

Yongmei Xu

List of Publications by Year in descending order

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Version: 2024-02-01

58
papers

2,399
citations

257450

24
h-index

214800

47
g-index

59
all docs

59
docs citations

59
times ranked

2353
citing authors

#	ARTICLE	IF	CITATIONS
1	Chemoenzymatic Synthesis of Homogeneous Ultralow Molecular Weight Heparins. <i>Science</i> , 2011, 334, 498-501.	12.6	353
2	Green Solvents in Carbohydrate Chemistry: From Raw Materials to Fine Chemicals. <i>Chemical Reviews</i> , 2015, 115, 6811-6853.	47.7	296
3	Homogeneous low-molecular-weight heparins with reversible anticoagulant activity. <i>Nature Chemical Biology</i> , 2014, 10, 248-250.	8.0	173
4	An Atlas of Î²-Glucuronidases in the Human Intestinal Microbiome. <i>Structure</i> , 2017, 25, 967-977.e5.	3.3	172
5	Chemoenzymatic Design of Heparan Sulfate Oligosaccharides*. <i>Journal of Biological Chemistry</i> , 2010, 285, 34240-34249.	3.4	138
6	Synthetic oligosaccharides can replace animal-sourced low-molecular weight heparins. <i>Science Translational Medicine</i> , 2017, 9, .	12.4	82
7	Synthesis of 3-O-Sulfated Oligosaccharides to Understand the Relationship between Structures and Functions of Heparan Sulfate. <i>Journal of the American Chemical Society</i> , 2017, 139, 5249-5256.	13.7	79
8	3-O-Sulfation of Heparan Sulfate Enhances Tau Interaction and Cellular Uptake. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 1818-1827.	13.8	71
9	Hs3st3-Modified Heparan Sulfate Controls KIT+ Progenitor Expansion by Regulating 3-O-Sulfotransferases. <i>Developmental Cell</i> , 2014, 29, 662-673.	7.0	64
10	Design of anti-inflammatory heparan sulfate to protect against acetaminophen-induced acute liver failure. <i>Science Translational Medicine</i> , 2020, 12, .	12.4	60
11	Expanding the 3-O-Sulfate Proteome-Enhanced Binding of Neuropilin-1 to 3-O-Sulfated Heparan Sulfate Modulates Its Activity. <i>ACS Chemical Biology</i> , 2016, 11, 971-980.	3.4	57
12	Chemoenzymatic Synthesis of Heparin Oligosaccharides with both Anti-factor Xa and Anti-factor IIa Activities. <i>Journal of Biological Chemistry</i> , 2012, 287, 29054-29061.	3.4	51
13	Divergent Synthesis of Heparan Sulfate Oligosaccharides. <i>Journal of Organic Chemistry</i> , 2015, 80, 12265-12279.	3.2	50
14	Controlled Chemoenzymatic Synthesis of Heparan Sulfate Oligosaccharides. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 5340-5344.	13.8	49
15	Circulating heparin oligosaccharides rapidly target the hippocampus in sepsis, potentially impacting cognitive functions. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 9208-9213.	7.1	45
16	Epitope mapping by a Wnt-blocking antibody: evidence of the Wnt binding domain in heparan sulfate. <i>Scientific Reports</i> , 2016, 6, 26245.	3.3	44
17	Heparan Sulfate Domains Required for Fibroblast Growth Factor 1 and 2 Signaling through Fibroblast Growth Factor Receptor 1c. <i>Journal of Biological Chemistry</i> , 2017, 292, 2495-2509.	3.4	43
18	Construction and characterisation of a heparan sulphate heptasaccharide microarray. <i>Chemical Communications</i> , 2017, 53, 1743-1746.	4.1	40

