

Fernando Pedro Cossio Mora

List of Publications by Year in descending order

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citations

31902

53
h-index

71532

76
g-index

263
all docs

263
docs citations

263
times ranked

6177
citing authors

#	ARTICLE	IF	CITATIONS
1	In-Plane Aromaticity in 1,3-Dipolar Cycloadditions. Solvent Effects, Selectivity, and Nucleus-Independent Chemical Shifts. <i>Journal of the American Chemical Society</i> , 1999, 121, 6737-6746.	6.6	222
2	The Mechanism of the Ketene~Imine (Staudinger) Reaction in Its Centennial: Still an Unsolved Problem?. <i>Accounts of Chemical Research</i> , 2008, 41, 925-936.	7.6	188
3	Dyotropic Reactions: Mechanisms and Synthetic Applications. <i>Chemical Reviews</i> , 2009, 109, 6687-6711.	23.0	163
4	A semiempirical theoretical study on the formation of .beta.-lactams from ketenes and imines. <i>Journal of the American Chemical Society</i> , 1993, 115, 995-1004.	6.6	152
5	An Activated Equivalent of Lactide toward Organocatalytic Ring-Opening Polymerization. <i>Journal of the American Chemical Society</i> , 2006, 128, 16442-16443.	6.6	132
6	In-Plane Aromaticity in 1,3-Dipolar Cycloadditions. <i>Journal of Organic Chemistry</i> , 1997, 62, 7033-7036.	1.7	131
7	Aromaticity in transition structures. <i>Chemical Society Reviews</i> , 2014, 43, 4909-4921.	18.7	124
8	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
9	Cu~Fesulphos complexes: efficient chiral catalysts for asymmetric 1,3-dipolar cycloaddition of azomethine ylides. <i>Tetrahedron</i> , 2007, 63, 6587-6602.	1.0	119
10	Catalytic and Solvent Effects on the Cycloaddition Reaction between Ketenes and Carbonyl Compounds To Form 2-Oxetanones. <i>Journal of the American Chemical Society</i> , 1994, 116, 9613-9619.	6.6	113
11	Monomer versus Alcohol Activation in the 4-Dimethylaminopyridine~Catalyzed Ring~Opening Polymerization of Lactide and Lactic <i>O</i>~Carboxylic Anhydride. <i>Chemistry - A European Journal</i> , 2008, 14, 5304-5312.	1.7	108
12	Origins of the Loss of Concertedness in Pericyclic Reactions:~Theoretical Prediction and Direct Observation of Stepwise Mechanisms in [3 + 2] Thermal Cycloadditions. <i>Journal of the American Chemical Society</i> , 2000, 122, 6078-6092.	6.6	107
13	Chiral Control in the Staudinger Reaction between Ketenes and Imines. A Theoretical SCF-MO Study on Asymmetric Torquoselectivity. <i>Journal of the American Chemical Society</i> , 1994, 116, 2085-2093.	6.6	104
14	Origins of the Stereodivergent Outcome in the Staudinger Reaction between Acyl Chlorides and Imines. <i>Journal of Organic Chemistry</i> , 1998, 63, 5869-5876.	1.7	104
15	Stereocontrolled Synthesis of Highly Substituted Proline Esters via [3 + 2] Cycloaddition between N-Metalated Azomethine Ylides and Nitroalkenes. Origins of the Metal Effect on the Stereochemical Outcome. <i>Journal of Organic Chemistry</i> , 1998, 63, 1795-1805.	1.7	104
16	A Simple Ring Current Model for Describing In-Plane Aromaticity in Pericyclic Reactions. <i>Journal of Organic Chemistry</i> , 1999, 64, 1868-1874.	1.7	103
17	Reversible Binding of Ethylene to Silylene~Phosphine Complexes at Room Temperature. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 10414-10416.	7.2	94
18	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

