

Carlos Vila

List of Publications by Year in descending order

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97
papers

4,054
citations

109264

35
h-index

123376

61
g-index

148
all docs

148
docs citations

148
times ranked

3650
citing authors

#	ARTICLE	IF	CITATIONS
1	Dual catalysis: combining photoredox and Lewis base catalysis for direct Mannich reactions. <i>Chemical Communications</i> , 2011, 47, 2360-2362.	2.2	367
2	Dual Catalysis: Combination of Photocatalytic Aerobic Oxidation and Metal Catalyzed Alkynylation Reactionsâ€”Câ€”C Bond Formation Using Visible Light. <i>Chemistry - A European Journal</i> , 2012, 18, 5170-5174.	1.7	217
3	Asymmetric Organocatalysis in Continuous Flow: Opportunities for Impacting Industrial Catalysis. <i>ACS Catalysis</i> , 2015, 5, 1972-1985.	5.5	177
4	Continuous Flow Organocatalytic Câ€”H Functionalization and Cross-Dehydrogenative Coupling Reactions: Visible Light Organophotocatalysis for Multicomponent Reactions and Câ€”C, Câ€”P Bond Formations. <i>ACS Catalysis</i> , 2013, 3, 1676-1680.	5.5	176
5	Photoredox Catalysis as an Efficient Tool for the Aerobic Oxidation of Amines and Alcohols: Bioinspired Demethylations and Condensations. <i>ACS Catalysis</i> , 2012, 2, 2810-2815.	5.5	137
6	Visible Light Photoredox-Catalyzed Multicomponent Reactions. <i>Organic Letters</i> , 2013, 15, 2092-2095.	2.4	135
7	Organocatalytic Asymmetric Addition of Naphthols and Electronâ€”Rich Phenols to Isatinâ€”Derived Ketimines: Highly Enantioselective Construction of Tetrasubstituted Stereocenters. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 6320-6324.	7.2	127
8	Highly Enantioselective Friedelâ€”Crafts Alkylations of Indoles with Simple Enones Catalyzed by Zirconium(IV)â€”BINOL Complexesâ€”. <i>Organic Letters</i> , 2007, 9, 2601-2604.	2.4	123
9	Visible-light mediated heterogeneous Câ€”H functionalization: oxidative multi-component reactions using a recyclable titanium dioxide (TiO ₂) catalyst. <i>Green Chemistry</i> , 2013, 15, 2056.	4.6	121
10	Trends in Organocatalytic Conjugate Addition to Enones: An Efficient Approach to Optically Active Alkynyl, Alkenyl, and Ketone Products. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 7338-7342.	7.2	80
11	Visible-light photoredox catalyzed synthesis of pyrroloisoquinolines via organocatalytic oxidation/[3 + 2] cycloaddition/oxidative aromatization reaction cascade with Rose Bengal. <i>Beilstein Journal of Organic Chemistry</i> , 2014, 10, 1233-1238.	1.3	76
12	Organocatalytic Domino Michaelâ€”Knoevenagel Condensation Reaction for the Synthesis of Optically Active 3â€”Diethoxyphosphorylâ€”2â€”oxocyclohexâ€”3â€”enecarboxylates. <i>Chemistry - A European Journal</i> , 2009, 15, 1.7 3093-3102.		74
13	Enantioselective Zirconium-Catalyzed Friedelâ€”Crafts Alkylation of Pyrrole with Trifluoromethyl Ketones. <i>Organic Letters</i> , 2009, 11, 441-444.	2.4	73
14	Palladium-catalysed direct cross-coupling of secondary alkyllithium reagents. <i>Chemical Science</i> , 2014, 5, 1361.	3.7	73
15	Organocatalytic Enantioselective Friedelâ€”Crafts Aminoalkylation of Indoles in the Carbocyclic Ring. <i>ACS Catalysis</i> , 2016, 6, 2689-2693.	5.5	70
16	Recent Advances in Photocatalytic Functionalization of Quinoxalinâ€”2â€”Enones. <i>European Journal of Organic Chemistry</i> , 2020, 2020, 6148-6172.	1.2	70
17	Synthesis of Functionalized Indoles with a Trifluoromethylâ€”Substituted Stereogenic Tertiary Carbon Atom Through an Enantioselective Friedelâ€”Crafts Alkylation with Î²â€”Trifluoromethylâ€”Î²â€”enones. <i>Chemistry - A European Journal</i> , 2010, 16, 9117-9122.	1.7	68
18	Catalytic Direct Cross-Coupling of Organolithium Compounds with Aryl Chlorides. <i>Organic Letters</i> , 2013, 15, 5114-5117.	2.4	66

