

Inmaculada Fernández Fernández

List of Publications by Year in descending order

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2957
citing authors

#	ARTICLE	IF	CITATIONS
1	Recent Developments in the Synthesis and Utilization of Chiral Sulfoxides. <i>Chemical Reviews</i> , 2003, 103, 3651-3706.	47.7	1,088
2	Asymmetric synthesis of alkane- and arenesulfinates of diacetone-D-glucose (DAG): an improved and general route to both enantiomerically pure sulfoxides. <i>Journal of Organic Chemistry</i> , 1992, 57, 6789-6796.	3.2	167
3	C2-Symmetric bis-sulfoxides as chiral ligands in metal catalysed asymmetric diels-alder reactions.. <i>Tetrahedron Letters</i> , 1993, 34, 123-126.	1.4	110
4	Asymmetric aziridination by reaction of chiral N-sulfinylimines with sulfur ylides: Stereoselectivity improvement by use of tert-butylsulfinyl group as chiral auxiliary. <i>Tetrahedron: Asymmetry</i> , 1996, 7, 3407-3414.	1.8	96
5	The Isopropylsulfinyl Group: A Useful Chiral Controller for the Asymmetric Aziridination of Sulfinylimines and the Organocatalytic Allylation of Hydrazones. <i>Organic Letters</i> , 2005, 7, 1307-1310.	4.6	79
6	On the reaction of chiral sulfinimines with sulfur ylides: a novel route to the asymmetric aziridination. <i>Tetrahedron Letters</i> , 1995, 36, 295-298.	1.4	67
7	Asymmetric synthesis of optically pure tert-butyl sulfoxides using the DAG methodology. <i>Tetrahedron Letters</i> , 1994, 35, 5719-5722.	1.4	66
8	Dynamic Kinetic Transformation of Sulfinyl Chlorides: A Synthesis of Enantiomerically Pure C2-Symmetric Bis-Sulfoxides. <i>Journal of Organic Chemistry</i> , 2002, 67, 345-356.	3.2	62
9	Dynamic Kinetic Resolution of Bis-Sulfinyl Chlorides: A General Enantiodivergent Synthesis of C2-Symmetric Bis-Sulfinate Esters and Bis-Sulfoxides. <i>Journal of the American Chemical Society</i> , 2000, 122, 7598-7599.	13.7	60
10	Michael Additions of .alpha.-Sulfinyl and .alpha.-Sulfonyl Carbanions: The Unprecedented Reaction of .beta.-Keto Sulfoxides and .beta.-Keto Sulfones with Highly Stabilized Michael Acceptors. <i>Journal of Organic Chemistry</i> , 1995, 60, 6678-6679.	3.2	53
11	Additions of Enantiopure $\hat{1}\pm$ -Sulfinyl Carbanions to (S)-N-Sulfinimines: A Synthesis of $\hat{1}^2$ -Amino Sulfoxides and $\hat{1}^2$ -Amino Alcohols. <i>Journal of Organic Chemistry</i> , 2000, 65, 2856-2862.	3.2	51
12	An efficient synthesis of both enantiomers of chiral non racemic methylsulfoxides from DAG. <i>Tetrahedron Letters</i> , 1991, 32, 7299-7302.	1.4	48
13	Axial Chirality Control During Suzuki-Miyaura Cross-Coupling Reactions: The tert-Butylsulfinyl Group as an Efficient Chiral Auxiliary. <i>Organic Letters</i> , 2009, 11, 5130-5133.	4.6	46
14	A generalization of the base effect on the diastereoselective synthesis of sulfinic and phosphinic esters. <i>Tetrahedron Letters</i> , 1999, 40, 2029-2032.	1.4	45
15	C2-Symmetric Bissulfoxides as Organocatalysts in the Allylation of Benzoyl Hydrazones: Spacer and Concentration Effects. <i>Organic Letters</i> , 2007, 9, 2215-2218.	4.6	45
16	Improved non-covalent biofunctionalization of multi-walled carbon nanotubes using carbohydrate amphiphiles with a butterfly-like polyaromatic tail. <i>Nano Research</i> , 2010, 3, 764-778.	10.4	44
17	Tailoring carbon nanotube surfaces with glyconanorings: new bionanomaterials with specific lectin affinity. <i>Chemical Communications</i> , 2009, , 4121.	4.1	43
