

Abel de CÃ³zar

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Triarylamine Enriched Organostannoxane Drums: Synthesis, Optoelectrochemical Properties, Association Studies, and Gelation Behavior. <i>Inorganic Chemistry</i> , 2022, 61, 4046-4055.	1.9	1
2	Radiationless mechanism of UV deactivation by cuticle phenolics in plants. <i>Nature Communications</i> , 2022, 13, 1786.	5.8	18
3	Does the composition in PtGe clusters play any role in fighting CO poisoning?. <i>Journal of Chemical Physics</i> , 2022, 156, 174301.	1.2	3
4	Probing β -Amino Aldehydes as Weakly Acidic Pronucleophiles: Direct Access to Quaternary β -Amino Aldehydes by an Enantioselective Michael Addition Catalyzed by Brønsted Bases. <i>Chemistry - A European Journal</i> , 2021, 27, 2483-2492.	1.7	7
5	Controlling the molecular arrangement of racemates through weak interactions: the synergy between π -interactions and halogen bonds. <i>Chemical Communications</i> , 2021, 57, 7366-7369.	2.2	5
6	Structure, isomerization and dimerization processes of naringenin flavonoids. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 18068-18077.	1.3	6
7	Synthesis of β -Hydroxy β -Amino Acids Through Brønsted Base-Catalyzed <i>syn</i> -Selective Direct Aldol Reaction of Schiff Bases of Glycine <i>o</i> -Nitroanilide. <i>Journal of Organic Chemistry</i> , 2021, 86, 7757-7772.	1.7	12
8	Doping Platinum with Germanium: An Effective Way to Mitigate the CO Poisoning. <i>ChemPhysChem</i> , 2021, 22, 1603-1610.	1.0	5
9	<i>syn</i> -Selective Michael Reaction of β -Branched Aryl Acetaldehydes with Nitroolefins Promoted by Squaric Amino Acid Derived Bifunctional Brønsted Bases. <i>European Journal of Organic Chemistry</i> , 2021, 2021, 3604-3612.	1.2	4
10	Additive and Emergent Catalytic Properties of Dimeric Unnatural Amino Acid Derivatives: Aldol and Conjugate Additions. <i>Chemistry - A European Journal</i> , 2021, 27, 15671-15687.	1.7	5
11	Nature of Alkali- and Coinage-Metal Bonds versus Hydrogen Bonds. <i>Chemistry - an Asian Journal</i> , 2021, 16, 315-321.	1.7	3
12	Role of imine isomerization in the stereocontrol of the Staudinger reaction between ketenes and imines. <i>RSC Advances</i> , 2021, 12, 104-117.	1.7	1
13	Biological properties and conformational studies of amphiphilic Pd(II) and Ni(II) complexes bearing functionalized aroylamino-carbo- <i>N</i> -thiopyrrolinate units. <i>Beilstein Journal of Organic Chemistry</i> , 2021, 17, 2812-2821.	1.3	3
14	Effect of Remote Substituents on the Torquoselectivity of β -Silyl Cyclobutene Derivatives Ring-Opening Reactions. <i>ChemPhysChem</i> , 2020, 21, 1805-1813.	1.0	0
15	Nitroprolinates as Nucleophiles in Michael-type Additions and Acylations. Synthesis of Enantiomerically Enriched Fused Amino-pyrrolidino-[1,2- <i>a</i>]pyrazinones and δ -diketopiperazines. <i>ChemCatChem</i> , 2020, 12, 2014-2021.	1.8	5
16	Design, synthesis and amplified spontaneous emission of 1,2,5-benzothiadiazole derivatives. <i>Journal of Materials Chemistry C</i> , 2019, 7, 9996-10007.	2.7	21
17	Switching Diastereoselectivity in Catalytic Enantioselective (3+2) Cycloadditions of Azomethine Ylides Promoted by Metal Salts and Privileged Segphos-Derived Ligands. <i>Journal of Organic Chemistry</i> , 2019, 84, 10593-10605.	1.7	29
