

# Zoltán Benkő

## List of Publications by Year in descending order

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59  
papers

2,034  
citations

257429

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243610

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66  
all docs

66  
docs citations

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times ranked

1023  
citing authors

#	ARTICLE	IF	CITATIONS
1	Sodium phosphoethynolate, Na(OCP), as a $\sigma$ -transfer reagent for the synthesis of N-heterocyclic carbene supported $P_3$ and PAsP radicals. <i>Chemical Science</i> , 2014, 5, 1545-1554.	7.4	206
2	Coulomb repulsion versus cycloaddition: formation of anionic four-membered rings from sodium phosphoethynolate, Na(OCP). <i>Dalton Transactions</i> , 2014, 43, 831-840.	3.3	138
3	Sodium Phosphoethynolate as a Building Block for Heterocycles. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 1641-1645.	13.8	111
4	(L) $_2$ C $_2$ P $_2$ : Dicarbonyldiphosphide Stabilized by N-Heterocyclic Carbenes or Cyclic Diamido Carbenes. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 5744-5749.	13.8	102
5	Is the phosphoethynolate anion, (OCP) $^-$ , an ambident nucleophile? A spectroscopic and computational study. <i>Dalton Transactions</i> , 2014, 43, 5920.	3.3	96
6	Synthesis and Characterization of Terminal [Re(XCO)(CO) $_2$ (triphos)] (X=N, P): Isocyanate versus Phosphoethynolate Complexes. <i>Chemistry - A European Journal</i> , 2012, 18, 14805-14811.	3.3	94
7	Phosphaketenes as Building Blocks for the Synthesis of Triphospho Heterocycles. <i>Chemistry - A European Journal</i> , 2014, 20, 11326-11330.	3.3	72
8	Isolation of Cyclic(Alkyl)(Amino) Carbene-Bismuthinidene Mediated by a Beryllium(0) Complex. <i>Chemistry - A European Journal</i> , 2019, 25, 4335-4339.	3.3	71
9	N-Heterocyclic Carbenes as Promoters for the Rearrangement of Phosphaketenes to Phosphaheteroallenes: A Case Study for OCP to OPC Constitutional Isomerism. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 6018-6022.	13.8	70
10	Cyclo-oligomerization of isocyanates with Na(PH $_2$ ) or Na(OCP) as $\sigma$ -anion sources. <i>Chemical Science</i> , 2015, 6, 4017-4024.	7.4	64
11	2,4,6-Tri(hydroxy)-1,3,5-triphosphinine, P $_3$ C $_3$ (OH) $_3$ : The Phosphorus Analogue of Cyanuric Acid. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 1356-1360.	13.8	60
12	Redox-Triggered Reversible Interconversion of a Monocyclic and a Bicyclic Phosphorus Heterocycle. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 6757-6761.	13.8	57
13	(L) $_2$ C $_2$ P $_2$ : Dicarbonyldiphosphide Stabilized by N-Heterocyclic Carbenes or Cyclic Diamido Carbenes. <i>Angewandte Chemie</i> , 2017, 129, 5838-5843.	2.0	55
14	Stability of phosphinidenes: Are they synthetically accessible?. <i>Dalton Transactions</i> , 2006, , 4321-4327.	3.3	46
15	N-Heterocyclic Carbenes as Promoters for the Rearrangement of Phosphaketenes to Phosphaheteroallenes: A Case Study for OCP to OPC Constitutional Isomerism. <i>Angewandte Chemie</i> , 2016, 128, 6122-6126.	2.0	46
16	3,4-Dithiophosphole and 3,3',4,4'-Tetrathia-1,1'-biphosphole: Conjugated Systems: S Makes the Impact. <i>Chemistry - A European Journal</i> , 2010, 16, 11340-11356.	3.3	45
17	2,4,6-Tri(hydroxy)-1,3,5-triphosphinine, P $_3$ C $_3$ (OH) $_3$ : The Phosphorus Analogue of Cyanuric Acid. <i>Angewandte Chemie</i> , 2017, 129, 1376-1380.	2.0	39
18	Weak Pnictogen Bond with Bismuth: Experimental Evidence Based on Bi $^{\delta+}$ P Through $\sigma$ -Space Coupling. <i>Chemistry - A European Journal</i> , 2019, 25, 4017-4024.	3.3	39

