

Tamás Kágl

List of Publications by Year in descending order

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68
papers

1,122
citations

430442

18
h-index

476904

29
g-index

75
all docs

75
docs citations

75
times ranked

976
citing authors

#	ARTICLE	IF	CITATIONS
1	Efficient catalytic hydrogenation of levulinic acid: a key step in biomass conversion. <i>Green Chemistry</i> , 2012, 14, 2057.	4.6	128
2	CO Insertion in Four-Coordinate cis-Methyl(carbonyl)platinum-Diphosphine Compounds. An Ionic Mechanism for Platinum-Diphosphine-Catalyzed Hydroformylation. <i>Inorganic Chemistry</i> , 1994, 33, 5708-5712.	1.9	64
3	Platinum-catalysed enantioselective hydroformylation of styrene. Platinum-diphosphine-tin(II) fluoride catalytic system: a novel asymmetric hydroformylation catalyst. <i>Journal of Organometallic Chemistry</i> , 1993, 453, 155-158.	0.8	47
4	Preparation and Structural Characterization of Ionic Five-Coordinate Palladium(II) and Platinum(II) Complexes of the Ligand Tris[2-(diphenylphosphino)ethyl]phosphine. Insertion of SnCl ₂ into M ⁺ Cl Bonds (M = Pd, Pt) and Hydroformylation Activity of the Pt ⁺ SnCl ₃ Systems. <i>Inorganic Chemistry</i> , 2002, 41, 4435-4443.	1.9	46
5	Platinum complexes of heteroannularly bridged heterobidentate ferrocenyl diphosphine ligands: their molecular structure and their use in catalytic carbonylation reactions. <i>Journal of Organometallic Chemistry</i> , 2000, 595, 93-101.	0.8	43
6	Spectroscopic Detection and Theoretical Confirmation of the Role of Cr ₂ (CO) ₅ (C ₅ R ₅) ₂ and λ -Cr(CO) ₂ (ketene)(C ₅ R ₅) as Intermediates in Carbonylation of NNCHSiMe ₃ to OCCHSiMe ₃ by λ -Cr(CO) ₃ (C ₅ R ₅) (R = H, CH ₃). <i>Journal of the American Chemical Society</i> , 2007, 129, 14388-14400.	6.6	38
7	Computational aspects of hydroformylation. <i>RSC Advances</i> , 2015, 5, 4304-4327.	1.7	37
8	Hydroformylation of styrene in the presence of rhodium-2,4,6-trialkylphenyl-phosphole in situ catalytic systems. <i>Journal of Molecular Catalysis A</i> , 2003, 200, 131-136.	4.8	32
9	Xantphos as cis- and trans-chelating ligand in square-planar platinum(II) complexes. Hydroformylation of styrene with platinum ⁺ xantphos ⁻ tin(II)chloride system. <i>Journal of Organometallic Chemistry</i> , 2004, 689, 1188-1193.	0.8	31
10	Octacarbonyl dicobalt-catalyzed selective carbonylation of (trimethylsilyl)diazomethane to obtain (trimethylsilyl)ketene. <i>Journal of Molecular Catalysis A</i> , 2004, 219, 7-11.	4.8	30
11	Carbonylation (hydroformylation and hydroalkoxycarbonylation) of styrene in the presence of transition metal ⁺ ferrocene-based aminophosphine systems. <i>Journal of Organometallic Chemistry</i> , 1998, 563, 37-41.	0.8	29
12	Application of the Octacarbonyldicobalt ⁺ Catalyzed Carbonylation of Ethyl Diazoacetate for the One ⁺ Pot Synthesis of <i>N</i> -tert-Butyl α -ethoxycarbonyl β -phenyl γ -lactam. <i>Journal of Organic Chemistry</i> , 2009, 2009, 1994-2002.	1.2	28
13	Homogeneous Pd-Catalyzed Heck Coupling in γ -Valerolactone as a Green Reaction Medium: A Catalytic, Kinetic, and Computational Study. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 9926-9936.	3.2	22
14	Triphenylphosphane-Modified Cobalt Catalysts for the Selective Carbonylation of Ethyl Diazoacetate. <i>Organometallics</i> , 2010, 29, 3837-3851.	1.1	20
15	Theoretical Insights into the Nature of Nickel ⁺ Carbon Dioxide Interactions in Ni(PH ₃) ₃ (\dot{I} -CO) ₂ . <i>Journal of Physical Chemistry A</i> , 2011, 115, 12463-12473.	1.1	20
16	Computational Characterization of Bidentate P-Donor Ligands: Direct Comparison to Tolman ⁺ TM's Electronic Parameters. <i>Molecules</i> , 2018, 23, 3176.	1.7	20
17	Mechanistic investigation of platinum-catalysed hydroformylation of propene: A density functional study. <i>Inorganica Chimica Acta</i> , 2010, 363, 2029-2045.	1.2	19
18	Employment of quantum chemical descriptors for Hammett constants: Revision Suggested for the acetoxy substituent. <i>Chemical Physics Letters</i> , 2013, 588, 51-56.	1.2	19