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19	Highly stereoselective synthesis of $\hat{1}\pm$ -hydroxy $\hat{1}^2$ -amino acids through $\hat{1}^2$ -lactams: application to the synthesis of the taxol and bestatin side chains and related systems.. Tetrahedron Letters, 1990, 31, 6429-6432.	0.7	91
20	Contribution to the development of new substitution patterns of optically active .beta.-lactams: synthesis of homochiral 4-(1-aminoalkyl)azetidin-2-ones from N-(tert-butyloxycarbonyl) .alpha.-amino aldehyde-derived imines via asymmetric Staudinger reaction. Journal of the American Chemical Society, 1992, 114, 9360-9369.	6.6	91
21	Synthesis and Structure of a Base-stabilized $\langle i \rangle C \langle /i \rangle$ -Phosphino- $\langle i \rangle Si \langle /i \rangle$ -Amino Silyne. Angewandte Chemie - International Edition, 2010, 49, 6585-6588.	7.2	91
22	Aromaticity and Activation Strain Analysis of [3 + 2] Cycloaddition Reactions between Group 14 Heteroallenes and Triple Bonds. Journal of Organic Chemistry, 2011, 76, 2310-2314.	1.7	86
23	Densely substituted unnatural l- and d-prolines as catalysts for highly enantioselective stereodivergent (3 + 2) cycloadditions and aldol reactions. Chemical Science, 2012, 3, 1486.	3.7	86
24	Solvent-Free Thermal and Microwave-Assisted [3 + 2] Cycloadditions between Stabilized Azomethine Ylides and Nitrostyrenes. An Experimental and Theoretical Study. Journal of Organic Chemistry, 2007, 72, 4313-4322.	1.7	85
25	Modification of Regioselectivity in Cycloadditions to C70 under Microwave Irradiation. Journal of Organic Chemistry, 2000, 65, 2499-2507.	1.7	84
26	On the Aromatic Character of Electrocyclic and Pseudopericyclic Reactions: Thermal Cyclization of (2Z)-Hexa-2,4,5-trienals and Their Schiff Bases. Angewandte Chemie - International Edition, 2001, 40, 557-561.	7.2	84
27	Ring-Opening Polymerization of δ -Lactide Initiated by (2-Methacryloxy)ethoxy- γ -Aluminum Trialkoxides. 1. Kinetics. Macromolecules, 1999, 32, 8252-8258.	2.2	81
28	Hierarchical Selectivity in Fullerenes: Site-, Regio-, Diastereo-, and Enantiocontrol of the 1,3-dipolar Cycloaddition to C_{70} . Angewandte Chemie - International Edition, 2011, 50, 6060-6064.	7.2	80
29	Type-I Dyotropic Reactions: Understanding Trends in Barriers. Chemistry - A European Journal, 2012, 18, 12395-12403.	1.7	79
30	Double Group Transfer Reactions: Role of Activation Strain and Aromaticity in Reaction Barriers. Chemistry - A European Journal, 2009, 15, 13022-13032.	1.7	76
31	Efficient tautomerization hydrazone-azomethine imine under microwave irradiation. Synthesis of [4,3- Δ^2] and [5,3- Δ^2]bipyrazoles. Tetrahedron, 1998, 54, 13167-13180.	1.0	75
32	Alkenyl Arenes as Dipolarophiles in Catalytic Asymmetric 1,3-dipolar Cycloaddition Reactions of Azomethine Ylides. Angewandte Chemie - International Edition, 2016, 55, 15334-15338.	7.2	73
33	Ellipticity: A Convenient Tool To Characterize Electrocyclic Reactions. Chemistry - A European Journal, 2005, 11, 1734-1738.	1.7	71
34	Photochemistry of Group 6 Fischer Carbene Complexes: Beyond the Photocarbonylation Reaction. Accounts of Chemical Research, 2011, 44, 479-490.	7.6	70
35	A Theoretical-Experimental Approach to the Mechanism of the Photocarbonylation of Chromium(0) (Fischer)-Carbene Complexes and Their Reaction with Imines. Journal of the American Chemical Society, 2000, 122, 11509-11510.	6.6	69
36	Enantioselective Ring-Opening Polymerization of $\langle i \rangle rac \langle /i \rangle$ -Lactide Dictated by Densely Substituted Amino Acids. Journal of the American Chemical Society, 2017, 139, 4805-4814.	6.6	69

