Zoltan Mucsi

List of Publications by Year
in descending order

94 papers	1,510 citations	331670 21 h-index	395702 33 g-index
94 all docs	94 docs citations	94 times ranked	1389 citing authors

#	Article	IF	Citations
1	Tissue-Specific Accumulation and Isomerization of Valuable Phenylethanoid Glycosides from Plantago and Forsythia Plants. International Journal of Molecular Sciences, 2021, 22, 3880.	4.1	3
2	Theoretical Design, Synthesis, and In Vitro Neurobiological Applications of a Highly Efficient Two-Photon Caged GABA Validated on an Epileptic Case. ACS Omega, 2021, 6, 15029-15045.	3.5	9
3	MW-Promoted Cu(I)-Catalyzed Pâ€“C Coupling Reactions without the Addition of Conventional Ligands; an Experimental and a Theoretical Study. Catalysts, 2021, 11, 933.	3.5	8
4	A Comprehensive Study of the Ca²⁺ Ion Binding of Fluorescently Labelled BAPTA Analogues. European Journal of Organic Chemistry, 2021, 2021, 5248-5261.	2.4	6
5	Synthesis and Fluorescence Mechanism of the Aminoimidazolone Analogues of the Green Fluorescent Protein: Towards Advanced Dyes with Enhanced Stokes Shift, Quantum Yield and Twoâ€Photon Absorption. European Journal of Organic Chemistry, 2021, 2021, 5649-5660.	2.4	9
6	Regio- and Diastereoselective Synthesis of 2-Arylazetidines: Quantum Chemical Explanation of Baldwinâ€™s Rules for the Ring-Formation Reactions of Oxiranes. Journal of Organic Chemistry, 2020, 85, 11226-11239.	3.2	11
7	Focusing on the Catalysts of the Pd- and Ni-Catalyzed Hirao Reactions. Molecules, 2020, 25, 3897.	3.8	12
8	Experimental and Theoretical Study on the â€œ2,2â€²-Bipiridyl-Ni-Catalyzedâ€•Hirao Reaction of >P(O)H Reagents and Halobenzenes: A Ni(0) â†’ Ni(II) or a Ni(II) â†’ Ni(IV) Mechanism?. Journal of Organic Chemistry, 2020, 85, 14486-14495.	3.2	18
9	A surprising mechanism lacking the Ni(0) state during the Ni(II)-catalyzed Pâ€“C cross-coupling reaction performed in the absence of a reducing agent â€“ An experimental and a theoretical study. Pure and Applied Chemistry, 2020, 92, 493-503.	1.9	16
10	Simple route to new oxadiazaboroles and oxadiazoles via amidoximes. Synthetic Communications, 2020, 50, 1712-1723.	2.1	4
11	Preparation of 2-phospholene oxides by the isomerization of 3-phospholene oxides. Beilstein Journal of Organic Chemistry, 2020, 16, 818-832.	2.2	3
12	A Study on the Rearrangement of Dialkyl 1-Aryl-1-hydroxymethylphosphonates to Benzyl Phosphates. Current Organic Chemistry, 2020, 24, 465-471.	1.6	11
13	Microwave irradiation and catalysis in organophosphorus reactions. Pure and Applied Chemistry, 2019, 91, 145-157.	1.9	5
14	Galls of European Fraxinus trees as new and abundant sources of valuable phenylethanoid and coumarin glycosides. Industrial Crops and Products, 2019, 139, 111517.	5.2	7
15	Microwave irradiation and catalysis in organophosphorus chemistry. Phosphorus, Sulfur and Silicon and the Related Elements, 2019, 194, 391-395.	1.6	0
16	Chemoselective Strategy for the Direct Formation of Tetrahydro-2,5-methanobenzo[<i>c</i>]azepines or Azetotetrahydroisoquinolines via Regio- and Stereoselective Reactions. Journal of Organic Chemistry, 2019, 84, 7100-7112.	3.2	4
17	Synthesis and spectroscopic characterization of novel GFP chromophore analogues based on aminoimidazolone derivatives. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2019, 218, 161-170.	3.9	9
