TamÃ¡s KÃ©gl

List of Publications by Year
in descending order

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68	1,122	430442	476904
papers	citations	18 h-index	29 g-index

75	75	75	976
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	27 Years of Catalytic Carbonylative Coupling Reactions in Hungary (1994â€“2021). Molecules, 2022, 27, 460.	1.7	9
2	Stereoisomeric Tris-BINOL-Menthol Bulky Monophosphites: Synthesis, Characterisation and Application in Rhodium-Catalysed Hydroformylation. Molecules, 2022, 27, 1989.	1.7	4
3	Electronic structure of platinum(II)-phosphine-tin(II)trihalide complexes. Journal of Molecular Structure, 2022, 1260, 132743.	1.8	2
4	Substituent effects on the activation parameters of the reaction between 1,4-benzoquinones and hydrogen peroxide: A combined experimental and theoretical study. Journal of Molecular Structure, 2022, 1261, 132916.	1.8	1
5	Coordination chemistry of platinum(II) and rhodium(I) complexes containing chiral monophosphacrown ether ligands. Inorganica Chimica Acta, 2021, 522, 120348.	1.2	1
6	Palladium-catalyzed carbonylative synthesis and theoretical study of elongated tubular cavitands. Journal of Organometallic Chemistry, 2020, 923, 121387.	0.8	3
7	Theoretical insights into the electronic structure of nickel(0)-diphosphine-carbon dioxide complexes. Journal of Organometallic Chemistry, 2020, 924, 121462.	0.8	5
8	DFT Study on the Mechanism of Iron-Catalyzed Diazocarbonylation. Molecules, 2020, 25, 5860.	1.7	1
9	Homogeneous Pd-Catalyzed Heck Coupling in Î³-Valerolactone as a Green Reaction Medium: A Catalytic, Kinetic, and Computational Study. ACS Sustainable Chemistry and Engineering, 2020, 8, 9926-9936.	3.2	22
10	Kinetics and Mechanism of the Concurrent Reactions of Hexathionate with S(IV) and Thiosulfate in a Slightly Acidic Medium. Journal of Physical Chemistry A, 2019, 123, 5418-5427.	1.1	6
11	Computational Characterization of Bidentate P-Donor Ligands: Direct Comparison to Tolmanâ€™s Electronic Parameters. Molecules, 2018, 23, 3176.	1.7	20
12	Palladium-Catalyzed Synthesis of Amidines via tert-Butyl isocyanide Insertion. ACS Omega, 2018, 3, 16118-16126.	1.6	4
13	Thermal Ring Contraction Reactions of 9-Aryl-5H,7H-[1,2,5]thiadiazolo[3,4-h][2,3,4]benzothiadiazepine 6,6-Dioxides. Experimental and Computational Studies for Understanding the Course of the Transformations. Journal of Organic Chemistry, 2017, 82, 1895-1903.	1.7	2
14	Theoretical insights into the nature of Ptï£¿Sn bond: Reevaluating the bonding/backâ€bonding properties of trichlorostannate with comparison to the cyano ligand. Journal of Computational Chemistry, 2017, 38, 1712-1726.	1.5	6
15	Viable pathways for the oxidative addition of iodobenzene to palladium(0)-triphenylphosphine-carbonyl complexes: a theoretical study. Dalton Transactions, 2017, 46, 15789-15802.	1.6	12
16	The Role of Weak Interactions in Supramolecular Compounds: A Synthetic and Theoretical Study of Novel Elongated Cavitands. ChemistrySelect, 2017, 2, 8337-8345.	0.7	5
17	Nature of the Metalâ€Ligand Interactions in Complexes M(PH₃)₂(Î·²â€) (M=Ni, Pd, Pt; L=CO₂, COS,) Tj ETQq1 1 0.784314 rgBT /O		