18	Dismantling the Hyperconjugation of π -Conjugated Phosphorus Heterocycles. <i>Chemistry - A European Journal</i> , 2019, 25, 9035-9044.	1.7	22

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19	From Bioactive Pyrrolidino[3,4-c]pyrrolidines to more Bioactive Pyrrolidino[3,4-b]pyrrolidines via Ring-Opening/Ring-Closing Promoted by Sodium Methoxide. <i>Synthesis</i> , 2019, 51, 1565-1577.	1.2	8
20	Effect of an α -Methyl Substituent on the Dienophile on Diels-Alder <i>endo</i> : <i>exo</i> Selectivity. <i>ChemistryOpen</i> , 2019, 8, 49-57.	0.9	7
21	Cooperative Catalysis with Coupled Chiral Induction in 1,3-Dipolar Cycloadditions of Azomethine Ylides. <i>Chemistry - A European Journal</i> , 2018, 24, 8092-8097.	1.7	12
22	Ion-Pair S_N2 Reaction of OH^- and CH_3Cl : Activation Strain Analyses of Counterion and Solvent Effects. <i>Chemistry - an Asian Journal</i> , 2018, 13, 1138-1147.	1.7	14
23	A Three-Component Enantioselective Cyclization Reaction Catalyzed by an Unnatural Amino Acid Derivative. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 668-672.	7.2	29
24	A Three-Component Enantioselective Cyclization Reaction Catalyzed by an Unnatural Amino Acid Derivative. <i>Angewandte Chemie</i> , 2018, 130, 676-680.	1.6	5
25	Alkaloids Reactivity: DFT Analysis of Selective Demethylation Reactions. <i>Journal of Organic Chemistry</i> , 2018, 83, 15101-15109.	1.7	2
26	Asymmetric identity S_N2 transition states: Nucleophilic substitution at β -substituted carbon and silicon centers. <i>International Journal of Mass Spectrometry</i> , 2017, 413, 85-91.	0.7	16
27	Diastereoselective [3 + 2] vs [4 + 2] Cycloadditions of Nitroprolinates with β,β -Unsaturated Aldehydes and Electrophilic Alkenes: An Example of Total Periselectivity. <i>Journal of Organic Chemistry</i> , 2017, 82, 6298-6312.	1.7	14
28	A Guide for the Design of Functional Polyaromatic Organophosphorus Materials. <i>Chemistry - A European Journal</i> , 2017, 23, 13919-13928.	1.7	41
29	Mono- and Di-alkylation Processes of DNA Bases by Nitrogen Mustard Mechlorethamine. <i>ChemPhysChem</i> , 2017, 18, 3390-3401.	1.0	4
30	Catalysis of a 1,3-dipolar reaction by distorted DNA incorporating a heterobimetallic platinum(II) and copper(I) complex. <i>Chemical Science</i> , 2017, 8, 7038-7046.	3.7	6
31	Intramolecular S_EAr Reactions of Phosphorus Compounds: Computational Approach to the Synthesis of β -Extended Heterocycles. <i>Chemistry - A European Journal</i> , 2017, 23, 17487-17496.	1.7	14
32	A Guide for the Design of Functional Polyaromatic Organophosphorus Materials. <i>Chemistry - A European Journal</i> , 2017, 23, 13818-13818.	1.7	1
33	Frontispiece: Intramolecular S_EAr Reactions of Phosphorus Compounds: Computational Approach to the Synthesis of β -Extended Heterocycles. <i>Chemistry - A European Journal</i> , 2017, 23, .	1.7	0
34	Taniaphos-AgF-catalyzed enantioselective 1,3-dipolar cycloaddition of stabilized azomethine ylides derived from 2,2-dimethoxyacetaldehyde. <i>Tetrahedron</i> , 2016, 72, 6043-6051.	1.0	14
35	Donor-Stabilized 1,3-Disila-2,4-diazacyclobutadiene with a Nonbonded Si...Si Distance Compressed to a Si=Si Double Bond Length. <i>Angewandte Chemie</i> , 2016, 128, 14893-14897.	1.6	1