18	Reply to the â€˜Comment on â€œPenicillin's catalytic mechanism revealed by inelastic neutrons and quantum chemical theoryâ€â€™ by S. A. Glover, Phys. Chem. Chem. Phys., 2019, 21, 18012. Physical Chemistry Chemical Physics, 2019, 21, 25513-25517.	2.8	0

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19	Scope and limitation of propylene carbonate as a sustainable solvent in the Suzukiâ€“Miyaura reaction. RSC Advances, 2019, 9, 37818-37824.	3.6	13
20	Palladium-catalyzed microwave-assisted Hirao reaction utilizing the excess of the diarylphosphine oxide reagent as the P-ligand; a study on the activity and formation of the â€œPdP₂â€•catalyst. Pure and Applied Chemistry, 2019, 91, 121-134.	1.9	24
21	High efficiency two-photon uncaging coupled by the correction of spontaneous hydrolysis. Organic and Biomolecular Chemistry, 2018, 16, 1958-1970.	2.8	13
22	Equilibrium, structural and antibacterial characterization of moxifloxacin-Î²-cyclodextrin complex. Journal of Molecular Structure, 2018, 1166, 228-236.	3.6	30
23	Amide Activation in Ground and Excited States. Molecules, 2018, 23, 2859.	3.8	25
24	A novel preparation of chlorophospholenium chlorides and their application in the synthesis of phospholene boranes. Tetrahedron Letters, 2017, 58, 458-461.	1.4	7
25	The Palladium Acetateâ€Catalyzed Microwaveâ€Assisted Hirao Reaction without an Added Phosphorus Ligand as a â€œGreenâ€•Protocol: A Quantum Chemical Study on the Mechanism. Advanced Synthesis and Catalysis, 2017, 359, 4322-4331.	4.3	40
26	Mechanistic Study on the Acylation ofBis(2,2,2-Trifluoroethyl) Methylphosphonate by Carboxylic Esters. ChemistrySelect, 2017, 2, 7723-7734.	1.5	1
27	The Synthesis of 3-Phenylpropidronate Applying Phosphorus Trichloride and Phosphorous Acid in Methanesulfonic Acid. Current Organic Chemistry, 2016, 20, 1745-1752.	1.6	6
28	A novel and convenient method for the preparation of 5-(diphenylmethylene)-1 H -pyrrol-2(5 H)-ones; synthesis and mechanistic study. Tetrahedron, 2016, 72, 5444-5455.	1.9	8
29	Milestones in microwave-assisted organophosphorus chemistry. Pure and Applied Chemistry, 2016, 88, 931-939.	1.9	13
30	Reply to comment on â€œRadicalicity: A scale to compare reactivities of radicalsâ€• Chemical Physics Letters, 2016, 654, 141.	2.6	0
31	Synthesis of Î±-hydroxyphosphonates and Î±-aminophosphonates. Phosphorus, Sulfur and Silicon and the Related Elements, 2016, 191, 1564-1565.	1.6	3
32	Synthesis of Î±â€aminophosphonates from Î±â€hydroxyphosphonates; a theoretical study. Heteroatom Chemistry, 2016, 27, 260-268.	0.7	20
33	Synthesis and use of Î±-aminophosphine oxides and N,N-bis(phosphinoylmethyl)amines â€“ A study on the related ring platinum complexes. Journal of Organometallic Chemistry, 2016, 801, 111-121.	1.8	38
34	Revisiting the 7â€Phospanorbornene Family: New Pâ€Alkyl Derivatives. Heteroatom Chemistry, 2015, 26, 335-347.	0.7	12
35	Synthesis of Isoxazoline Derivatives Based on Nitrile Oxide Cycloaddition of Nitrosoâ€Nitroâ€Enamine. European Journal of Organic Chemistry, 2015, 2015, 6872-6890.	2.4	13
36	An Interpretation of the Rate Enhancing Effect of Microwaves â€“ Modelling the Distribution and Effect of Local Overheating â€“ A Case Study. Current Organic Chemistry, 2015, 19, 1436-1440.	1.6	30

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37	The Synthesis and Potential Use of Cyclic Phosphinic Acid Derivatives. Phosphorus, Sulfur and Silicon and the Related Elements, 2015, 190, 668-671.	1.6	1
