Lingyun Li

List of Publications by Year
in descending order

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87 papers	4,601 citations	117571 34 h-index	106281 65 g-index
89 all docs	89 docs citations	89 times ranked	5373 citing authors

#	Article	IF	Citations
1	A Covalent Organic Framework Bearing Single Ni Sites as a Synergistic Photocatalyst for Selective Photoreduction of CO₂ to CO. Journal of the American Chemical Society, 2019, 141, 7615-7621.	6.6	525
2	Improving fatty acids production by engineering dynamic pathway regulation and metabolic control. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 11299-11304.	3.3	423
3	Kinase Activity of Overexpressed HipA Is Required for Growth Arrest and Multidrug Tolerance in Escherichia coli. Journal of Bacteriology, 2006, 188, 8360-8367.	1.0	181
4	Homogeneous low-molecular-weight heparins with reversible anticoagulant activity. Nature Chemical Biology, 2014, 10, 248-250.	3.9	173
5	Regulating malonyl-CoA metabolism via synthetic antisense RNAs for enhanced biosynthesis of natural products. Metabolic Engineering, 2015, 29, 217-226.	3.6	159
6	Design and Kinetic Analysis of a Hybrid Promoterâ€“Regulator System for Malonyl-CoA Sensing in Escherichia coli. ACS Chemical Biology, 2014, 9, 451-458.	1.6	123
7	Electron Transport in the Pathway of Acetate Conversion to Methane in the Marine Archaeon Methanosarcina acetivorans. Journal of Bacteriology, 2006, 188, 702-710.	1.0	122
8	The Circulating Glycosaminoglycan Signature of Respiratory Failure in Critically Ill Adults. Journal of Biological Chemistry, 2014, 289, 8194-8202.	1.6	121
9	An unconventional pathway for reduction of CO2 to methane in CO-grown Methanosarcina acetivorans revealed by proteomics. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 17921-17926.	3.3	119
10	A covalent organic framework bearing thioether pendant arms for selective detection and recovery of Au from ultra-low concentration aqueous solution. Chemical Communications, 2018, 54, 9977-9980.	2.2	114
11	Top-Down Approach for the Direct Characterization of Low Molecular Weight Heparins Using LC-FT-MS. Analytical Chemistry, 2012, 84, 8822-8829.	3.2	103
12	Structural Characterization of Pharmaceutical Heparins Prepared from Different Animal Tissues. Journal of Pharmaceutical Sciences, 2013, 102, 1447-1457.	1.6	99
13	Proteoglycan sequence. Molecular BioSystems, 2012, 8, 1613.	2.9	95
14	Quantitative Proteomic and Microarray Analysis of the ArchaeonMethanosarcinaacetivoransGrown with Acetate versus Methanol. Journal of Proteome Research, 2007, 6, 759-771.	1.8	93
15	Thioether-Functionalized 2D Covalent Organic Framework Featuring Specific Affinity to Au for Photocatalytic Hydrogen Production from Seawater. ACS Sustainable Chemistry and Engineering, 2019, 7, 18574-18581.	3.2	91
16	Wellâ€Đefined Metal Nanoparticles@Covalent Organic Framework Yolkâ€“Shell Nanocages by ZIFâ€8 Template as Catalytic Nanoreactors. Small, 2019, 15, e1804419.	5.2	87
17	Integrating single Ni sites into biomimetic networks of covalent organic frameworks for selective photoreduction of CO₂. Chemical Science, 2020, 11, 6915-6922.	3.7	78
18	Complete Mass Spectral Characterization of a Synthetic Ultralow-Molecular-Weight Heparin Using Collision-Induced Dissociation. Analytical Chemistry, 2012, 84, 5475-5478.	3.2	75