18	Az Ã³n(II)-halogenidek koordinÃ¡ciÃ³s kÃ©miÃ¡jÃ¡nak jelentÅ‘sÃ©ge a platinakatalizÃ¡lt hidroformilezÃ©si reakciÃ³ban. Magyar Kemiai Folyoirat, Kemiai Kozlemenyek, 2017, 123, 75-81.	0.0	0

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19	Relationship of QTAIM and NOCV Descriptors with Tolmanâ€™s Electronic Parameter. Advances in Chemistry, 2016, 2016, 1-7.	1.1	3
20	Substituent effects in aminocarbonylation of para -substituted iodobenzenes. Tetrahedron, 2016, 72, 7509-7516.	1.0	12
21	DFT Study on the Oxidative Addition of 4-Substituted Iodobenzenes on Pd(0)-Phosphine Complexes. Advances in Physical Chemistry, 2015, 2015, 1-6.	2.0	6
22	Computational aspects of hydroformylation. RSC Advances, 2015, 5, 4304-4327.	1.7	37
23	Estimation of Bite Angle Effect on the Electronic Structure of Cobalt-Phosphine Complexes: A QTAIM Study. Journal of Quantum Chemistry, 2014, 2014, 1-5.	0.6	2
24	Electronic Structure of Ferrocene-Substituted Cavitands: A QTAIM and NBO Study. Journal of Quantum Chemistry, 2014, 2014, 1-5.	0.6	1
25	DFT Study on the Co-Xe Bond in the HCo(CO)3Xe Adduct. Journal of Quantum Chemistry, 2014, 2014, 1-5.	0.6	0
26	Influence of the 4-Substituents on the Reversal of Enantioselectivity in the Asymmetric Hydroformylation of 4-Substituted Styrenes with PtCl(SnCl₃)[(2S,4S)-BDPP]. Organometallics, 2014, 33, 1389-1396.	1.1	18
27	Employment of quantum chemical descriptors for Hammett constants: Revision Suggested for the acetoxy substituent. Chemical Physics Letters, 2013, 588, 51-56.	1.2	19
28	Mechanism of the Platinum/Tin-Catalyzed Asymmetric Hydroformylation of Styrene: A Detailed Computational Investigation of the Chiral Discrimination. Organometallics, 2013, 32, 3640-3650.	1.1	16
29	Computational Study on the Intramolecular Carbene-CO Coupling in M(CH2)(CO)3 Radicals (M = Co,) Tj ETQq1 1 0.784314 rgBT /Ov	0.2	6
30	Density Functional Study on the Mechanism of Nickel-Mediated Diazo Carbonylation. Organometallics, 2012, 31, 8082-8097.	1.1	13
31	Synthesis of ferrocene-labeled steroids via copper-catalyzed azideâ€“alkyne cycloaddition. Reactivity difference between 2Î²-, 6Î²- and 16Î²-azido-androstanes. Steroids, 2012, 77, 738-744.	0.8	15
32	General Pathway of Sulfur-Chain Breakage of Polythionates by Iodine Confirmed by the Kinetics and Mechanism of the Pentathionateâ€“Iodine Reaction. Inorganic Chemistry, 2012, 51, 7837-7843.	1.9	16
33	Efficient catalytic hydrogenation of levulinic acid: a key step in biomass conversion. Green Chemistry, 2012, 14, 2057.	4.6	128
34	Facile, high-yielding synthesis of deepened cavitands: a synthetic and theoretical study. Supramolecular Chemistry, 2011, 23, 710-719.	1.5	15
35	Theoretical Insights into the Nature of Nickelâ”Carbon Dioxide Interactions in Ni(PH₃)₂(Î·²-CO₂). Journal of Physical Chemistry A, 2011, 115, 12463-12473.	1.1	20
36	Synthesis of (E)-2-(1-ferrocenylmethylidene)malonic acid derivatives by a cobalt-catalyzed domino reaction of ethyl diazoacetate, carbon monoxide and ferrocenylimines. Journal of Organometallic Chemistry, 2011, 696, 1394-1403.	0.8	14

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37	Mechanism of the cobalt-catalyzed carbonylation of ethyl diazoacetate. Inorganica Chimica Acta, 2010, 363, 2016-2028.	1.2	16
