

Ana JesÃ³s Arrieta

List of Publications by Year in descending order

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79
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79
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times ranked

2262
citing authors

#	ARTICLE	IF	CITATIONS
1	Nature of Alkali and Coinage Metal Bonds versus Hydrogen Bonds. Chemistry - an Asian Journal, 2021, 16, 315-321.	3.3	3
2	Selective synthesis of trisubstituted pyrroles through the reactions of alkynyl Fischer carbene complexes with oxazolones. Organic and Biomolecular Chemistry, 2020, 18, 538-550.	2.8	11
3	Organocatalysts Derived from Unnatural α -Amino Acids: Scope and Applications. Chemistry - an Asian Journal, 2019, 14, 44-66.	3.3	32
4	Negishi coupling reactions with $[C]CH_3$: a versatile method for efficient $C-C$ bond formation. Chemical Communications, 2018, 54, 4398-4401.	4.1	8
5	Density Functional Theory Study on the Demethylation Reaction between Methylamine, Dimethylamine, Trimethylamine, and Tamoxifen Catalyzed by a Fe(IV) Oxo Porphyrin Complex. Journal of Physical Chemistry A, 2018, 122, 1658-1671.	2.5	8
6	Application of 1,3-Dipolar Reactions between Azomethine Ylides and Alkenes to the Synthesis of Catalysts and Biologically Active Compounds. European Journal of Organic Chemistry, 2018, 2018, 5889-5904.	2.4	61
7	Stereoselectivity, Different Oxidation States, and Multiple Spin States in the Cyclopropanation of Olefins Catalyzed by Fe Porphyrin Complexes. ACS Catalysis, 2018, 8, 11140-11153.	11.2	27
8	Organocatalyzed Transient Dienamine-Mediated Diels-Alder Reactions between α,β -Unsaturated Ketones and Alkenes. Letters in Organic Chemistry, 2018, 15, 394-403.	0.5	4
9	Stereoselective Coupling of <i>N</i> - <i>tert</i> -Butanesulfinyl Aldimines and α -Keto Acids: Access to α -Amino Ketones. Journal of Organic Chemistry, 2017, 82, 7481-7491.	3.2	23
10	Two-State Reactivity of Histone Demethylases Containing Jumonji C Active Sites: Different Mechanisms for Different Methylation Degrees. Chemistry - A European Journal, 2017, 23, 137-148.	3.3	13
11	Cyclopropanation reactions catalysed by dendrimers possessing one metalloporphyrin active site at the core: linear and sigmoidal kinetic behaviour for different dendrimer generations. Tetrahedron, 2016, 72, 1120-1131.	1.9	14
12	Synthesis of Chromen[4,3- <i>b</i>]pyrrolidines by Intramolecular 1,3-Dipolar Cycloadditions of Azomethine Ylides: An Experimental and Computational Assessment of the Origin of Stereocontrol. European Journal of Organic Chemistry, 2015, 2015, 4689-4698.	2.4	17
13	Computational Chemistry; A Useful Tool for the Chemical Synthesis of Complex Molecules, Heterocycles and Catalysts. Synlett, 2013, 24, 535-549.	1.8	10
14	Cyclic Electron Delocalization in Pericyclic Reactions. Current Organic Chemistry, 2011, 15, 3594-3608.	1.6	18
15	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. Journal of Organic Chemistry, 2010, 75, 2776-2784.	3.2	66
16	Lewis Acid Activated Aza-Diels-Alder Reaction of <i>N</i> -(3-Pyridyl)aldimines: An Experimental and Computational Study. European Journal of Organic Chemistry, 2010, 2010, 2091-2099.	2.4	51
17	Computational Studies on the Synthesis of α -Lactams via [2+2] Thermal Cycloadditions. Topics in Heterocyclic Chemistry, 2010, , 313-347.	0.2	21
18	Formation of α -Oxoacids and 1- <i>H</i> -Pyrrol-2(5- <i>H</i>)-ones from α,β -Unsaturated Ketones and Ethyl Nitroacetate. Journal of Organic Chemistry, 2010, 75, 7435-7438.	3.2	39

