Anton Vidal Ferran

List of Publications by Year
in descending order

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120 papers	5,929 citations	93792 39 h-index	87275 74 g-index
168 all docs	168 docs citations	168 times ranked	6831 citing authors

#	Article	IF	Citations
1	Valorisation of mixtures of linear alkenes using cobalt-mediated isomerisation and hydroformylation chemistries. Catalysis Science and Technology, 2022, 12, 3219-3227.	2.1	3
2	Supramolecular Regulation in Enantioselective Catalysis. Series on Chemistry, Energy and the Environment, 2022, , 59-94.	0.3	0
3	Separation of Volatile Organic Compounds in TAMOF-1. ACS Applied Materials & Interfaces, 2022, 14, 30772-30785.	4.0	3
4	Differentiation of Epoxide Enantiomers in the Confined Spaces of an Homochiral Cu(II) Metalâ€Organic Framework by Kinetic Resolution. Chemistry - A European Journal, 2021, 27, 16956-16965.	1.7	1
5	Enhanced Performance of Zirconiumâ€Doped Ceria Catalysts for the Methoxycarbonylation of Anilines. Chemistry - A European Journal, 2020, 26, 16129-16137.	1.7	6
6	A low temperature aqueous formate fuel cell using cobalt hexacyanoferrate as a non-noble metal oxidation catalyst. Sustainable Energy and Fuels, 2020, 4, 6227-6233.	2.5	8
7	Selective functionalisation of aromatic alcohols with supramolecularly regulated gold(<scp>i</scp>) catalysts. Organic Chemistry Frontiers, 2020, 7, 1626-1634.	2.3	9
8	Access to Î±-Aminophosphonic Acid Derivatives and Phosphonopeptides by [Rh(Pâ€“OP)]-Catalyzed Stereoselective Hydrogenation. Journal of Organic Chemistry, 2020, 85, 14779-14784.	1.7	8
9	Exploiting Substrate Diversity for Preparing Synthetically Valuable Sulfoxides via Asymmetric Hydrogenative Kinetic Resolution. European Journal of Organic Chemistry, 2020, 2020, 4331-4338.	1.2	8
10	Palladium Complexes of Methylene-Bridged P-Stereogenic, Unsymmetrical Diphosphines. Organometallics, 2020, 39, 2511-2525.	1.1	8
11	Supramolecularly regulated copper-bisoxazoline catalysts for the efficient insertion of carbenoid species into hydroxyl bonds. Chemical Communications, 2020, 56, 6364-6367.	2.2	5
12	Homochiral Metalâ€“Organic Frameworks for Enantioselective Separations in Liquid Chromatography. Journal of the American Chemical Society, 2019, 141, 14306-14316.	6.6	93
13	Kinetic Treatments for Catalyst Activation and Deactivation Processes based on Variable Time Normalization Analysis. Angewandte Chemie, 2019, 131, 10295-10299.	1.6	15
14	Mechanistic Insights into the Ceria-Catalyzed Synthesis of Carbamates as Polyurethane Precursors. ACS Catalysis, 2019, 9, 7708-7720.	5.5	14
15	Stereoselective Catalytic Synthesis of P-Stereogenic Oxides via Hydrogenative Kinetic Resolution. Organic Letters, 2019, 21, 7019-7023.	2.4	20
16	Halogen bonding effects on the outcome of reactions at metal centres. Chemical Communications, 2019, 55, 2380-2383.	2.2	23
17	Kinetic Treatments for Catalyst Activation and Deactivation Processes based on Variable Time Normalization Analysis. Angewandte Chemie - International Edition, 2019, 58, 10189-10193.	7.2	46
18	Energy alignment and recombination in perovskite solar cells: weighted influence on the open circuit voltage. Energy and Environmental Science, 2019, 12, 1309-1316.	15.6	106