38	Mechanistic investigation of platinum-catalysed hydroformylation of propene: A density functional study. Inorganica Chimica Acta, 2010, 363, 2029-2045.	1.2	19
39	The Cobalt-Catalyzed Ketene Formation from Diazoalkanes. Letters in Organic Chemistry, 2010, 7, 634-644.	0.2	11
40	Triphenylphosphane-Modified Cobalt Catalysts for the Selective Carbonylation of Ethyl Diazoacetate. Organometallics, 2010, 29, 3837-3851.	1.1	20
41	Application of the Octacarbonyldicobaltâ€Catalyzed Carbonylation of Ethyl Diazoacetate for the Oneâ€Pot Synthesis of Nâ€tertâ€Butylâ€transâ€Îµâ€ethoxycarbonylâ€²â€phenylâ€²â€lactam. European Journal of Organic Chemistry, 2009, 2009, 1994-2002.	3.2	28
42	Reactions of triphenylphosphane-substituted ethoxycarbonylcarbene-bridged dicobalt carbonyl complexes with carbon monoxide or 13CO: An experimental and theoretical study. Inorganica Chimica Acta, 2009, 362, 1333-1342.	1.2	12
43	Co2(CO)8-induced domino reactions of ethyl diazoacetate, carbon monoxide and ferrocenylimines leading to 2-(1-ferrocenyl-methylidene)-malonic acid derivatives. Tetrahedron Letters, 2009, 50, 4727-4730.	0.7	16
44	Platinumâ€“alkylâ€“B(C6F5)3 (or BF3) â€˜in situâ€™ systems as tin(II) halide-free enantioselective hydroformylation catalysts. Journal of Organometallic Chemistry, 2008, 693, 1127-1135.	0.8	18
45	Kinetic and Thermodynamic Studies of the Reactivity of (Trimethylsilyl)diazomethane with HMo(CO)₃(C₅R₅) (R = H, Me). Estimation of the Moâ^'N₂CH₂SiMe₃ Bond Strength and Experimental Determination of the Enthalpy of Formation of (Trimethylsilyl)diazomethane. Organometallics, 2008, 27, 4873-4884.	1.1	3
46	Kinetic, Thermodynamic, and Mechanistic Aspects of Oxidative Addition Reactions of RE-ER (E = S, Se, Te) and Transition Metal Complexes. Current Organic Chemistry, 2008, 12, 1279-1297.	0.9	9
47	Spectroscopic Detection and Theoretical Confirmation of the Role of Cr2(CO)5(C5R5)2and Â·Cr(CO)2(ketene)(C5R5) as Intermediates in Carbonylation of NNCHSiMe3to OCCHSiMe3by Â·Cr(CO)3(C5R5) (R = H, CH3). Journal of the American Chemical Society, 2007, 129, 14388-14400.	6.6	38
48	Internal carbon monoxide exchange and CO dissociation in cobalt carbonyl carbene complexes. A density functional study. Journal of Organometallic Chemistry, 2007, 692, 1825-1833.	0.8	14
49	X-ray structures of the tris(2,4-xylyl)phosphane and its trisulfonated derivative: Molecular architecture of a water-soluble sulfonated phosphane with propeller chirality. Journal of Organometallic Chemistry, 2007, 692, 1845-1851.	0.8	4
50	Iodo-methyl ligand exchange reaction in platinum complexes: A density functional study. Journal of Organometallic Chemistry, 2007, 692, 1852-1858.	0.8	9
51	Rh complexes of 1-(2,4,6-triisopropylphenyl-)3-methyl-1H-phosphole: preparation and use as catalysts in the hydroformylation of styrene. Transition Metal Chemistry, 2007, 32, 299-303.	0.7	13
52	Î±-Fluorinated cyclic amidophosphite ligands. Their synthesis, Rh complexes and catalytic activity in the hydroformylation of styrene. Journal of Organometallic Chemistry, 2006, 691, 5547-5559.	0.8	14
