

# Jonathan S Dordick

## List of Publications by Year in descending order

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Version: 2024-02-01

399  
papers

24,533  
citations

5574

82  
h-index

10734

138  
g-index

415  
all docs

415  
docs citations

415  
times ranked

23908  
citing authors

#	ARTICLE	IF	CITATIONS
1	Carbonic anhydrase for CO <sub>2</sub> capture, conversion and utilization. <i>Current Opinion in Biotechnology</i> , 2022, 74, 230-240.	6.6	43
2	Editorial overview: Emerging routes to sustainable energy capture and conversion into value-added products. <i>Current Opinion in Biotechnology</i> , 2022, 73, iii-vi.	6.6	0
3	Potential Anti-SARS-CoV-2 Activity of Pentosan Polysulfate and Mucopolysaccharide Polysulfate. <i>Pharmaceuticals</i> , 2022, 15, 258.	3.8	20
4	Chemobiocatalytic Synthesis of a Low-Molecular-Weight Heparin. <i>ACS Chemical Biology</i> , 2022, 17, 637-646.	3.4	8
5	Enzymatic synthesis of low molecular weight heparins from N-sulfo heparosan depolymerized by heparanase or heparin lyase. <i>Carbohydrate Polymers</i> , 2022, 295, 119825.	10.2	5
6	Heparosan Chain Characterization: Sequential Depolymerization of <i>E. Coli</i> K5 Heparosan by a Bacterial Eliminase Heparin Lyase III and a Bacterial Hydrolase Heparanase Bp to Prepare Defined Oligomers. <i>Biotechnology Journal</i> , 2021, 16, e2000336.	3.5	3
7	High density fermentation of probiotic <i>E. coli</i> Nissle 1917 towards heparosan production, characterization, and modification. <i>Applied Microbiology and Biotechnology</i> , 2021, 105, 1051-1062.	3.6	16
8	Preparation of Low Molecular Weight Heparin from a Remodeled Bovine Intestinal Heparin. <i>Journal of Medicinal Chemistry</i> , 2021, 64, 2242-2253.	6.4	7
9	Complete biosynthesis of a sulfated chondroitin in <i>Escherichia coli</i> . <i>Nature Communications</i> , 2021, 12, 1389.	12.8	35
10	Influence of bacterial culture medium on peptidoglycan binding of cell wall lytic enzymes. <i>Journal of Biotechnology</i> , 2021, 330, 27-34.	3.8	6
11	Endolysin-Based Autolytic <i>E. coli</i> System for Facile Recovery of Recombinant Proteins. <i>Journal of Agricultural and Food Chemistry</i> , 2021, 69, 3134-3143.	5.2	7
12	Facile fabrication of antibacterial and antiviral perhydrolase-polydopamine composite coatings. <i>Scientific Reports</i> , 2021, 11, 12410.	3.3	9
13	Advancing a rapid, high throughput screening platform for optimization of lentivirus production. <i>Biotechnology Journal</i> , 2021, 16, 2000621.	3.5	1
14	3D tumor spheroid microarray for high-throughput, high-content natural killer cell-mediated cytotoxicity. <i>Communications Biology</i> , 2021, 4, 893.	4.4	38
15	Platelet factor 4 polyanion immune complexes: heparin induced thrombocytopenia and vaccine-induced immune thrombotic thrombocytopenia. <i>Thrombosis Journal</i> , 2021, 19, 66.	2.1	15
16	Anti-SARS-CoV-2 Activity of Rhamnan Sulfate from <i>Monostroma nitidum</i> . <i>Marine Drugs</i> , 2021, 19, 685.	4.6	30
17	Highly Sensitive Immuno-CRISPR Assay for CXCL9 Detection. <i>Analytical Chemistry</i> , 2021, 93, 16528-16534.	6.5	25
18	Evaluating Heparin Products for Heparin-Induced Thrombocytopenia Using Surface Plasmon Resonance. <i>Journal of Pharmaceutical Sciences</i> , 2020, 109, 975-980.	3.3	13