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19	Efficient modular phosphorus-containing ligands for stereoselective catalysis. Pure and Applied Chemistry, 2019, 91, 3-15.	0.9	6
20	o,pâ€Dimethoxybiphenyl Arylamine Substituted Porphyrins as Holeâ€Transport Materials: Electrochemical, Photophysical, and Carrier Mobility Characterization. European Journal of Organic Chemistry, 2018, 2018, 2064-2070.	1.2	7
21	Benzothiadiazole Substituted Semiconductor Molecules for Organic Solar Cells: The Effect of the Solvent Annealing Over the Thin Film Hole Mobility Values. Journal of Physical Chemistry C, 2018, 122, 13782-13789.	1.5	14
22	XBphos-Rh: a halogen-bond assembled supramolecular catalyst. Chemical Science, 2018, 9, 3644-3648.	3.7	42
23	Structural Investigations on Enantiopure Pâ€“OP Ligands: A Highâ€Performing Pâ€“OP Ligand for Rhodiumâ€Catalysed Hydrogenations. European Journal of Organic Chemistry, 2018, 2018, 1525-1532.	1.2	7
24	Advances in the Synthesis of Small Molecules as Hole Transport Materials for Lead Halide Perovskite Solar Cells. Accounts of Chemical Research, 2018, 51, 869-880.	7.6	121
25	Ni-Catalysed Intramolecular [4+4]-cycloadditions of bis-dienes towards eight-membered fused bicyclic systems: a combined experimental and computational study. Catalysis Science and Technology, 2018, 8, 5251-5258.	2.1	3
26	Efficient Non-polymeric Heterojunctions in Ternary Organic Solar Cells. ACS Applied Energy Materials, 2018, 1, 4203-4210.	2.5	7
27	Syntheses, characterisation and solid-state study of alkali and ammonium BArF salts. RSC Advances, 2017, 7, 32833-32841.	1.7	16
28	Asymmetric Hydrogenation of Sevenâ€Membered C=Nâ€containing Heterocycles and Rationalization of the Enantioselectivity. Chemistry - A European Journal, 2016, 22, 10607-10613.	1.7	38
29	Stereoselective Rh-Catalyzed Hydrogenative Desymmetrization of Achiral Substituted 1,4-Dienes. Organic Letters, 2016, 18, 2836-2839.	2.4	16
30	Supramolecularly fine-regulated enantioselective catalysts. Chemical Communications, 2016, 52, 11038-11051.	2.2	38
31	Correlation between the Selectivity and the Structure of an Asymmetric Catalyst Built on a Chirally Amplified Supramolecular Helical Scaffold. Journal of the American Chemical Society, 2016, 138, 4908-4916.	6.6	93
32	Palladium-Based Supramolecularly Regulated Catalysts for Asymmetric Allylic Substitutions. Organometallics, 2016, 35, 528-533.	1.1	22
33	A Practical Synthesis of Rhodium Precatalysts for Enantioselective Hydrogenative Transformations. Synthesis, 2016, 48, 997-1001.	1.2	7
34	Supramolecularly Regulated Ligands for Asymmetric Hydroformylations and Hydrogenations. Chemistry - A European Journal, 2015, 21, 11417-11426.	1.7	46
35	Substrate Activation in the Catalytic Asymmetric Hydrogenation of Nâ€Heteroarenes. European Journal of Organic Chemistry, 2015, 2015, 5293-5303.	1.2	57
36	Enantiopure bisphosphine ligands with appended crown ether groups as regulation sites for Rh-mediated hydrogenations. Tetrahedron, 2015, 71, 4490-4494.	1.0	24

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37	Supramolecular Catalysis. , 2015, , .		1
38	Diarylamino-substituted tetraarylethene (TAE) as an efficient and robust hole transport material for 11% methyl ammonium lead iodide perovskite solar cells. Chemical Communications, 2015, 51, 13980-13982.	2.2	61