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37	On the Stereochemical Outcome of the Catalyzed and Uncatalyzed Cycloaddition Reaction between Activated Ketenes and Aldehydes to form cis- and trans-2-Oxetanones. An ab Initio Study. <i>Journal of the American Chemical Society</i> , 1995, 117, 12314-12321.	6.6	68
38	Direct Evaluation of Secondary Orbital Interactions in the Diels-Alder Reaction between Cyclopentadiene and Maleic Anhydride. <i>Journal of Organic Chemistry</i> , 2001, 66, 6178-6180.	1.7	68
39	Tandem [8 + 2] Cycloaddition/[2 + 6 + 2] Dehydrogenation Reactions Involving Imidazo[1,2- <i>a</i>]pyridines and Imidazo[1,2- <i>a</i>]pyrimidines. <i>Journal of Organic Chemistry</i> , 2010, 75, 2776-2784.	1.7	66
40	Stable Phosphonium Sila-ylide with Reactivity as a Sila-Wittig Reagent. <i>Journal of the American Chemical Society</i> , 2009, 131, 8762-8763.	6.6	65
41	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
42	Relevance of the DFT method to study expanded porphyrins with different topologies. <i>Journal of Computational Chemistry</i> , 2017, 38, 2819-2828.	1.5	64
43	Application of Stereocontrolled Stepwise [3+2] Cycloadditions to the Preparation of Inhibitors of α 4 β 1-Integrin-Mediated Hepatic Melanoma Metastasis. <i>Angewandte Chemie - International Edition</i> , 2005, 44, 2903-2907.	7.2	63
44	Mechanism and Stereoselectivity of the Aza-Wittig Reaction between Phosphazenes and Aldehydes. <i>Journal of Organic Chemistry</i> , 2006, 71, 2839-2847.	1.7	63

45

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55	Structure and Conformations of Heteroatom-Substituted Free Carbenes and Their Group 6 Transition Metal Analogues. <i>Organometallics</i> , 2004, 23, 1065-1071.	1.1	53
56	Encapsulated Nâ€Heterocyclic Carbenes in Silicones without Reactivity Modification. <i>Angewandte Chemie - International Edition</i> , 2007, 46, 8632-8635.	7.2	53
57	Microwave-assisted reactions of nitroheterocycles with dienes. Dielsâ€Alder and tandem hetero Dielsâ€Alder/[3,3] sigmatropic shift. <i>Tetrahedron</i> , 2009, 65, 5328-5336.	1.0	53
58	Concerted and Stepwise Mechanisms in Metalâ€Free and Metalâ€Assisted [4+3] Cycloadditions Involving Allyl Cations. <i>Chemistry - A European Journal</i> , 2010, 16, 12147-12157.	1.7	53
59	Computational and experimental tools in solving some mechanistic problems in the chemistry of Fischer carbene complexes. <i>Chemical Communications</i> , 2008, , 4671.	2.2	51
60	Lewis Acid Activated Azaâ€Dielsâ€Alder Reaction of <i>N</i> -(3â€Pyridyl)aldimines: An Experimental and Computational Study. <i>European Journal of Organic Chemistry</i> , 2010, 2010, 2091-2099.	1.2	51
61	Reagents and synthetic methods. Part 67. Preparation of 4-unsubstituted .beta.-lactams from 4-acetoxazetidin-2-ones. A formal approach to monobactams and nocardicins. <i>Journal of Organic Chemistry</i> , 1988, 53, 3784-3791.	1.7	46
62	Solvent and Substituent Effects in the Periselectivity of the Staudinger Reaction between Ketenes and Î±,Î²-Unsaturated Imines. A Theoretical and Experimental Study. <i>Journal of Organic Chemistry</i> , 1996, 61, 3070-3079.	1.7	46
63	DFT Study on the Dielsâ€Alder Cycloaddition between Alkenylâ€M(O) (M = Cr, W) Carbene Complexes and Neutral 1,3-Dienes. <i>Journal of Organic Chemistry</i> , 2008, 73, 2083-2089.	1.7	46
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	Enantiodivergent Synthesis of Bis-Spiropyrrolidines via Sequential Interrupted and Completed (3 + 2) Cycloadditions. <i>Journal of Organic Chemistry</i> , 2015, 80, 11755-11767.	1.7	46
66	The Reformatskii type reaction of Gilman and Speeter in the preparation of valuable .beta.-lactams in carbapenem synthesis: scope and synthetic utility. <i>Journal of Organic Chemistry</i> , 1989, 54, 5736-5745.	1.7	45
67	Enhancement of Fluorescence in Thin-Layer Chromatography Induced by the Interaction between n-Alkanes and an Organic Cation. <i>Analytical Chemistry</i> , 2000, 72, 1759-1766.	3.2	45
68	Nucleophilic Silylenoid Character of Stable Phosphonium Silaâ€ylides. <i>Chemistry - A European Journal</i> , 2010, 16, 8255-8258.	1.7	45
69	Binapâ€Gold(I) versus Binapâ€Silver Trifluoroacetate Complexes as Catalysts in 1,3â€Dipolar Cycloadditions of Azomethine Ylides. <i>Chemistry - A European Journal</i> , 2011, 17, 14224-14233.	1.7	45
70	Regioselective Preparation of Benzo[<i>b</i>]furans from Phenols and Î±-Bromoketones. <i>Journal of Organic Chemistry</i> , 2012, 77, 266-275.	1.7	45
71	4M lithium perchlorate-nitromethane: An efficient solvent in Diels-Alder reactions using nitroalkenes as dienophiles. <i>Tetrahedron Letters</i> , 1995, 36, 4447-4450.	0.7	44
72	Mechanism of the Generation of Ketenimineâ€M(CO) _n Complexes (M = Cr, W, Fe) from Fischer Carbenes and Isocyanides. <i>Organometallics</i> , 2007, 26, 3010-3017.	1.1	44