38	The Potential of Microwave in Organophosphorus Syntheses. Phosphorus, Sulfur and Silicon and the Related Elements, 2015, 190, 647-654.	1.6	9
39	Synthesis of Bis(phosphinoyl)amines and Phosphinoyl-Phosphorylamines by theN-Phosphinoylation andN-Phosphorylation of 1-Alkylamino-2,5-dihydro-1H-phosphole 1-Oxides. Heteroatom Chemistry, 2015, 26, 134-141.	0.7	7
40	Radicalicity: A scale to compare reactivities of radicals. Chemical Physics Letters, 2015, 618, 99-101.	2.6	1
41	A Three-Step Conversion of Phenyl-1H-phosphinic Acid to Dialkyl Phenylphosphonates Including Two Microwave-Assisted Direct Esterification Steps. Current Organic Synthesis, 2014, 11, 767-772.	1.3	20
42	A quantum chemical study on the mechanism and energetics of the direct esterification, thioesterification and amidation of 1-hydroxy-3-methyl-3-phospholene 1-oxide. RSC Advances, 2014, 4, 11948.	3.6	37
43	Heteroatom effect on potential energy topology. A novel reaction mechanism of stereospecific Staudinger synthesis. Tetrahedron, 2014, 70, 9682-9694.	1.9	4
44	The synthesis of phosphinates: traditional versus green chemical approaches. Green Processing and Synthesis, 2014, 3, 103-110.	3.4	22
45	Hydrogenolysis of N- and O-protected hydroxyazetidines over palladium: Efficient and selective methods for ring opening and deprotecting reactions. Journal of Molecular Catalysis A, 2014, 395, 217-224.	4.8	9
46	The Synthesis of 3-Phosphabicyclo[3.1.0]- hexane 3-Oxides and 1,2-Dihydrophosphinine 1-Oxides with Lipophilic P-Alkoxy Substituents by Ring Enlargement. Heteroatom Chemistry, 2014, 25, 265-273.	0.7	5
47	An experimental and theoretical study of reaction mechanisms between nitriles and hydroxylamine. Organic and Biomolecular Chemistry, 2014, 12, 8036-8047.	2.8	19
48	Penicillin's catalytic mechanism revealed by inelastic neutrons and quantum chemical theory. Physical Chemistry Chemical Physics, 2013, 15, 20447-20455.	2.8	24
49	Direct Estirification and Amidation of Phosphinic Acids Under Microwave Conditions. Phosphorus, Sulfur and Silicon and the Related Elements, 2013, 188, 29-32.	1.6	5
50	Controlled antioxidative steps of the cell. The concept of chalcogenicity. Chemical Physics Letters, 2013, 590, 83-86.	2.6	1
51	Synthesis of New β-Carboline Derivatives Fused with β-Lactam Rings: An Experimental and Theoretical Study. Current Organic Chemistry, 2013, 17, 1894-1902.	1.6	6
52	Application of the Systems Chemistry Approach on the Ammonolysis of 1-Ethoxycarbonyl- and 1-Phenoxycarbonyl-3-(2-thienyl)oxindoles. A Method to Predict Reactivity. Journal of Organic Chemistry, 2012, 77, 7282-7290.	3.2	6
53	Insights into a surprising reaction: The microwave-assisted direct esterification of phosphinic acids. Organic and Biomolecular Chemistry, 2012, 10, 2011.	2.8	102
54	Reductive transformations of unsaturated azabicyclic nitrolactams. Tetrahedron, 2012, 68, 5547-5553.	1.9	15

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55	Disulfidicity: A scale to characterize the disulfide bond strength via the hydrogenation thermodynamics. Chemical Physics Letters, 2012, 539-540, 11-14.	2.6	4
56	A neighbouring group effect leading to enhanced nucleophilic substitution of amines at the hindered Î±-carbon atom of an Î±-hydroxyphosphonate. Tetrahedron Letters, 2012, 53, 207-209.	1.4	39