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19	Platinum-alkyl-B(C ₆ F ₅) ₃ (or BF ₃) in situ™ systems as tin(II) halide-free enantioselective hydroformylation catalysts. <i>Journal of Organometallic Chemistry</i> , 2008, 693, 1127-1135.	0.8	18
20	Influence of the 4-Substituents on the Reversal of Enantioselectivity in the Asymmetric Hydroformylation of 4-Substituted Styrenes with PtCl(SnCl ₃)[(2 <i>S</i> ,4 <i>S</i>)-BDPP]. <i>Organometallics</i> , 2014, 33, 1389-1396.	1.1	18
21	High-pressure NMR investigation of the intermediates of platinum-phosphine hydroformylation catalysts. <i>Inorganica Chimica Acta</i> , 1997, 265, 249-254.	1.2	17
22	Co ₂ (CO) ₈ -induced domino reactions of ethyl diazoacetate, carbon monoxide and ferrocenylimines leading to 2-(1-ferrocenyl-methylidene)-malonic acid derivatives. <i>Tetrahedron Letters</i> , 2009, 50, 4727-4730.	0.7	16
23	Mechanism of the cobalt-catalyzed carbonylation of ethyl diazoacetate. <i>Inorganica Chimica Acta</i> , 2010, 363, 2016-2028.	1.2	16
24	General Pathway of Sulfur-Chain Breakage of Polythionates by Iodine Confirmed by the Kinetics and Mechanism of the Pentathionate-Iodine Reaction. <i>Inorganic Chemistry</i> , 2012, 51, 7837-7843.	1.9	16
25	Mechanism of the Platinum/Tin-Catalyzed Asymmetric Hydroformylation of Styrene: A Detailed Computational Investigation of the Chiral Discrimination. <i>Organometallics</i> , 2013, 32, 3640-3650.	1.1	16
26	Facile, high-yielding synthesis of deepened cavitands: a synthetic and theoretical study. <i>Supramolecular Chemistry</i> , 2011, 23, 710-719.	1.5	15
27	Synthesis of ferrocene-labeled steroids via copper-catalyzed azide-alkyne cycloaddition. Reactivity difference between 2 ¹² -, 6 ¹² - and 16 ¹² -azido-androstanes. <i>Steroids</i> , 2012, 77, 738-744.	0.8	15
28	±-Fluorinated cyclic amidophosphite ligands. Their synthesis, Rh complexes and catalytic activity in the hydroformylation of styrene. <i>Journal of Organometallic Chemistry</i> , 2006, 691, 5547-5559.	0.8	14
29	Reactions of ¹³ CO with Ethoxycarbonylcarbene-Bridged Dicobalt Carbonyl Complexes: [1/42-{Ethoxycarbonyl(methylene)}-1/42-(carbonyl)bis(tricarbonylcobalt)(Co-Co)] and [Di-1/42-{ethoxycarbonyl(methylene)}bis(tricarbonylcobalt)(Co-Co)]. <i>European Journal of Inorganic Chemistry</i> , 2006, 2006, 1875-1880.	1.0	14
30	Internal carbon monoxide exchange and CO dissociation in cobalt carbonyl carbene complexes. A density functional study. <i>Journal of Organometallic Chemistry</i> , 2007, 692, 1825-1833.	0.8	14
31	Synthesis of (E)-2-(1-ferrocenylmethylidene)malonic acid derivatives by a cobalt-catalyzed domino reaction of ethyl diazoacetate, carbon monoxide and ferrocenylimines. <i>Journal of Organometallic Chemistry</i> , 2011, 696, 1394-1403.	0.8	14
32	Rh complexes of 1-(2,4,6-triisopropylphenyl)-3-methyl-1H-phosphole: preparation and use as catalysts in the hydroformylation of styrene. <i>Transition Metal Chemistry</i> , 2007, 32, 299-303.	0.7	13
33	Density Functional Study on the Mechanism of Nickel-Mediated Diazo Carbonylation. <i>Organometallics</i> , 2012, 31, 8082-8097.	1.1	13
34	Carbonylation reactions catalysed by rhodium(III) and palladium(II) complexes containing novel phosphine ligands. <i>Comptes Rendus Chimie</i> , 2004, 7, 779-784.	0.2	12
35	Reactions of triphenylphosphane-substituted ethoxycarbonylcarbene-bridged dicobalt carbonyl complexes with carbon monoxide or ¹³ CO: An experimental and theoretical study. <i>Inorganica Chimica Acta</i> , 2009, 362, 1333-1342.	1.2	12
36	Substituent effects in aminocarbonylation of para-substituted iodobenzenes. <i>Tetrahedron</i> , 2016, 72, 7509-7516.	1.0	12

