

Efraim Reyes

List of Publications by Year in descending order

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93
papers

3,745
citations

117625

34
h-index

138484

58
g-index

137
all docs

137
docs citations

137
times ranked

2774
citing authors

#	ARTICLE	IF	CITATIONS
1	Acyclic amino acid-catalyzed direct asymmetric aldol reactions: alanine, the simplest stereoselective organocatalyst. <i>Chemical Communications</i> , 2005, , 3586.	4.1	253
2	Direct Asymmetric Intermolecular Aldol Reactions Catalyzed by Amino Acids and Small Peptides. <i>Chemistry - A European Journal</i> , 2006, 12, 5383-5397.	3.3	241
3	Organocatalytic Asymmetric Synthesis of β,β -Disubstituted β -Amino Acids and Derivatives. <i>Journal of the American Chemical Society</i> , 2008, 130, 12031-12037.	13.7	173
4	Cooperative Dienamine/Hydrogen Bonding Catalysis: Enantioselective Formal [2+2] Cycloaddition of Enals with Nitroalkenes. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 4104-4107.	13.8	158
5	How to Make Five Contiguous Stereocenters in One Reaction: Asymmetric Organocatalytic Synthesis of Pentasubstituted Cyclohexanes. <i>Angewandte Chemie - International Edition</i> , 2007, 46, 9202-9205.	13.8	134
6	Amino Acid Catalyzed Neogenesis of Carbohydrates: A Plausible Ancient Transformation. <i>Chemistry - A European Journal</i> , 2005, 11, 4772-4784.	3.3	130
7	The Origin of Stereoselectivity in Primary Amino Acid Catalyzed Intermolecular Aldol Reactions. <i>Angewandte Chemie - International Edition</i> , 2005, 44, 7028-7032.	13.8	126
8	Asymmetric 1,4-Addition of Oxazolones to Nitroalkenes by Bifunctional Cinchona Alkaloid Thiourea Organocatalysts: Synthesis of β,β -Disubstituted β -Amino Acids. <i>Chemistry - A European Journal</i> , 2008, 14, 10958-10966.	3.3	110
9	THE ASYMMETRIC α -AZA-MICHAEL REACTION. A REVIEW. <i>Organic Preparations and Procedures International</i> , 2005, 37, 513-538.	1.3	100
10	Enantioselective Organocatalytic Domino Oxa-Michael/Aldol/Hemiacetalization: Synthesis of Polysubstituted Furofuranes Containing Four Stereocenters. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 5701-5704.	13.8	96
11	Catalytic Enantioselective Claisen-Wilson Rearrangement. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 8225-8229.	13.8	86
12	Organocatalytic Asymmetric Michael Addition of Aldehydes to β -Nitroacrolein Dimethyl Acetal. <i>Organic Letters</i> , 2006, 8, 6135-6138.	4.6	84
13	β -Amino Acids, β -Amino Alcohols and Related Compounds as Chiral Auxiliaries, Ligands and Catalysts in the Asymmetric Aldol Reaction. <i>Current Organic Chemistry</i> , 2005, 9, 219-235.	1.6	80
14	Catalytic Enantioselective [5+2] Cycloaddition between Oxidopyrylium Ylides and Enals under Dienamine Activation. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 3043-3046.	13.8	65
15	Transannular reactions in asymmetric total synthesis. <i>Tetrahedron</i> , 2014, 70, 9461-9484.	1.9	60
16	Organocatalytically Generated Donor-Acceptor Cyclopropanes in Domino Reactions. One-Step Enantioselective Synthesis of Pyrrolo[1,2- <i>a</i>]quinolines. <i>Organic Letters</i> , 2016, 18, 1270-1273.	4.6	60
17	Enantioselective Conjugate Addition of Donor-Acceptor Hydrazones to β,β -Unsaturated Aldehydes through Formal Diazo-Ene Reaction: Access to 1,4-Dicarbonyl Compounds. <i>Journal of the American Chemical Society</i> , 2012, 134, 11872-11875.	13.7	59
18	Organocatalytic enantioselective (3+2) cycloaddition using stable azomethine ylides. <i>Chemical Communications</i> , 2011, 47, 12313.	4.1	58