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73	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
74	Surpassing Torquoelectronic Effects in Conrotatory Ring Closures: Origins of Stereocontrol in Intramolecular Ketenimine-Imine [2+2] Cycloadditions. <i>Chemistry - A European Journal</i> , 1999, 5, 1106-1117.	1.7	43
75	Effect of the Metal Fragment in the Thermal Cycloaddition between Alkynyl Metal(0) Fischer Carbene Complexes and Nitrones. <i>Journal of Organic Chemistry</i> , 2006, 71, 6178-6184.	1.7	43
76	On the Mechanism of Conversion of N-Acyl-4-acyloxy- $\hat{1}^2$ -lactams into 2-Substituted 1,3-Oxazin-6-ones. Can a Low-Barrier Transition State Be Antiaromatic?. <i>Journal of Organic Chemistry</i> , 2001, 66, 8470-8477.	1.7	42
77	Reaction of N-Vinyl Phosphazenes with $\hat{1}^{\pm}, \hat{1}^2$ -Unsaturated Aldehydes. Azatriene-Mediated Synthesis of Dihydropyridines and Pyridines Derived from $\hat{1}^2$ -Amino Acids. <i>Journal of Organic Chemistry</i> , 2006, 71, 6020-6030.	1.7	42
78	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
79	Highly stereocontrolled synthesis of substituted propiolactones and butyrolactones from achiral lithium enolates and homociral aldehydes. <i>Tetrahedron Letters</i> , 1996, 37, 245-248.	0.7	40
80	Computational and Experimental Studies on the Mechanism of the Photochemical Carbonylation of Group 6 Fischer Carbene Complexes. <i>Chemistry - A European Journal</i> , 2005, 11, 5988-5996.	1.7	40
81	Regiochemistry of the microwave-assisted reaction between aromatic amines and $\hat{1}^{\pm}$ -bromoketones to yield substituted 1H-indoles. <i>Organic and Biomolecular Chemistry</i> , 2008, 6, 1763.	1.5	40
82	Densely Substituted L-Proline Esters as Catalysts for Asymmetric Michael Additions of Ketones to Nitroalkenes. <i>Journal of Organic Chemistry</i> , 2015, 80, 5588-5599.	1.7	40
83	Substituent and Solvent Effects in the [2 + 2] Cycloaddition Reaction between Olefins and Isocyanates. <i>Journal of the American Chemical Society</i> , 1995, 117, 12306-12313.	6.6	39
84	Highly Efficient Induction of Chirality in Intramolecular [2 + 2] Cycloadditions between Ketenimines and Imines. <i>Journal of Organic Chemistry</i> , 2000, 65, 3633-3643.	1.7	39
85	On the Affinity Regulation of the Metal-Ion-Dependent Adhesion Sites in Integrins. <i>Journal of the American Chemical Society</i> , 2006, 128, 3554-3563.	6.6	39
86	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
87	Formation of $\hat{1}^3$ -Oxoacids and 1-H-Pyrrol-2(5-H)-ones from $\hat{1}^{\pm}, \hat{1}^2$ -Unsaturated Ketones and Ethyl Nitroacetate. <i>Journal of Organic Chemistry</i> , 2010, 75, 7435-7438.	1.7	39
88	Preparation of 3-alkyl .beta.-lactams via the ketene imine cycloaddition reaction using .alpha.-(phenylthio)alkanoyl halides as starting materials: application to the synthesis of (.+.)-carbapenem building blocks and related compounds. <i>Journal of Organic Chemistry</i> , 1991, 56, 4418-4428.	1.7	38
89	Trans-Stereoselectivity in the Reaction between Homophthalic Anhydride and Imines. <i>Organic Letters</i> , 2008, 10, 4759-4762.	2.4	38
90	Towards a more precise therapy in cancer: Exploring epigenetic complexity. <i>Current Opinion in Chemical Biology</i> , 2020, 57, 41-49.	2.8	38