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19	Analysis of Total Human Urinary Glycosaminoglycan Disaccharides by Liquid Chromatographyâ€“Tandem Mass Spectrometry. Analytical Chemistry, 2015, 87, 6220-6227.	3.2	73
20	Bottom-Up Low Molecular Weight Heparin Analysis Using Liquid Chromatography-Fourier Transform Mass Spectrometry for Extensive Characterization. Analytical Chemistry, 2014, 86, 6626-6632.	3.2	70
21	Systemic Delivery of a Glucosylceramide Synthase Inhibitor Reduces CNS Substrates and Increases Lifespan in a Mouse Model of Type 2 Gaucher Disease. PLoS ONE, 2012, 7, e43310.	1.1	70
22	High-Field Asymmetric-Waveform Ion Mobility Spectrometry and Electron Detachment Dissociation of Isobaric Mixtures of Glycosaminoglycans. Journal of the American Society for Mass Spectrometry, 2014, 25, 258-268.	1.2	64
23	Iminosugar-Based Inhibitors of Glucosylceramide Synthase Increase Brain Glycosphingolipids and Survival in a Mouse Model of Sandhoff Disease. PLoS ONE, 2011, 6, e21758.	1.1	61
24	Iminosugar-based inhibitors of glucosylceramide synthase prolong survival but paradoxically increase brain glucosylceramide levels in Niemannâ€“Pick C mice. Molecular Genetics and Metabolism, 2012, 105, 621-628.	0.5	59
25	Glycosaminoglycanomics of Cultured Cells Using a Rapid and Sensitive LC-MS/MS Approach. ACS Chemical Biology, 2015, 10, 1303-1310.	1.6	58
26	Fluorous-Assisted Chemoenzymatic Synthesis of Heparan Sulfate Oligosaccharides. Organic Letters, 2014, 16, 2240-2243.	2.4	54
27	Isolation of bovine corneal keratan sulfate and its growth factor and morphogen binding. FEBS Journal, 2013, 280, 2285-2293.	2.2	51
28	A New Algorithm Using Cross-Assignment for Label-Free Quantitation with LCâ^'LTQ-FT MS. Journal of Proteome Research, 2007, 6, 2186-2194.	1.8	49
29	Intramolecular Disulfide Bond between Catalytic Cysteines in an Intein Precursor. Journal of the American Chemical Society, 2012, 134, 2500-2503.	6.6	44
30	Heparan Sulfate Domains Required for Fibroblast Growth Factor 1 and 2 Signaling through Fibroblast Growth Factor Receptor 1c. Journal of Biological Chemistry, 2017, 292, 2495-2509.	1.6	43
31	Proteome ofMethanosarcinaacetivoransPart II:Â Comparison of Protein Levels in Acetate- and Methanol-Grown Cells. Journal of Proteome Research, 2005, 4, 129-135.	1.8	41
32	Proteome ofMethanosarcinaacetivoransPart I:Â An Expanded View of the Biology of the Cell. Journal of Proteome Research, 2005, 4, 112-128.	1.8	40
33	Structurally Informative Tandem Mass Spectrometry of Highly Sulfated Natural and Chemoenzymatically Synthesized Heparin and Heparan Sulfate Glycosaminoglycans. Molecular and Cellular Proteomics, 2013, 12, 979-990.	2.5	39
34	High cell density cultivation of a recombinant E. coli strain expressing a key enzyme in bioengineered heparin production. Applied Microbiology and Biotechnology, 2013, 97, 3893-3900.	1.7	37
35	Lightâ€Driven Syngas Production over Defective ZnIn₂S₄ Nanosheets. Chemistry - A European Journal, 2021, 27, 3786-3792.	1.7	37
36	Analysis of 3-O-sulfo group-containing heparin tetrasaccharides in heparin by liquid chromatographyâ€“mass spectrometry. Analytical Biochemistry, 2014, 455, 3-9.	1.1	36