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19	Mechanism of DNA Methylation: The Double Role of DNA as a Substrate and as a Cofactor. <i>Journal of Molecular Biology</i> , 2010, 400, 632-644.	4.2	22
20	<i>trans</i> -Stereoselectivity in the Reaction between Homophthalic Anhydride and Imines. <i>Organic Letters</i> , 2008, 10, 4759-4762.	4.6	38
21	Regiochemistry of the microwave-assisted reaction between aromatic amines and α -bromoketones to yield substituted 1H-indoles. <i>Organic and Biomolecular Chemistry</i> , 2008, 6, 1763.	2.8	40
22	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.	15.6	188
23	Solvent-Free Thermal and Microwave-Assisted [3 + 2] Cycloadditions between Stabilized Azomethine Ylides and Nitrostyrenes. An Experimental and Theoretical Study. <i>Journal of Organic Chemistry</i> , 2007, 72, 4313-4322.	3.2	85
24	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.	3.2	29
25	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.	13.8	44
26	Loss of aromaticity and π -electron delocalization in the first step of the electrophilic aromatic nitration of benzene, phenol and benzonitrile. <i>Computational and Theoretical Chemistry</i> , 2007, 811, 19-26.	1.5	12
27	Application of Stereocontrolled Stepwise [3+2] Cycloadditions to the Preparation of Inhibitors of α 1-Integrin-Mediated Hepatic Melanoma Metastasis. <i>Angewandte Chemie - International Edition</i> , 2005, 44, 2903-2907.	13.8	63
28	Substituent Effects in Eight-Electron Electrocyclic Reactions. <i>Journal of Organic Chemistry</i> , 2005, 70, 1035-1041.	3.2	26
29	Structure and Conformations of Heteroatom-Substituted Free Carbenes and Their Group 6 Transition Metal Analogues. <i>Organometallics</i> , 2004, 23, 1065-1071.	2.3	53
30	Enhancing stereochemical diversity by means of microwave irradiation in the absence of solvent: Synthesis of highly substituted nitroproline esters via 1,3-dipolar reactions. <i>Molecular Diversity</i> , 2003, 7, 175-180.	3.9	11
31	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.	13.7	37
32	[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.	3.2	26
33	On the Mechanism of Conversion of N-Acyl-4-acyloxy- β -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.	3.2	42
34	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.	3.2	68
35	(2 <i>S</i> *,3 <i>R</i> *,4 <i>S</i> *,5 <i>R</i> *)-3-(<i>S</i> *-1-Benzyloxyethyl)-4-methyl-4-nitro-5-phenylproline methyl ester. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2001, 57, o1123-o1125.	0.2	2
36	Origins of the Loss of Concertedness in Pericyclic Reactions: A 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.	13.7	107