18	Asymmetric synthesis of the macrolide ($\hat{1}$)-aspicilin. <i>Tetrahedron: Asymmetry</i> , 1991, 2, 801-819.	1.8	42

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19	Enantioselective Organocatalytic Oxidation of Functionalized Sterically Hindered Disulfides. <i>Organic Letters</i> , 2007, 9, 1255-1258.	4.6	42
20	Supramolecular Diversity through Click Chemistry: Switching from Nanomicelles to 1D-Nanotubes and Tridimensional Hydrogels. <i>Chemistry of Materials</i> , 2013, 25, 4250-4261.	6.7	42
21	Non-covalent functionalization of carbon nanotubes with glycolipids: glyconanomaterials with specific lectin-affinity. <i>Soft Matter</i> , 2009, 5, 948.	2.7	41
22	Sulfonamide Phosphinates as Chiral Catalysts for the Enantioselective Organocatalytic Reduction of Imines. <i>Organic Letters</i> , 2016, 18, 3258-3261.	4.6	41
23	Mechanism of the Base-Assisted Displacement of Chloride by Alcohol in Sulfinyl Derivatives. <i>Journal of Organic Chemistry</i> , 2006, 71, 6388-6396.	3.2	39
24	Copper-Catalyzed Azide-Alkyne Cycloaddition in the Synthesis of Polydiacetylene: Click Glycoliposome as Biosensors for the Specific Detection of Lectins. <i>Chemistry - A European Journal</i> , 2011, 17, 1828-1836.	3.3	38
25	Enantiopure Sulforaphane Analogues with Various Substituents at the Sulfinyl Sulfur: Asymmetric Synthesis and Biological Activities. <i>Journal of Organic Chemistry</i> , 2009, 74, 6002-6009.	3.2	37
26	C2-Symmetric bis-thioglycosides as new ligands for palladium-catalyzed allylic substitutions. <i>Tetrahedron Letters</i> , 2003, 44, 3401-3404.	1.4	33
27	Highly modular mixed S/Olefin ligands for enantioselective Rh-catalyzed 1,4-addition. <i>Organic and Biomolecular Chemistry</i> , 2012, 10, 2366.	2.8	33
28	Flexible C2-Symmetric Bis-Sulfoxides as Ligands in Enantioselective 1,4-Addition of Boronic Acids to Electron-Deficient Alkenes. <i>Journal of Organic Chemistry</i> , 2013, 78, 6510-6521.	3.2	32
29	Phosphinite Thioglycosides Derived from Natural d-Sugars as Useful P/S Ligands for the Synthesis of Both Enantiomers in Palladium-Catalyzed Asymmetric Substitution. <i>Synlett</i> , 2005, 2005, 2963-2967.	1.8	31
30	Tuning of glyconanomaterial shape and size for selective bacterial cell agglutination. <i>Journal of Materials Chemistry B</i> , 2016, 4, 2028-2037.	5.8	31
31	Sulforaphane homologues: Enantiodivergent synthesis of both enantiomers, activation of the Nrf2 transcription factor and selective cytotoxic activity. <i>European Journal of Medicinal Chemistry</i> , 2014, 87, 552-563.	5.5	30
32	General Method for Asymmetric Synthesis of $\hat{\pm}$ -Methylsulfinyl Ketones: Application to the Synthesis of Optically Pure Oxisuran and Bioisosteres. <i>Journal of Organic Chemistry</i> , 1997, 62, 287-291.	3.2	28
33	Unprecedented base effect on the synthesis of chiral phosphinate esters: A new route to P-chiral phosphine oxides of high enantiomeric purity. <i>Tetrahedron: Asymmetry</i> , 1996, 7, 3353-3356.	1.8	27
34	Monodentate phosphites with carbohydrate substituents and their application in rhodium catalysed asymmetric hydrosilylation reactions. <i>Tetrahedron: Asymmetry</i> , 2001, 12, 633-642.	1.8	27
35	Highly Diastereoselective Oxidation of 2-Amino-2-deoxy-1-thio- $\hat{\beta}$ -D-glucopyranosides: Synthesis of Imino Sulfinylglycosides. <i>Journal of Organic Chemistry</i> , 2003, 68, 1433-1442.	3.2	25