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19	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.	3.3	58
20	Organocatalytic Enantioselective Synthesis of Pyrazolidines, Pyrazolines and Pyrazolidinones. <i>Advanced Synthesis and Catalysis</i> , 2012, 354, 371-376.	4.3	58
21	Amino acid-catalyzed dynamic kinetic asymmetric transformations (DYKAT): one-step de novo synthesis of polyketide sugars from racemic α -hydroxy aldehydes. <i>Tetrahedron Letters</i> , 2005, 46, 6605-6609.	1.4	55
22	Enantioselective Oxidative (4+3) Cycloadditions between Allenamides and Furans through Bifunctional Hydrogen-Bonding/lon-Pairing Interactions. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 10535-10538.	13.8	54
23	Enantio- and Diastereoselective Synthesis of Substituted Tetrahydro-1 <i>H</i> -isochromanes through a Dynamic Kinetic Resolution Proceeding under Dienamine Catalysis. <i>Organic Letters</i> , 2012, 14, 3740-3743.	4.6	50
24	Bifunctional Squaramide Catalysts with the Same Absolute Chirality for the Diastereodivergent Access to Densely Functionalised Cyclohexanes through Enantioselective Domino Reactions. <i>Synthesis and Mechanistic Studies. Advanced Synthesis and Catalysis</i> , 2014, 356, 3627-3648.	4.3	47
25	(S,S)-(+)-Pseudoephedrine as Chiral Auxiliary in Asymmetric Conjugate Addition and Tandem Conjugate Addition/ α -Alkylation Reactions. <i>Journal of Organic Chemistry</i> , 2006, 71, 7763-7772.	3.2	46
26	Organocatalytic Enantioselective Synthesis of Highly Functionalized Polysubstituted Pyrrolidines. <i>Chemistry - A European Journal</i> , 2008, 14, 9357-9367.	3.3	45
27	Enantioselective Cascade Reactions under N-Heterocyclic Carbene Catalysis. <i>Synthesis</i> , 2017, 49, 451-471.	2.3	42
28	Organocatalytic asymmetric α -anti-Michael-reaction of α -ketoesters. <i>Chemical Communications</i> , 2007, , 3921.	4.1	41
29	The organocatalytic [3+2] cycloaddition of azomethine ylides and α,β -unsaturated aldehydes as a convenient tool for the enantioselective synthesis of pyrrolizidines and indolizidines. <i>Organic and Biomolecular Chemistry</i> , 2010, 8, 2238.	2.8	40
30	Catalytic Generation of Donor-Acceptor Cyclopropanes under N-Heterocyclic Carbene Activation and their Stereoselective Reaction with Alkylideneoxindoles. <i>Advanced Synthesis and Catalysis</i> , 2017, 359, 1678-1683.	4.3	40
31	Catalytic Enantioselective Cloke-Wilson Rearrangement. <i>Angewandte Chemie</i> , 2018, 130, 8357-8361.	2.0	36
32	Organocatalytic Enantioselective aza-Michael Reactions. <i>Current Organic Chemistry</i> , 2012, 16, 521-546.	1.6	35
33	Ethyl Glyoxylate <i>N</i> -Tosylhydrazone as Sulfonyl-Transfer Reagent in Base-Catalyzed Sulfa-Michael Reactions. <i>Journal of Organic Chemistry</i> , 2014, 79, 441-445.	3.2	35
34	Organocatalytic enantioselective synthesis of 2,3-dihydropyridazines. <i>Chemical Communications</i> , 2012, 48, 2092.	4.1	34
35	Tandem Asymmetric Conjugate Addition/ α -Alkylation Using (S,S)-(+)-Pseudoephedrine as Chiral Auxiliary. <i>Organic Letters</i> , 2006, 8, 2535-2538.	4.6	32
36	Catalytic Stereoselective Borylative Transannular Reactions. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 2100-2104.	13.8	32