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19	Advanced microtechnologies for high-throughput screening. , 2020, , 149-175.		1
20	Designer DNA architecture offers precise and multivalent spatial pattern-recognition for viral sensing and inhibition. Nature Chemistry, 2020, 12, 26-35.	13.6	193
21	A Revised Structure for the Glycolipid Terminus of Escherichia coli K5 Heparosan Capsular Polysaccharide. Biomolecules, 2020, 10, 1516.	4.0	11
22	Chemical O-sulfation of N-sulfoheparosan: a route to rare N-sulfo-3-O-sulfoglucosamine and 2-O-sulfoglucuronic acid. Glycoconjugate Journal, 2020, 37, 589-597.	2.7	0
23	High-throughput 3D screening for differentiation of hPSC-derived cell therapy candidates. Science Advances, 2020, 6, eaaz1457.	10.3	8
24	Sulfated polysaccharides effectively inhibit SARS-CoV-2 in vitro. Cell Discovery, 2020, 6, 50.	6.7	246
25	Uncovering a possible role of reactive oxygen species in magnetogenetics. Scientific Reports, 2020, 10, 13096.	3.3	21
26	Opportunities for broadening the application of cell wall lytic enzymes. Applied Microbiology and Biotechnology, 2020, 104, 9019-9040.	3.6	11
27	Remote activation of cellular signaling. Science, 2020, 368, 936-937.	12.6	4
28	Expression of enzymes for 3- $\epsilon$ -phosphoadenosine-5- $\epsilon$ -phosphosulfate (PAPS) biosynthesis and their preparation for PAPS synthesis and regeneration. Applied Microbiology and Biotechnology, 2020, 104, 7067-7078.	3.6	12
29	Antimicrobial effects of positively charged, conductive electrospun polymer fibers. Materials Science and Engineering C, 2020, 116, 111247.	7.3	7
30	Characterization of heparin and severe acute respiratory syndrome-related coronavirus 2 (SARS-CoV-2) spike glycoprotein binding interactions. Antiviral Research, 2020, 181, 104873.	4.1	233
31	Polysaccharide Sequence Influences the Specificity and Catalytic Activity of Glucuronyl C5-Epimerase. Biochemistry, 2020, 59, 2576-2584.	2.5	3
32	Exploiting CRISPR Cas9 in Three-Dimensional Stem Cell Cultures to Model Disease. Frontiers in Bioengineering and Biotechnology, 2020, 8, 692.	4.1	21
33	3D-Printed interfacial devices for biocatalytic CO <sub>2</sub> conversion at gas-liquid interface. Journal of CO <sub>2</sub> Utilization, 2020, 38, 291-298.	6.8	10
34	Three-dimensional in vitro cell culture devices using patient-derived cells for high-throughput screening of drug combinations. Medical Devices & Sensors, 2020, 3, e10067.	2.7	4
35	Substrate interaction inhibits $\beta$ -secretase production of amyloid- $\beta$ peptides. Chemical Communications, 2020, 56, 2578-2581.	4.1	3
36	Elucidating the unusual reaction kinetics of D-glucuronyl C5-epimerase. Glycobiology, 2020, 30, 847-858.	2.5	10