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37	Highly Efficient Induction of Chirality in Intramolecular [2 + 2] Cycloadditions between Ketenimines and Imines. <i>Journal of Organic Chemistry</i> , 2000, 65, 3633-3643.	3.2	39
38	A Theoretical and Experimental Approach to the Mechanism of the Photocarbonylation of Chromium(0) (Fischer) Carbene Complexes and Their Reaction with Imines. <i>Journal of the American Chemical Society</i> , 2000, 122, 11509-11510.	13.7	69
39	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.	6.5	45
40	New Stereoselective Intramolecular [2 + 2] Cycloadditions between Ketenimines and Imines on an ortho-Benzyl Scaffold: A 1,4-Asymmetric Induction. <i>Journal of Organic Chemistry</i> , 2000, 65, 7512-7515.	3.2	35
41	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.	4.6	30
42	New Insights on the Origins of the Stereocontrol of the Staudinger Reaction: A [2 + 2] Cycloaddition between Ketenes and N-Silylimines. <i>Journal of Organic Chemistry</i> , 2000, 65, 8458-8464.	3.2	37
43	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.	3.3	43
44	Competitive Mechanisms and Origins of Stereocontrol in the [2 + 2] Thermal Cycloaddition between Imines and Keteniminium Cations. A Complementary Entry to 2-Azetidinones (β^2 -Lactams) and Related Compounds. <i>Journal of Organic Chemistry</i> , 1999, 64, 1831-1842.	3.2	33
45	Efficient tautomerization hydrazone-azomethine imine under microwave irradiation. Synthesis of [4,3] and [5,3] bipyrazoles. <i>Tetrahedron</i> , 1998, 54, 13167-13180.	1.9	75
46	Origins of the Stereodivergent Outcome in the Staudinger Reaction between Acyl Chlorides and Imines. <i>Journal of Organic Chemistry</i> , 1998, 63, 5869-5876.	3.2	104
47	Origins of Stereocontrol in the [2 + 2] Cycloaddition between Achiral Ketenes and Chiral β -Alkoxy Aldehydes. A Pericyclic Alternative to the Aldol Reaction. <i>Journal of Organic Chemistry</i> , 1998, 63, 5216-5227.	3.2	21
48	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.	3.2	104
49	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.	3.2	25
50	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.	13.7	28
51	Diastereoselective Synthesis of Cycloalkylamines by Samarium Diiodide-Promoted Cyclizations of β -Amino Radicals Derived from β -Benzotriazolylalkenylamines. <i>Journal of Organic Chemistry</i> , 1997, 62, 1125-1135.	3.2	31
52	Ab Initio Models for the Nitroaldol (Henry) Reaction. <i>Chemistry - A European Journal</i> , 1997, 3, 20-28.	3.3	34
53	Solvent and Substituent Effects in the Periselectivity of the Staudinger Reaction between Ketenes and β,β -Unsaturated Imines. A Theoretical and Experimental Study. <i>Journal of Organic Chemistry</i> , 1996, 61, 3070-3079.	3.2	46
54	Stereoselective conjugate addition of carbon nucleophiles to chiral (E)-nitroalkenes bearing a β -stereocenter. Origins of the observed anti selectivity. <i>Tetrahedron Letters</i> , 1996, 37, 3055-3058.	1.4	19

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55	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.	13.7	68
56	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.	1.4	31
57	Theoretical and experimental studies on the periselectivity of the cycloaddition reaction between activated ketenes and conjugated imines. <i>Tetrahedron Letters</i> , 1994, 35, 7825-7828.	1.4	8
58	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.	13.7	113
59	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.	13.7	104
60	Theoretical and experimental studies on the periselectivity of the cycloaddition reaction between activated ketenes and conjugated imines. <i>Tetrahedron Letters</i> , 1994, 35, 7825-7828.	1.4	12
61	Transition structures for the reformatsky reaction. A theoretical (MNDO-PM3) study.. <i>Tetrahedron Letters</i> , 1993, 34, 6111-6114.	1.4	12
62	An ab initio study on the mechanism of the alkene- α -isocyanate cycloaddition reaction to form β -lactams. <i>Journal of the Chemical Society Chemical Communications</i> , 1993, , 1450-1452.	2.0	25
63	Highly stereoselective synthesis of β -hydroxy β -amino acids through β -lactams: application to the synthesis of the taxol and bestatin side chains and related systems.. <i>Tetrahedron Letters</i> , 1990, 31, 6429-6432.	1.4	91
64	The Reformatskii type reaction of Gilman and Speeter in the preparation of valuable β -lactams in carbapenem synthesis: scope and synthetic utility. <i>Journal of Organic Chemistry</i> , 1989, 54, 5736-5745.	3.2	45
65	An extension of barret's procedure for the preparation of potentially valuable carbapenem intermediates. <i>Tetrahedron Letters</i> , 1988, 29, 3129-3132.	1.4	17
66	Reagents and synthetic methods. Part 67. Preparation of 4-unsubstituted β -lactams from 4-acetoxazetid-2-ones. A formal approach to monobactams and nocardicins. <i>Journal of Organic Chemistry</i> , 1988, 53, 3784-3791.	3.2	46
67	Reagents and synthetic methods. Part 58. Synthesis of β -lactams from acetic acids and imines promoted by Vilsmeier type reagents. <i>Journal of the Chemical Society Perkin Transactions 1</i> , 1987, , 845-850.	0.9	25
68	Syntheses of β -lactams from acetic acids and imines induced by phenyl dichlorophosphate reagent. <i>Tetrahedron</i> , 1985, 41, 1703-1712.	1.9	33
69	A convenient synthetic approach to α -amino- β -lactam synthesis promoted by phenyl dichlorophosphate reagent. <i>Tetrahedron Letters</i> , 1984, 25, 3905-3908.	1.4	9