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37	Catalytic Enantioselective Transannular Morita-Baylis-Hillman Reaction. <i>Journal of the American Chemical Society</i> , 2019, 141, 9495-9499.	13.7	30
38	Favoring Trienamine Activation through Unconjugated Dienals: Organocatalytic Enantioselective Remote Functionalization of Alkenes. <i>Chemistry - A European Journal</i> , 2014, 20, 2145-2148.	3.3	28
39	5-Mercaptotetrazoles as Synthetic Equivalents of Nitrogen-Containing Functional Groups. The Case of the Organocatalytic Enantioselective aza-Michael Reaction. <i>Organic Letters</i> , 2011, 13, 336-339.	4.6	27
40	Complete 2,5-Diastereocontrol in the Organocatalytic Enantioselective [3+2] Cycloaddition of Enals with Azomethine Ylides Derived from β -Aminoacyloacetates: Asymmetric Synthesis of Pyrrolidines with Four Stereocentres. <i>Advanced Synthesis and Catalysis</i> , 2011, 353, 3307-3312.	4.3	27
41	Enantioselective Synthesis of Tertiary Propargylic Alcohols under Heterocyclic Carbene Catalysis. <i>Chemistry - A European Journal</i> , 2015, 21, 8384-8388.	3.3	27
42	Double Stereodifferentiation in the Acetate-Type Aldol Reaction with Garner's Aldehyde. Stereocontrolled Synthesis of Polyhydroxylated β -Amino Carbonyl Compounds. <i>Organic Letters</i> , 2004, 6, 3171-3174.	4.6	26
43	Highly Regio- and Stereoselective Addition of Organolithium Reagents to Extended Conjugate Amides Using (S,S)-(+)-Pseudoephedrine as Chiral Auxiliary. <i>Journal of Organic Chemistry</i> , 2009, 74, 4404-4407.	3.2	22
44	Catalytic Enantioselective [5+2] Cycloaddition between Oxidopyrylium Ylides and Enals under Dienamine Activation. <i>Angewandte Chemie</i> , 2015, 127, 3086-3089.	2.0	20
45	Mechanistic Insights into the Mode of Action of Bifunctional Pyrrolidine-Squaramide-Derived Organocatalysts. <i>Chemistry - A European Journal</i> , 2016, 22, 884-889.	3.3	19
46	Carboxylates as Nucleophiles in the Enantioselective Ring-Opening of Formylcyclopropanes under Iminium Ion Catalysis. <i>Chemistry - A European Journal</i> , 2018, 24, 8764-8768.	3.3	19
47	β -Substituted Allenic Amides in the Phosphine-Catalyzed Enantioselective Higher Order Cycloaddition with Azaheptafulvenes. <i>Organic Letters</i> , 2020, 22, 4721-4725.	4.6	19
48	Optimizing the Structure of 4-Dialkylamino- β , β -diarylpiprolinol Ethers as Catalysts for the Enantioselective Cyclopropanation of β -Unsaturated Aldehydes in Water. <i>ChemCatChem</i> , 2013, 5, 2240-2247.	3.7	18
49	Base-Promoted C α -N Acyl Rearrangement: An Unconventional Approach to β -Amino Acid Derivatives. <i>Chemistry - A European Journal</i> , 2014, 20, 11650-11654.	3.3	18
50	Ion-pairing catalysis in the enantioselective addition of hydrazones to <i>N</i> -acyldihydropyrrole derivatives. <i>Chemical Communications</i> , 2018, 54, 8905-8908.	4.1	18
51	Transition-Metal-Free Stereoselective Borylation of Allenamides. <i>Chemistry - A European Journal</i> , 2018, 24, 14059-14063.	3.3	18
52	Using Conveniently Designed β -Amino Ketones in Michael Reactions under Iminium Catalysis: Enantioselective Synthesis of β -Lactams and β -Amino- α -keto Esters. <i>Advanced Synthesis and Catalysis</i> , 2013, 355, 653-658.	3.3	17
53	Racemic hemiacetals as oxygen-centered pronucleophiles triggering cascade 1,4-addition/Michael reaction through dynamic kinetic resolution under iminium catalysis. Development and mechanistic insights. <i>Chemical Science</i> , 2017, 8, 2904-2913.	7.4	17
54	Regioselectivity Change in the Organocatalytic Enantioselective (3+2) Cycloaddition with Nitrones through Cooperative Hydrogen-Bonding Catalysis/Iminium Activation. <i>Chemistry - A European Journal</i> , 2017, 23, 2764-2768.	3.3	17