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37	Improved soluble expression and use of recombinant human renalase. PLoS ONE, 2020, 15, e0242109.	2.5	7
38	High-throughput combinatorial screening reveals interactions between signaling molecules that regulate adult neural stem cell fate. Biotechnology and Bioengineering, 2019, 116, 193-205.	3.3	12
39	Reducing <i>Staphylococcus aureus</i> resistance to lysostaphin using CRISPR-Cas9. Biotechnology and Bioengineering, 2019, 116, 3149-3159.	3.3	26
40	Metal-Organic Framework-Based Composite for Photocatalytic Detection of Prevalent Pollutant. ACS Applied Materials & Interfaces, 2019, 11, 31049-31059.	8.0	12
41	Heavy Heparin: A Stable Isotope-Enriched, Chemoenzymatically-Synthesized, Poly-Component Drug. Angewandte Chemie, 2019, 131, 6023-6027.	2.0	2
42	Metabolic engineering of <i>Bacillus megaterium</i> for heparosan biosynthesis using <i>Pasteurella multocida</i> heparosan synthase, PmHS2. Microbial Cell Factories, 2019, 18, 132.	4.0	25
43	Modular Assembly of Unique Chimeric Lytic Enzymes on a Protein Scaffold Possessing Anti-Staphylococcal Activity. Biomacromolecules, 2019, 20, 4035-4043.	5.4	13
44	Glycosaminoglycan Compositional Analysis of Relevant Tissues in Zika Virus Pathogenesis and <i>in Vitro</i> Evaluation of Heparin as an Antiviral against Zika Virus Infection. Biochemistry, 2019, 58, 1155-1166.	2.5	28
45	Selective antimicrobial activity of cell lytic enzymes in a bacterial consortium. Applied Microbiology and Biotechnology, 2019, 103, 7041-7054.	3.6	18
46	Determination of cerebrospinal fluid leakage by selective deletion of transferrin glycoform using an immunochromatographic assay. Theranostics, 2019, 9, 4182-4191.	10.0	9
47	Enzyme-Immobilized Chitosan Nanoparticles as Environmentally Friendly and Highly Effective Antimicrobial Agents. Biomacromolecules, 2019, 20, 2477-2485.	5.4	36
48	Heavy Heparin: A Stable Isotope-Enriched, Chemoenzymatically-Synthesized, Poly-Component Drug. Angewandte Chemie - International Edition, 2019, 58, 5962-5966.	13.8	35
49	Production and Characterization of Recombinant Collagen-Binding Resilin Nanocomposite for Regenerative Medicine Applications. Regenerative Engineering and Translational Medicine, 2019, 5, 362-372.	2.9	3
50	Back Cover Image, Volume 116, Number 12, December 2019. Biotechnology and Bioengineering, 2019, 116, ii.	3.3	0
51	High-throughput identification of factors promoting neuronal differentiation of human neural progenitor cells in microscale 3D cell culture. Biotechnology and Bioengineering, 2019, 116, 168-180.	3.3	25
52	Remodeling of Glycosaminoglycans During Differentiation of Adult Human Bone Mesenchymal Stromal Cells Toward Hepatocytes. Stem Cells and Development, 2019, 28, 278-289.	2.1	11
53	Selective Killing of Pathogenic Bacteria by Antimicrobial Silver Nanoparticle-Cell Wall Binding Domain Conjugates. ACS Applied Materials & Interfaces, 2018, 10, 13317-13324.	8.0	49
54	Three-Dimensional Cell-Based Microarrays: Printing Pluripotent Stem Cells into 3D Microenvironments. Methods in Molecular Biology, 2018, 1771, 69-81.	0.9	3