57	Ring Transformation of Unsaturated <i>N</i>-Bridgehead Fused Pyrimidin-4(3<i>H</i>)-ones: Role of Repulsive Electrostatic Nonbonded Interaction. Journal of Organic Chemistry, 2011, 76, 696-699.	3.2	4
58	Suzukiâ€“Miyaura cross-coupling reactions of halo derivatives of 4H-pyrido[1,2-a]pyrimidin-4-ones. Organic and Biomolecular Chemistry, 2011, 9, 6559.	2.8	18
59	A computational study of glutathione and its fragments: N-acetylcisteinylglycine and Î³-glutamylmethylamide. Chemical Physics Letters, 2011, 507, 168-173.	2.6	9
60	Synthesis of novel isoxazoline-fused cyclic Î²-amino esters by regio- and stereo-selective 1,3-dipolar cycloaddition. Tetrahedron, 2011, 67, 4079-4085.	1.9	34
61	New Alkaloid Derivatives by the Reaction of 3,4-Dihydro-β-Carbolines with 1,3- Dipoles; Synthesis and a Theoretical Study[1]. Current Organic Chemistry, 2011, 15, 1811-1825.	1.6	6
62	Versatile synthesis of oxindole-1,3-dicarboxamides. Tetrahedron, 2010, 66, 7017-7027.	1.9	4
63	Synthesis of New 2-Benzazepino[4,5-a]naphthalene Derivatives via 1,7-Electrocyclisation of Nonstabilised Azomethine Ylides. Synlett, 2010, 2010, 2411-2414.	1.8	3
64	Intramolecular approach to some new D-ring-fused steroidal isoxazolidines by 1,3-dipolar cycloaddition: synthesis, theoretical and in vitro pharmacological studies. New Journal of Chemistry, 2010, 34, 2671.	2.8	25
65	Systemic Energy Management by Strategically Located Functional Components within Molecular Frameworks, Determined by Systems Chemistry. Journal of Physical Chemistry B, 2009, 113, 10308-10314.	2.6	17
66	Thermodynamic Functions of Molecular Conformations of (2-Fluoro-2-phenyl-1-ethyl)ammonium Ion and (2-Hydroxy-2-phenyl-1-ethyl)ammonium Ion as Models for Protonated Noradrenaline and Adrenaline: First-Principles Computational Study of Conformations and Thermodynamic Functions for the Noradrenaline and Adrenaline Models. Journal of Physical Chemistry A, 2009, 113, 2507-2515.	2.5	2
67	Efficient Approach to Androstene-Fused Arylpyrazolines as Potent Antiproliferative Agents. Experimental and Theoretical Studies of Substituent Effects on BF₃-Catalyzed Intramolecular [3 + 2] Cycloadditions of Olefinic Phenylhydrazones. Journal of the American Chemical Society, 2009, 131, 3894-3904.	13.7	79
68	Thermodynamic Role of Glutathione Oxidation by Peroxide and Peroxybicarbonate in the Prevention of Alzheimerâ€™s Disease and Cancer. Journal of Physical Chemistry A, 2009, 113, 9138-9149.	2.5	11
69	Binding-induced folding transitions in calpastatin subdomains A and C. Protein Science, 2009, 12, 2327-2336.	7.6	32
70	A Quantitative Scale for the Extent of Conjugation of Substituted Olefines. Journal of Physical Chemistry A, 2009, 113, 7953-7962.	2.5	9
71	1,6â€Electrocyclization of 1â€Azatriene Derivatives. European Journal of Organic Chemistry, 2008, 2008, 1092-1100.	2.4	18
72	Synthesis and conformational study of <i>P</i>â€heterocyclic androstâ€5â€ene derivatives. Heteroatom Chemistry, 2008, 19, 7-14.	0.7	17

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73	The influence of exocyclic phosphorous substituents on the intrinsic stability of four-membered heterophosphetes: a theoretical study. Tetrahedron, 2008, 64, 1868-1878.	1.9	11
74	[3+3] Cyclization reactions of Î²-nitroenamines and Î²-enaminonitriles with Î±,Î²-unsaturated carboxylic acid chlorides. Tetrahedron, 2008, 64, 5545-5550.	1.9	39
