Pradeep Chopra

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/5268996/publications.pdf

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30	958	567281 15	501196 28
papers	citations	h-index	g-index

38	38	38	1355
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Catalytic application of room temperature ionic liquids: [bmim][MeSO4] as a recyclable catalyst for synthesis of bis(indolyl)methanes. Ion-fishing by MALDI-TOF-TOF MS and MS/MS studies to probe the proposed mechanistic model of catalysis. Green Chemistry, 2008, 10, 1111.	9.0	156
2	Sialic acid-containing glycolipids mediate binding and viral entry of SARS-CoV-2. Nature Chemical Biology, 2022, 18, 81-90.	8.0	141
3	Heparan Sulfate Proteoglycans as Attachment Factor for SARS-CoV-2. ACS Central Science, 2021, 7, 1009-1018.	11.3	113
4	Controlled Chemoenzymatic Synthesis of Heparan Sulfate Oligosaccharides. Angewandte Chemie - International Edition, 2018, 57, 5340-5344.	13.8	49
5	Neutralizing the pathological effects of extracellular histones with small polyanions. Nature Communications, 2020, 11, 6408.	12.8	48
6	The 3- O -sulfation of heparan sulfate modulates protein binding and lyase degradation. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	44
7	Shotgun ion mobility mass spectrometry sequencing of heparan sulfate saccharides. Nature Communications, 2020, 11, 1481.	12.8	39
8	<scp>L</scp>â€Prolineâ€Catalyzed Activation of Methyl Ketones or Active Methylene Compounds and DMFâ€DMA for Syntheses of (2E)â€3â€Dimethylaminoâ€2â€•propenâ€1â€•ones. European Journal of Organic Chemistry, 2012, 2012, 6407-6413.	2.4	35
9	Modular Synthesis of Heparan Sulfate Oligosaccharides Having N-Acetyl and N-Sulfate Moieties. Journal of Organic Chemistry, 2020, 85, 16082-16098.	3.2	23
10	Dissecting structure-function of 3-O-sulfated heparin and engineered heparan sulfates. Science Advances, 2021, 7, eabl6026.	10.3	23
11	Sequencing Heparan Sulfate Using HILIC LC-NETD-MS/MS. Analytical Chemistry, 2019, 91, 11738-11746.	6.5	22
12	Software for Peak Finding and Elemental Composition Assignment for Glycosaminoglycan Tandem Mass Spectra. Molecular and Cellular Proteomics, 2018, 17, 1448-1456.	3.8	21
13	Negative Electron Transfer Dissociation Sequencing of 3-O-Sulfation-Containing Heparan Sulfate Oligosaccharides. Journal of the American Society for Mass Spectrometry, 2018, 29, 1262-1272.	2.8	20
14	Cyclization-blocked proguanil as a strategy to improve the antimalarial activity of atovaquone. Communications Biology, 2019, 2, 166.	4.4	20
15	Cryogenic Infrared Spectroscopy Reveals Structural Modularity in the Vibrational Fingerprints of Heparan Sulfate Diastereomers. Analytical Chemistry, 2020, 92, 10228-10232.	6.5	20
16	Improved de novo sequencing of heparin/heparan sulfate oligosaccharides by propionylation of sites of sulfation. Carbohydrate Research, 2018, 465, 16-21.	2.3	16
17	Arylsulfatase K inactivation causes mucopolysaccharidosis due to deficient glucuronate desulfation of heparan and chondroitin sulfate. Biochemical Journal, 2020, 477, 3433-3451.	3.7	16
18	A redox-active switch in fructosamine-3-kinases expands the regulatory repertoire of the protein kinase superfamily. Science Signaling, 2020, 13, .	3.6	12

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19	Fully Synthetic Heparan Sulfate-Based Neural Tissue Construct That Maintains the Undifferentiated State of Neural Stem Cells. ACS Chemical Biology, 2019, 14, 1921-1929.	3.4	11
20	Structure, Immunogenicity, and Conformation-Dependent Receptor Binding of the Postfusion Human Metapneumovirus F Protein. Journal of Virology, 2021, 95, e0059321.	3.4	11
21	Controlled Chemoenzymatic Synthesis of Heparan Sulfate Oligosaccharides. Angewandte Chemie, 2018, 130, 5438-5442.	2.0	10
22	Rapid and clean microwave-assisted synthesis of N-acetylneuraminic acid methyl ester and its Î²-methyl glycoside. Tetrahedron Letters, 2012, 53, 6254-6256.	1.4	9
23	Salt-free fractionation of complex isomeric mixtures of glycosaminoglycan oligosaccharides compatible with ESI-MS and microarray analysis. Scientific Reports, 2019, 9, 16566.	3.3	7
24	MASP-2 Is a Heparin-Binding Protease; Identification of Blocking Oligosaccharides. Frontiers in Immunology, 2020, 11, 732.	4.8	7
25	Synthetic Heparan Sulfate Hydrogels Regulate Neurotrophic Factor Signaling and Neuronal Network Activity. ACS Applied Materials & Interfaces, 2022, 14, 28476-28488.	8.0	6
26	Microwave-assisted synthesis of N-glycolylneuraminic acid derivatives. Tetrahedron Letters, 2013, 54, 5558-5561.	1.4	5
27	Distinct Mycoplasma pneumoniae Interactions with Sulfated and Sialylated Receptors. Infection and Immunity, 2020, 88, .	2.2	5
28	Synthesis of C-9 oxidised N-acetylneuraminic acid derivatives as biological probes. Tetrahedron Letters, 2011, 52, 98-100.	1.4	3
29	Influence of saccharide modifications on heparin lyase III substrate specificities. Glycobiology, 2022, 32, 208-217.	2.5	3
30	Molecular dynamics-based descriptors of 3-O-Sulfated Heparan sulfate as contributors of protein binding specificity. Computational Biology and Chemistry, 2022, 99, 107716.	2.3	3