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91	New Insights on the Origins of the Stereocontrol of the Staudinger Reaction: $[2 + 2]$ Cycloaddition between Ketenes and N-Silylimines. <i>Journal of Organic Chemistry</i> , 2000, 65, 8458-8464.	1.7	37
92	Light-Induced Aminocarbene to Imine Dyotropic Rearrangement in a Chromium(0) Center: An Unprecedented Reaction Pathway. <i>Journal of the American Chemical Society</i> , 2003, 125, 9572-9573.	6.6	37
93	Stereoelectronic Effects on Type I 1,2-Dyotropic Rearrangements in Vicinal Dibromides. <i>Chemistry - A European Journal</i> , 2006, 12, 6323-6330.	1.7	37
94	Computational calculations in microwave-assisted organic synthesis (MAOS). Application to cycloaddition reactions. <i>Organic and Biomolecular Chemistry</i> , 2010, 8, 1000.	1.5	37
95	N,N-Dimethylphosphoramidic dichloride: a convenient reagent for the preparation of β -lactams from acetic acids and imines. <i>Tetrahedron Letters</i> , 1987, 28, 1945-1948.	0.7	36
96	Preparation of chiral 3-unsubstituted β -lactams from 3-hydroxy β -lactams by using the alkoxyketene-imine cycloaddition reaction as an approach to the azetidinone ring: A formal synthesis of the carbapenem antibiotic (+)-PS-5. <i>Tetrahedron Letters</i> , 1991, 32, 3105-3108.	0.7	35
97	New Stereoselective Intramolecular $[2 + 2]$ Cycloadditions between Ketenimines and Imines on an ortho-Benzyl Scaffold: 1,4-Asymmetric Induction. <i>Journal of Organic Chemistry</i> , 2000, 65, 7512-7515.	1.7	35
98	Ab Initio Models for the Nitroaldol (Henry) Reaction. <i>Chemistry - A European Journal</i> , 1997, 3, 20-28.	1.7	34
99	Quantitative Evaluation of the Catalytic Activity of Dendrimers with Only One Active Center at the Core: Application to the Nitroaldol (Henry) Reaction. <i>Journal of the American Chemical Society</i> , 2004, 126, 5243-5252.	6.6	34
100	Syntheses of β -lactams from acetic acids and imines induced by phenyl dichlorophosphate reagent. <i>Tetrahedron</i> , 1985, 41, 1703-1712.	1.0	33
101	Competitive Mechanisms and Origins of Stereocontrol in the $[2 + 2]$ Thermal Cycloaddition between Imines and Keteniminium Cations. A Complementary Entry to 2-Azetidinones (β -Lactams) and Related Compounds. <i>Journal of Organic Chemistry</i> , 1999, 64, 1831-1842.	1.7	33
102	Organocatalysts Derived from Unnatural β -Amino Acids: Scope and Applications. <i>Chemistry - an Asian Journal</i> , 2019, 14, 44-66.	1.7	32
103	Tributyltin hydride addition to nitroalkenes: a convenient procedure for the conversion of nitroalkenes into nitroalkanes and carbonyl compounds. <i>Journal of Organic Chemistry</i> , 1990, 55, 2070-2078.	1.7	31
104	Role of the isomerization pathways in the Staudinger reaction. A theoretical study on the interaction between activated ketenes and imidates. <i>Tetrahedron Letters</i> , 1994, 35, 4465-4468.	0.7	31
105	Berberine Cation: A Fluorescent Chemosensor for Alkanes and Other Low-Polarity Compounds. An Explanation of This Phenomenon. <i>Organic Letters</i> , 2000, 2, 2311-2313.	2.4	30
106	Cyclic Carbodiphosphorane \rightleftharpoons Diphosphinocarbene Thermal Interconversion. <i>Angewandte Chemie - International Edition</i> , 2006, 45, 7447-7450.	7.2	30
107	Deeper Insight into the Mechanism of the Reaction of Photogenerated Metallaketenes and Imines. <i>Journal of the American Chemical Society</i> , 2008, 130, 13892-13899.	6.6	30
108	Synthetic applications of chromium(VI) reagents in combination with chlorotrimethylsilane. <i>Canadian Journal of Chemistry</i> , 1986, 64, 225-231.	0.6	29