39	Hydrogenative Kinetic Resolution of Vinyl Sulfoxides. Organic Letters, 2015, 17, 4114-4117.	2.4	32
40	Asymmetric Hydroformylation of Heterocyclic Olefins Mediated by Supramolecularly Regulated Rhodium-Bisphosphite Complexes. Journal of Organic Chemistry, 2015, 80, 10397-10403.	1.7	37
41	MaxPHOS Ligand: PH/NH Tautomerism and Rhodiumâ€•Catalyzed Asymmetric Hydrogenations. Advanced Synthesis and Catalysis, 2014, 356, 795-804.	2.1	55
42	Supramolecular catalysis. Part 1: non-covalent interactions as a tool for building and modifying homogeneous catalysts. Chemical Society Reviews, 2014, 43, 1660-1733.	18.7	605
43	Supramolecular catalysis. Part 2: artificial enzyme mimics. Chemical Society Reviews, 2014, 43, 1734-1787.	18.7	775
44	Ring-opening of enantiomerically pure oxa-containing heterocycles with phosphorus nucleophiles. RSC Advances, 2014, 4, 58440-58447.	1.7	9
45	Enantiopure Narrow Biteâ€Angle Pï£¿OP Ligands: Synthesis and Catalytic Performance in Asymmetric Hydroformylations and Hydrogenations. Chemistry - A European Journal, 2014, 20, 15375-15384.	1.7	24
46	Asymmetric hydrogenation of unprotected indoles using iridium complexes derived from Pâ€“OP ligands and (reusable) BrÃ¸nsted acids. Green Chemistry, 2014, 16, 1153.	4.6	53
47	1,1-Pâ€“OP Ligands with P-Stereogenic Phosphino Groups in Asymmetric Hydrogenations and Hydroformylations. Organometallics, 2014, 33, 2960-2963.	1.1	22
48	Small Bite-Angle Pâ€“OP Ligands for Asymmetric Hydroformylation and Hydrogenation. Organic Letters, 2013, 15, 3634-3637.	2.4	43
49	Supramolecular Catalysis. , 2013, , 457-486.		3
50	Catalytic enantioselective reductive desymmetrisation of achiral and meso compounds. Chemical Communications, 2013, 49, 10666.	2.2	39
51	Rhodium-catalysed asymmetric hydrogenation as a valuable synthetic tool for the preparation of chiral drugs. Chemical Society Reviews, 2013, 42, 728-754.	18.7	345
52	[Ir(Pâ^’OP)]-Catalyzed Asymmetric Hydrogenation of Diversely Substituted Câ•N-Containing Heterocycles. Organic Letters, 2013, 15, 2066-2069.	2.4	87
53	Bis(phosphite) Ligands with Distal Regulation: Application in Rhodiumâ€mediated Asymmetric Hydroformylations. Chemistry - A European Journal, 2013, 19, 2720-2725.	1.7	46
54	Modular Pï£¿OP Ligands in Rhodiumâ€Mediated Asymmetric Hydrogenation: A Comparative Catalysis Study. Advanced Synthesis and Catalysis, 2012, 354, 3025-3035.	2.1	36

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55	Crystallization-Induced Dynamic Resolution of Stereolabile Biaryl Derivatives Involving Supramolecular Interactions. Crystal Growth and Design, 2012, 12, 2719-2723.	1.4	13
56	New Chiral Zinc Complexes: Synthesis, Structure, and Induction of Axial Chirality. Inorganic Chemistry, 2012, 51, 8643-8645.	1.9	12
57	Alkoxycarbonylation of Industrially Relevant Anilines Using Zn₄O(O₂CCH₃)₆ as Catalyst. Industrial & Engineering Chemistry Research, 2012, 51, 16165-16170.	1.8	26
58	Allosteric Pâ•O-Based Receptors for Dicarboxylic Acids. Organic Letters, 2011, 13, 3632-3635.	2.4	10
59	Phosphineâ˜Phosphinite and Phosphineâ˜Phosphite Ligands: Preparation and Applications in Asymmetric Catalysis. Chemical Reviews, 2011, 111, 2119-2176.	23.0	358
60	Chiral Rhodium Complexes Derived From Electron-Rich Phosphine-Phosphites as Asymmetric Hydrogenation Catalysts. Organometallics, 2011, 30, 6718-6725.	1.1	29