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19	Annulated 1,3,4-Azadiphospholides: Heterocycles with Widely Tunable Optical Properties. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 11226-11231.	13.8	36
20	The reactivity of acyl chlorides towards sodium phosphoethynolate, Na(OCP): a mechanistic case study. <i>Chemical Science</i> , 2016, 7, 6125-6131.	7.4	32
21	A Convenient Synthesis of 1,2,4- and 1,3,4-Azadiphospholes. <i>Chemistry - A European Journal</i> , 2016, 22, 14979-14987.	3.3	32
22	Spontaneous Phosphorus-Halogen Bond Cleavage in <i>N</i> -Heterocyclic Halogenophosphanes Revisited: The Case of P-Br and P-I Bonds. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2009, 635, 245-252.	1.2	27
23	Extended Phosphepines: Redox and Optically Active P-Heterocycles with Nonplanar Framework. <i>Organic Letters</i> , 2019, 21, 802-806.	4.6	27
24	Pyrido-annellated diazaphospholenes and phospholenium ions. <i>Dalton Transactions</i> , 2008, , 4937.	3.3	24
25	Highly Reactive Cyclic(alkyl)(amino) Carbene- and <i>N</i> -Heterocyclic Carbene-Bismuth(III) Complexes: Synthesis, Structure, and Computations. <i>Inorganic Chemistry</i> , 2018, 57, 11687-11695.	4.0	24
26	Donor-Free Phosphonium-Metal(0)-Halides with Unsymmetrically Bridging Phosphonium Ligands. <i>Inorganic Chemistry</i> , 2013, 52, 7699-7708.	4.0	21
27	Annulated 1,3,4-Azadiphospholides: Heterocycles with Widely Tunable Optical Properties. <i>Angewandte Chemie</i> , 2017, 129, 11378-11383.	2.0	20
28	Synthesis of $P_2C_2O_2$ and $P_2CO$ via NHC-mediated coupling of the phosphoethynolate anion. <i>Chemical Communications</i> , 2017, 53, 12325-12328.	4.1	19
29	An isolable magnesium diphosphoethynolate complex. <i>Dalton Transactions</i> , 2018, 47, 666-669.	3.3	19
30	Tweaking the Charge Transfer: Bonding Analysis of Bismuth(III) Complexes with a Flexidentate Phosphane Ligand. <i>Inorganic Chemistry</i> , 2020, 59, 8916-8924.	4.0	18
31	Naphthyl-Fused Phosphepines: Luminescent Contorted Polycyclic P-Heterocycles. <i>Chemistry - A European Journal</i> , 2020, 26, 1856-1863.	3.3	17
32	Structural and bonding aspects of molybdenum tricarbonyl complexes of 2,4,6-tritertiarybutyl-1,3,5-triphosphabenzene, $P_3C_3But_3$ and some $\lambda^3, \lambda^3, \lambda^5$ - and $\lambda^3, \lambda^5, \lambda^5$ -alkylated derivatives. <i>Comptes Rendus Chimie</i> , 2010, 13, 1063-1072.	0.5	16
33	Substituent effect on the aromaticity of the silolide anion. <i>Structural Chemistry</i> , 2014, 25, 377-387.	2.0	16
34	A Rational Synthetic Approach to 2,5-Diphenyl-2-silyl Phospholes. <i>European Journal of Inorganic Chemistry</i> , 2016, 2016, 718-725.	2.0	15
35	Bismesitoylphosphinic Acid (BAPO-OH): A Ligand for Copper Complexes and Four-Electron Photoreductant for the Preparation of Copper Nanomaterials. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 7697-7702.	13.8	15
36	Indirect Access to Carbene Adducts of Bismuth- and Antimony-Substituted Phosphaketene and Their Unusual Thermal Transformation to Dipnictines and $[(NHC)_2OCP][OCP]$ . <i>Inorganic Chemistry</i> , 2021, 60, 4733-4743.	4.0	15