36	New Insights into the Reactivity of Cisplatin with Free and Restrained Nucleophiles: Microsolvation Effects and Base Selectivity in Cisplatin-DNA Interactions. <i>ChemPhysChem</i> , 2016, 17, 3932-3947.	1.0	10

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37	Alkenyl Arenes as Dipolarophiles in Catalytic Asymmetric 1,3-Dipolar Cycloaddition Reactions of Azomethine Ylides. <i>Angewandte Chemie</i> , 2016, 128, 15560-15564.	1.6	19
38	Alkenyl Arenes as Dipolarophiles in Catalytic Asymmetric 1,3-Dipolar Cycloaddition Reactions of Azomethine Ylides. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 15334-15338.	7.2	73
39	Donor-Stabilized 1,3-Disila-2,4-diazacyclobutadiene with a Nonbonded Si...Si Distance Compressed to a Si=Si Double Bond Length. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 14673-14677.	7.2	9
40	Ion-Pair S _N 2 Substitution: Activation Strain Analyses of Counterion and Solvent Effects. <i>Chemistry - A European Journal</i> , 2016, 22, 4431-4439.	1.7	30
41	Enantioselective Synthesis of Polysubstituted Spiro-nitroprolinates Mediated by a (R,R)-Me-DuPhos-AgF-Catalyzed 1,3-Dipolar Cycloaddition. <i>Organic Letters</i> , 2016, 18, 2926-2929.	2.4	41
42	Cyclopropanation reactions catalysed by dendrimers possessing one metalloporphyrin active site at the core: linear and sigmoidal kinetic behaviour for different dendrimer generations. <i>Tetrahedron</i> , 2016, 72, 1120-1131.	1.0	14
43	Synthesis of Chromen[4,3- <i>ij</i>]pyrrolidines by Intramolecular 1,3-Dipolar Cycloadditions of Azomethine Ylides: An Experimental and Computational Assessment of the Origin of Stereocontrol. <i>European Journal of Organic Chemistry</i> , 2015, 2015, 4689-4698.	1.2	17
44	Remote Substituent Effects on the Stereoselectivity and Organocatalytic Activity of Densely Substituted Unnatural Proline Esters in Aldol Reactions. <i>European Journal of Organic Chemistry</i> , 2015, 2015, 2503-2516.	1.2	23
45	Resonance driven regioselective demethylation of berberine. Microwave assisted synthesis of berberrubine and its assessment as fluorescent chemosensor for alkanes. <i>Tetrahedron</i> , 2015, 71, 6148-6154.	1.0	12
46	Synthesis of radiolabelled aryl azides from diazonium salts: experimental and computational results permit the identification of the preferred mechanism. <i>Chemical Communications</i> , 2015, 51, 8954-8957.	2.2	18
47	Enantioselective Synthesis of <i>exo</i> -4-Nitroprolinates from Nitroalkenes and Azomethine Ylides Catalyzed by Chiral Phosphoramidite-Silver(I) or Copper(II) Complexes. <i>Synthesis</i> , 2015, 47, 934-943.	1.2	23
48	Regio and diastereoselective multicomponent 1,3-dipolar cycloadditions between proline hydrochlorides, aldehydes and dipolarophiles for the direct synthesis of pyrrolizidines. <i>Tetrahedron</i> , 2015, 71, 9645-9661.	1.0	15
49	Azobenzene-Appended Bis-Cyclometalated Iridium(III) Bipyridyl Complexes. <i>Organometallics</i> , 2015, 34, 5513-5529.	1.1	25
50	Is it possible to achieve a complete desaturation of cycloalkanes promoted by <i>o</i> -benzyne?. <i>Chemical Communications</i> , 2015, 51, 5302-5305.	2.2	4
51	Azobenzene-functionalized iridium(III) triscyclometalated complexes. <i>Dalton Transactions</i> , 2015, 44, 2075-2091.	1.6	28
52	Stereodivergent Synthesis of Chiral Fullerenes by [3 + 2] Cycloadditions to C ₆₀ . <i>Journal of the American Chemical Society</i> , 2014, 136, 705-712.	6.6	93
