Imre TÃ³th

List of Publications by Year
in descending order

71 papers	2,418 citations	172457 29 h-index	214800 47 g-index
72 all docs	72 docs citations	72 times ranked	1565 citing authors

#	Article	IF	Citations
1	Kinetics of Formation and Dissociation of Lanthanide(III)-DOTA Complexes. Inorganic Chemistry, 1994, 33, 4070-4076.	4.0	199
2	Chiral Sulfonated Phosphines. Syntheses and Use as Ligands in Asymmetric Hydrogenation Using an Aqueous-Organic Two-Phse Solvent System. Organometallics, 1989, 8, 542-547.	2.3	164
3	A facile method for the preparation of 2,4-bis(diphenylphosphino)pentane (BDPP) enantiomers and their application in asymmetric hydrogenation. Journal of Organometallic Chemistry, 1985, 279, 23-29.	1.8	146
4	Temperature dependence of the asymmetric induction in the PtCl(SnCl3)[(â^')-(2S,4S)-2,4-bis(diphenylphosphino)pentane]-catalyzed enantioselective hydroformylation reaction. Journal of Organometallic Chemistry, 1988, 350, 277-284.	1.8	95
5	Synthesis and identification by high-pressure NMR spectroscopy of the cationic square-planar cis-methyl(carbonyl)palladium diphosphine compound [Pd(CH3)(CO)[(S,S)-BDPP]]BF4, an intermediate in CO insertion into the Pd-Me bond. Journal of the American Chemical Society, 1993, 115, 10388-10389.	13.7	95
6	Novel chiral water soluble phosphines II. Applications in catalytic asymmetric hydrogenation. Tetrahedron: Asymmetry, 1990, 1, 913-930.	1.8	74
7	Influence of the reaction temperature on the enantioselection of styrene hydroformylation catalyzed by PtCl(SnCl3) complexes of p-aryl-substituted chiral ligands. Organometallics, 1993, 12, 848-852.	2.3	73
8	Asymmetric hydroformylation with Pt-phosphine-SnCl2 and Pt-bisphosphine-CuCl2 (or CuCl) catalytic systems. Journal of Organometallic Chemistry, 1989, 370, 257-261.	1.8	64
9	CO Insertion in Four-Coordinate cis-Methyl(carbonyl)platinum-Diphosphine Compounds. An Ionic Mechanism for Platinum-Diphosphine-Catalyzed Hydroformylation. Inorganic Chemistry, 1994, 33, 5708-5712.	4.0	64
10	Water-soluble electron-donating phosphines: sulfonation of tris(.omega.-phenylalkyl)phosphines. Organometallics, 1993, 12, 164-170.	2.3	59
11	Chiral sulphonated phosphines. Journal of Organometallic Chemistry, 1989, 370, 277-284.	1.8	58
12	Novel chiral water soluble phosphines I. Preparation and characterization of amine functionalized DIOP, Chiraphos, and BDPP derivatives and quaternization of their rhodium complexes. Tetrahedron: Asymmetry, 1990, 1, 895-912.	1.8	55
13	Bis[tris(m(sodium sulfonato)phenyl)phosphine] hexacarbonyl dicobalt, Co2(CO)6 (P(m-C6H4SO3Na)3)2, in a supported aqueous phase for the hydroformylation of 1-hexene. Journal of Organometallic Chemistry, 1991, 403, 221-227.	1.8	54
14	AAZTA: An Ideal Chelating Agent for the Development of ⁴⁴Sc PET Imaging Agents. Angewandte Chemie - International Edition, 2017, 56, 2118-2122.	13.8	53
15	Equilibrium, Kinetic and Structural Studies of AAZTA Complexes with Ga³⁺, In³⁺ and Cu²⁺. European Journal of Inorganic Chemistry, 2013, 2013, 147-162.	2.0	49
16	Alternative supported aqueous-phase catalyst systems. Journal of Molecular Catalysis A, 1997, 116, 217-229.	4.8	48
17	Use of heterogeneous asymmetric hydrogenation for the preparation of a chiral phosphinite and its application as a ligand in homogeneous asymmetric hydrogenation. Journal of Organic Chemistry, 1981, 46, 5427-5428.	3.2	47
18	Formation of Dinuclear Palladium(I) Hydride [Pd2(.mu.-H)(.mu.-CO){(S,S)-BDPP}2]Cl by Methanolysis or Hydrolysis of Pd(COMe)(Cl){(S,S)-BDPP} {(S,S)-BDPP = (2S,4S)-2,4-Bis(diphenylphosphino)pentane}. Organometallics, 1994, 13, 2118-2122.	2.3	44

