis by nontraditional activation methods: Ultrasonic, microwave, electro-, photo- and mechanochemically activated reactions., 2021,, 511-557.		O
128	Synthesis of potential antioxidants by microwaveâ€assisted solid phase diazotations and Friedelâ€Crafts reactions of hydroquinone. FASEB Journal, 2019, 33, .	0.5	0