53	Efficient Diastereo- and Enantioselective Synthesis of <i>exo</i> -Nitroprolinates by 1,3-Dipolar Cycloadditions Catalyzed by Chiral Phosphoramidite-Silver(I) Complexes. <i>Advanced Synthesis and Catalysis</i> , 2014, 356, 3861-3870.	2.1	28
54	Aggregation and Cooperative Effects in the Aldol Reactions of Lithium Enolates. <i>Chemistry - A European Journal</i> , 2013, 19, 13761-13773.	1.7	17

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55	Size and branching effects on the fluorescence of benzylic dendrimers possessing one apigenin fluorophore at the core. <i>Tetrahedron</i> , 2013, 69, 10361-10368.	1.0	2
56	Stereodivergent S _N 2@P Reactions of Borane Oxazaphospholidines: Experimental and Theoretical Studies. <i>Journal of the American Chemical Society</i> , 2013, 135, 4483-4491.	6.6	48
57	Phosphoramidite-Cu(OTf) ₂ Complexes as Chiral Catalysts for 1,3-Dipolar Cycloaddition of Iminoesters and Nitroalkenes. <i>Organic Letters</i> , 2013, 15, 2902-2905.	2.4	64
58	Computational Chemistry; A Useful Tool for the Chemical Synthesis of Complex Molecules, Heterocycles and Catalysts. <i>Synlett</i> , 2013, 24, 535-549.	1.0	10
59	Synthetic scope and DFT analysis of the chiral binap-gold(I) complex-catalyzed 1,3-dipolar cycloaddition of azlactones with alkenes. <i>Beilstein Journal of Organic Chemistry</i> , 2013, 9, 2422-2433.	1.3	7
60	An Amine-Catalyzed Enantioselective [3+2] Cycloaddition of Azomethine Ylides and α,β -Unsaturated Aldehydes: Applications and Mechanistic Implications. <i>Chemistry - A European Journal</i> , 2012, 18, 7179-7188.	1.7	58
61	Densely substituted unnatural l- and d-prolines as catalysts for highly enantioselective stereodivergent (3 + 2) cycloadditions and aldol reactions. <i>Chemical Science</i> , 2012, 3, 1486.	3.7	86
62	Synthesis and characterization of metallodendritic palladium-biscarbene complexes derived from 1,1- ϵ^2 -methylenebis(1,2,4-triazole). <i>Dalton Transactions</i> , 2011, 40, 4095.	1.6	20
63	Stereocontrolled (3+2) cycloadditions between azomethine ylides and dipolarophiles: a fruitful interplay between theory and experiment. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 10858.	1.3	55
64	Synthesis and Reactivity of a Phosphine-Stabilized Monogermanium Analogue of Alkynes. <i>Journal of the American Chemical Society</i> , 2011, 133, 15930-15933.	6.6	46
65	Chiral gold(I) vs chiral silver complexes as catalysts for the enantioselective synthesis of the second generation GSK-hepatitis C virus inhibitor. <i>Beilstein Journal of Organic Chemistry</i> , 2011, 7, 988-996.	1.3	29
66	Influence of Polarity on the Scalability and Reproducibility of Solvent-Free Microwave-Assisted Reactions. <i>Combinatorial Chemistry and High Throughput Screening</i> , 2011, 14, 109-116.	0.6	12
67	Cyclic Electron Delocalization in Pericyclic Reactions. <i>Current Organic Chemistry</i> , 2011, 15, 3594-3608.	0.9	18
68	Synthesis of a Stable Disilyne Bisphosphine Adduct and Its Non-Metal-Mediated CO ₂ Reduction to CO. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 1092-1096.	7.2	122
69	Hierarchical Selectivity in Fullerenes: Site-, Regio-, Diastereo-, and Enantiocontrol of the 1,3-Dipolar Cycloaddition to C ₇₀ . <i>Angewandte Chemie - International Edition</i> , 2011, 50, 6060-6064.	7.2	80
