# Ferenc JoÃ³

List of Publications by Year
in descending order

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|---|---|---|---|
| 92 papers | 4,380 citations | 117625 34 h-index | 110387 64 g-index |
| 101 all docs | 101 docs citations | 101 times ranked | 3498 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Novel three-dimensional coordination polymer of 2-(1,3,5-triaza-7-phosphoniatricyclo[3.3.1.1<sup>3,7</sup>]decan-7-yl)ethanoic acid with silver(I) tetrafluoroborate. Acta Crystallographica Section E: Crystallographic Communications, 2022, 78, 251-254. | 0.5 | 0 |
| 2 | Effect of Iodide on the pH-Controlled Hydrogenations of Diphenylacetylene and Cinnamaldehyde Catalyzed by Ru(II)-Sulfonated Triphenylphosphine Complexes in Aqueousâ€“Organic Biphasic Systems. Catalysts, 2022, 12, 518. | 3.5 | 2 |
| 3 | Water-mediated formation of hydride derivates from flexible Pd-salan complexes: A DFT study. Molecular Catalysis, 2021, 500, 111331. | 2.0 | 1 |
| 4 | Water-soluble Ag(I)-based coordination polymers obtained by anion-directed self-assembly of various AgX salts and a phosphabetaine derived from 1,3,5-triaza-7-phophaadamantane. Inorganica Chimica Acta, 2021, 520, 120299. | 2.4 | 3 |
| 5 | Immobilization of an Iridium(I)-NHC-Phosphine Catalyst for Hydrogenation Reactions under Batch and Flow Conditions. Catalysts, 2021, 11, 656. | 3.5 | 2 |
| 6 | Synthesis and catalytic applications of Ru(II)-phosphaurotropine complexes with the use of simple water-soluble Ru(II)-precursors. Coordination Chemistry Reviews, 2021, 438, 213871. | 18.8 | 12 |
| 7 | Copper(II) Complexes of Sulfonated Salan Ligands: Thermodynamic and Spectroscopic Features and Applications for Catalysis of the Henry Reaction. Inorganic Chemistry, 2021, 60, 11259-11272. | 4.0 | 8 |
| 8 | Selective reduction of alkynes to alkenes with hydrogen or formic acid catalyzed by cis,mer-[IrH2Cl(mtppms)3]. Inorganica Chimica Acta, 2021, 522, 120359. | 2.4 | 4 |
| 9 | Hydrogenation of Cinnamaldehyde by Waterâ€Soluble Ruthenium(II) Phosphine Complexes: A DFT Study on the Selectivity and Viability of trans â€Dihydride Pathways. European Journal of Inorganic Chemistry, 2021, 2021, 236-242. | 2.0 | 1 |
| 10 | Coordination chemistry and catalytic applications of Pd(II)â€“, and Ni(II)â€“sulfosalan complexes in aqueous media. Journal of Inorganic Biochemistry, 2020, 203, 110945. | 3.5 | 8 |
| 11 | Strong Solvent Effects on Catalytic Transfer Hydrogenation of Ketones with [Ir(cod)(NHC)(PR3)] Catalysts in 2-Propanol-Water Mixtures. Catalysts, 2020, 10, 17. | 3.5 | 13 |
| 12 | Homogeneous catalytic hydrogenation of lipids in aqueous dispersions and bacterial cell membranes with an efficient water-soluble Pd(II)-sulfosalan catalyst, Na2[Pd(HSS)]. Catalysis Communications, 2020, 147, 106153. | 3.3 | 0 |
| 13 | Mechanochemical P-derivatization of 1,3,5-Triaza-7-Phosphaadamantane (PTA) and Silver-Based Coordination Polymers Obtained from the Resulting Phosphabetaines. Molecules, 2020, 25, 5352. | 3.8 | 3 |
| 14 | Redox Isomerization of Allylic Alcohols Catalyzed by New Water-Soluble Rh(I)-N-Heterocyclic Carbene Complexes. Catalysts, 2020, 10, 1361. | 3.5 | 4 |