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37	A Promising Method for Phosphinidene Generation: Complexes of Phosphinidenes with N-Donor ligands. <i>Chemistry - A European Journal</i> , 2008, 14, 902-908.	3.3	14
38	Towards Spontaneous Heterolysis of the Homonuclear $Pi \times P$ Bond in Diphosphines: The Case of Diazaphospholeniumtriphospholides. <i>Chemistry - A European Journal</i> , 2010, 16, 2857-2865.	3.3	14
39	Access to Metal Complexes of the Elusive Imidobis(phosphaalkene) Anion by N-Si Bond Cleavage of a $N \rightarrow Si$ Silylimino-Bridged Bis(phosphaalkene). <i>European Journal of Inorganic Chemistry</i> , 2010, 2010, 29-33.	2.0	13
40	Exceptional Coordination Mode of Unsaturated PNP Ligands $(Me_3Si)_2C=PN(R)PPh_2$ with Palladium and Platinum Dichlorides: Insertion of Phosphaalkene Phosphorus Atoms into Metal-Chlorine Bonds. <i>European Journal of Inorganic Chemistry</i> , 2009, 2009, 2901-2905.	2.0	12
41	Imino-Bridged Bisphosphaalkenes (2,4-Diphospha- $\beta$ -azapentadienes). <i>Chemistry - A European Journal</i> , 2010, 16, 4843-4851.	3.3	12
42	Stereospecific synthesis of chiral P-containing polyaromatics based on 7-membered P-rings. <i>Chemical Communications</i> , 2021, 57, 7256-7259.	4.1	12
43	From 2,4-Diphospha- $\beta$ -thia- and $\beta$ -selenapentadienes $[(Me_3Si)_2C \equiv P]_2E$ to Heteronorborene Cage Compounds. <i>Angewandte Chemie - International Edition</i> , 2007, 46, 8682-8685.	13.8	11
44	Assembly and Disassembly of a Metastable Bis(phosphine)-Based Copper(I) Helicate. <i>Chemistry - A European Journal</i> , 2010, 16, 12091-12095.	3.3	11
45	Di(phosphavinyl) Ethers (2,4-Diphospha-3-oxapentadienes). <i>Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences</i> , 2009, 64, 73-82.	0.7	9
46	Benzo-1,3,2-diazaphospholide and benzo-1,3,2-diazaphospholium: an isoelectronic aromatic anion-cation pair. <i>Chemical Communications</i> , 2009, , 830-832.	4.1	8
47	Nitrogen- and oxygen-bridged bidentate phosphaalkene ligands. <i>Comptes Rendus Chimie</i> , 2010, 13, 1111-1126.	0.5	7
48	Phosphinidene generation from phosphorus heterocycles and cages - A theoretical study. <i>Comptes Rendus Chimie</i> , 2010, 13, 1048-1053.	0.5	5
49	Non-conventional Behavior of a 2,1-Benzazaphosphole: Heterodiene or Hidden Phosphinidene?. <i>Chemistry - A European Journal</i> , 2021, 27, 13149-13160.	3.3	4
50	Dibismuthates as Linking Units for Bis-Zwitterions and Coordination Polymers. <i>Inorganic Chemistry</i> , 2020, 59, 13270-13280.	4.0	3
51	Understanding the Mechanism of Diels-Alder Reactions with Anionic Dienophiles: A Systematic Comparison of $[ECX]^{\sup> \hat{>}}$ (E = P, As; X = O, S, Se) Anions. <i>Inorganic Chemistry</i> , 2022, 61, 7922-7934.	4.0	3
52	$C_nH_{2n}Cl^+$ ion formation in electron impact MS conditions: a theoretical study. <i>Structural Chemistry</i> , 2014, 25, 659-665.	2.0	2
53	1,3,4-Azadiphospholides as building blocks for scorpionate and bidentate ligands in multinuclear complexes. <i>Dalton Transactions</i> , 2020, 49, 8201-8208.	3.3	2
54	Topologically diverse polycyclic aromatic hydrocarbons from pericyclic reactions with polyaromatic phospholes. <i>New Journal of Chemistry</i> , 2021, 45, 8118-8124.	2.8	2

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55	Anionic 1-Aza-3,4-diphospholides as redox active ligands. <i>Inorganica Chimica Acta</i> , 2021, 520, 120274.	2.4	1
56	Frontispiece: Weak Pnictogen Bond with Bismuth: Experimental Evidence Based on Bi <sup>III</sup> -P Through $\sigma$ -Space Coupling. <i>Chemistry - A European Journal</i> , 2019, 25, .	3.3	0
57	Phosphanyl $\sigma$ -Substituted Siloles: Synthesis, Optical and Electrochemical Studies and Computations. <i>European Journal of Inorganic Chemistry</i> , 2020, 2020, 1794-1802.	2.0	0
58	Non $\sigma$ -conventional Behavior of a 2,1 $\sigma$ -Benzazaphosphole: Heterodiene or Hidden Phosphinidene?. <i>Chemistry - A European Journal</i> , 2021, 27, 13096-13097.	3.3	0
59	Limited reciprocal surrogacy of bird and habitat diversity and inconsistencies in their representation in Romanian protected areas. <i>PLoS ONE</i> , 2022, 17, e0251950.	2.5	0