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55	Advancing Predictive Hepatotoxicity at the Intersection of Experimental, <i>in Silico</i> , and Artificial Intelligence Technologies. <i>Chemical Research in Toxicology</i> , 2018, 31, 412-430.	3.3	31
56	Improved strategies for electrochemical 1,4-NAD(P)H <sub>2</sub> regeneration: A new era of bioreactors for industrial biocatalysis. <i>Biotechnology Advances</i> , 2018, 36, 120-131.	11.7	39
57	Prediction of metabolism-induced hepatotoxicity on three-dimensional hepatic cell culture and enzyme microarrays. <i>Archives of Toxicology</i> , 2018, 92, 1295-1310.	4.2	24
58	Flexible Peptide Linkers Enhance the Antimicrobial Activity of Surface-Immobilized Bacteriolytic Enzymes. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 36746-36756.	8.0	31
59	Advancing <i>in vitro</i> – <i>in vivo</i> toxicity correlations via high-throughput three-dimensional primary hepatocyte culture. <i>AIChE Journal</i> , 2018, 64, 4331-4340.	3.6	1
60	Unprotonated Short-Chain Alkylamines Inhibit Staphylolytic Activity of Lysostaphin in a Wall Teichoic Acid-Dependent Manner. <i>Applied and Environmental Microbiology</i> , 2018, 84, .	3.1	10
61	3D-cultured neural stem cell microarrays on a micropillar chip for high-throughput developmental neurotoxicology. <i>Experimental Cell Research</i> , 2018, 370, 680-691.	2.6	11
62	Sensitive multiplex detection of whole bacteria using self-assembled cell binding domain complexes. <i>Analytica Chimica Acta</i> , 2018, 1030, 156-165.	5.4	14
63	Fabrication of enzyme-based coatings on intact multi-walled carbon nanotubes as highly effective electrodes in biofuel cells. <i>Scientific Reports</i> , 2017, 7, 40202.	3.3	42
64	Interaction of Zika Virus Envelope Protein with Glycosaminoglycans. <i>Biochemistry</i> , 2017, 56, 1151-1162.	2.5	102
65	Engineered heparins as new anticoagulant drugs. <i>Bioengineering and Translational Medicine</i> , 2017, 2, 17-30.	7.1	32
66	Biocatalytic Nanocomposites for Combating Bacterial Pathogens. <i>Annual Review of Chemical and Biomolecular Engineering</i> , 2017, 8, 87-113.	6.8	20
67	<i>In vitro</i> gene expression–coupled bacterial cell chip for screening species-specific antimicrobial enzymes. <i>Biotechnology and Bioengineering</i> , 2017, 114, 1648-1657.	3.3	4
68	Enzymatic Generation of Highly Anticoagulant Bovine Intestinal Heparin. <i>Journal of Medicinal Chemistry</i> , 2017, 60, 8673-8679.	6.4	19
69	Nanostructured glycan architecture is important in the inhibition of influenza A virus infection. <i>Nature Nanotechnology</i> , 2017, 12, 48-54.	31.5	131
70	Cell-Based Assay Design for High-Content Screening of Drug Candidates. <i>Journal of Microbiology and Biotechnology</i> , 2016, 26, 213-225.	2.1	72
71	Heparin and anticoagulation. <i>Frontiers in Bioscience - Landmark</i> , 2016, 21, 1372-1392.	3.0	156
72	Plasmonic activation of gold nanorods for remote stimulation of calcium signaling and protein expression in HEK 293T cells. <i>Biotechnology and Bioengineering</i> , 2016, 113, 2228-2240.	3.3	14