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19	Direct catalytic cross-coupling of alkenyllithium compounds. <i>Chemical Science</i> , 2015, 6, 1394-1398.	3.7	64
20	Hindered Aryllithium Reagents as Partners in Palladium-Catalyzed Cross-Coupling: Synthesis of Tri- and Tetra-ortho-Substituted Biaryls under Ambient Conditions. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 13329-13333.	7.2	63
21	Oxygen Activated, Palladium Nanoparticle Catalyzed, Ultrafast Cross-Coupling of Organolithium Reagents. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 3354-3359.	7.2	62
22	Catalytic asymmetric conjugate addition of Grignard reagents to chromones. <i>Chemical Communications</i> , 2013, 49, 5933.	2.2	57
23	Palladium-Catalysed Direct Cross-Coupling of Organolithium Reagents with Aryl and Vinyl Triflates. <i>Chemistry - A European Journal</i> , 2014, 20, 13078-13083.	1.7	53
24	Organocatalytic Enantioselective Alkylation of Pyrazolones with Isatin-Derived Ketimines: Stereocontrolled Construction of Vicinal Tetrasubstituted Stereocenters. <i>Advanced Synthesis and Catalysis</i> , 2016, 358, 1583-1588.	2.1	52
25	Catalytic enantioselective Friedel-Crafts alkylation at the 2-position of indole with simple enones. <i>Tetrahedron Letters</i> , 2007, 48, 6731-6734.	0.7	51
26	Direct Catalytic Azidation of Allylic Alcohols. <i>Organic Letters</i> , 2012, 14, 768-771.	2.4	51
27	Catalytic Enantioselective Conjugate Alkynylation of β -Aryl- β -trifluoromethyl Enones Constructing Propargylic All-Carbon Quaternary Stereogenic Centers. <i>Organic Letters</i> , 2016, 18, 3538-3541.	2.4	49
28	Palladium-Catalyzed, <i>tert</i> -Butyllithium-Mediated Dimerization of Aryl Halides and Its Application in the Atropselective Total Synthesis of Mastigophorene...A. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 3620-3624.	7.2	47
29	Catalytic Enantioselective Friedel-Crafts Reactions of Naphthols and Electron-Rich Phenols. <i>Synthesis</i> , 2016, 48, 2151-2164.	1.2	46
30	Hydroxy-Directed Enantioselective Hydroxyalkylation in the Carbocyclic Ring of Indoles. <i>Organic Letters</i> , 2017, 19, 1546-1549.	2.4	45
31	A Combination of Visible-Light Organophotoredox Catalysis and Asymmetric Organocatalysis for the Enantioselective Mannich Reaction of Dihydroquinoxalinones with Ketones. <i>Organic Letters</i> , 2019, 21, 6011-6015.	2.4	43
32	Catalytic Asymmetric Synthesis of Phosphine Boronates. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 7867-7871.	7.2	41
33	Merging Visible-Light Photoredox and Nickel Catalysis. <i>ChemCatChem</i> , 2015, 7, 1790-1793.	1.8	40
34	Gold-Catalyzed Asymmetric Allylic Substitution of Free Alcohols: An Enantioselective Approach to Chiral Chromans with Quaternary Stereocenters for the Synthesis of Vitamin E and Analogues. <i>Chemistry - A European Journal</i> , 2014, 20, 13913-13917.	1.7	38
35	Organocatalytic enantioselective aza-Friedel-Crafts reaction of 2-naphthols with benzoxathiazine 2,2-dioxides. <i>RSC Advances</i> , 2015, 5, 60101-60105.	1.7	37
36	Pd-Catalyzed Cross-Coupling of Aryllithium Reagents with 2-Alkoxy-Substituted Aryl Chlorides: Mild and Efficient Synthesis of 3,3'-Diaryl BINOLs. <i>Organic Letters</i> , 2015, 17, 62-65.	2.4	35