61	Enantioselective Access to Chiral Drugs by using Asymmetric Hydrogenation Catalyzed by Rh(Pï£¿OP) Complexes. Chemistry - A European Journal, 2011, 17, 13978-13982.	1.7	32
62	Modern Strategies in Supramolecular Catalysis. Advances in Catalysis, 2011, 54, 63-126.	0.1	24
63	A Bipyridineâ€Based â€œNakedâ€Eyeâ€•Fluorimetric Cu²⁺ Chemosensor. European Journal of Inorganic Chemistry, 2010, 2010, 1360-1365.	1.0	21
64	Highly Modular Pï£¿OP Ligands for Asymmetric Hydrogenation: Synthesis, Catalytic Activity, and Mechanism. Chemistry - A European Journal, 2010, 16, 6495-6508.	1.7	67
65	Catalytic Hydrogenation of Norbornadiene by a Rhodium Complex in a Selfâ€Folding Cavitand. Angewandte Chemie, 2010, 122, 7651-7654.	1.6	21
66	Catalytic Hydrogenation of Norbornadiene by a Rhodium Complex in a Selfâ€Folding Cavitand. Angewandte Chemie - International Edition, 2010, 49, 7489-7492.	7.2	48
67	Primary and Secondary Aminophosphines as Novel Pâ€Stereogenic Building Blocks for Ligand Synthesis. Angewandte Chemie - International Edition, 2010, 49, 9452-9455.	7.2	95
68	Highly modular P-OP ligands in asymmetric allylic substitution. Tetrahedron: Asymmetry, 2010, 21, 2281-2288.	1.8	28
69	Asymmetric Hydrogenation of Heteroaromatic Compounds Mediated by Iridiumâ˜(P-OP) Complexes. Organometallics, 2010, 29, 6627-6631.	1.1	62
70	Zinc Acetates as Efficient Catalysts for the Synthesis of Bis-isocyanate Precursors. Industrial & Engineering Chemistry Research, 2010, 49, 6362-6366.	1.8	34
71	Interfacial charge transfer dynamics in CdSe/dipole molecules coated quantum dot polymer blends. Physical Chemistry Chemical Physics, 2010, 12, 13047.	1.3	33
72	Towards Continuous Flow, Highly Enantioselective Allylic Amination: Ligand Design, Optimization and Supporting. Advanced Synthesis and Catalysis, 2009, 351, 1539-1556.	2.1	75

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73	Diastereoselectivity and molecular recognition of mercury(II) ions. Inorganic Chemistry Communication, 2009, 12, 131-134.	1.8	5
74	Supramolecular-Directed Chiral Induction in Biaryl Derivatives. Journal of Organic Chemistry, 2009, 74, 8794-8797.	1.7	27
75	A DFT/MM analysis of the effect of ligand substituents on asymmetric hydrogenation catalyzed by rhodium complexes with phosphineâ€“phosphinite ligands. Canadian Journal of Chemistry, 2009, 87, 1273-1279.	0.6	29
76	A Phenanthroline Heteroleptic Ruthenium Complex and Its Application to Dyeâ€Sensitised Solar Cells. European Journal of Inorganic Chemistry, 2008, 2008, 1955-1958.	1.0	22
77	Highly Modular Pâ€Oâ€P Ligands for Asymmetric Hydrogenation. Advanced Synthesis and Catalysis, 2008, 350, 1984-1990.	2.1	49
78	Dioxirane mediated asymmetric epoxidations: stereochemical studies via isotopic labeling. Organic and Biomolecular Chemistry, 2008, 6, 2276.	1.5	7
79	Structural Optimization of Enantiopure 2-Cyclialkylamino-2-aryl-1,1-diphenylethanols as Catalytic Ligands for Enantioselective Additions to Aldehydes. Journal of Organic Chemistry, 2008, 73, 5340-5353.	1.7	46
80	The effect of complex stoichiometry in supramolecular chirality transfer to zinc bisporphyrin systems. Chemical Communications, 2008, , 5939.	2.2	44