36	N-Isopropylsulfinylimines as Useful Intermediates in the Synthesis of Chiral Amines: Expeditive Asymmetric Synthesis of the Calcimimetic (+)-NPS R-568. <i>Journal of Organic Chemistry</i> , 2008, 73, 745-748.	3.2	25

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37	Stereoselective Addition of $\hat{\pm}$ -Sulfinyl Carbanions to N-p-tolylsulfinylketimines: Synthesis of Optically Pure 1,2,2-trialkyl-2-aminoethanols. <i>Journal of Organic Chemistry</i> , 2004, 69, 4454-4463.	3.2	24
38	Glyconanosomes: Disk-Shaped Nanomaterials for the Water Solubilization and Delivery of Hydrophobic Molecules. <i>ACS Nano</i> , 2013, 7, 2145-2153.	14.6	24
39	Design, synthesis and biological studies of a library of NK1-Receptor Ligands Based on a 5-arylthiosubstituted 2-amino-4,6-diaryl-3-cyano-4 H -pyran core: Switch from antagonist to agonist effect by chemical modification. <i>European Journal of Medicinal Chemistry</i> , 2017, 138, 644-660.	5.5	24
40	Sulfur-Based Ligands Derived from D-Sugars: Synthesis of PdII Complexes, Application in Palladium-Catalyzed Allylic Alkylation for the Synthesis of Both Members of Enantiomer Pairs, and Structural Studies. <i>European Journal of Organic Chemistry</i> , 2006, 2006, 1685-1700.	2.4	23
41	Asymmetric Enamide Hydrogenation Using Phosphinite Thioglycosides: Synthesis of <i>d</i> - and <i>l</i> -Aminoesters Using <i>d</i> -Sugars as Catalyst Precursors. <i>Organic Letters</i> , 2008, 10, 3697-3700.	4.6	23
42	Chiral sulfur derivatives in the allylation of acyl hydrazones: C ₂ -symmetric bis-sulfinamides as enhanced chiral organic promoters.. <i>Organic and Biomolecular Chemistry</i> , 2010, 8, 4388.	2.8	22
43	An Efficient and Practical Method for the Enantioselective Synthesis of Tertiary Trifluoromethyl Carbinols. <i>Advanced Synthesis and Catalysis</i> , 2018, 360, 1273-1279.	4.3	21
44	Asymmetric synthesis of $\hat{2}$ -amino- $\hat{3}$ -hydroxysulfoxides. <i>Tetrahedron Letters</i> , 1993, 34, 699-702.	1.4	20
45	$\hat{\omega}$ Sulfolefin: a mixed sulfinamido-olefin ligand in enantioselective rhodium-catalyzed addition of arylboronic acids to trifluoromethyl ketones. <i>Organic and Biomolecular Chemistry</i> , 2014, 12, 1211-1214.	2.8	19
46	Asymmetric synthesis of the C-3/C-9 fragment of (\hat{r}) aspicilin. <i>Tetrahedron Letters</i> , 1991, 32, 509-512.	1.4	18
47	How does the Achiral Base Decide the Stereochemical Outcome in the Dynamic Kinetic Resolution of Sulfinyl Chlorides? A Computational Study. <i>Advanced Synthesis and Catalysis</i> , 2007, 349, 2103-2110.	4.3	18
48	Asymmetric Rhodium-Catalyzed 1,4- and 1,2-Additions of Arylboronic Acids to Activated Ketones in Water at Room Temperature Using a Mixed Sulfur-Olefin Ligand. <i>Advanced Synthesis and Catalysis</i> , 2013, 355, 1303-1307.	4.3	18
49	Enantiodivergent Approach to Trifluoromethylated Amines: A Concise Route to Both Enantiomeric Analogues of Calcimimetic NPS $\hat{568}$. <i>European Journal of Organic Chemistry</i> , 2010, 2010, 1502-1509.	2.4	17
50	DMAP-Catalysed Sulfinylation of Diacetone- <i>D</i> -Glucose: Improved Method for the Synthesis of Enantiopure <i>tert</i> -Butyl Sulfoxides and <i>tert</i> -Butanesulfinamides. <i>European Journal of Organic Chemistry</i> , 2014, 2014, 6935-6944.	2.4	17
51	Mixed S/P Ligands from Carbohydrates: Synthesis and Utilization in Asymmetric Catalysis. <i>Phosphorus, Sulfur and Silicon and the Related Elements</i> , 2005, 180, 1253-1258.	1.6	16