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37	Enantioselective Synthesis of Tertiary Alcohols through a Zirconium-Catalyzed Friedel-Crafts Alkylation of Pyrroles with α -Ketoesters. <i>Journal of Organic Chemistry</i> , 2011, 76, 6286-6294.	1.7	34
38	Organocatalytic Enantioselective Synthesis of Pyrazoles Bearing a Quaternary Stereocenter. <i>Chemistry - an Asian Journal</i> , 2016, 11, 1532-1536.	1.7	33
39	Organocatalytic Enantioselective 1,6- α -aza-Michael Addition of Isoxazolinones to α -Quinone Methides. <i>European Journal of Organic Chemistry</i> , 2020, 2020, 627-630.	1.2	33
40	Synthesis of Functionalized Indoles with an α -Stereogenic Ketone Moiety Through an Enantioselective Friedel-Crafts Alkylation with (<i>E</i>)-1,4-Diarylcyclobutene-1,4-diones. <i>Advanced Synthesis and Catalysis</i> , 2009, 351, 2433-2440.	1.7	30
41	Catalytic Enantioselective Aza-Reformatsky Reaction with Cyclic Imines. <i>Chemistry - A European Journal</i> , 2016, 22, 17590-17594.	1.7	30
42	Organocatalytic Enantioselective Friedel-Crafts Alkylation of 1-Naphthol Derivatives and Activated Phenols with Ethyl Trifluoropyruvate. <i>Advanced Synthesis and Catalysis</i> , 2015, 357, 3047-3051.	2.1	29
43	Enantioselective alkynylation of benzo[e][1,2,3]-oxathiazine 2,2-dioxides catalysed by (R)-VAPOL-Zn complexes: synthesis of chiral propargylic cyclic sulfamidates. <i>Organic and Biomolecular Chemistry</i> , 2015, 13, 7393-7396.	1.5	26
44	Enantioselective Synthesis of 5-Trifluoromethyl-2-oxazolines under Dual Silver/Organocatalysis. <i>Journal of Organic Chemistry</i> , 2019, 84, 314-325.	1.7	26
45	Catalytic Asymmetric Reactions Involving the Seven-Membered Cyclic Imine Moieties Present in Dibenzo[b,f][1,4]oxazepines. <i>European Journal of Organic Chemistry</i> , 2018, 2018, 140-146.	1.2	25
46	Diarylprolinol as a Ligand for Enantioselective Alkynylation of Cyclic Imines. <i>Advanced Synthesis and Catalysis</i> , 2017, 359, 1582-1587.	2.1	23
47	Catalytic enantioselective aza-Reformatsky reaction with seven-membered cyclic imines dibenzo[b,f][1,4]oxazepines. <i>Organic Chemistry Frontiers</i> , 2017, 4, 1624-1628.	2.3	23
48	Organocatalytic Enantioselective Synthesis of α -Hydroxyketones through a Friedel-Crafts Reaction of Naphthols and Activated Phenols with Aryl- and Alkylglyoxal Hydrates. <i>Organic Letters</i> , 2016, 18, 5652-5655.	2.4	22
49	Enantioselective Synthesis of Functionalized Diazaspirocycles from 4-Benzylideneisoxazol-5(4 <i>H</i>)-one Derivatives and Isocyanoacetate Esters. <i>Advanced Synthesis and Catalysis</i> , 2020, 362, 3564-3569.	2.1	22
50	Enantioselective synthesis of 2-substituted-1,4-diketones from (S)-mandelic acid enolate and α,β -enones. <i>Tetrahedron</i> , 2006, 62, 9174-9182.	1.0	21
51	Enantioselective Synthesis of 2-Amino-1,1-diarylalkanes Bearing a Carbocyclic Ring Substituted Indole through Asymmetric Catalytic Reaction of Hydroxyindoles with Nitroalkenes. <i>Journal of Organic Chemistry</i> , 2018, 83, 6397-6407.	1.7	21
52	Organocatalytic enantioselective functionalization of indoles in the carbocyclic ring with cyclic imines. <i>New Journal of Chemistry</i> , 2019, 43, 130-134.	1.4	21
53	Enantioselective synthesis of chiral oxazolines from unactivated ketones and isocyanoacetate esters by synergistic silver/organocatalysis. <i>Chemical Communications</i> , 2018, 54, 2862-2865.	2.2	20
54	Recent Advances in Catalytic Enantioselective Synthesis of Pyrazolones with a Tetrasubstituted Stereogenic Center at the 4-Position. <i>Synthesis</i> , 2021, 53, 215-237.	1.2	20