81	Interfacial Charge Recombination Between eâ^'â^'TiO2 and the Iâ^'/I3â^' Electrolyte in Ruthenium Heteroleptic Complexes: Dye Molecular Structureâ^'Open Circuit Voltage Relationship. Journal of the American Chemical Society, 2008, 130, 13558-13567.	6.6	125
82	Exploring Substrate Scope of Shi-Type Epoxidations. Synlett, 2008, 2008, 2856-2858.	1.0	3
83	Kinetic competition in liquid electrolyte and solid-state cyanine dye sensitized solar cells. Journal of Materials Chemistry, 2007, 17, 3037-3044.	6.7	156
84	Phosphinooxazolines Derived from 3â€Aminoâ€1,2â€diols: Highly Efficient Modular Pâ€N Ligands. Advanced Synthesis and Catalysis, 2007, 349, 2265-2278.	2.1	35
85	Ligand Anatomy:â€‰ Probing Remote Substituent Effects in Asymmetric Catalysis through NMR and Kinetic Analysis. Organic Letters, 2006, 8, 3895-3898.	2.4	13
86	(S)-2-[(R)-Fluoro(phenyl)methyl]oxirane: A General Reagent for Determining the e.e. of Î±-Chiral Amines.. ChemInform, 2006, 37, no.	0.1	0
87	(S)-2-[(R)-Fluoro(phenyl)methyl]oxirane:â€‰ A General Reagent for Determining the ee of Î±-Chiral Amines. Organic Letters, 2005, 7, 3829-3832.	2.4	59
88	Practical Synthesis of Shi's Diester Fructose Derivative for Catalytic Asymmetric Epoxidation of Alkenes. Journal of Organic Chemistry, 2005, 70, 10143-10146.	1.7	34
89	Boron Trifluoride Induced Reactions of Phenylglycidyl Ethers: A Convenient Synthesis of Enantiopure, Stereodefined Fluorohydrins.. ChemInform, 2004, 35, no.	0.1	0
90	Boron trifluoride-induced reactions of phenylglycidyl ethers: a convenient synthesis of enantiopure, stereodefined fluorohydrins. Tetrahedron Letters, 2004, 45, 6337-6341.	0.7	30

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91	Modular Bis(oxazoline) Ligands for Palladium-Catalyzed Allylic Alkylation: Unprecedented Conformational Behavior of a Bis(oxazoline) Palladium Î·3-1,3-Diphenylallyl Complex.. ChemInform, 2003, 34, no.	0.1	0
92	Addition of Diethylzinc to Dicobalt Hexacarbonyl Complexes of Î±,Î²-Acetylenic Aldehydes with Virtually Complete Enantioselectivity. A Formal Synthesis of (+)-Incrustoporin. Organic Letters, 2002, 4, 2381-2383.	2.4	27
93	Modular Bis(oxazoline) Ligands for Palladium Catalyzed Allylic Alkylation: Unprecedented Conformational Behaviour of a Bis(oxazoline) Palladium 3-1,3-Diphenylallyl Complex. Chemistry - A European Journal, 2002, 8, 4164-4178.	1.7	78
94	Addition of Diethylzinc to Dicobalt Hexacarbonyl Complexes of Î±,Î²â€Acetylenic Aldehydes with Virtually Complete Enantioselectivity. A Formal Synthesis of (+)â€Incrustoporin.. ChemInform, 2002, 33, 77-77.	0.1	0
95	Understanding NMR Multiplet Structure with WinDNMR. Journal of Chemical Education, 2000, 77, 130.	1.1	9
96	The dual-catalyzed (amino alcoho/Lewis acid) enantioselective addition of diethylzinc to N-diphenylphosphinoyl imines. Tetrahedron Letters, 1999, 40, 777-780.	0.7	39
97	A New Family of Modular Chiral Ligands for the Catalytic Enantioselective Reduction of Prochiral Ketones. Journal of Organic Chemistry, 1999, 64, 7902-7911.	1.7	69
98	NMR Studies of Molecular Recognition by Metalloporphyrins. , 1999, , 37-44.		1
99	13C CPMAS NMR spectroscopy as a probe for porphyrinâ€“porphyrin and hostâ€“guest interactions in the solid state. Journal of the Chemical Society Perkin Transactions II, 1998, , 715-724.	0.9	10