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73	Newly identified bacteriolytic enzymes that target a wide range of clinical isolates of <i>Clostridium difficile</i> . <i>Biotechnology and Bioengineering</i> , 2016, 113, 2568-2576.	3.3	20
74	Analysis of Heparins Derived From Bovine Tissues and Comparison to Porcine Intestinal Heparins. <i>Clinical and Applied Thrombosis/Hemostasis</i> , 2016, 22, 520-527.	1.7	41
75	Immobilization of glucose oxidase on graphene oxide for highly sensitive biosensors. <i>Biotechnology and Bioprocess Engineering</i> , 2016, 21, 573-579.	2.6	20
76	High-Throughput Toxicity and Phenotypic Screening of 3D Human Neural Progenitor Cell Cultures on a Microarray Chip Platform. <i>Stem Cell Reports</i> , 2016, 7, 970-982.	4.8	55
77	Wall Teichoic Acids Are Involved in the Medium-Induced Loss of Function of the Autolysin CD11 against <i>Clostridium difficile</i> . <i>Scientific Reports</i> , 2016, 6, 35616.	3.3	23
78	Bidirectional electromagnetic control of the hypothalamus regulates feeding and metabolism. <i>Nature</i> , 2016, 531, 647-650.	27.8	212
79	Enhanced assembly and colloidal stabilization of primate erythroparvovirus 1 virus-like particles for improved surface engineering. <i>Acta Biomaterialia</i> , 2016, 35, 206-214.	8.3	12
80	Selective characterization of proteins on nanoscale concave surfaces. <i>Biomaterials</i> , 2016, 75, 305-312.	11.4	8
81	Antimicrobial mechanism of resveratrolâ€‹ <i>trans</i> â€‹dihydrodimer produced from peroxidaseâ€‹catalyzed oxidation of resveratrol. <i>Biotechnology and Bioengineering</i> , 2015, 112, 2417-2428.	3.3	45
82	Binding domains of Bacillus anthracis phage endolysins recognize cell culture ageâ€‹related features on the bacterial surface. <i>Biotechnology Progress</i> , 2015, 31, 1487-1493.	2.6	5
83	A purification process for heparin and precursor polysaccharides using the pH responsive behavior of chitosan. <i>Biotechnology Progress</i> , 2015, 31, 1348-1359.	2.6	6
84	Characterization of the activity of the spore cortex lytic enzyme CwlJ1. <i>Biotechnology and Bioengineering</i> , 2015, 112, 1365-1375.	3.3	9
85	Detection of cerebrospinal fluid leakage by specific measurement of transferrin glycoforms. <i>Electrophoresis</i> , 2015, 36, 2425-2432.	2.4	8
86	Combinatorial one-pot chemoenzymatic synthesis of heparin. <i>Carbohydrate Polymers</i> , 2015, 122, 399-407.	10.2	59
87	Stem cell behavior on tailored porous oxide surface coatings. <i>Biomaterials</i> , 2015, 55, 96-109.	11.4	22
88	High Cell Density Cultivation of Recombinant Escherichia coli Strains Expressing 2-O-Sulfotransferase and C5-Epimerase for the Production of Bioengineered Heparin. <i>Applied Biochemistry and Biotechnology</i> , 2015, 175, 2986-2995.	2.9	17
89	Remote regulation of glucose homeostasis in mice using genetically encoded nanoparticles. <i>Nature Medicine</i> , 2015, 21, 92-98.	30.7	189
90	Editorial overview: Nanobiotechnology. <i>Current Opinion in Biotechnology</i> , 2014, 28, iv-v.	6.6	2