| 15 | Palladium (II)â€“Salan Complexes as Catalysts for Suzukiâ€“Miyaura Câ€“C Cross-Coupling in Water and Air. Effect of the Various Bridging Units within the Diamine Moieties on the Catalytic Performance. Molecules, 2020, 25, 3993. | 3.8 | 8 |
| 16 | Selective Hydration of Nitriles to Corresponding Amides in Air with Rh(I)-N-Heterocyclic Complex Catalysts. Catalysts, 2020, 10, 125. | 3.5 | 13 |
| 17 | Stirring or milling? First synthesis of Rh(I)-(di-N-heterocyclic carbene) complexes both in solution and in a ball mill. Journal of Organometallic Chemistry, 2020, 918, 121308. | 1.8 | 9 |
| 18 | Crystal structure of zwitterionic 3,3â€²-[1,1â€²-(butane-1,4-diyl)bis(1H-imidazol-3-ium-3,1-diyl)]bis(propane-1-sulfonate) dihydrate. Acta Crystallographica Section E: Crystallographic Communications, 2020, 76, 1353-1356. | 0.5 | 2 |

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|---|---|---|---|
| 19 | Poly-N-heterocyclic carbene complexes with applications in aqueous media. Coordination Chemistry Reviews, 2019, 400, 213038. | 18.8 | 38 |
| 20 | Iridium(I) NHC-phosphine complex-catalyzed hydrogen generation and storage in aqueous formate/bicarbonate solutions using a flow reactor - Effective response to changes in hydrogen demand. International Journal of Hydrogen Energy, 2019, 44, 28527-28532. | 7.1 | 14 |
| 21 | A Simple and Efficient Procedure for Rh(I)â€•and Ir(I)â€•complex Catalyzed Paraâ€hydrogenation of Alkynes and Alkenes in Aqueous Media Resulting in Strong PHIP Effects. ChemCatChem, 2019, 11, 3000-3003. | 3.7 | 9 |
| 22 | Solvent-free N-alkylation of 1,3,5-triaza-7: phospha-adamantane (PTA). Phosphorus, Sulfur and Silicon and the Related Elements, 2019, 194, 469-470. | 1.6 | 1 |
| 23 | Hydrogenation of Î±,Î²-unsaturated aldehydes in aqueous media with a water-soluble Pd(II)-sulfosalan complex catalyst. Reaction Kinetics, Mechanisms and Catalysis, 2019, 126, 439-451. | 1.7 | 6 |
| 24 | Catalytic racemization of secondary alcohols with new (arene)Ru(II)-NHC and (arene)Ru(II)-NHC-tertiary phosphine complexes. Molecular Catalysis, 2018, 445, 248-256. | 2.0 | 6 |
| 25 | DFT Study on the Mechanism of Hydrogen Storage Based on the Formate-Bicarbonate Equilibrium Catalyzed by an Ir-NHC Complex: An Elusive Intramolecular Câ€“H Activation. Inorganic Chemistry, 2018, 57, 5903-5914. | 4.0 | 5 |
| 26 | Synthesis and catalytic activity of new, water-soluble mono- and dinuclear ruthenium(II) complexes containing 1,3,5-triaza-7-phosphaadamantane: Study of the effect of the visible light. Inorganica Chimica Acta, 2018, 470, 82-92. | 2.4 | 5 |
| 27 | Promoter effect of bicarbonate in hydrogenation of cinnamaldehyde catalyzed by a water-soluble Ru(II)-phosphine complex. Inorganica Chimica Acta, 2018, 472, 302-306. | 2.4 | 4 |
| 28 | Organic Solvent-Free, Pd(II)-Salan Complex-Catalyzed Synthesis of Biaryls via Suzukiâ€“Miyaura Cross-Coupling in Water and Air. Journal of Organic Chemistry, 2018, 83, 15486-15492. | 3.2 | 20 |
| 29 | A novel carbohydrate labeling method utilizing transfer hydrogenation-mediated reductive amination. Journal of Pharmaceutical and Biomedical Analysis, 2017, 142, 324-327. | 2.8 | 12 |