52	Synthesis of 1D-glyconanomaterials by a hybrid noncovalent-covalent functionalization of single wall carbon nanotubes: a study of their selective interactions with lectins and with live cells. <i>Nanoscale</i> , 2015, 7, 19259-19272.	5.6	16
53	Synthesis of enantiomerically pure (R)- and (S)-2-ethoxycarbonylmethyl-2-hydroxy-cyclohexanones. <i>Tetrahedron: Asymmetry</i> , 1998, 9, 3445-3453.	1.8	15
54	$\hat{\sim}$ ClickCarb $\hat{\sim}$ ™: modular sugar based ligands via click chemistry. <i>Tetrahedron Letters</i> , 2012, 53, 395-398.	1.4	15

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55	P/S ligands derived from carbohydrates in Rh-catalyzed hydrosilylation of ketones. <i>Organic and Biomolecular Chemistry</i> , 2012, 10, 355-360.	2.8	14
56	Synthesis and non-covalent functionalization of carbon nanotubes rings: new nanomaterials with lectin affinity. <i>Nanotechnology</i> , 2013, 24, 085604.	2.6	14
57	Clickable iron oxide NPs based on catechol derived ligands: synthesis and characterization. <i>Soft Matter</i> , 2020, 16, 3257-3266.	2.7	14
58	New sulfur-phosphine ligands derived from sugars: synthesis and application in palladium-catalyzed allylic alkylation and in rhodium asymmetric hydrogenation. <i>Arkivoc</i> , 2008, 2008, 211-224.	0.5	13
59	Highly diastereoselective formation of C2-symmetric bis-thioglycoside Pd(ii) complexes: the role of the exo anomeric effect. <i>Chemical Communications</i> , 2004, , 714-715.	4.1	12
60	Proline-coated gold nanoparticles as a highly efficient nanocatalyst for the enantioselective direct aldol reaction in water. <i>RSC Advances</i> , 2013, 3, 3861.	3.6	12
61	Recent advances in the stereoselective synthesis of chiral sulfoxides. <i>Advances in Sulfur Chemistry</i> , 2000, , 57-115.	0.0	12
62	C 2 -Symmetric Bis-Sulfoxide: Highly Diastereoselective 1,4-Addition to Stabilised Michael Acceptors. <i>Tetrahedron</i> , 2000, 56, 3749-3753.	1.9	11
63	Studies on the diastereoselective oxidation of 1-thio- β -D-glucopyranosides: synthesis of the usually less favoured R _S sulfoxide as a single diastereoisomer. <i>Organic and Biomolecular Chemistry</i> , 2015, 13, 1904-1914.	2.8	11
64	Mixed S/N and S/P/N ligands from carbohydrates: Synthesis and application in palladium-catalyzed allylic alkylation. <i>Inorganica Chimica Acta</i> , 2006, 359, 3048-3053.	2.4	10
65	Stereoselective Synthesis of <i>P</i> -Stereogenic <i>N</i> -Phosphinyl Compounds. <i>European Journal of Organic Chemistry</i> , 2016, 2016, 255-259.	2.4	10
66	NMR study on the stabilization and chiral discrimination of sulforaphane enantiomers and analogues by cyclodextrins. <i>Carbohydrate Polymers</i> , 2018, 187, 118-125.	10.2	10
67	Carbohydrate-Based NK1R Antagonists with Broad-Spectrum Anticancer Activity. <i>Journal of Medicinal Chemistry</i> , 2021, 64, 10350-10370.	6.4	10
68	Configurational assignment of 2-alkylsulphinyl-1-arylethanol diastereomers by ¹³ C NMR. <i>Magnetic Resonance in Chemistry</i> , 1988, 26, 687-692.	1.9	9
69	Steric Tuning of Sulfinamide/Sulfoxides as Chiral Ligands with C1, Pseudo-meso, and Pseudo-C2 Symmetries: Application in Rhodium(I)-Mediated Arylation. <i>Organic Letters</i> , 2019, 21, 6513-6518.	4.6	7
70	Asymmetric Synthesis of Biologically Active Compounds Bearing a Chiral Sulfinyl Group. <i>Phosphorus, Sulfur and Silicon and the Related Elements</i> , 1993, 74, 405-406.	1.6	6
71	Reaction of Enolates. , 2013, , 47-63.		6