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91	Carbon Nanotubes in Biomedical Applications. <i>Frontiers in Nanobiomedical Research</i> , 2014, , 439-474.	0.1	1
92	Enzyme-based nanocomposites: Using nature to ward off emerging threats. , 2014, , .		0
93	Microarray platform affords improved product analysis in mammalian cell growth studies. <i>Biotechnology Journal</i> , 2014, 9, 386-395.	3.5	7
94	Enzyme-driven <i>Bacillus</i> spore coat degradation leading to spore killing. <i>Biotechnology and Bioengineering</i> , 2014, 111, 654-663.	3.3	19
95	Fibroblast Growth Factor-based Signaling through Synthetic Heparan Sulfate Blocks Copolymers Studied Using High Cell Density Three-dimensional Cell Printing. <i>Journal of Biological Chemistry</i> , 2014, 289, 9754-9765.	3.4	26
96	Assays for determining heparan sulfate and heparin O-sulfotransferase activity and specificity. <i>Analytical and Bioanalytical Chemistry</i> , 2014, 406, 525-536.	3.7	17
97	Biochemical strategies for enhancing the in vivo production of natural products with pharmaceutical potential. <i>Current Opinion in Biotechnology</i> , 2014, 25, 86-94.	6.6	43
98	Protein Immobilization in Hollow Nanostructures and Investigation of the Adsorbed Protein Behavior. <i>Langmuir</i> , 2014, 30, 1295-1303.	3.5	14
99	High Sensitivity Detection of Active Botulinum Neurotoxin by Glyco-Quantitative Polymerase Chain-Reaction. <i>Analytical Chemistry</i> , 2014, 86, 2279-2284.	6.5	6
100	Changes in glycosaminoglycan structure on differentiation of human embryonic stem cells towards mesoderm and endoderm lineages. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2014, 1840, 1993-2003.	2.4	41
101	High-throughput and combinatorial gene expression on a chip for metabolism-induced toxicology screening. <i>Nature Communications</i> , 2014, 5, 3739.	12.8	75
102	Growth inhibition of <i>Mycobacterium smegmatis</i> by mycobacteriophage-derived enzymes. <i>Enzyme and Microbial Technology</i> , 2014, 63, 1-6.	3.2	30
103	Nanotubes in biological applications. <i>Current Opinion in Biotechnology</i> , 2014, 28, 25-32.	6.6	119
104	Carbon Nanotube-Induced Loss of Multicellular Chirality on Micropatterned Substrate Is Mediated by Oxidative Stress. <i>ACS Nano</i> , 2014, 8, 2196-2205.	14.6	56
105	Three dimensional cellular microarray platform for human neural stem cell differentiation and toxicology. <i>Stem Cell Research</i> , 2014, 13, 36-47.	0.7	57
106	Expression of Low Endotoxin 3-O-Sulfotransferase in <i>Bacillus subtilis</i> and <i>Bacillus megaterium</i> . <i>Applied Biochemistry and Biotechnology</i> , 2013, 171, 954-962.	2.9	13
107	Enzyme-Based Listericidal Nanocomposites. <i>Scientific Reports</i> , 2013, 3, 1584.	3.3	47
108	Perhydrolase-nanotube paint composites with sporicidal and antiviral activity. <i>Applied Microbiology and Biotechnology</i> , 2013, 97, 8813-8821.	3.6	20

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109	Immobilized enzymes to convert N-sulfo, N-acetyl heparosan to a critical intermediate in the production of bioengineered heparin. <i>Journal of Biotechnology</i> , 2013, 167, 241-247.	3.8	25
110	Glycosaminoglycans in infectious disease. <i>Biological Reviews</i> , 2013, 88, 928-943.	10.4	152
111	Identifying Specific Protein Residues That Guide Surface Interactions and Orientation on Silica Nanoparticles. <i>Langmuir</i> , 2013, 29, 10841-10849.	3.5	28
112	Enzyme-Based Technologies: Perspectives and Opportunities. <i>ACS Symposium Series</i> , 2013, , 15-27.	0.5	0
113	Effect of eliminase gene (elmA) deletion on heparosan production and shedding in <i>Escherichia coli</i> K5. <i>Journal of Biotechnology</i> , 2013, 165, 175-177.	3.8	8
114	BioNano engineered hybrids for hypochlorous acid generation. <i>Process Biochemistry</i> , 2013, 48, 1355-1360.	3.7	28
115	High cell density cultivation of a recombinant <i>E. coli</i> strain expressing a key enzyme in bioengineered heparin production. <i>Applied Microbiology and Biotechnology</i> , 2013, 97, 3893-3900.	3.6	37
116	Effect of a variety of carbon nanotubes on the iodine-iodide redox pair. <i>Carbon</i> , 2013, 62, 177-181.	10.3	7
117	Metabolic engineering and in vitro biosynthesis of phytochemicals and non-natural analogues. <i>Plant Science</i> , 2013, 210, 10-24.	3.6	64
118	Enzyme-based formulations for decontamination: current state and perspectives. <i>Applied Microbiology and Biotechnology</i> , 2013, 97, 3293-3300.	3.6	26
119	FGF-FGFR Signaling Mediated through Glycosaminoglycans in Microtiter Plate and Cell-Based Microarray Platforms. <i>Biochemistry</i> , 2013, 52, 9009-9019.	2.5	29
120	Characterization of AmiBA2446, a Novel Bacteriolytic Enzyme Active against <i>Bacillus</i> Species. <i>Applied and Environmental Microbiology</i> , 2013, 79, 5899-5906.	3.1	21
121	Functional nanoscale biomolecular materials. <i>Biotechnology Journal</i> , 2013, 8, 165-166.	3.5	3
122	Exposure to Carbon Nanotubes Leads to Changes in the Cellular Biomechanics. <i>Advanced Healthcare Materials</i> , 2013, 2, 945-951.	7.6	28
123	Spaceflight Promotes Biofilm Formation by <i>Pseudomonas aeruginosa</i> . <i>PLoS ONE</i> , 2013, 8, e62437.	2.5	153
124	Preparation and Characterization of Electrospun Core Sheath Nanofibers from Multi-Walled Carbon Nanotubes and Poly(vinyl pyrrolidone). <i>Journal of Nanoscience and Nanotechnology</i> , 2012, 12, 2387-2393.	0.9	11
125	Molecular Mass Characterization of Glycosaminoglycans with Different Degrees of Sulfation in Bioengineered Heparin Process by Size Exclusion Chromatography. <i>Current Analytical Chemistry</i> , 2012, 8, 506-511.	1.2	11
126	Engineering Nanomaterials for Biomedical Applications Requires Understanding the Nano-Bio Interface: A Perspective. <i>Journal of Physical Chemistry Letters</i> , 2012, 3, 3149-3158.	4.6	98