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37	Viable pathways for the oxidative addition of iodobenzene to palladium(0)-triphenylphosphine-carbonyl complexes: a theoretical study. <i>Dalton Transactions</i> , 2017, 46, 15789-15802.	1.6	12
38	The effect of triflate additives in platinum-catalyzed enantioselective hydroformylation. <i>Journal of Molecular Catalysis A</i> , 1997, 122, 95-101.	4.8	11
39	Site-selective phosphorylation of arylphospholes through reaction with phosphorus tribromide. <i>Journal of Organometallic Chemistry</i> , 2002, 643-644, 32-38.	0.8	11
40	Novel $\hat{\pm}$ -fluorinated cyclic phosphite and phosphinite ligands and their Rh-complexes as suitable catalysts in hydroformylation. <i>Journal of Organometallic Chemistry</i> , 2005, 690, 3456-3464.	0.8	11
41	The Cobalt-Catalyzed Ketene Formation from Diazoalkanes. <i>Letters in Organic Chemistry</i> , 2010, 7, 634-644.	0.2	11
42	Platinum complexes of (R)-N,N-bis(2-(diphenylphosphino)ethyl)-1-phenyl-ethylamine: their synthesis and characterisation. <i>Inorganica Chimica Acta</i> , 2001, 316, 135-139.	1.2	10
43	The formation of [PtCl(diphosphine-I)(\hat{I}^2 -diphosphine-II)] ⁺ species in the N-butyl-N \hat{e} ² -methylimidazolium hexafluorophosphate ionic liquid: An NMR study. <i>Journal of Coordination Chemistry</i> , 2005, 58, 869-874.	0.8	9
44	Iodo-methyl ligand exchange reaction in platinum complexes: A density functional study. <i>Journal of Organometallic Chemistry</i> , 2007, 692, 1852-1858.	0.8	9
45	Kinetic, Thermodynamic, and Mechanistic Aspects of Oxidative Addition Reactions of RE-ER (E = S, Se, Te) and Transition Metal Complexes. <i>Current Organic Chemistry</i> , 2008, 12, 1279-1297.	0.9	9
46	27 Years of Catalytic Carbonylative Coupling Reactions in Hungary (1994 \hat{e} 2021). <i>Molecules</i> , 2022, 27, 460.	1.7	9
47	DFT Study on the Oxidative Addition of 4-Substituted Iodobenzenes on Pd(0)-Phosphine Complexes. <i>Advances in Physical Chemistry</i> , 2015, 2015, 1-6.	2.0	6
48	Theoretical insights into the nature of Pt $\hat{\xi}$ Sn bond: Reevaluating the bonding/back \hat{e} bonding properties of trichlorostannate with comparison to the cyano ligand. <i>Journal of Computational Chemistry</i> , 2017, 38, 1712-1726.	1.5	6
49	Kinetics and Mechanism of the Concurrent Reactions of Hexathionate with S(IV) and Thiosulfate in a Slightly Acidic Medium. <i>Journal of Physical Chemistry A</i> , 2019, 123, 5418-5427.	1.1	6
50	The Role of Weak Interactions in Supramolecular Compounds: A Synthetic and Theoretical Study of Novel Elongated Cavities. <i>ChemistrySelect</i> , 2017, 2, 8337-8345.	0.7	5
51	Theoretical insights into the electronic structure of nickel(0)-diphosphine-carbon dioxide complexes. <i>Journal of Organometallic Chemistry</i> , 2020, 924, 121462.	0.8	5
52	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. <i>Journal of Organometallic Chemistry</i> , 2007, 692, 1845-1851.	0.8	4
53	Palladium-Catalyzed Synthesis of Amidines via <i>tert</i> -Butyl isocyanide Insertion. <i>ACS Omega</i> , 2018, 3, 16118-16126.	1.6	4
54	Stereoisomeric Tris-BINOL-Menthol Bulky Monophosphites: Synthesis, Characterisation and Application in Rhodium-Catalysed Hydroformylation. <i>Molecules</i> , 2022, 27, 1989.	1.7	4