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19	Shotgun ion mobility mass spectrometry sequencing of heparan sulfate saccharides. <i>Nature Communications</i> , 2020, 11, 1481.	12.8	39
20	Structure Based Substrate Specificity Analysis of Heparan Sulfate 6-O-Sulfotransferases. <i>ACS Chemical Biology</i> , 2017, 12, 73-82.	3.4	36
21	Mouse Gut Microbiome-Encoded β -Glucuronidases Identified Using Metagenome Analysis Guided by Protein Structure. <i>MSystems</i> , 2019, 4, .	3.8	34
22	Role of Deacetylase Activity of N-Deacetylase/N-Sulfotransferase 1 in Forming N-Sulfated Domain in Heparan Sulfate. <i>Journal of Biological Chemistry</i> , 2015, 290, 20427-20437.	3.4	32
23	Chemoenzymatic synthesis and structural characterization of 2-O-sulfated glucuronic acid-containing heparan sulfate hexasaccharides. <i>Glycobiology</i> , 2014, 24, 681-692.	2.5	29
24	A Computational Framework for Heparan Sulfate Sequencing Using High-resolution Tandem Mass Spectra. <i>Molecular and Cellular Proteomics</i> , 2014, 13, 2490-2502.	3.8	25
25	Enzymatic Synthesis of Chondroitin Sulfate E to Attenuate Bacteria Lipopolysaccharide-Induced Organ Damage. <i>ACS Central Science</i> , 2020, 6, 1199-1207.	11.3	23
26	Directing the biological activities of heparan sulfate oligosaccharides using a chemoenzymatic approach. <i>Glycobiology</i> , 2012, 22, 96-106.	2.5	22
27	Active site flexibility revealed in crystal structures of <i>Parabacteroides merdae</i> β -glucuronidase from the human gut microbiome. <i>Protein Science</i> , 2018, 27, 2010-2022.	7.6	20
28	Gas-Phase Analysis of the Complex of Fibroblast Growth Factor 1 with Heparan Sulfate: A Traveling Wave Ion Mobility Spectrometry (TWIMS) and Molecular Modeling Study. <i>Journal of the American Society for Mass Spectrometry</i> , 2017, 28, 96-109.	2.8	18
29	Chemical synthesis of human syndecan-4 glycopeptide bearing O-, N-sulfation and multiple aspartic acids for probing impacts of the glycan chain and the core peptide on biological functions. <i>Chemical Science</i> , 2020, 11, 6393-6404.	7.4	18
30	Chemoenzymatic synthesis of unmodified heparin oligosaccharides: cleavage of p-nitrophenyl glucuronide by alkaline and Smith degradation. <i>Organic and Biomolecular Chemistry</i> , 2017, 15, 1222-1227.	2.8	16
31	Quantitative analysis of heparan sulfate using isotopically labeled calibrants. <i>Communications Biology</i> , 2020, 3, 425.	4.4	16
32	Construction of heparan sulfate microarray for investigating the binding of specific saccharide sequences to proteins. <i>Glycobiology</i> , 2021, 31, 188-199.	2.5	16
33	Investigation of the biological functions of heparan sulfate using a chemoenzymatic synthetic approach. <i>RSC Chemical Biology</i> , 2021, 2, 702-712.	4.1	16
34	Synthetic anticoagulant heparan sulfate attenuates liver ischemia reperfusion injury. <i>Scientific Reports</i> , 2020, 10, 17187.	3.3	13
35	A Traveling Wave Ion Mobility Spectrometry (TWIMS) Study of the Robo1-Heparan Sulfate Interaction. <i>Journal of the American Society for Mass Spectrometry</i> , 2018, 29, 1153-1165.	2.8	12
36	Characterization of the interaction between platelet factor 4 and homogeneous synthetic low molecular weight heparins. <i>Journal of Thrombosis and Haemostasis</i> , 2020, 18, 390-398.	3.8	12