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19	Synthesis of Pt compounds containing chiral (2S,4S) -pentane-2,4-diyl-bis(5H-dibenzo[b]phosphindole) as ligand and their use in asymmetric hydroformylation of styrene derivatives. Journal of Organometallic Chemistry, 1997, 540, 15-25.	1.8	41
20	Effect of the Nature of Donor Atoms on the Thermodynamic, Kinetic and Relaxation Properties of Mn(II) Complexes Formed With Some Trisubstituted 12-Membered Macrocyclic Ligands. Frontiers in Chemistry, 2018, 6, 232.	3.6	39
21	Enantioselective two-phase hydrogenation of ?-amino acid precursors with water soluble rhodium complexes of the cationic ligand (S,S)-2,4-bis[bis-(p-N,N,N-trimethylammoniumphenyl)phosphino]pentane,		

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37	Asymmetric hydrogenation using chiral phosphinite rhodium complexes. Tetrahedron Letters, 1984, 25, 4965-4966.	1.4	22
38	NMR studies of the structures of p-aryl-substituted chiral ligands in rhodium(I) and platinum(II) complexes. Organometallics, 1993, 12, 1506-1513.	2.3	22
39	Improved Efficacy of Synthesizing *M^{III}-Labeled DOTA Complexes in Binary Mixtures of Water and Organic Solvents. A Combined Radio- and Physicochemical Study. Inorganic Chemistry, 2018, 57, 6107-6117.	4.0	21
40	New insights into the solution equilibrium of molybdenum(vi)â€“hydroxamate systems: 1H and 17O NMR spectroscopic study of Mo(vi)â€“desferrioxamine B and Mo(vi)â€“monohydroxamic acid systems. Dalton Transactions, 2003, , 1645-1652.	3.3	20
41	Complexation of Molybdenum(VI) with Bis(3-hydroxy-4-pyridinone)amino Acid Derivatives. European Journal of Inorganic Chemistry, 2007, 2007, 1728-1737.	2.0	19
42	Coordination Properties of GdDO3A-Based Model Compounds of Bioresponsive MRI Contrast Agents. Inorganic Chemistry, 2018, 57, 5973-5986.	4.0	18
43	Palladium-catalyzed aryloxy- and alkoxycarbonylation of aromatic iodides in Î³-valerolactone as bio-based solvent. Journal of Organometallic Chemistry, 2020, 923, 121407.	1.8	18
44	Highly Selective Hydroformylation of the Cinchona Alkaloids. Journal of Organic Chemistry, 2002, 67, 5022-5024.	3.2	17
45	Synthesis of 1,6-Hexandiol, Polyurethane Monomer Derivatives via Isomerization Metathesis of Methyl Linolenate. ACS Sustainable Chemistry and Engineering, 2017, 5, 11215-11220.	6.7	15
46	Equilibria and dynamics of some aqueous peroxomolybdate catalysts: a 17O NMR spectroscopic study. Dalton Transactions RSC, 2002, , 4451-4456.	2.3	14
47	Highly Stable Complexes of Divalent Metal Ions (Mg²⁺, Ca²⁺,) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 5 Containing a Picolinate Pendant. European Journal of Inorganic Chemistry, 2014, 2014, 6165-6173.	2.0	14
48	A rigidified AAZTA-like ligand as efficient chelator for68Ga radiopharmaceuticals. ChemistrySelect, 2016, 1, 163-171.	1.5	14
49	Gallium(III) chelates of mixed phosphonate-carboxylate triazamacrocyclic ligands relevant to nuclear medicine: Structural, stability and in vivo studies. Journal of Inorganic Biochemistry, 2017, 177, 8-16.	3.5	14
50	Equilibrium and dissociation kinetics of the [Al(NOTA)] complex (NOTAÂ=Â1,4,7-triazacyclononane-1,4,7-triacetate). Reaction Kinetics, Mechanisms and Catalysis, 2015, 116, 19-33.	1.7	13
51	Synthesis of hemilabile P,N-ligands with a pentane-2,4-diyl backbone. Tetrahedron Letters, 2014, 55, 4120-4122.	1.4	12
52	Efficient stereochemical communication in phosphine-amine palladium-complexes: Exploration of N-substituent effects in coordination chemistry and catalysis. Journal of Organometallic Chemistry, 2017, 846, 129-140.	1.8	12
53	Cyanide Exchange on Tl(CN)4â^' in Aqueous Solution Studied by205Tl and13C NMR Spectroscopy. European Journal of Inorganic Chemistry, 2001, 2001, 1709-1717.	2.0	11
54	Synthesis of new N-substituted chiral phosphineâ€“phosphoramidite ligands and their application in asymmetric hydrogenations and allylic alkylations. Tetrahedron: Asymmetry, 2015, 26, 666-673.	1.8	11