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127	Application of Carbon Nanotubes to Wound Healing Biotechnology. ACS Symposium Series, 2012, , 155-174.	0.5	6
128	Signal Amplification by Glycoâ€œPCR for Ultrasensitive Detection of Carbohydrates: Applications in Glycobiology. Angewandte Chemie - International Edition, 2012, 51, 11800-11804.	13.8	21
129	Addressing endotoxin issues in bioengineered heparin. Biotechnology and Applied Biochemistry, 2012, 59, 420-428.	3.1	6
130	Human parvovirus B19 virus-like particles: InÂˆvitro assembly and stability. Biochimie, 2012, 94, 870-878.	2.6	39
131	Elmer L. Gaden, Jr. Tribute. Biotechnology and Bioengineering, 2012, 109, 2417-2421.	3.3	1
132	Position-Specific Chemical Modification and Quantitative Proteomics Disclose Protein Orientation Adsorbed on Silica Nanoparticles. Nano Letters, 2012, 12, 1583-1587.	9.1	57
133	Effect of gold nanoparticle structure on the conformation and function of adsorbed proteins. Biomaterials, 2012, 33, 8503-8516.	11.4	64
134	Influence of a three-dimensional, microarray environment on human Cell culture in drug screening systems. Biomaterials, 2012, 33, 9087-9096.	11.4	83
135	Highâ€œThroughput Transfection of Interfering RNA into a 3D Cellâ€œCulture Chip. Small, 2012, 8, 2091-2098.	10.0	13
136	Radio-Wave Heating of Iron Oxide Nanoparticles Can Regulate Plasma Glucose in Mice. Science, 2012, 336, 604-608.	12.6	428
137	Proteoglycans in stem cells. Biotechnology and Applied Biochemistry, 2012, 59, 65-76.	3.1	23
138	Polyphenolic disaccharides endow proteins with unusual resistance to aggregation. Biotechnology and Bioengineering, 2012, 109, 1869-1874.	3.3	7
139	Recent advances in sulfotransferase enzyme activity assays. Analytical and Bioanalytical Chemistry, 2012, 403, 1491-1500.	3.7	49
140	Expanding nature's small molecule diversity via in vitro biosynthetic pathway engineering. Current Opinion in Chemical Biology, 2012, 16, 186-195.	6.1	29
141	Trimer hydroxylated quinone derived from apocynin targets cysteine residues of p47phox preventing the activation of human vascular NADPH oxidase. Free Radical Biology and Medicine, 2012, 52, 962-969.	2.9	26
142	Laccase- and chloroperoxidase-nanotube paint composites with bactericidal and sporicidal activity. Enzyme and Microbial Technology, 2012, 50, 271-279.	3.2	35
143	Perhydrolase-nanotube-paint sporicidal composites stabilized by intramolecular crosslinking. Journal of Molecular Catalysis B: Enzymatic, 2012, 75, 20-26.	1.8	24
144	Engineering of routes to heparin and related polysaccharides. Applied Microbiology and Biotechnology, 2012, 93, 1-16.	3.6	106

