M Isabel Matheu

List of Publications by Year
in descending order

48 papers	1,271 citations	331670 21 h-index	377865 34 g-index
56 all docs	56 docs citations	56 times ranked	1279 citing authors

#	Article	IF	Citations
1	Advances in the enantioselective synthesis of carbocyclic nucleosides. Chemical Society Reviews, 2013, 42, 5056.	38.1	95
2	Chemo-, Regio-, and Stereoselective Silver-Catalyzed Aziridination of Dienes: Scope, Mechanistic Studies, and Ring-Opening Reactions. Journal of the American Chemical Society, 2014, 136, 5342-5350.	13.7	89
3	Efficient Silverâ€Catalyzed Regioâ€and Stereospecific Aziridination of Dienes. Angewandte Chemie - International Edition, 2010, 49, 7092-7095.	13.8	86
4	An Efficient and General Enantioselective Synthesis of Sphingosine, Phythosphingosine, and 4-Substituted Derivatives. Organic Letters, 2009, 11, 205-208.	4.6	64
5	Phosphine-Free Suzukiâ€“Miyaura Cross-Coupling in Aqueous Media Enables Access to 2-C-Aryl-Glycosides. Organic Letters, 2012, 14, 1728-1731.	4.6	61
6	Recent advances in the glycosylation of sphingosines and ceramides. Carbohydrate Research, 2007, 342, 1595-1612.	2.3	57
7	Synthesis of <scp>d</scp>- and <scp>l</scp>-Carbocyclic Nucleosides via Rhodium-Catalyzed Asymmetric Hydroacylation as the Key Step. Organic Letters, 2008, 10, 4735-4738.	4.6	54
8	Recent Advances in the Synthesis of Sphingosine and Phytosphingosine, Molecules of Biological Significance. Current Organic Chemistry, 2010, 14, 2483-2521.	1.6	47
9	gem-Difluorination versus 1,2-migration and fragmentation in the reaction of 2- and 3-uloses with DAST. Influence of stereochemistry at the anomeric carbon atom. Journal of Organic Chemistry, 1991, 56, 4556-4559.	3.2	44
10	Stereoselective Synthesis of 2â€˜,3â€˜-Dideoxynucleosides by Addition of Selenium Electrophiles to Glycals. A Formal Synthesis of D4T from 2-Deoxyribose. Journal of Organic Chemistry, 1997, 62, 1501-1505.	3.2	44
11	Asymmetric sulfur ylide based enantioselective synthesis of D-erythro-sphingosine. Organic and Biomolecular Chemistry, 2008, 6, 4502.	2.8	35
12	Enantioselective Synthesis of Jaspine B (Pachastrissamine) and Its Câ€2 and/or Câ€3 Epimers. European Journal of Organic Chemistry, 2011, 2011, 1514-1519.	2.4	34
13	Synthesis of 2-deoxy-3,5-di-O-benzoyl-2,2-difluoro-D-ribose from D-glucose and D-mannose. A formal synthesis of gemcitabine. Tetrahedron, 1998, 54, 3523-3532.	1.9	33
14	Stereoselective Synthesis of 2-Deoxy-2-iodo-glycosides from Furanoses. A New Route to 2-Deoxy-glycosides and 2-Deoxy-oligosaccharides ofriboandxyloConfiguration. Journal of Organic Chemistry, 2005, 70, 10297-10310.	3.2	31
15	Synthesis of 2-Iodoglycals, Glycals, and 1,1â€˜-Disaccharides from 2-Deoxy-2-iodopyranoses under Dehydrative Glycosylation Conditions. Journal of Organic Chemistry, 2007, 72, 8998-9001.	3.2	31
16	Rhodium-catalyzed regio- and stereoselective oxyamination of dienes via tandem aziridination/ring-opening of dienyl carbamates. Chemical Communications, 2014, 50, 7344-7347.	4.1	31
17	General Method for Synthesizing Pyranoid Glycals.A New Route to Allal and Gulal Derivatives. Organic Letters, 2006, 8, 673-675.	4.6	29
18	An Improved Synthesis of 4-O-Benzoyl-2,2-difluorooleandrose froml-Rhamnose. Factors Determining the Synthesis of 2,2-Difluorocarbohydrates from 2-Uloses. Journal of Organic Chemistry, 1998, 63, 2184-2188.	3.2	25