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55	AAZTA: An Ideal Chelating Agent for the Development of ⁴⁴Sc PET Imaging Agents. Angewandte Chemie, 2017, 129, 2150-2154.	2.0	11
56	PIDAZTA: Structurally Constrained Chelators for the Efficient Formation of Stable Galliumâ€68 Complexes at Physiological pH. Chemistry - A European Journal, 2019, 25, 10698-10709.	3.3	11
57	Towards ²¹³Bi alpha-therapeutics and beyond: unravelling the foundations of efficient Bi^{III} complexation by DOTP. Inorganic Chemistry Frontiers, 2021, 8, 3893-3904.	6.0	11
58	Influence of gem-Dimethyl Substitution on the Stability, Kinetics and Relaxometric Properties of PDTA Complexes. European Journal of Inorganic Chemistry, 2012, 2012, 2074-2086.	2.0	10
59	Shape and Size Tuning of Bi^{III}-Centered Polyoxopalladates: High Resolution ²⁰⁹Bi NMR and ^{205/206}Bi Radiolabeling for Potential Pharmaceutical Applications. Inorganic Chemistry, 2020, 59, 16769-16782.	4.0	10
60	Synthesis, Structure, and Antibacterial Activity of a Thallium(III)-Containing Polyoxometalate, [Tl₂{B-Î²-SiW₈O₃₀(OH)}₂]^{12â€“}. Inorganic Chemistry, 2016, 55, 10118-10121.	4.0	9
61	Equilibrium Thermodynamics, Formation, and Dissociation Kinetics of Trivalent Iron and Gallium Complexes of Triazacyclononane-Triphosphinate (TRAP) Chelators: Unraveling the Foundations of Highly Selective Ga-68 Labeling. Frontiers in Chemistry, 2018, 6, 170.	3.6	9
62	Indium in Polyoxopalladate(II) Chemistry: Synthesis of All-Acetate-Capped [InPd₁₂O₈(OAc)₁₆]^{5â€“} and Controlled Transformation to Phosphate-Capped Double-Cube and Monocube. Inorganic Chemistry, 2019, 58, 15864-15871.	4.0	7
63	Equilibria and dynamics of some aqueous peroxomolybdophosphate catalysts: a potentiometric and31P NMR spectroscopic study. Dalton Transactions, 2003, , 2512-2518.	3.3	6
64	Metathesis of renewable polyene feedstocks â€“ Indirect evidences of the formation of catalytically active ruthenium allylidene species. Journal of Organometallic Chemistry, 2017, 847, 213-217.	1.8	6
65	A New Oxygen Containing Pyclen-Type Ligand as a Manganese(II) Binder for MRI and 52Mn PET Applications: Equilibrium, Kinetic, Relaxometric, Structural and Radiochemical Studies. Molecules, 2022, 27, 371.	3.8	6
66	Additions and Corrections - Influence of the Reaction Temperature on the Enantioselection of Styrene Hydroformylation Catalyzed by PtCl(SnCl3) Complexes of p-Aryl-Substituted Chiral Ligands. Organometallics, 1994, 13, 1537-1537.	2.3	2
67	Complexes of Bifunctional DO3A-N-(Î±-amino)propinate Ligands with Mg(II), Ca(II), Cu(II), Zn(II), and Lanthanide(III) Ions: Thermodynamic Stability, Formation and Dissociation Kinetics, and Solution Dynamic NMR Studies. Molecules, 2021, 26, 4956.	3.8	2
68	Synthesis, Physicochemical, Labeling and In Vivo Characterization of 44Sc-Labeled DO3AM-NI as a Hypoxia-Sensitive PET Probe. Pharmaceuticals, 2022, 15, 666.	3.8	2
69	Simple ¹⁷O NMR method for studying electron selfâ€exchange reaction between UO₂²⁺ and U⁴⁺ aqua ions in acidic solution. Magnetic Resonance in Chemistry, 2016, 54, 444-450.	1.9	1
70	Oneâ€pot Synthesis of 1,3â€Butadiene and 1,6â€Hexanediol Derivatives from Cyclopentadiene (CPD) via Tandem Olefin Metathesis Reactions. ChemCatChem, 2018, 10, 4870-4877.	3.7	1
71	Exploring Cyclic Aminopolycarboxylate Ligands for Sb(III) Complexation: PCTA and Its Derivatives as a Promising Solution. Inorganic Chemistry, 2021, 60, 14253-14262.	4.0	1