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55	Brønsted Acid Catalyzed (4 + 2) Cyclocondensation of 3-Substituted Indoles with Donor-Acceptor Cyclopropanes. <i>Organic Letters</i> , 2021, 23, 2326-2331.	4.6	17
56	Using Heteroaryl-lithium Reagents as Hydroxycarbonyl Anion Equivalents in Conjugate Addition Reactions with (S,S)-(+)-Pseudoephedrine as Chiral Auxiliary; Enantioselective Synthesis of 3-Substituted Pyrrolidines. <i>Journal of Organic Chemistry</i> , 2013, 78, 614-627.	3.2	15
57	A Case Study of Thiourea-Assisted Iminium Formation by Hydroxyl Anion Binding: Kinetic, Spectroscopic and Computational Evidences. <i>Advanced Synthesis and Catalysis</i> , 2017, 359, 4122-4128.	4.3	15
58	Enantioselective Synthesis of Tropanes: Brønsted Acid Catalyzed Pseudotransannular Desymmetrization. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 6780-6784.	13.8	15
59	Role of Pseudoephedrine as Chiral Auxiliary in the Acetate-Type Aldol Reaction with Chiral Aldehydes; Asymmetric Synthesis of Highly Functionalized Chiral Building Blocks. <i>Journal of Organic Chemistry</i> , 2011, 76, 460-470.	3.2	14
60	Catalytic enantioselective domino Michael/transannular aldol reaction under bifunctional catalysis. <i>Chemical Communications</i> , 2020, 56, 13149-13152.	4.1	14
61	Enantioselective Oxidative (4+3) Cycloadditions between Allenamides and Furans through Bifunctional Hydrogen-Bonding/π-π Pairing Interactions. <i>Angewandte Chemie</i> , 2017, 129, 10671-10674.	2.0	13
62	Organocatalytic Transannular Approach to Stereodefined Bicyclo[3.1.0]hexanes. <i>Journal of Organic Chemistry</i> , 2018, 83, 4180-4189.	3.2	11
63	A Simple Synthesis of Polysubstituted Pyrrolidines by an Organocatalytic Three-Component Approach Featuring a One-Pot Condensation and [3+2]-Cycloaddition Reaction in Aqueous Medium. <i>Synthesis</i> , 2013, 45, 2669-2678.	2.3	10
64	Transannular Enantioselective (3 + 2) Cycloaddition of Cycloalkenone Hydrazones under Brønsted Acid Catalysis. <i>Organic Letters</i> , 2021, 23, 8738-8743.	4.6	10
65	Direct Asymmetric Intermolecular Aldol Reactions Catalyzed by Amino Acids and Small Peptides. <i>Chemistry - A European Journal</i> , 2006, 12, 5175-5175.	3.3	9
66	On Water™ Iminium/Enamine Catalysis: Organocatalytic Enantioselective Cyclopropanation of $\hat{1}\pm, \hat{1}^2$ -Unsaturated Aldehydes. <i>Synthesis</i> , 2010, 2010, 701-713.	2.3	9
67	Organocatalytic Enantioselective Formal Conjugate Addition of a Hydroxymoyl Anion to $\hat{1}\pm, \hat{1}^2$ -Unsaturated Aldehydes. <i>Chemistry - A European Journal</i> , 2011, 17, 6048-6051.	3.3	9
68	The organocatalytic enantioselective [3+2] cycloaddition reaction of $\hat{1}\pm, \hat{1}^2$ -unsaturated aldehydes with azomethine ylides applied to the asymmetric synthesis of densely substituted pyrroloisoquinolines. <i>Tetrahedron</i> , 2013, 69, 8878-8884.	1.9	8
69	Recent Developments in Transannular Reactions. <i>Synthesis</i> , 2022, 54, 4167-4183.	2.3	8
70	Catalytic Stereoselective Borylative Transannular Reactions. <i>Angewandte Chemie</i> , 2020, 132, 2116-2120.	2.0	7
71	4-Alkenyl-5H-1,2,3-oxathiazole 2,2-dioxides in catalytic and enantioselective [4 + 2] cycloaddition through iminium activation. Straightforward access to the trans-decaline framework and to densely functionalized cyclohexanes. <i>Organic Chemistry Frontiers</i> , 2015, 2, 206-210.	4.5	6
72	Supramolecular architectures based on p-cymene/ruthenium complexes functionalized with nucleobases. <i>CrystEngComm</i> , 2017, 19, 6039-6048.	2.6	6