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19	Highly efficient and stereoselective synthesis of Î²-glycolipids. Organic and Biomolecular Chemistry, 2008, 6, 443-446.	2.8	24
20	Synthesis of a Pâ€Stereogenic PNP^{tBu,Ph} Ruthenium Pincer Complex and Its Application in Asymmetric Reduction of Ketones. European Journal of Organic Chemistry, 2015, 2015, 3666-3669.	2.4	22
21	Stereoselective Synthesis of 2-Deoxy-2-phenylselenenyl Glycosides from Furanoses: Implication of the Phenylselenenyl Group in the Stereocontrolled Preparation of 2-Deoxy-ribo- and 2-Deoxy-xylo-oligosaccharides. European Journal of Organic Chemistry, 2007, 2007, 3564-3572.	2.4	21
22	Direct and Efficient Glycosylation Protocol for Synthesizing Î±â€Glycolipids: Application to the Synthesis of KRN7000. European Journal of Organic Chemistry, 2008, 2008, 1851-1854.	2.4	19
23	Metal-free and VOC-free O-glycosylation in supercritical CO₂. Green Chemistry, 2017, 19, 2687-2694.	9.0	19
24	Short and General Procedure for Synthesizing Cis-1,2-Fused 1,3-Oxathiolan-, 1,3-Oxaselenolan-, and 1,3-Oxazolidin-2-imine Carbohydrate Derivatives. Journal of Organic Chemistry, 2010, 75, 514-517.	3.2	17
25	Stereoselective Synthesis of 2-Deoxyglycosides from Sulfanyl Alkenes by Consecutive â€œOne Potâ€• Cyclization and Glycosylation Reactions. European Journal of Organic Chemistry, 2007, 2007, 2470-2476.	2.4	16
26	Efficient Synthesis of Î²â€Glycosphingolipids by Reaction of Stannylceramides with Glycosyl Iodides Promoted by TBAI/AW 300 Molecular Sieves. European Journal of Organic Chemistry, 2009, 2009, 3849-3852.	2.4	16
27	Synthesis of Hyperbranched Î²â€Galceramideâ€Containing Dendritic Polymers that Bind HIVâ€1 rgp120. European Journal of Organic Chemistry, 2010, 2010, 2657-2660.	2.4	15
28	Efficient and regioselective ring-opening of arylaziridines with alcohols, thiols, amines and N-heteroaromatic compounds using sulphated zirconia. Tetrahedron Letters, 2012, 53, 2525-2529.	1.4	15
29	Enantioselective Synthesis of Aminodiols by Sequential Rhodiumâ€Catalysed Oxyamination/Kinetic Resolution: Expanding the Substrate Scope of Amidineâ€Based Catalysis. Chemistry - A European Journal, 2018, 24, 4635-4642.	3.3	15
30	Stereoselective Tandem Epoxidationâ€“Alcoholysis/Hydrolysis of Glycals with Molybdenum Catalysts. Advanced Synthesis and Catalysis, 2010, 352, 3407-3418.	4.3	14
31	Towards the preparation of 2â€³-deoxy-2â€³-fluoro-adenophostin A. Study of the glycosylation reaction. Tetrahedron, 2008, 64, 10906-10911.	1.9	13
32	Tuning the Stereoelectronic Properties of 1-Sulfanylhex-1-enitols for the Sequential Stereoselective Synthesis of 2-Deoxy-2-iodo-Î²-d-allopyranosides. Journal of Organic Chemistry, 2014, 79, 3060-3068.	3.2	12
33	A new and extremely fast synthesis of 2-deoxy-2,2-difluoro-d-arabino-hexose (2-deoxy-2,2-difluoro-d-glucose). Carbohydrate Research, 1992, 233, C1-C3.	2.3	10
34	Stannyl ceramides as efficient acceptors for synthesising Î²-galactosyl ceramides. Organic and Biomolecular Chemistry, 2008, 6, 3831.	2.8	9
35	Ruthenium-catalyzed cross-metathesis with electron-rich phenyl vinyl sulfide enables access to 2,3-dideoxy-d-ribopyranose ring system donors. RSC Advances, 2014, 4, 19794-19799.	3.6	9
36	Chemical Access to <scp>d</scp>-Sarmentose Units Enables the Total Synthesis of Cardenolide Monoglycoside N-1 from Nerium oleander. Journal of Organic Chemistry, 2017, 82, 3327-3333.	3.2	9

