

Sonia Serna

List of Publications by Year in descending order

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42
papers

1,374
citations

394421

19
h-index

345221

36
g-index

45
all docs

45
docs citations

45
times ranked

1681
citing authors

#	ARTICLE	IF	CITATIONS
1	Chiral [2.2.2] Dienes as Ligands for Rh(I) in Conjugate Additions of Boronic Acids to a Wide Range of Acceptors. <i>Organic Letters</i> , 2004, 6, 3873-3876.	4.6	273
2	Cross-platform comparison of glycan microarray formats. <i>Glycobiology</i> , 2014, 24, 507-517.	2.5	114
3	Intramolecular PIFA-Mediated Alkyne Amidation and Carboxylation Reaction. <i>Journal of Organic Chemistry</i> , 2007, 72, 1526-1529.	3.2	97
4	Expedient Approach to 5-Aroyl-pyrrolidinones by a Novel PIFA-Mediated Alkyne Amidation Reaction. <i>Organic Letters</i> , 2005, 7, 3073-3076.	4.6	81
5	Construction of N-Glycan Microarrays by Using Modular Synthesis and On-Chip Nanoscale Enzymatic Glycosylation. <i>Chemistry - A European Journal</i> , 2010, 16, 13163-13175.	3.3	62
6	Fucosyltransferases as Synthetic Tools: Glycan Array Based Substrate Selection and Core Fucosylation of Synthetic N-Glycans. <i>Journal of the American Chemical Society</i> , 2011, 133, 16495-16502.	13.7	56
7	Synthesis and Microarray-Assisted Binding Studies of Core Xylose and Fucose Containing N-Glycans. <i>ACS Chemical Biology</i> , 2015, 10, 1290-1302.	3.4	56
8	Iodine(III)-mediated aromatic amidation vs olefin amidohydroxylation. The amide N-substituent makes the difference. <i>Tetrahedron</i> , 2004, 60, 6533-6539.	1.9	46
9	Structural basis for substrate specificity and catalysis of α 1,6-fucosyltransferase. <i>Nature Communications</i> , 2020, 11, 973.	12.8	45
10	A new and practical PIFA-promoted olefin amidohydroxylation: six- versus five-membered ring formation. <i>Tetrahedron Letters</i> , 2003, 44, 3483-3486.	1.4	43
11	MALDI-TOF Mass Spectrometric Analysis of Enzyme Activity and Lectin Trapping on an Array of N-Glycans. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 1801-1804.	13.8	42
12	Analysis of Microarrays by MALDI-TOF MS. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 7477-7481.	13.8	39
13	Chemoenzymatic Synthesis of N-glycan Positional Isomers and Evidence for Branch Selective Binding by Monoclonal Antibodies and Human C-type Lectin Receptors. <i>ACS Chemical Biology</i> , 2018, 13, 2269-2279.	3.4	38
14	On the Phenyliodine(III)-Bis(trifluoroacetate)-Mediated Olefin Amidohydroxylation Reaction. <i>European Journal of Organic Chemistry</i> , 2007, 2007, 437-444.	2.4	33
15	Array-assisted Characterization of a Fucosyltransferase Required for the Biosynthesis of Complex Core Modifications of Nematode N-Glycans. <i>Journal of Biological Chemistry</i> , 2013, 288, 21015-21028.	3.4	33
16	Fluoroacetamide Moieties as NMR Spectroscopy Probes for the Molecular Recognition of GlcNAc-Containing Sugars: Modulation of the CH π - π Stacking Interactions by Different Fluorination Patterns. <i>Chemistry - A European Journal</i> , 2017, 23, 3957-3965.	3.3	33
17	Influence of Core β -1,2-Xylosylation on Glycoprotein Recognition by Murine C-type Lectin Receptors and Its Impact on Dendritic Cell Targeting. <i>ACS Chemical Biology</i> , 2016, 11, 2347-2356.	3.4	27
18	FUT8-Directed Core Fucosylation of N-glycans Is Regulated by the Glycan Structure and Protein Environment. <i>ACS Catalysis</i> , 2021, 11, 9052-9065.	11.2	25