72	Pseudo enantiomeric mixed S/P ligands derived from carbohydrates for the 1,4-addition of phenyl boronic acid to cyclohexenone. <i>RSC Advances</i> , 2016, 6, 3041-3047.	3.6	6

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73	Biologically Relevant Micellar Nanocarrier Systems for Drug Encapsulation and Functionalization of Metallic Nanoparticles. <i>Nanomaterials</i> , 2022, 12, 1753.	4.1	6
74	Synthesis and conformational analysis of 2-methylthioderivatives of 1-(2'-furyl)ethanol and their -methyl derivatives. <i>Tetrahedron</i> , 1989, 45, 1491-1500.	1.9	5
75	Biologically Active Isothiocyanates: Protecting Plants and Healing Humans. <i>Studies in Natural Products Chemistry</i> , 2017, 53, 167-242.	1.8	5
76	Pyrene-tagged carbohydrate-based mixed P/S ligand: spacer effect on the Rh(κ^2)-catalyzed hydrogenation of methyl \pm -acetamidocinnamate. <i>Organic and Biomolecular Chemistry</i> , 2017, 15, 5772-5780.	2.8	5
77	Asymmetric Synthesis of Alkyl and Aryl Sulfoxides of DAG: An Improved and General Route to Both Enantiomerically Pure Sulfoxides. <i>Phosphorus, Sulfur and Silicon and the Related Elements</i> , 1993, 74, 393-394.	1.6	4
78	The Isopropyl- and tert-Butylsulfinyl Groups in Asymmetric Synthesis: A Comparative Study. <i>Phosphorus, Sulfur and Silicon and the Related Elements</i> , 2005, 180, 1511-1512.	1.6	4
79	The fixing role of the tert-butyl group in the conformational properties of acyclic sulphur compounds. Synthesis and conformational analysis of 2-tert-butylthioderivatives of 1-phenylethanol and their β -methyl analogs. <i>Tetrahedron</i> , 1989, 45, 2703-2718.	1.9	3
80	C2-Symmetric Bis-Sulfoxides: Synthesis of Both Enantiomers and Utilization in Organometallic Chemistry and in Asymmetric Catalysis. <i>Phosphorus, Sulfur and Silicon and the Related Elements</i> , 2005, 180, 1509-1510.	1.6	3
81	κ^2 -Isopropylsulfinylimines vs. N-tert-butylsulfinylimines in the stereoselective synthesis of sterically hindered amines: an improved synthesis of enantiopure κ^2 - and κ^3 -rimantadine and the trifluoromethylated analogues. <i>Organic and Biomolecular Chemistry</i> , 2019, 17, 9854-9858.	2.8	3
82	C2-Symmetric Bis-Thioglycosides as Useful Ligands in Palladium-Catalyzed Asymmetric Allylic Alkylation: Synthesis of Both Enantiomers Using Natural Sugars as Ligand Precursors. <i>Phosphorus, Sulfur and Silicon and the Related Elements</i> , 2005, 180, 1507-1508.	1.6	2
83	Recent Developments in the Synthesis and Utilization of Chiral Sulfoxides. <i>ChemInform</i> , 2003, 34, no.	0.0	1
84	Synthesis and Characterization of New Biocompatible Amino Amphiphilic Compounds Derived from Oleic Acid as Nanovectors for Drug Delivery. <i>Proceedings (mdpi)</i> , 2019, 41, 1.	0.2	1
85	SYNTHESIS AND CONFORMATIONAL ANALYSIS OF 2-METHYLTHIO DERIVATIVES OF 1-(2-ETHIENYL)ETHANOL AND THEIR OMETHYL DERIVATIVES. <i>Phosphorus, Sulfur and Silicon and the Related Elements</i> , 1990, 47, 291-301.	1.6	0
86	The Isopropylsulfinyl Group: A Useful Chiral Controller for the Asymmetric Aziridination of Sulfinylimines and the Organocatalytic Allylation of Hydrazones.. <i>ChemInform</i> , 2005, 36, no.	0.0	0
87	C2-Symmetric Bis-sulfoxides: Synthesis of Both Enantiomers and Utilization in Organometallic Chemistry and in Asymmetric Catalysis. <i>ChemInform</i> , 2005, 36, no.	0.0	0
88	The Isopropyl- and tert-Butylsulfinyl Groups in Asymmetric Synthesis: A Comparative Study. <i>ChemInform</i> , 2005, 36, no.	0.0	0