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55	Asymmetric Oxidative Mannich Reactions. <i>Advanced Synthesis and Catalysis</i> , 2021, 363, 602-628.	2.1	20
56	Oxygen Activated, Palladium Nanoparticle Catalyzed, Ultrafast Cross-Coupling of Organolithium Reagents. <i>Angewandte Chemie</i> , 2017, 129, 3402-3407.	1.6	18
57	Bodipy-VAD-Fmk, a useful tool to study yeast peptide N-glycanase activity. <i>Organic and Biomolecular Chemistry</i> , 2007, 5, 3690.	1.5	17
58	Catalytic Diastereo- and Enantioselective Synthesis of 2-Imidazolinones. <i>Organic Letters</i> , 2019, 21, 4063-4066.	2.4	17
59	Diastereoselective Michael addition of (S)-mandelic acid enolate to 2-arylidene-1,3-diketones: enantioselective diversity-oriented synthesis of densely substituted pyrazoles. <i>Tetrahedron</i> , 2006, 62, 8069-8076.	1.0	16
60	Palladium-Catalyzed, <i>tert</i> -Butyllithium-Mediated Dimerization of Aryl Halides and Its Application in the Atropselective Total Synthesis of Mastigophorene...A. <i>Angewandte Chemie</i> , 2016, 128, 3684-3688.	1.6	16
61	Organocatalytic Enantioselective Functionalization of Hydroxyquinolines through an Aza-Friedel-Crafts Alkylation with Isatin-derived Ketimines. <i>Advanced Synthesis and Catalysis</i> , 2018, 360, 859-864.	2.1	15
62	9,10-Phenanthredione as Visible-Light Photoredox Catalyst: A Green Methodology for the Functionalization of 3,4-Dihydro-1,4-Benzoxazin-2-Ones through a Friedel-Crafts Reaction. <i>Catalysts</i> , 2018, 8, 653.	1.6	15
63	Organocatalytic Enantioselective Strecker Reaction with Seven-Membered Cyclic Imines. <i>Advanced Synthesis and Catalysis</i> , 2018, 360, 3662-3666.	2.1	15
64	Photocatalytic Giese Addition of 1,4-Dihydroquinoxalin-2-ones to Electron-Poor Alkenes Using Visible Light. <i>Organic Letters</i> , 2020, 22, 8012-8017.	2.4	15
65	<i>tert</i> -BuLi-Mediated One-Pot Direct Highly Selective Cross-Coupling of Two Distinct Aryl Bromides. <i>Chemistry - A European Journal</i> , 2015, 21, 15520-15524.	1.7	14
66	One-pot sequential 1,2-addition, Pd-catalysed cross-coupling of organolithium reagents with Weinreb amides. <i>Chemical Communications</i> , 2016, 52, 1206-1209.	2.2	14
67	Indirect regioselective heteroarylation of indoles through a Friedel-Crafts reaction with (E)-1,4-diaryl-2-buten-1,4-diones. <i>Tetrahedron</i> , 2009, 65, 9264-9270.	1.0	13
68	NMR Spectroscopic Characterization and DFT Calculations of Zirconium(IV)-3,3'-dibromo-BINOLate and Related Complexes Used in an Enantioselective Friedel-Crafts Alkylation of Indoles with β,β' -Unsaturated Ketones. <i>Journal of Organic Chemistry</i> , 2012, 77, 10545-10556.	1.7	13
69	Asymmetric Organocatalytic Synthesis of <i>aza</i> -Spirocyclic Compounds from Isothiocyanates and Isocyanides. <i>European Journal of Organic Chemistry</i> , 2021, 2021, 2268-2284.	1.2	13
70	A poly(glycidyl-co-ethylene dimethacrylate) nanohybrid modified with β -cyclodextrin as a sorbent for solid-phase extraction of phenolic compounds. <i>Mikrochimica Acta</i> , 2019, 186, 615.	2.5	12
71	Enantioselective addition of Et ₂ Zn to seven-membered cyclic imines catalyzed by a (R)-VAPOL-Zn(II) complex. <i>Tetrahedron Letters</i> , 2017, 58, 3358-3361.	0.7	11
72	Regio- and Stereoselective Synthesis of β -Pyrazolylidene- α -oxindole Compounds by Nucleophilic Vinylic Substitution of (E)- β -(Nitromethylene)indolin-2-one. <i>Advanced Synthesis and Catalysis</i> , 2019, 361, 1902-1907.	2.1	11