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37	Capillary electrophoresis for total glycosaminoglycan analysis. Analytical and Bioanalytical Chemistry, 2014, 406, 4617-4626.	1.9	33
38	New Algorithm for15N/14N Quantitation with LCâ˜'ESIâ˜'MS Using an LTQ-FT Mass Spectrometer. Journal of Proteome Research, 2006, 5, 2039-2045.	1.8	32
39	Method to Detect Contaminants in Heparin Using Radical Depolymerization and Liquid Chromatographyâ€"Mass Spectrometry. Analytical Chemistry, 2014, 86, 326-330.	3.2	32
40	Internal Disulfide Bond Acts as a Switch for Intein Activity. Biochemistry, 2013, 52, 5920-5927.	1.2	30
41	Carbohydrate-Containing Molecules as Potential Biomarkers in Colon Cancer. OMICS A Journal of Integrative Biology, 2014, 18, 231-241.	1.0	29
42	Compositional analysis and structural elucidation of glycosaminoglycans in chicken eggs. Glycoconjugate Journal, 2014, 31, 593-602.	1.4	27
43	Fibroblast Growth Factor-based Signaling through Synthetic Heparan Sulfate Blocks Copolymers Studied Using High Cell Density Three-dimensional Cell Printing. Journal of Biological Chemistry, 2014, 289, 9754-9765.	1.6	26
44	Optimization of bioprocess conditions improves production of a CHO cellâ€derived, bioengineered heparin. Biotechnology Journal, 2015, 10, 1067-1081.	1.8	26
45	Characterization of growth, optical properties, and laser performance of monoclinic Yb:MgWO_4 crystal. Optical Materials Express, 2016, 6, 1627.	1.6	26
46	Glycosaminoglycans and glycolipids as potential biomarkers in lung cancer. Glycoconjugate Journal, 2017, 34, 661-669.	1.4	26
47	Ultrasensitive Detection and Quantification of Acidic Disaccharides Using Capillary Electrophoresis and Quantum Dot-Based Fluorescence Resonance Energy Transfer. Analytical Chemistry, 2013, 85, 9356-9362.	3.2	25
48	Immobilized enzymes to convert N-sulfo, N-acetyl heparosan to a critical intermediate in the production of bioengineered heparin. Journal of Biotechnology, 2013, 167, 241-247.	1.9	25
49	Crystal growth, spectral properties and crystal field analysis of Cr3+:MgWO4. CrystEngComm, 2013, 15, 6083.	1.3	25
50	Borrelia burgdorferi glycosaminoglycan-binding proteins: a potential target for new therapeutics against Lyme disease. Microbiology (United Kingdom), 2017, 163, 1759-1766.	0.7	25
51	Investigating changes in the gas-phase conformation of Antithrombin III upon binding of Arixtra using traveling wave ion mobility spectrometry (TWIMS). Analyst, The, 2015, 140, 6980-6989.	1.7	24
52	Sequence Analysis and Domain Motifs in the Porcine Skin Decorin Glycosaminoglycan Chain. Journal of Biological Chemistry, 2013, 288, 9226-9237.	1.6	23
53	Controlling metallic Co0 in ZIF-67-derived N-C/Co composite catalysts for efficient photocatalytic CO2 reduction. Science China Materials, 2022, 65, 413-421.	3.5	23
54	Heparin stability by determining unsubstituted amino groups using hydrophilic interaction chromatography mass spectrometry. Analytical Biochemistry, 2014, 461, 46-48.	1.1	22

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55	Signal Amplification by Glycoâ€qPCR for Ultrasensitive Detection of Carbohydrates: Applications in Glycobiology. Angewandte Chemie - International Edition, 2012, 51, 11800-11804.	7.2	21
56	Crystal growth, spectroscopic properties and energy levels of Cr³⁺:Li₂Mg₂(WO₄)₃: a candidate for broadband laser application. RSC Advances, 2014, 4, 37041.	1.7	21
57	Crystal growth and spectral properties of Nd3+:Ca9Gd(VO4)7 crystal. Journal of Crystal Growth, 2011, 314, 331-335.	0.7	20
58	Layered Rare Earthâ€“Organic Framework as Highly Efficient Luminescent Matrix: The Crystal Structure, Optical Spectroscopy, Electronic Transition, and Luminescent Sensing Properties. Crystal Growth and Design, 2019, 19, 4754-4764.	1.4	19
59	Toward the chemoenzymatic synthesis of heparan sulfate oligosaccharides: oxidative cleavage of p-nitrophenyl group with ceric ammonium salts. Tetrahedron Letters, 2013, 54, 4471-4474.	0.7	18
60	Oneâ€Pot Fabrication of Pd Nanoparticles@Covalentâ€Organicâ€Frameworkâ€Derived Hollow Polyamine Spheres as a Synergistic Catalyst for Tandem Catalysis. Chemistry - A European Journal, 2020, 26, 1864-1870.	1.7	18
61	Highly Dispersive Ni@C and Co@C Nanoparticles Derived from Metalâ€“Organic Monolayers for Enhanced Photocatalytic CO₂ Reduction. Inorganic Chemistry, 2021, 60, 10738-10748.	1.9	18
62	g-C3N4 microtubes@CoNiO2 nanosheets pâ€“n heterojunction with a hierarchical hollow structure for efficient photocatalytic CO2 reduction. Applied Surface Science, 2022, 579, 151997.	3.1	18
63	Assays for determining heparan sulfate and heparin O-sulfotransferase activity and specificity. Analytical and Bioanalytical Chemistry, 2014, 406, 525-536.	1.9	17
64	Differentiating Chondroitin Sulfate Glycosaminoglycans Using Collision-Induced Dissociation; Uronic Acid Cross-Ring Diagnostic Fragments in a Single Stage of Tandem Mass Spectrometry. European Journal of Mass Spectrometry, 2015, 21, 275-285.	0.5	17
65	High Cell Density Cultivation of Recombinant Escherichia coli Strains Expressing 2-O-Sulfotransferase and C5-Epimerase for the Production of Bioengineered Heparin. Applied Biochemistry and Biotechnology, 2015, 175, 2986-2995.	1.4	17
66	Synthesis, morphology and spectroscopic properties of red-luminescent rhombohedral YOF: Yb³⁺, Er³⁺ powders. RSC Advances, 2015, 5, 77673-77681.	1.7	17
67	On-line separation and characterization of hyaluronan oligosaccharides derived from radical depolymerization. Carbohydrate Polymers, 2013, 96, 503-509.	5.1	16
68	Flux Exploration, Growth, and Optical Spectroscopic Properties of Large Size LaBSiO₅ and Eu³⁺-Substituted LaBSiO₅ Crystals. Crystal Growth and Design, 2017, 17, 6541-6549.	1.4	15
69	Triple-Wavelength Lasing with a Stabilized Î²-LaBSiO₅:Nd³⁺ Crystal. Journal of the American Chemical Society, 2022, 144, 11822-11830.	6.6	15
70	Growth, structure and optical properties of a nonlinear optical crystal Î±-LaBMoO6. CrystEngComm, 2013, 15, 5245.	1.3	14
71	Conformational flexibility of PL12 family heparinases: structure and substrate specificity of heparinase III fromBacteroides thetaiotaomicron(BT4657). Glycobiology, 2017, 27, 176-187.	1.3	14
72	Growth, Mechanical, Thermal and Spectral Properties of Cr3+âˆ¶MgMoO4 Crystal. PLoS ONE, 2012, 7, e30327.	1.1	13