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109	Theoretical Study on the Mechanism of the [2 + 1] Thermal Cycloaddition between Alkenes and Stable Singlet (Phosphino)(silyl)carbenes. <i>Journal of Organic Chemistry</i> , 2007, 72, 357-366.	1.7	29
110	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
111	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
112	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
113	New stereochemical outcomes in the cycloaddition of acid halides or equivalents to cinnamylideneamines: A concise new approach to 4-acetoxyazetidines. <i>Tetrahedron Letters</i> , 1986, 27, 4359-4362.	0.7	28
114	Synthetic utility of azetidine-2,3-diones: a new approach to 3-hydroxyethyl- β -lactams and α -amino acid derivatives. <i>Tetrahedron Letters</i> , 1988, 29, 3133-3136.	0.7	28
115	Structural and Solvent Effects on the Mechanism of the Thermal Decarboxylation of 2-Oxetanones. A Limiting Case between Concerted and Stepwise Pathways in Pericyclic Reactions. <i>Journal of the American Chemical Society</i> , 1997, 119, 816-825.	6.6	28
116	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
117	Pyridine assisted oxidations of alcohols to carbonyl compounds by means of 3-carboxypyridinium dichromate (ndc) reagent. <i>Tetrahedron</i> , 1987, 43, 3963-3974.	1.0	27
118	Asymmetric synthesis of monocyclic β -lactams: application of imines derived from chiral N-protected α -amino aldehydes in the Staudinger reaction. <i>Tetrahedron Letters</i> , 1991, 32, 3109-3110.	0.7	27
119	Stereoselectivity, Different Oxidation States, and Multiple Spin States in the Cyclopropanation of Olefins Catalyzed by Fe-Porphyrin Complexes. <i>ACS Catalysis</i> , 2018, 8, 11140-11153.	5.5	27
120	Stepwise Mechanism for the Bromination of Arenes by a Hypervalent Iodine Reagent. <i>Journal of Organic Chemistry</i> , 2020, 85, 2142-2150.	1.7	27
121	[4+3] versus [4+2] Mechanisms in the Dimerization of 2-Boryl-1,3-butadienes. A Theoretical and Experimental Study. <i>Journal of Organic Chemistry</i> , 2002, 67, 9153-9161.	1.7	26
122	Substituent Effects in Eight-Electron Electrocyclic Reactions. <i>Journal of Organic Chemistry</i> , 2005, 70, 1035-1041.	1.7	26
123	Alkyl(phenylthio)ketenes as synthetic equivalents of monoalkylketenes: A concise general route to 3-alkyl β -lactams as carbapenem building-blocks. <i>Tetrahedron Letters</i> , 1989, 30, 4577-4580.	0.7	25
124	An ab initio study on the mechanism of the alkene-isocyanate cycloaddition reaction to form β -lactams. <i>Journal of the Chemical Society Chemical Communications</i> , 1993, , 1450-1452.	2.0	25
125	Solvent Effects on the Conformer Distribution of 2-Methoxypropanal and Chloroacetaldehyde. A Model Case for the Conformational Analysis in Solution of Chiral Aldehydes Including Polar Groups. <i>Journal of Organic Chemistry</i> , 1997, 62, 6485-6492.	1.7	25
126	The Photochemical Reactivity of the σ -Photo-Inert Tungsten (Fischer) Carbene Complexes. <i>Angewandte Chemie - International Edition</i> , 2006, 45, 125-128.	7.2	25

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127	Comparative Normal Mode Analysis of LFA-1 Integrin I-domains. <i>Journal of Molecular Biology</i> , 2007, 374, 231-249.	2.0	25
128	Stereocontrolled synthesis of 3,5-dialkyl-4-amino pyrrolidin-2-ones from \hat{I}^2 -lactams as chiral templates.. <i>Tetrahedron Letters</i> , 1992, 33, 4827-4830.	0.7	24
129	Synthesis and Ligand Properties of a Stable Five-Membered Ring Vinylidenephosphorane. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 7530-7533.	7.2	24
130	Selectivity under microwave irradiation. Benzoylation of 2-pyridone: an experimental and theoretical study. <i>Tetrahedron</i> , 2008, 64, 8169-8176.	1.0	24
131	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
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