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73	Copper-Catalyzed Aerobic Oxidative Alkynylation of 3,4-Dihydroquinoxalin-2-ones. <i>Synthesis</i> , 2020, 52, 544-552.	1.2	11
74	Organocatalytic Enantioselective Aminoalkylation of 5-aminopyrazole Derivatives with Cyclic Imines. <i>European Journal of Organic Chemistry</i> , 2020, 2020, 7450-7454.	1.2	11
75	Enantioselective Friedel-Crafts Alkylation of Indoles with <i>E</i> -Arylbenzyloxybut-2-en-1-ones Catalyzed by an <i>R</i> -3-Br ₂ -BINOLate-Hafnium(IV) Complex. <i>European Journal of Organic Chemistry</i> , 2013, 2013, 1902-1907.	1.2	10
76	Catalytic Asymmetric Synthesis of Phosphine Boronates. <i>Angewandte Chemie</i> , 2015, 127, 7978-7982.	1.6	10
77	Organocatalytic enantioselective aminoalkylation of pyrazol-3-ones with aldimines generated <i>in situ</i> from \pm -amido sulfones. <i>Organic and Biomolecular Chemistry</i> , 2019, 17, 9859-9863.	1.5	10
78	Copper-catalysed \pm -selective allylic alkylation of heteroaryl lithium reagents. <i>Organic and Biomolecular Chemistry</i> , 2014, 12, 9321-9323.	1.5	9
79	Regio-, Diastereo-, and Enantioselective Organocatalytic Addition of 4-Substituted Pyrazolones to Isatin-Derived Nitroalkenes. <i>European Journal of Organic Chemistry</i> , 2019, 2019, 3040-3044.	1.2	9
80	Asymmetric Addition and Cycloaddition Reactions with Ylidene-Five-Membered Heterocycles. <i>Advanced Synthesis and Catalysis</i> , 2021, 363, 5196-5234.	2.1	9
81	Catalytic Diastereo- and Enantioselective Vinylogous Mannich Reaction of Alkylidenepyrazolones to Isatin-Derived Ketimines. <i>Organic Letters</i> , 2021, 23, 7391-7395.	2.4	8
82	Enantioselective Synthesis of Substituted Indoles Through Zirconium(IV)-Catalyzed Friedel-Crafts Alkylation. <i>Synthesis</i> , 2012, 44, 3590-3594.	1.2	7
83	Metal-Free Diastereo- and Enantioselective Dearomative Formal [3 + 2] Cycloaddition of 2-Nitrobenzofurans and Isocynoacetate Esters. <i>Organic Letters</i> , 2022, 24, 2149-2154.	2.4	7
84	Radical Addition of Dihydroquinoxalin-2-ones to Trifluoromethyl Ketones under Visible-Light Photoredox Catalysis. <i>Journal of Organic Chemistry</i> , 2022, 87, 9343-9356.	1.7	7
85	Visible-light-accelerated amination of quinoxalin-2-ones and benzo[1,4]oxazin-2-ones with dialkyl azodicarboxylates under metal and photocatalyst-free conditions. <i>Organic and Biomolecular Chemistry</i> , 2021, 19, 6250-6255.	1.5	6
86	Catalytic Asymmetric Friedel-Crafts Alkylations in Total Synthesis. , 0, , 223-270.		4
87	Synthesis of Multisubstituted 1,4-Dihydrobenzoxazin-2-ones through a One-Pot Nucleophilic N-Alkylation/C-Alkylation of Cyclic \pm -Imino Esters. <i>Synthesis</i> , 2017, 49, 2683-2690.	1.2	4
88	Nitroenynes as Electrophiles in Organocatalysis and their Application in the Synthesis of Chiral Heterocycles. <i>European Journal of Organic Chemistry</i> , 2021, 2021, 2255-2267.	1.2	4
89	Enantioselective Addition of Sodium Bisulfite to Nitroalkenes. A Convenient Approach to Chiral Sulfonic Acids. <i>European Journal of Organic Chemistry</i> , 2021, 2021, 5284-5287.	1.2	4
90	Catalytic Diastereo- and Enantioselective Synthesis of Tertiary Trifluoromethyl Carbinols through a Vinylogous Aldol Reaction of Alkylidenepyrazolones with Trifluoromethyl Ketones. <i>Journal of Organic Chemistry</i> , 2022, 87, 4538-4549.	1.7	4