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37	Ultrasensitive small molecule fluorogenic probe for human heparanase. <i>Chemical Science</i> , 2021, 12, 239-246.	7.4	12
38	Downstream Products are Potent Inhibitors of the Heparan Sulfate 2-O-Sulfotransferase. <i>Scientific Reports</i> , 2018, 8, 11832.	3.3	11
39	Analysis of 3-O-Sulfated Heparan Sulfate Using Isotopically Labeled Oligosaccharide Calibrants. <i>Analytical Chemistry</i> , 2022, 94, 2950-2957.	6.5	11
40	Chemoenzymatic synthesis of heparan sulfate and heparin. <i>Biocatalysis and Biotransformation</i> , 2012, 30, 296-308.	2.0	10
41	Controlled Chemoenzymatic Synthesis of Heparan Sulfate Oligosaccharides. <i>Angewandte Chemie</i> , 2018, 130, 5438-5442.	2.0	10
42	Specificity and action pattern of heparanase Bp, a Î²-glucuronidase from <i>Burkholderia pseudomallei</i> . <i>Glycobiology</i> , 2019, 29, 572-581.	2.5	10
43	Design and synthesis of active heparan sulfate-based probes. <i>Chemical Communications</i> , 2015, 51, 11019-11021.	4.1	9
44	Comparison of angiotensin-like protein 3 and 4 reveals structural and mechanistic similarities. <i>Journal of Biological Chemistry</i> , 2021, 296, 100312.	3.4	8
45	Synthesis of 3-O-Sulfated Heparan Sulfate Oligosaccharides Using 3-O-Sulfotransferase Isoform 4. <i>ACS Chemical Biology</i> , 2021, 16, 2026-2035.	3.4	8
46	In vitro and in vivo characterization of a reversible synthetic heparin analog. <i>Thrombosis Research</i> , 2016, 138, 121-129.	1.7	7
47	3-O sulfation of heparin leads to hepatotropism and longer circulatory half-life. <i>Thrombosis Research</i> , 2018, 167, 80-87.	1.7	7
48	Using engineered 6-O-sulfotransferase to improve the synthesis of anticoagulant heparin. <i>Organic and Biomolecular Chemistry</i> , 2020, 18, 8094-8102.	2.8	7
49	Deciphering the substrate recognition mechanisms of the heparan sulfate 3-O-sulfotransferase-3. <i>RSC Chemical Biology</i> , 2021, 2, 1239-1248.	4.1	6
50	Modernization of Enoxaparin Molecular Weight Determination Using Homogeneous Standards. <i>Pharmaceuticals</i> , 2017, 10, 66.	3.8	5
51	Structural and Substrate Specificity Analysis of 3-O-Sulfotransferase Isoform 5 to Synthesize Heparan Sulfate. <i>ACS Catalysis</i> , 2021, 11, 14956-14966.	11.2	5
52	Chemoenzymatic Synthesis of Homogeneous Heparan Sulfate and Chondroitin Sulfate Chimeras. <i>ACS Chemical Biology</i> , 2022, 17, 1207-1214.	3.4	5
53	3-O-Sulfation of Heparan Sulfate Enhances Tau Interaction and Cellular Uptake. <i>Angewandte Chemie</i> , 2020, 132, 1834-1843.	2.0	2
54	Inside Cover: Preactivation-Based, One-Pot Combinatorial Synthesis of Heparin-like Hexasaccharides for the Analysis of Heparin-Protein Interactions (<i>Chem. Eur. J.</i> 28/2010). <i>Chemistry - A European Journal</i> , 2010, 16, 8218-8218.	3.3	1

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55	Enzyme-Based Methods to Synthesize Homogeneous Glycosaminoglycan Oligosaccharides. , 2021, , 706-714.		1
56	Frontispiz: 3â€œ<i>O</i></i>â€œSulfation of Heparan Sulfate Enhances Tau Interaction and Cellular Uptake. Angewandte Chemie, 2020, 132, .	2.0	0
57	Frontispiece: 3â€œ<i>O</i></i>â€œSulfation of Heparan Sulfate Enhances Tau Interaction and Cellular Uptake. Angewandte Chemie - International Edition, 2020, 59, .	13.8	0
58	Abstract 594: Characterization of Anti-thrombotic and Anti-inflammatory Properties of New Synthetic, Protamine Reversible Low Molecular Weight Heparin. Arteriosclerosis, Thrombosis, and Vascular Biology, 2015, 35, .	2.4	0