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145	Exploring embryonic stem cell fate using cellular microarrays. , 2011, , .		0
146	Electrospun Polyvinylpyrrolidone Fibers with High Concentrations of Ferromagnetic and Superparamagnetic Nanoparticles. ACS Applied Materials & Interfaces, 2011, 3, 1958-1964.	8.0	38
147	Rapid and Quantitative Measurement of Metabolic Stability without Chromatography or Mass Spectrometry. Journal of the American Chemical Society, 2011, 133, 14476-14479.	13.7	7
148	Kinesin I ATPase Manipulates Biohybrids Formed from Tubulin and Carbon Nanotubes. Methods in Molecular Biology, 2011, 743, 77-93.	0.9	6
149	Response surface optimization of the heparosan N-deacetylation in producing bioengineered heparin. Journal of Biotechnology, 2011, 156, 188-196.	3.8	30
150	Effect of gold nanoparticle morphology on adsorbed protein structure and function. Biomaterials, 2011, 32, 7241-7252.	11.4	264
151	Lysostaphin-functionalized cellulose fibers with antistaphylococcal activity for wound healing applications. Biomaterials, 2011, 32, 9557-9567.	11.4	163
152	Ozonolysis of the double bond of the unsaturated uronate residue in low-molecular-weight heparin and K5 heparosan. Carbohydrate Research, 2011, 346, 1962-1966.	2.3	12
153	Analysis of E. coli K5 capsular polysaccharide heparosan. Analytical and Bioanalytical Chemistry, 2011, 399, 737-745.	3.7	46
154	Structural characterization of heparins from different commercial sources. Analytical and Bioanalytical Chemistry, 2011, 401, 2793-2803.	3.7	62
155	Preparation of synthetic wood composites using ionic liquids. Wood Science and Technology, 2011, 45, 719-733.	3.2	48
156	Control of the heparosan N-deacetylation leads to an improved bioengineered heparin. Applied Microbiology and Biotechnology, 2011, 91, 91-99.	3.6	49
157	Controlled photochemical depolymerization of K5 heparosan, a bioengineered heparin precursor. Carbohydrate Polymers, 2011, 86, 1365-1370.	10.2	23
158	Room temperature ionic liquids as emerging solvents for the pretreatment of lignocellulosic biomass. Biotechnology and Bioengineering, 2011, 108, 1229-1245.	3.3	347
159	Facile pretreatment of lignocellulosic biomass at high loadings in room temperature ionic liquids. Biotechnology and Bioengineering, 2011, 108, 2865-2875.	3.3	126
160	Polyphenolic Glycosides and Aglycones Utilize Opposing Pathways To Selectively Remodel and Inactivate Toxic Oligomers of Amyloid $\beta$ . ChemBioChem, 2011, 12, 1749-1758.	2.6	51
161	Mass balance analysis of contaminated heparin product. Analytical Biochemistry, 2011, 408, 147-156.	2.4	9
162	Ultra-performance ion-pairing liquid chromatography with on-line electrospray ion trap mass spectrometry for heparin disaccharide analysis. Analytical Biochemistry, 2011, 415, 59-66.	2.4	66

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