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55	Kinetic and Thermodynamic Studies of the Reactivity of (Trimethylsilyl)diazomethane with $\text{HMo}(\text{CO})_3(\text{C}_5\text{R}_5)$ ($\text{R} = \text{H}, \text{Me}$). Estimation of the $\text{Mo}^{\text{IV}}\text{N}^2\text{CH}_2\text{SiMe}_3$ Bond Strength and Experimental Determination of the Enthalpy of Formation of (Trimethylsilyl)diazomethane. <i>Organometallics</i> , 2008, 27, 4873-4884.	1.1	3
56	Relationship of QTAIM and NOCV Descriptors with Tolman's Electronic Parameter. <i>Advances in Chemistry</i> , 2016, 2016, 1-7.	1.1	3
57	Palladium-catalyzed carbonylative synthesis and theoretical study of elongated tubular cavitands. <i>Journal of Organometallic Chemistry</i> , 2020, 923, 121387.	0.8	3
58	Estimation of Bite Angle Effect on the Electronic Structure of Cobalt-Phosphine Complexes: A QTAIM Study. <i>Journal of Quantum Chemistry</i> , 2014, 2014, 1-5.	0.6	2
59	Thermal Ring Contraction Reactions of 9-Aryl-5,7-[1,2,5]thiadiazolo[3,4- <i>b</i>][2,3,4]benzothiadiazepine 6,6-Dioxides. Experimental and Computational Studies for Understanding the Course of the Transformations. <i>Journal of Organic Chemistry</i> , 2017, 82, 1895-1903.	1.7	2
60	Nature of the Metal-Ligand Interactions in Complexes $\text{M}(\text{PH}_3)_2(\text{L})$ ($\text{M} = \text{Ni}, \text{Pd}, \text{Pt}$; $\text{L} = \text{CO}_2, \text{COS}$) <i>Tj ETQq0000 rgBT /Overlock 1</i>		
61	Electronic structure of platinum(II)-phosphine-tin(II)trihalide complexes. <i>Journal of Molecular Structure</i> , 2022, 1260, 132743.	1.8	2
62	Electronic Structure of Ferrocene-Substituted Cavitands: A QTAIM and NBO Study. <i>Journal of Quantum Chemistry</i> , 2014, 2014, 1-5.	0.6	1
63	DFT Study on the Mechanism of Iron-Catalyzed Diazocarbonylation. <i>Molecules</i> , 2020, 25, 5860.	1.7	1
64	Coordination chemistry of platinum(II) and rhodium(I) complexes containing chiral monophosphacrown ether ligands. <i>Inorganica Chimica Acta</i> , 2021, 522, 120348.	1.2	1
65	Substituent effects on the activation parameters of the reaction between 1,4-benzoquinones and hydrogen peroxide: A combined experimental and theoretical study. <i>Journal of Molecular Structure</i> , 2022, 1261, 132916.	1.8	1
66	Computational Study on the Intramolecular Carbene-CO Coupling in $\text{M}(\text{CH}_2)(\text{CO})_3$ Radicals ($\text{M} = \text{Co}$) <i>Tj ETQq0000 rgBT /Overlock 10 T</i>	0.2	0
67	DFT Study on the Co-Xe Bond in the $\text{HCo}(\text{CO})_3\text{Xe}$ Adduct. <i>Journal of Quantum Chemistry</i> , 2014, 2014, 1-5.	0.6	0
68	Az $\text{N}(\text{II})$ -halogenidek koordinációs kémiájának jelentősége a platinakatalizált hidroformilezési reakcióban. <i>Magyar Kémiai Folyóirat, Kémiai Közlemények</i> , 2017, 123, 75-81.	0.0	0