| 30 | Facile synthesis of [Ru(Î·2-O2CO)(pta)(Î·6-p-cymene)], an outstandingly active Ru(II) half-sandwich complex for redox isomerization of allylic alcohols. Inorganica Chimica Acta, 2017, 455, 514-520. | 2.4 | 9 |
| 31 | Dehalogenation of organic halides in aqueous media by hydrogen transfer from formate catalyzed by water-soluble Ru(II)-N-heterocyclic carbene complexes. Journal of Molecular Catalysis A, 2016, 425, 103-109. | 4.8 | 11 |
| 32 | Evaluation of catalytic activity of [RuClCp(dmoPTA)(PPh3)](OSO2CF3) in the isomerization of allylic alcohols in water (dmoPTA=3,7-dimethyl-1,3,7-triaza-5-phosphabicyclo[3.3.1]nonane). Journal of Molecular Catalysis A, 2016, 411, 27-33. | 4.8 | 18 |
| 33 | Waterâ€Soluble Iridiumâ€NHCâ€Phosphine Complexes as Catalysts for Chemical Hydrogen Batteries Based on Formate. ChemSusChem, 2015, 8, 3036-3038. | 6.8 | 38 |
| 34 | Synthesis and structure of stable water-soluble phosphonium alkanoate zwitterions derived from 1,3,5-triaza-7-phosphaadamantane. Structural Chemistry, 2015, 26, 1323-1334. | 2.0 | 7 |
| 35 | Effect of 2-Propanol on the Transfer Hydrogenation of Aldehydes by Aqueous Sodium Formate using a Rhodium(I)-sulfonated Triphenylphosphine Catalyst. Chimia, 2015, 69, 339. | 0.6 | 8 |
| 36 | Chemoselective hydration of glycosyl cyanides to C-glycosyl formamides using ruthenium complexes in aqueous media. Tetrahedron Letters, 2015, 56, 5995-5998. | 1.4 | 10 |

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|---|---|---|---|
| 37 | Unexpectedly fast catalytic transfer hydrogenation of aldehydes by formate in 2-propanolâ€“water mixtures under mild conditions. Catalysis Today, 2015, 247, 14-19. | 4.4 | 24 |
| 38 | A Breakthrough in Sustainable Production of Formate Salts: Combined Catalytic Methanol Dehydrogenation and Bicarbonate Hydrogenation. ChemCatChem, 2014, 6, 3306-3308. | 3.7 | 11 |
| 39 | Selective hydrogenation of cinnamaldehyde and phospholipids in aqueous-organic biphasic systems with ruthenium(II) complex catalysts. Green Processing and Synthesis, 2014, 3, 127-132. | 3.4 | 3 |
| 40 | New Water-Soluble Iridium(I)â€“N-Heterocyclic Carbeneâ€“Tertiary Phosphine Mixed-Ligand Complexes as Catalysts of Hydrogenation and Redox Isomerization. Organometallics, 2014, 33, 6330-6340. | 2.3 | 38 |
| 41 | Pdâ€“Tetrahydrosalanâ€Type Complexes as Catalysts for Sonogashira Couplings in Water: Efficient Greening of the Procedure. ChemSusChem, 2014, 7, 2230-2239. | 6.8 | 21 |
| 42 | Efficient and selective hydration of nitriles to amides in aqueous systems with Ru(II)-phosphaurotropine catalysts. Tetrahedron Letters, 2014, 55, 3615-3617. | 1.4 | 37 |
| 43 | Hydrogenation and Redox Isomerization of Allylic Alcohols Catalyzed by a New Water-Soluble Pdâ€“tetrahydrosalen Complex. Organometallics, 2013, 32, 4391-4401. | 2.3 | 40 |
| 44 | Classical and non-classical phosphine-Ru(<scp>ii</scp>)-hydrides in aqueous solutions: many, various, and useful. Dalton Transactions, 2013, 42, 521-529. | 3.3 | 20 |
| 45 | Free formic acid by hydrogenation of carbon dioxide in sodium formate solutions. Catalysis Communications, 2011, 14, 74-76. | 3.3 | 56 |
| 46 | A Charge/Discharge Device for Chemical Hydrogen Storage and Generation. Angewandte Chemie - International Edition, 2011, 50, 10433-10435. | 13.8 | 136 |