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37	Palladium-catalyzed allylic amination: a powerful tool for the enantioselective synthesis of acyclic nucleoside phosphonates. Organic and Biomolecular Chemistry, 2017, 15, 7227-7234.	2.8	9
38	Synthesis of carbohydrate-based vinyl selenides via Wittig-type reactions. Carbohydrate Research, 2007, 342, 736-743.	2.3	8
39	Substrateâ€Regiocontrolled Synthesis of Enantioenriched Allylic Amines by Palladiumâ€Catalysed Asymmetric Allylic Amination: Formal Synthesis of Fagomine. Advanced Synthesis and Catalysis, 2016, 358, 4057-4066.	4.3	8
40	Studies on the Zn(II)-mediated electrophilic selenocyclization and elimination of 3,4-O-isopropylidene-protected hydroxyalkenyl sulfides: synthesis of a 2-phenylselenenyl glycal. Carbohydrate Research, 2010, 345, 1041-1045.	2.3	7
41	Sequential Directed Epoxydation-Acidolysis from Glycals with MCPBA. A Flexible Approach to Protected Glycosyl Donors. Journal of Organic Chemistry, 2011, 76, 9622-9629.	3.2	7
42	Fluorinated triazole-containing sphingosine analogues. Syntheses andin vitroevaluation as SPHK inhibitors. Organic and Biomolecular Chemistry, 2018, 16, 7230-7235.	2.8	7
43	Designing an effective approach for obtaining methylenecarboxylate analogues of adenophostin A. Preliminary results. Carbohydrate Research, 2009, 344, 2559-2567.	2.3	5
44	Enantioselective Formal Synthesis of Nectrisine Using a Palladium-Catalyzed Asymmetric Allylic Amination and Cross-Metathesis as Key Steps. Journal of Organic Chemistry, 2016, 81, 5217-5221.	3.2	5
45	Highly reactive 2-deoxy-2-iodo-<scp>d</scp>-allo and <scp>d</scp>-gulo pyranosyl sulfoxide donors ensure Î²-stereoselective glycosylations with steroidal aglycones. RSC Advances, 2018, 8, 30076-30079.	3.6	5
46	Enantioselective Synthesis of 3â€Heterosubstitutedâ€2â€aminoâ€1â€ols by Sequential Metalâ€Free Diene Aziridination/Kinetic Resolution. Chemistry - A European Journal, 2019, 25, 12628-12635.	3.3	4
47	Revealing 2-dimethylhydrazino-2-alkyl alkynyl sphingosine derivatives as sphingosine kinase 2 inhibitors: Some hints on the structural basis for selective inhibition. Bioorganic Chemistry, 2022, 121, 105668.	4.1	2
48	Probing Siteâ€Selective Conjugation Chemistries for the Construction of Homogeneous Synthetic Glycodendriproteins. ChemBioChem, 2022, , e202200020.	2.6	1