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19	Longitudinal Development of Antibody Responses in COVID-19 Patients of Different Severity with ELISA, Peptide, and Glycan Arrays: An Immunological Case Series. <i>Pathogens</i> , 2021, 10, 438.	2.8	21
20	Biological Evaluation of Multivalent Lewis X ^a –MGL Interactions. <i>ChemBioChem</i> , 2014, 15, 844-851.	2.6	19
21	Monitoring Glycan–Protein Interactions by NMR Spectroscopic Analysis: A Simple Chemical Tag That Mimics Natural CH Interactions. <i>Chemistry - A European Journal</i> , 2015, 21, 11408-11416.	3.3	17
22	Algal lectin binding to core (±1±6) fucosylated N-glycans: Structural basis for specificity and production of recombinant protein. <i>Glycobiology</i> , 2015, 25, 607-616.	2.5	17
23	On–Chip Screening of a Glycomimetic Library with C–Type Lectins Reveals Structural Features Responsible for Preferential Binding of Dectin ² over DC–SIGN/R and Langerin. <i>Chemistry - A European Journal</i> , 2018, 24, 14448-14460.	3.3	16
24	Cross–reactive carbohydrate determinant–specific IgE obscures true atopy and exhibits 3–fucose epitope–specific inverse associations with asthma. <i>Allergy: European Journal of Allergy and Clinical Immunology</i> , 2021, 76, 233-246.	5.7	15
25	Microarray assessment of N-glycan-specific IgE and IgG profiles associated with <i>Schistosoma mansoni</i> infection in rural and urban Uganda. <i>Scientific Reports</i> , 2019, 9, 3522.	3.3	14
26	TETRALEC, Artificial Tetrameric Lectins: A Tool to Screen Ligand and Pathogen Interactions. <i>International Journal of Molecular Sciences</i> , 2020, 21, 5290.	4.1	13
27	Synthesis of a core trisaccharide building block for the assembly of N-glycan neoconjugates. <i>Tetrahedron: Asymmetry</i> , 2009, 20, 851-856.	1.8	12
28	Three–Dimensional Arrays Using GlycoPEG Tags: Glycan Synthesis, Purification and Immobilisation. <i>Chemistry - A European Journal</i> , 2013, 19, 4776-4785.	3.3	11
29	Fluorescent Neoglycoprotein Gold Nanoclusters: Synthesis and Applications in Plant Lectin Sensing and Cell Imaging. <i>Nanoscale Research Letters</i> , 2018, 13, 360.	5.7	10
30	Mass spectrometry of carbohydrate-protein interactions on a glycan array conjugated to CVD graphene surfaces. <i>2D Materials</i> , 2020, 7, 024003.	4.4	10
31	Profiling Glycosyltransferase Activities by Tritium Imaging of Glycan Microarrays. <i>ChemBioChem</i> , 2013, 14, 862-869.	2.6	9
32	Analysis of defective protein ubiquitylation associated to adriamycin resistant cells. <i>Cell Cycle</i> , 2017, 16, 2337-2344.	2.6	5
33	Efficient monitoring of protein ubiquitylation levels using <sc>TUBE</sc>-based microarrays. <i>FEBS Letters</i> , 2016, 590, 2748-2756.	2.8	4
34	Measuring Bacterial Glycosyl Hydrolase Activity with a Soluble Capture Probe by Mass Spectrometry. <i>Analytical Chemistry</i> , 2018, 90, 12536-12543.	6.5	3
35	Minimal epitope for Mannitou IgM on paucimannose-carrying glycoproteins. <i>Glycobiology</i> , 2021, 31, 1005-1017.	2.5	3
36	Purification and characterization of a highly thermostable GlcNAc-binding lectin from <i>Collaea speciosa</i> seeds. <i>International Journal of Biological Macromolecules</i> , 2021, 193, 1562-1571.	7.5	3

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37	Cross-reactivity of glycan-reactive HIV-1 broadly neutralizing antibodies with parasite glycans. Cell Reports, 2022, 38, 110611.	6.4	3
38	Expeditious Approach to 5-Aroyl-pyrrolidinones by a Novel PIFA-Mediated Alkyne Amidation Reaction.. ChemInform, 2005, 36, no.	0.0	1
39	Glycosylation reduces the glycan-independent immunomodulatory effect of recombinant Oryzata lectin in Drosophila S2 cells. Scientific Reports, 2021, 11, 17958.	3.3	1
40	Application of the PIFA-mediated alkyne amidation reaction to the formal synthesis of (±)-clausenamide. Arkivoc, 2009, 2010, 7-14.	0.5	1
41	Chiral [2.2.2] Dienes as Ligands for Rh(I) in Conjugate Additions of Boronic Acids to a Wide Range of Acceptors.. ChemInform, 2005, 36, no.	0.0	0
42	Glycoarrays: An Invaluable Tool for Glycomics. , 2015, , 147-172.		0