53	Reactions of13CO with Ethoxycarbonylcarbene-Bridged Dicobalt Carbonyl Complexes: [Î¼2-{Ethoxycarbonyl(methylene)}-Î¼2-(carbonyl)bis(tricarbonylcobalt)(Coâ€“Co)] and [Di-Î¼2-{ethoxycarbonyl(methylene)}bis(tricarbonylcobalt)(Coâ€“Co)]. European Journal of Inorganic Chemistry, 2006, 2006, 1875-1880.	1.0	14
54	Novel Î±-fluorinated cyclic phosphite and phosphinite ligands and their Rh-complexes as suitable catalysts in hydroformylation. Journal of Organometallic Chemistry, 2005, 690, 3456-3464.	0.8	11

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55	The formation of [PtCl(diphosphine-I)(Î²1-diphosphine-II)]+ species in the N-butyl-Nâ€²-methylimidazolium hexafluorophosphate ionic liquid: An NMR study. Journal of Coordination Chemistry, 2005, 58, 869-874.	0.8	9
56	Octacarbonyl dicobalt-catalyzed selective carbonylation of (trimethylsilyl)diazomethane to obtain (trimethylsilyl)ketene. Journal of Molecular Catalysis A, 2004, 219, 7-11.	4.8	30
57	Xantphos as cis- and trans-chelating ligand in square-planar platinum(II) complexes. Hydroformylation of styrene with platinumâ€“xantphosâ€“tin(II)chloride system. Journal of Organometallic Chemistry, 2004, 689, 1188-1193.	0.8	31
58	Carbonylation reactions catalysed by rhodium(III) and palladium(II) complexes containing novel phosphine ligands. Comptes Rendus Chimie, 2004, 7, 779-784.	0.2	12
59	Hydroformylation of styrene in the presence of rhodium-2,4,6-trialkylphenyl-phosphole in situ catalytic systems. Journal of Molecular Catalysis A, 2003, 200, 131-136.	4.8	32
60	Preparation and Structural Characterization of Ionic Five-Coordinate Palladium(II) and Platinum(II) Complexes of the Ligand Tris[2-(diphenylphosphino)ethyl]phosphine. Insertion of SnCl2 into Mâ^'Cl Bonds (M = Pd, Pt) and Hydroformylation Activity of the Ptâ^'SnCl3 Systems. Inorganic Chemistry, 2002, 41, 4435-4443.	1.9	46
61	Site-selective phosphorylation of arylphospholes through reaction with phosphorus tribromide. Journal of Organometallic Chemistry, 2002, 643-644, 32-38.	0.8	11
62	Platinum complexes of (R)-N,N-bis(2-(diphenylphosphino)ethyl)-1-phenyl-ethylamine: their synthesis and characterisation. Inorganica Chimica Acta, 2001, 316, 135-139.	1.2	10
63	Platinum complexes of heteroannularly bridged heterobidentate ferrocenyl diphosphine ligands: their molecular structure and their use in catalytic carbonylation reactions. Journal of Organometallic Chemistry, 2000, 595, 93-101.	0.8	43
64	Carbonylation (hydroformylation and hydroalkoxycarbonylation) of styrene in the presence of transition metalâ€“ferrocene-based aminophosphine systems. Journal of Organometallic Chemistry, 1998, 563, 37-41.	0.8	29
65	High-pressure NMR investigation of the intermediates of platinum-phosphine hydroformylation catalysts. Inorganica Chimica Acta, 1997, 265, 249-254.	1.2	17
66	The effect of triflate additives in platinum-catalyzed enantioselective hydroformylation. Journal of Molecular Catalysis A, 1997, 122, 95-101.	4.8	11
67	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.	1.9	64
68	Platinum-catalysed enantioselective hydroformylation of styrene. Platinum-diphosphine-tin(II) fluoride catalytic system: a novel asymmetric hydroformylation catalyst. Journal of Organometallic Chemistry, 1993, 453, 155-158.	0.8	47