| 47 | Water-soluble gold(I)â€“NHC complexes of sulfonated IMes and SIMes and their catalytic activity in hydration of alkynes. Journal of Molecular Catalysis A, 2011, 340, 1-8. | 4.8 | 66 |
| 48 | Catalysis of redox isomerization of allylic alcohols by [RuClCp(mPTA)2](OSO2CF3)2 and [RuCp(mPTA)2(OH2-ÎºO)](OSO2CF3)3Â·(H2O)(C4H10O)0.5. Unusual influence of the pH and interaction of phosphate with catalyst on the reaction rate. Journal of Molecular Catalysis A, 2010, 326, 15-20. | 4.8 | 38 |
| 49 | Novel Sulfonated N-Heterocyclic Carbene Gold(I) Complexes: Homogeneous Gold Catalysis for the Hydration of Terminal Alkynes in Aqueous Media. Organometallics, 2010, 29, 2484-2490. | 2.3 | 113 |
| 50 | Water-Soluble Triisopropylphosphine Complexes of Ruthenium(II): Synthesis, Equilibria, and Acetonitrile Hydration. Organometallics, 2009, 28, 561-566. | 2.3 | 25 |
| 51 | Breakthroughs in Hydrogen Storageâ€"Formic Acid as a Sustainable Storage Material for Hydrogen. ChemSusChem, 2008, 1, 805-808. | 6.8 | 489 |
| 52 | Redox isomerisation of allylic alcohols catalysed by water-soluble ruthenium complexes in aqueous systems. Journal of Organometallic Chemistry, 2008, 693, 468-474. | 1.8 | 55 |
| 53 | Selective catalytic hydrogenations in a microfluidics-based high throughput flow reactor on ion-exchange supported transition metal complexes: A modular approach to the heterogenization of soluble complex catalysts. Catalysis Communications, 2007, 8, 442-446. | 3.3 | 23 |
| 54 | Transfer Hydrogenation of Carbonyl Compounds and Alkenes Catalyzed by Ruthenium(II)-N-Heterocycle Carbene Complexes. Collection of Czechoslovak Chemical Communications, 2007, 72, 1037-1045. | 1.0 | 19 |

| # | ARTICLE | IF | CITATIONS |
|---|---|---|---|
| 55 | (Meta - Sulfonatophenyl) Diphenylphosphine, Sodium Salt and its Complexes with Rhodium(I), Ruthenium(II), Iridium(I). Inorganic Syntheses, 2007, , 1-8. | 0.3 | 62 |
| 56 | The Role of Water in the Stereoselective Hydrogenation of 1,2-Diphenylacetylene Catalyzed by the Water-Soluble [{RuCl2(mtppms)2}2]. European Journal of Inorganic Chemistry, 2007, 2007, 2879-2889. | 2.0 | 14 |
| 57 | Hydrogenation of calcium carbonate in aqueous systems catalyzed by Rh(I)- and Ru(II)-complexes using poly(methylhydrosiloxane) or hypophosphite as hydrogen sources. Reaction Kinetics and Catalysis Letters, 2007, 91, 361-368. | 0.6 | 4 |
| 58 | New application of an anchored Ru(II)-N-heterocyclic carbene complex. Catalysis Letters, 2007, 115, 163-168. | 2.6 | 6 |
| 59 | Redox isomerization of allylic alcohols in aqueousâ€“organic biphasic systems catalyzed by water-soluble Ru(II)-N-heterocyclic carbene complexes. Catalysis Communications, 2006, 7, 783-786. | 3.3 | 47 |
| 60 | Aqueous Organometallic Chemistry. Synthesis and Solution Equilibria of Trisodium Carbonylchlorotris[3-(diphenylphosphino-ÎºP)benzenesulfonato]hydridoruthenate(3â^) ([RuH(Cl)(CO){m-(Ph2P)ï£¿C6H4ï£¿SO3Na}3]) and Trisodium Aquacarbonyltris[3-(diphenylphosphino-ÎºP). Helvetica Chimica Acta, 2005, 88, 566-573. | 1.6 | 5 |
| 61 | Stereoselective homogeneous catalytic hydrogenation of disubstituted alkynes in aqueous-organic biphasic media. Reaction Kinetics and Catalysis Letters, 2005, 85, 355-360. | 0.6 | 24 |