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73	A Direct and Efficient Stereoconservative Procedure for the Selective Oxidation of N-Protected Î²-Amino Alcohols. <i>Synlett</i> , 2005, 2005, 2110-2112.	1.8	5
74	4.03 Organocatalytic Asymmetric Nucleophilic Addition to Electron-Deficient Alkenes. , 2014, , 119-188.		5
75	Organocatalytic and enantioselective Michael reaction between Î±-nitroesters and nitroalkenes. Syn/anti-selectivity control using catalysts with the same absolute backbone chirality. <i>Beilstein Journal of Organic Chemistry</i> , 2015, 11, 2577-2583.	2.2	5
76	Organocatalytic enantio- and diastereoselective synthesis of 3,5-disubstituted prolines. <i>Chemical Communications</i> , 2016, 52, 2330-2333.	4.1	5
77	A bioinspired metal-organic approach to cross-linked functional 3D nanofibrous hydro- and aero-gels with effective mixture separation of nucleobases by molecular recognition. <i>Nanoscale</i> , 2020, 12, 14699-14707.	5.6	5
78	Enantioselective Synthesis of Tropanes: Brønsted Acid Catalyzed Pseudotransannular Desymmetrization. <i>Angewandte Chemie</i> , 2020, 132, 6846-6850.	2.0	5
79	Enantioselective construction of the 8-azabicyclo[3.2.1]octane scaffold: application in the synthesis of tropane alkaloids. <i>Organic and Biomolecular Chemistry</i> , 2021, 19, 3763-3775.	2.8	5
80	Stereoselective Total Synthesis of (-)-Î²-Conhydrine and (+)-Î±-Conhydrine. <i>Synthesis</i> , 2011, 2011, 443-450.	2.3	4
81	A general approach for the asymmetric synthesis of densely substituted piperidines and fully substituted piperidinones employing the asymmetric Mannich reaction as key step. <i>RSC Advances</i> , 2013, 3, 25800.	3.6	4
82	Highly diastereoselective C-â€²-N acyl rearrangement in polysubstituted pyrrolidine 2,2-dicarboxylates. Stereocontrolled synthesis of densely functionalized prolines. <i>Organic Chemistry Frontiers</i> , 2018, 5, 933-942.	4.5	3
83	Organocatalytic Enantioselective [3+2] Cycloaddition of Azomethine Ylides and Acrolein. <i>Asymmetric Catalysis</i> , 2015, 2, .	0.2	2
84	The Pseudotransannular Ring Opening of 1-â€¢Aminocyclohept-4-ene-â€¢derived Epoxides in the Synthesis of Tropane Alkaloids: Total Synthesis of (â€¢)-â€¢Ferrugine. <i>European Journal of Organic Chemistry</i> , 2021, 2021, 2855-2861.	2.4	2
85	Base Free Catalyzed Enantioselective Michael Reaction of bis(phenylsulfonyl)methane to -Unsaturated Aldehydes under Iminium Activation. <i>Current Topics in Medicinal Chemistry</i> , 2014, 14, 1317-1322.	2.1	1
86	Asymmetric Hydroxylation of (S,S)-(+)-Pseudoephedrine Phenylacetamide Enolates. <i>Letters in Organic Chemistry</i> , 2004, 1, 331-334.	0.5	1
87	Kinetic Resolution in Transannular Morita-Baylis-Hillman Reaction: An Approximation to the Synthesis of Sesquiterpenes from Guaiane Family. <i>Catalysts</i> , 2022, 12, 67.	3.5	1
88	An Approach to the Synthesis of a Hepatitis C Virus Inhibitor through a Proline-Catalyzed 1,3-Dipolar Cycloaddition Using Acrolein. <i>Synthesis</i> , 2022, 54, 1101-1107.	2.3	1
89	Enantioselective transannular reactions by palladium-catalysed conjugate addition of aryl boronic acids. <i>Chemical Communications</i> , 2022, 58, 6514-6517.	4.1	1
90	Double Stereodifferentiation in the -Acetate-Type Aldol Reaction with Garner's Aldehyde. Stereocontrolled Synthesis of Polyhydroxylated Î³-Amino Carbonyl Compounds.. <i>ChemInform</i> , 2004, 35, no.	0.0	0

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91	Acyclic Amino Acid-Catalyzed Direct Asymmetric Aldol Reactions: Alanine, the Simplest Stereoselective Organocatalyst.. ChemInform, 2005, 36, no.	0.0	0
92	Î±-Amino Acids, Î²-Amino Alcohols and Related Compounds as Chiral Auxiliaries, Ligands and Catalysts in the Asymmetric Aldol Reaction. ChemInform, 2006, 37, no.	0.0	0
93	Innovative Microstructural Transformation upon CO2 Supercritical Conditions on Metal-Nucleobase Aerogel and Its Use as Effective Filler for HPLC Biomolecules Separation. Nanomaterials, 2022, 12, 675.	4.1	0