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73	Heavy Chain Transfer by Tumor Necrosis Factor-stimulated Gene 6 to the Bikunin Proteoglycan. Journal of Biological Chemistry, 2015, 290, 5156-5166.	1.6	11
74	GlycCompSoft: Software for Automated Comparison of Low Molecular Weight Heparins Using Top-Down LC/MS Data. PLoS ONE, 2016, 11, e0167727.	1.1	11
75	Glycan Activation of a Sheddase: Electrostatic Recognition between Heparin and proMMP-7. Structure, 2017, 25, 1100-1110.e5.	1.6	11
76	Profiling pneumococcal type 3-derived oligosaccharides by high resolution liquid chromatographyâ€“tandem mass spectrometry. Journal of Chromatography A, 2015, 1397, 43-51.	1.8	9
77	From Sr₂Nb₂O₇ to Ca_xSr_{2â€“x}Nb₂O₇: An Effective Enhancement of Nonlinear Optical Activity by a Simple Way of Cation Substituting. Crystal Growth and Design, 2018, 18, 4140-4149.	1.4	9
78	Bottom-up analysis using liquid chromatographyâ€“Fourier transform mass spectrometry to characterize fucosylated chondroitin sulfates from sea cucumbers. Glycobiology, 2019, 29, 755-764.	1.3	9
79	Yb:Ca9Gd(VO4)7, a potential ultrafast pulse laser crystal with promising spectral properties. Journal of Luminescence, 2020, 221, 117085.	1.5	9
80	Neutralizing the anticoagulant activity of ultraâ€lowâ€molecularâ€weight heparins using Nâ€acetylglucosamine 6â€sulfatase. FEBS Journal, 2013, 280, 2523-2532.	2.2	8
81	Microarray platform affords improved product analysis in mammalian cell growth studies. Biotechnology Journal, 2014, 9, 386-395.	1.8	7
82	Improving luminescence and thermometric performance of Ba2CaWO6:Er3+ by tri-doping with Yb3+ and Na+. Journal of Rare Earths, 2023, 41, 42-50.	2.5	7
83	N-Sulfotestosteronan, A Novel Substrate for Heparan Sulfate 6-O-Sulfotransferases and its Analysis by Oxidative Degradation. Biopolymers, 2013, 99, 675-685.	1.2	5
84	Amino-functionalized YF3:Eu3+ nanoparticles: A selective two-in-one fluorescent probe for Cr(III) and Cr(VI) detection. Journal of Luminescence, 2020, 226, 117440.	1.5	5
85	Using CaF₂:Eu³⁺ powder as a luminescent probe to detect Cr₂O₇ ²⁻ ions: a new application on the environmental conservation of an old optical material. Optical Materials Express, 2018, 8, 2782.	1.6	3
86	Local charge transfer within a covalent organic framework and Pt nanoparticles promoting interfacial catalysis. Catalysis Science and Technology, 2022, 12, 3240-3246.	2.1	1
87	Circulating Endothelial Glycocalyx Fragments Impact Endothelial and Epithelial Repair after Septic Lung Injury. FASEB Journal, 2015, 29, 863.9.	0.2	0