

Pradeep Chopra

List of Publications by Year in descending order

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Version: 2024-02-01

30
papers

958
citations

567281

15
h-index

501196

28
g-index

38
all docs

38
docs citations

38
times ranked

1355
citing authors

#	ARTICLE	IF	CITATIONS
1	Influence of saccharide modifications on heparin lyase III substrate specificities. <i>Glycobiology</i> , 2022, 32, 208-217.	2.5	3
2	Sialic acid-containing glycolipids mediate binding and viral entry of SARS-CoV-2. <i>Nature Chemical Biology</i> , 2022, 18, 81-90.	8.0	141
3	Synthetic Heparan Sulfate Hydrogels Regulate Neurotrophic Factor Signaling and Neuronal Network Activity. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 28476-28488.	8.0	6
4	Molecular dynamics-based descriptors of 3-O-Sulfated Heparan sulfate as contributors of protein binding specificity. <i>Computational Biology and Chemistry</i> , 2022, 99, 107716.	2.3	3
5	The 3- <i>O</i> -sulfation of heparan sulfate modulates protein binding and lyase degradation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	44
6	Heparan Sulfate Proteoglycans as Attachment Factor for SARS-CoV-2. <i>ACS Central Science</i> , 2021, 7, 1009-1018.	11.3	113
7	Structure, Immunogenicity, and Conformation-Dependent Receptor Binding of the Postfusion Human Metapneumovirus F Protein. <i>Journal of Virology</i> , 2021, 95, e0059321.	3.4	11
8	Dissecting structure-function of 3-O-sulfated heparin and engineered heparan sulfates. <i>Science Advances</i> , 2021, 7, eabl6026.	10.3	23
9	Modular Synthesis of Heparan Sulfate Oligosaccharides Having <i>N</i> -Acetyl and <i>N</i> -Sulfate Moieties. <i>Journal of Organic Chemistry</i> , 2020, 85, 16082-16098.	3.2	23
10	Cryogenic Infrared Spectroscopy Reveals Structural Modularity in the Vibrational Fingerprints of Heparan Sulfate Diastereomers. <i>Analytical Chemistry</i> , 2020, 92, 10228-10232.	6.5	20
11	Distinct <i>Mycoplasma pneumoniae</i> Interactions with Sulfated and Sialylated Receptors. <i>Infection and Immunity</i> , 2020, 88, .	2.2	5
12	Neutralizing the pathological effects of extracellular histones with small polyanions. <i>Nature Communications</i> , 2020, 11, 6408.	12.8	48
13	MASP-2 Is a Heparin-Binding Protease; Identification of Blocking Oligosaccharides. <i>Frontiers in Immunology</i> , 2020, 11, 732.	4.8	7
14	Shotgun ion mobility mass spectrometry sequencing of heparan sulfate saccharides. <i>Nature Communications</i> , 2020, 11, 1481.	12.8	39
15	A redox-active switch in fructosamine-3-kinases expands the regulatory repertoire of the protein kinase superfamily. <i>Science Signaling</i> , 2020, 13, .	3.6	12
16	Arylsulfatase K inactivation causes mucopolysaccharidosis due to deficient glucuronate desulfation of heparan and chondroitin sulfate. <i>Biochemical Journal</i> , 2020, 477, 3433-3451.	3.7	16
17	Fully Synthetic Heparan Sulfate-Based Neural Tissue Construct That Maintains the Undifferentiated State of Neural Stem Cells. <i>ACS Chemical Biology</i> , 2019, 14, 1921-1929.	3.4	11
18	Sequencing Heparan Sulfate Using HILIC LC-NETD-MS/MS. <i>Analytical Chemistry</i> , 2019, 91, 11738-11746.	6.5	22

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19	Salt-free fractionation of complex isomeric mixtures of glycosaminoglycan oligosaccharides compatible with ESI-MS and microarray analysis. <i>Scientific Reports</i> , 2019, 9, 16566.	3.3	7
20	Cyclization-blocked proguanil as a strategy to improve the antimalarial activity of atovaquone. <i>Communications Biology</i> , 2019, 2, 166.	4.4	20
21	Controlled Chemoenzymatic Synthesis of Heparan Sulfate Oligosaccharides. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 5340-5344.	13.8	49
22	Software for Peak Finding and Elemental Composition Assignment for Glycosaminoglycan Tandem Mass Spectra. <i>Molecular and Cellular Proteomics</i> , 2018, 17, 1448-1456.	3.8	21
23	Controlled Chemoenzymatic Synthesis of Heparan Sulfate Oligosaccharides. <i>Angewandte Chemie</i> , 2018, 130, 5438-5442.	2.0	10
24	Negative Electron Transfer Dissociation Sequencing of 3-O-Sulfation-Containing Heparan Sulfate Oligosaccharides. <i>Journal of the American Society for Mass Spectrometry</i> , 2018, 29, 1262-1272.	2.8	20
25	Improved de novo sequencing of heparin/heparan sulfate oligosaccharides by propionylation of sites of sulfation. <i>Carbohydrate Research</i> , 2018, 465, 16-21.	2.3	16
26	Microwave-assisted synthesis of N-glycolylneuraminic acid derivatives. <i>Tetrahedron Letters</i> , 2013, 54, 5558-5561.	1.4	5
27	Proline-Catalyzed Activation of Methyl Ketones or Active Methylene Compounds and DMF-DMA for Syntheses of (2-E)-3-Dimethylamino-2-propen-1-ones. <i>European Journal of Organic Chemistry</i> , 2012, 2012, 6407-6413.		35
28	Rapid and clean microwave-assisted synthesis of N-acetylneuraminic acid methyl ester and its 2-methyl glycoside. <i>Tetrahedron Letters</i> , 2012, 53, 6254-6256.	1.4	9
29	Synthesis of C-9 oxidised N-acetylneuraminic acid derivatives as biological probes. <i>Tetrahedron Letters</i> , 2011, 52, 98-100.	1.4	3
30	Catalytic application of room temperature ionic liquids: [bmim][MeSO ₄] 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. <i>Green Chemistry</i> , 2008, 10, 1111.	9.0	156