100	Reversing the stereochemistry of a Dielsâ€“Alder reaction: use of metalloporphyrin oligomers to control transition state stability. New Journal of Chemistry, 1998, 22, 493-502.	1.4	59
101	A Superior, Readily Available Enantiopure Ligand for the Catalytic Enantioselective Addition of Diethylzinc to Î±-Substituted Aldehydes. Journal of Organic Chemistry, 1998, 63, 7078-7082.	1.7	115
102	High Catalytic Activity of Chiral Amino Alcohol Ligands Anchored to Polystyrene Resins. Journal of Organic Chemistry, 1998, 63, 6309-6318.	1.7	101
103	Stereospecific templated synthesis of a triruthenium butadiyne-linked cyclic porphyrin trimer. Journal of the Chemical Society Dalton Transactions, 1997, , 985-990.	1.1	17
104	Ethyne-Linked Cyclic Porphyrin Oligomers:â€‰ Synthesis and Binding Properties. Journal of Organic Chemistry, 1997, 62, 240-241.	1.7	40
105	Stepwise Approach to Bimetalic Porphyrin Hosts:Â Spatially Enforced Coordination of a Nickel(II) Porphyrin. Inorganic Chemistry, 1997, 36, 6117-6126.	1.9	39
106	Synthesis of a Family of Fine-Tunable New Chiral Ligands for Catalytic Asymmetric Synthesis. Ligand Optimization through the Enantioselective Addition of Diethylzinc to Aldehydes. Journal of Organic Chemistry, 1997, 62, 4970-4982.	1.7	89
107	Enantioselective synthesis of N-Boc-1-naphthylglycine. Tetrahedron: Asymmetry, 1997, 8, 1581-1586.	1.8	25
108	New indane derived aminoalcohols as chiral ligands for the catalytic enantioselective addition of diethylzinc to aldehydes. Tetrahedron: Asymmetry, 1997, 8, 1559-1568.	1.8	31

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109	Computer assisted, mechanism directed design of a new ligand for the highly enantioselective catalytic addition of diethylzinc to aldehydes. Tetrahedron Letters, 1997, 38, 8773-8776.	0.7	59
110	A non-obvious reaction pathway in the formation of 2-aminobenzene-1,3-dicarbonitriles from Î±,Î²-unsaturated ketones or aldehydes. Tetrahedron, 1995, 51, 235-242.	1.0	19
111	Two step synthesis of pyrido[2,3-d]pyrimidines from acyclic precursors. Cyclization of 2-cyanamino-4,6-diphenylpyridine-3-carbonitrile by Hydrogen Halides. Tetrahedron, 1995, 51, 10253-10258.	1.0	10
112	Octatetrayne-linked porphyrins: â€˜stretchedâ€™ cyclic dimers and trimers with very spacious cavities. Journal of the Chemical Society Perkin Transactions 1, 1995, , 2275-2279.	0.9	43
113	A convergent approach to unsymmetrical porphyrin oligomers. Journal of the Chemical Society Chemical Communications, 1994, , 2657-2658.	2.0	16
114	Crystal structure of 3-amino-1-methyl-4,6-diphenylpyrazolo[3,4-b] -Pyridine, (C6HN3)(C6H5)2(CH3)(NH2). Zeitschrift Fur Kristallographie - Crystalline Materials, 1994, 209, 773-774.	0.4	2
115	Synthesis of 2-Cyanamino-4,6-diphenylpyridine-3-carbonitrile. Heterocycles, 1993, 36, 777.	0.4	4
116	Synthesis of 4-Amino-8-cyanoquinazolines from Enones and Enals. Heterocycles, 1993, 36, 2273.	0.4	22
117	A Simple Synthesis of 2-Methoxypyridine-3-carbonitriles. Heterocycles, 1993, 36, 769.	0.4	24
118	Structure of 2-amino-5-methylisophthalonitrile. Acta Crystallographica Section C: Crystal Structure Communications, 1992, 48, 208-209.	0.4	0
119	The reaction of malononitrile with chalcone: a controversial chemical process. Tetrahedron Letters, 1991, 32, 5375-5378.	0.7	53
120	Introduction to Supramolecular Catalysis. , 0, , 1-27.		7