| 62 | Anion effects in the formation of the active catalyst in the Ruhrchemie Â– RhÃ´ne-Poulenc aqueous biphasic hydroformylation process. Are there any?. Canadian Journal of Chemistry, 2005, 83, 1033-1036. | 1.1 | 6 |
| 63 | Hydrogenation of aqueous mixtures of calcium carbonate and carbon dioxide using a water-soluble rhodium(I)â€“tertiary phosphine complex catalyst. Journal of Molecular Catalysis A, 2004, 224, 87-91. | 4.8 | 57 |
| 64 | Recent advances in the homogeneous hydrogenation of carbon dioxide. Coordination Chemistry Reviews, 2004, 248, 2425-2442. | 18.8 | 676 |
| 65 | Dramatic Pressure Effects on the Selectivity of the Aqueous/Organic Biphasic Hydrogenation of trans-Cinnamaldehyde Catalyzed by Water-Soluble Ru(II)-Tertiary Phosphane Complexes. Advanced Synthesis and Catalysis, 2003, 345, 172-174. | 4.3 | 35 |
| 66 | Unusual 1-Alkyne Dimerization/Hydrogenation Sequences Catalyzed by [Ir(H)2(NCCH3)3(P-i-Pr3)]BF4: Evidence for Homogeneous-Like Mechanism in Imidazolium Salts. Advanced Synthesis and Catalysis, 2003, 345, 280-288. | 4.3 | 32 |
| 67 | Homogeneous hydrogenation of carbon dioxide and bicarbonate in aqueous solution catalyzed by water-soluble ruthenium(II) phosphine complexes. Applied Catalysis A: General, 2003, 255, 59-67. | 4.3 | 161 |
| 68 | Aqueous organometallic catalysis. Isotope exchange reactions in H2â€“D2O and D2â€“H2O systems catalyzed by water-soluble Rh- and Ru-phosphine complexes. Green Chemistry, 2003, 5, 213. | 9.0 | 54 |
| 69 | Aqueous Biphasic Hydrogenations. Accounts of Chemical Research, 2002, 35, 738-745. | 15.6 | 165 |
| 70 | Formation and Solid State Structures of Highly Crystalline Guanidinium Salts of Sulfonated Tertiary Phosphanes. Advanced Synthesis and Catalysis, 2002, 344, 278-282. | 4.3 | 14 |
| 71 | The Effect of pH on the Reactions of Catalytically Important RhI Complexes in Aqueous Solution: Reaction of [RhCl(tppms)3] andtrans-[RhCl(CO)(tppms)2] with Hydrogen (TPPMS=mono-sulfonated) Tj ETQq1 1 0.784314 rgBT /Ove | 3.8 | |
| 72 | Homogeneous hydrogenation of aqueous hydrogen carbonate to formate under mild conditions with water soluble rhodium(I)- and ruthenium(II)-phosphine catalysts. Applied Organometallic Chemistry, 2000, 14, 857-859. | 3.5 | 43 |

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|---|---|---|---|
| 73 | Enantioselective hydride transfer hydrogenation of ketones catalyzed by [(Î·6-p-cymene)Ru(amino) Tj ETQq1 1 0.784314 rgBT /Overlock Chemistry, 2000, 593-594, 299-306. | 1.8 | 77 |
| 74 | Trimerisation of the Cationic Fragments [(Î·-ring)M(Aa)]+ ((Î·-ring) M=(Î·5-C5Me5)Rh, (Î·5-C5Me5)Ir,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5 Solution Studies and Catalytic Reactions of the Trimers [{(Î·-ring)M(Aa)}3](BF4)3. Chemistry - A European Journal, 1999, 5, 1544-1564. | 3.3 | 97 |
| 75 | Homogeneous hydrogenation of aqueous hydrogen carbonate to formate under exceedingly mild conditionsâ€"a novel possibility of carbon dioxide activationâ€. Chemical Communications, 1999, , 971-972. | 4.1 | 113 |
| 76 | Molecular catalysis in liquid multiphase systems. Topics in Catalysis, 1998, 5, 113-124. | 2.8 | 48 |