70	Inside Cover: Hierarchical Selectivity in Fullerenes: Site-, Regio-, Diastereo-, and Enantiocontrol of the 1,3-Dipolar Cycloaddition to C ₇₀ (<i>Angew. Chem. Int. Ed.</i> 27/2011). <i>Angewandte Chemie - International Edition</i> , 2011, 50, 5974-5974.	7.2	0
71	Reversible Binding of Ethylene to Silylene-Phosphine Complexes at Room Temperature. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 10414-10416.	7.2	94
72	Binap-Gold(I) versus Binap-Silver Trifluoroacetate Complexes as Catalysts in 1,3-Dipolar Cycloadditions of Azomethine Ylides. <i>Chemistry - A European Journal</i> , 2011, 17, 14224-14233.	1.7	45

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73	Concerted and Stepwise Mechanisms in Metal-Free and Metal-Assisted [4+3] Cycloadditions Involving Allyl Cations. <i>Chemistry - A European Journal</i> , 2010, 16, 12147-12157.	1.7	53
74	Synthesis and Structure of a Base-Stabilized C-Phosphino-Si-Amino Silyne. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 6585-6588.	7.2	91
75	Microwave-Assisted Stille Reactions as a Powerful Tool for Building Polyheteroaryl Systems Bearing a (1H)-1,2,4-Triazole Moiety. <i>Synlett</i> , 2010, 2010, 55-60.	1.0	4
76	A Cationic Rh(III) Complex That Efficiently Catalyzes Hydrogen Isotope Exchange in Hydrosilanes. <i>Journal of the American Chemical Society</i> , 2010, 132, 16765-16767.	6.6	60
77	Computational calculations in microwave-assisted organic synthesis (MAOS). Application to cycloaddition reactions. <i>Organic and Biomolecular Chemistry</i> , 2010, 8, 1000.	1.5	37
78	Microwave-Controlled Preparation of Alkenyl-(1H)-1,2,4-triazoles: First Heck Reaction on a (1H)-1,2,4-Triazole Moiety. <i>Australian Journal of Chemistry</i> , 2009, 62, 1600.	0.5	3
79	Synthesis of Prolines by Enantioselective 1,3-Dipolar Cycloaddition of Azomethine Ylides and Alkenes Catalyzed by Chiral Phosphoramidite-Silver(I) Complexes. <i>European Journal of Organic Chemistry</i> , 2009, 2009, 5622-5634.	1.2	61
80	Microwave-assisted reactions of nitroheterocycles with dienes. Diels-Alder and tandem hetero Diels-Alder/[3,3] sigmatropic shift. <i>Tetrahedron</i> , 2009, 65, 5328-5336.	1.0	53
81	Selectivity under microwave irradiation. Benzylolation of 2-pyridone: an experimental and theoretical study. <i>Tetrahedron</i> , 2008, 64, 8169-8176.	1.0	24
82	Enantioselective synthesis of polysubstituted prolines by Binap-silver-catalyzed 1,3-dipolar cycloadditions. <i>Tetrahedron: Asymmetry</i> , 2008, 19, 2913-2923.	1.8	60
83	Diels-Alder Reaction of Triazoles with DMAD Catalyzed by Silica-Bound AlCl ₃ . <i>Synfacts</i> , 2007, 2007, 0218-0218.	0.0	0
84	On the Stereodivergent Behavior Observed in the Staudinger Reaction between Methoxyketene and (E)-N-Benzylidenearyl Amines. <i>Angewandte Chemie - International Edition</i> , 2007, 46, 3028-3032.	7.2	44
85	Diastereoselective 1,3-Dipolar Cycloaddition Reactions between Azomethine Ylides and Chiral Acrylates Derived from Methyl-S- and R-Lactate - Synthesis of Hepatitis C Virus RNA-Dependent RNA Polymerase Inhibitors. <i>European Journal of Organic Chemistry</i> , 2007, 2007, 5038-5049.	1.2	39
86	Recyclable supported catalysts in microwave-assisted reactions: first Diels-Alder cycloaddition of a triazole ring. <i>Tetrahedron Letters</i> , 2006, 47, 8761-8764.	0.7	27