75	Amidicity Change as a Significant Driving Force and Thermodynamic Selection Rule of Transamidation Reactions. A Synergy between Experiment and Theory. Journal of Physical Chemistry B, 2008, 112, 7885-7893.	2.6	51
76	Quantitative Scale for the Extent of Conjugation of Carbonyl Groups: â€œCarbonylicityâ€•Percentage as a Chemical Driving Force. Journal of Physical Chemistry A, 2008, 112, 9153-9165.	2.5	25
77	Aromaticity and Antiaromaticity of Four-Membered P-Heterocycles. Current Organic Chemistry, 2008, 12, 83-96.	1.6	15
78	Can Four Membered Heterophosphete Structures Exist? â€œHeterogenâ€•Hetero Antiaromaticity as a Destabilizing Effect. Phosphorus, Sulfur and Silicon and the Related Elements, 2008, 183, 726-727.	1.6	1
79	A Quantitative Scale for the Extent of Conjugation of the Amide Bond. Amidity Percentage as a Chemical Driving Force. Journal of Physical Chemistry A, 2007, 111, 13245-13254.	2.5	55
80	Can Four-Membered Heterophosphete Structures Exist? The Contribution of Phosphorus d Orbitals to Antiaromaticity. European Journal of Organic Chemistry, 2007, 2007, 1759-1767.	2.4	19
81	Why are Phosphole Oxides Unstable? The Phenomenon of Antiaromaticity as a Destabilizing Factor. European Journal of Organic Chemistry, 2007, 2007, 4765-4771.	2.4	23
82	A concise synthetic pathway towards 5-substituted indolizidines. Tetrahedron Letters, 2007, 48, 1159-1161.	1.4	18
83	A Quantitative Scale for the Degree of Aromaticity and Antiaromaticity: A Comparison of Theoretical and Experimental Enthalpies of Hydrogenation. Journal of Physical Chemistry A, 2007, 111, 1123-1132.	2.5	53
84	Kinetic and Theoretical Studies of a Facile, One-Pot Preparation of a Spirocyclohexylindolinone Derivative. European Journal of Organic Chemistry, 2006, 2006, 1769-1778.	2.4	6
85	Modeling Rate-Controlling Solvent Effects. The Pericyclic Meisenheimer Rearrangement ofN-PropargylmorpholineN-Oxide. Journal of the American Chemical Society, 2005, 127, 7615-7631.	13.7	46
86	Solvent-Dependent Competitive Rearrangements of Cyclic Tertiary PropargylamineN-Oxides. European Journal of Organic Chemistry, 2004, 2004, 687-694.	2.4	5
87	Structure-oriented rational design of chymotrypsin inhibitor models. Protein Engineering, Design and Selection, 2003, 16, 673-681.	2.1	7
88	Calpastatin Subdomains A and C Are Activators of Calpain. Journal of Biological Chemistry, 2002, 277, 9022-9026.	3.4	50
89	Substrate-dependent Competency of the Catalytic Triad of Prolyl Oligopeptidase. Journal of Biological Chemistry, 2002, 277, 44597-44605.	3.4	26
90	Engineering new peptidic inhibitors from a natural chymotrypsin inhibitor. Journal of Peptide Science, 2002, 8, 643-655.	1.4	2

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91	Energy Managements in the Chemical and Biochemical World, as It may be Understood from the Systems Chemistry Point of View. , 0, , .		2
92	Newer developments in the green synthesis of tertiary phosphine oxides, phosphinates, phosphonates and their derivatives. Phosphorus, Sulfur and Silicon and the Related Elements, 0, , 1-6.	1.6	0
93	Electrocyclization and Unexpected Reactions of Non-Stabilised Î±,Î²:Î³,Î´-Unsaturated Azomethine Ylides. Experimental and Theoretical Study.. Synthesis, 0, , .	2.3	1
94	Microwave assisted Pâ€“C coupling reactions without directly added P-ligands. Phosphorus, Sulfur and Silicon and the Related Elements, 0, , 1-4.	1.6	0