| 77 | Solution pH: A Selectivity Switch in Aqueous Organometallic Catalysisâ€"Hydrogenation of Unsaturated Aldehydes Catalyzed by Sulfonatophenylphosphane-Ru Complexes. Angewandte Chemie - International Edition, 1998, 37, 969-970. | 13.8 | 86 |
| 78 | The effects of pH on the molecular distribution of water soluble ruthenium(II) hydrides and its consequences on the selectivity of the catalytic hydrogenation of unsaturated aldehydes. Catalysis Today, 1998, 42, 441-448. | 4.4 | 74 |
| 79 | Homogeneous Hydrogenation. Catalysis By Metal Complexes, 1994, , . | 0.6 | 176 |
| 80 | The Mechanisms of Homogeneous Hydrogenation. Catalysis By Metal Complexes, 1994, , 5-85. | 0.6 | 8 |
| 81 | Hydrogenation of biological membranes using a polymer-anchored colloidal palladium catalyst. Reaction Kinetics and Catalysis Letters, 1992, 48, 619-625. | 0.6 | 7 |
| 82 | Complex hydrogenation/oxidation reactions of the water-soluble hydrogenation catalyst palladium di (sodium alizarinmonosulfonate) and details of homogeneous hydrogenation of lipids in isolated biomembranes and living cells. Analytical Biochemistry, 1991, 194, 34-40. | 2.4 | 46 |
| 83 | Organometallic catalysis in aqueous solutions: the biphasic transfer hydrogenation of aldehydes catalyzed by water-soluble phosphine complexes of ruthenium, rhodium and iridium. Journal of Molecular Catalysis, 1990, 58, 151-163. | 1.2 | 152 |
| 84 | Action of a homogeneous hydrogenation catalyst on living Tetrahymena mimbres cells. Biochimica Et Biophysica Acta - Biomembranes, 1990, 1023, 230-238. | 2.6 | 19 |
| 85 | Lipid Saturation Induced Microviscosity Increase Has No Effect on the Reducibility of Flash-Oxidized Cytochrome f in Pea Thylakoids. Plant Physiology, 1988, 86, 335-337. | 4.8 | 14 |
| 86 | The hydrogenation of phospholipid-bound unsaturated fatty acids by a homogeneous, water-soluble, palladium catalyst. Lipids and Lipid Metabolism, 1987, 921, 167-174. | 2.6 | 28 |
| 87 | Modulation of membrane fluidity in living protoplasts of Nicotiana plumbaginifolia by catalytic hydrogenation. FEBS Journal, 1985, 146, 241-244. | 0.2 | 43 |
| 88 | Selective modification of cytoplasmic membrane fluidity by catalytic hydrogenation provides evidence on its primary role in chilling susceptibility of the blue-green alga, Anacystis nidulans. FEBS Letters, 1985, 191, 200-204. | 2.8 | 38 |
| 89 | Catalysis by water-soluble phosphine complexes of transition metal ions in aqueous and two-phase media. Journal of Molecular Catalysis, 1980, 8, 369-383. | 1.2 | 135 |
| 90 | A double phosphabetaine formed from 1,3,5-triaza-7-phosphaadamantane (PTA) with acetylenedicarboxylic acid and its Ag(CF3SO3)-based coordination polymer. Phosphorus, Sulfur and Silicon and the Related Elements, 0, , 1-3. | 1.6 | 0 |

| # | ARTICLE | IF | CITATIONS |
|---|---|---|---|
| 91 | Synthesis and catalytic application of new [{IrCl(cod)}2(Î¼-diNHC)] and [{Ir(cod)(sulfonated) Tj ETQq1 1 0.784314 rgBT /Overlock | 1.6 | 0 |
| 92 | Triprotonated 1,3,5-triaza-7-phosphaadamantane (PTA); fantasy or real intermediate on way from PTA to tetradentate tris(aminomethyl)phosphine?. Phosphorus, Sulfur and Silicon and the Related Elements, 0, , 1-3. | 1.6 | 0 |