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91	Catalytic Enantioselective Addition of Me ₂ Zn to Isatins. <i>Catalysts</i> , 2017, 7, 387.	1.6	3
92	Squaramide-Catalyzed Enantioselective Michael Addition of Pyrazol-3-ones to ortho-Quinone Methides. <i>Letters in Organic Chemistry</i> , 2020, 17, 837-844.	0.2	2
93	Enantioselective Friedel-Crafts reaction of hydroxyarenes with nitroynes to access chiral heterocycles via sequential catalysis. <i>Organic and Biomolecular Chemistry</i> , 2021, 19, 6990-6994.	1.5	1
94	Zirconium-Catalyzed Friedel-Crafts Alkylation of Pyrrole. <i>Synfacts</i> , 2009, 2009, 0404-0404.	0.0	0
95	Frontispiece: Palladium-Catalysed Direct Cross-Coupling of Organolithium Reagents with Aryl and Vinyl Triflates. <i>Chemistry - A European Journal</i> , 2014, 20, n/a-n/a.	1.7	0
96	Innentitelbild: Catalytic Asymmetric Synthesis of Phosphine Boronates (<i>Angew. Chem.</i> 27/2015). <i>Angewandte Chemie</i> , 2015, 127, 7832-7832.	1.6	0
97	Enantioselective zinc-mediated conjugate alkylation of saccharin-derived 1-aza-butadienes. <i>Chemical Communications</i> , 2020, 56, 9461-9464.	2.2	0