

Jonathan S Dordick

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

392
papers

21,151
citations

79
h-index

130
g-index

415
ext. papers

22,697
ext. citations

7.4
avg, IF

6.92
L-index

#	Paper	IF	Citations
392	Carbonic anhydrase for CO capture, conversion and utilization.. <i>Current Opinion in Biotechnology</i> , 2022 , 74, 230-240	11.4	1
391	Anti-SARS-CoV-2 Activity of Rhamnan Sulfate from .. <i>Marine Drugs</i> , 2021 , 19,	6	3
390	Complete biosynthesis of a sulfated chondroitin in Escherichia coli. <i>Nature Communications</i> , 2021 , 12, 1389	17.4	14
389	Influence of bacterial culture medium on peptidoglycan binding of cell wall lytic enzymes. <i>Journal of Biotechnology</i> , 2021 , 330, 27-34	3.7	2
388	Endolysin-Based Autolytic System for Facile Recovery of Recombinant Proteins. <i>Journal of Agricultural and Food Chemistry</i> , 2021 , 69, 3134-3143	5.7	4
387	Facile fabrication of antibacterial and antiviral perhydrolase-polydopamine composite coatings. <i>Scientific Reports</i> , 2021 , 11, 12410	4.9	4
386	Advancing a rapid, high throughput screening platform for optimization of lentivirus production. <i>Biotechnology Journal</i> , 2021 , 16, e2000621	5.6	
385	3D tumor spheroid microarray for high-throughput, high-content natural killer cell-mediated cytotoxicity. <i>Communications Biology</i> , 2021 , 4, 893	6.7	6
384	Heparosan Chain Characterization: Sequential Depolymerization of E. Coli K5 Heparosan by a Bacterial Eliminate Heparin Lyase III and a Bacterial Hydrolase Heparanase Bp to Prepare Defined Oligomers. <i>Biotechnology Journal</i> , 2021 , 16, e2000336	5.6	1
383	High density fermentation of probiotic E. coli Nissle 1917 towards heparosan production, characterization, and modification. <i>Applied Microbiology and Biotechnology</i> , 2021 , 105, 1051-1062	5.7	5
382	Preparation of Low Molecular Weight Heparin from a Remodeled Bovine Intestinal Heparin. <i>Journal of Medicinal Chemistry</i> , 2021 , 64, 2242-2253	8.3	1
381	Platelet factor 4 polyanion immune complexes: heparin induced thrombocytopenia and vaccine-induced immune thrombotic thrombocytopenia. <i>Thrombosis Journal</i> , 2021 , 19, 66	5.6	3
380	Highly Sensitive Immuno-CRISPR Assay for CXCL9 Detection. <i>Analytical Chemistry</i> , 2021 ,	7.8	1
379	Remote activation of cellular signaling. <i>Science</i> , 2020 , 368, 936-937	33.3	2
378	Expression of enzymes for 3Rphosphoadenosine-5Rphosphosulfate (PAPS) biosynthesis and their preparation for PAPS synthesis and regeneration. <i>Applied Microbiology and Biotechnology</i> , 2020 , 104, 7067-7078	5.7	5
377	Antimicrobial effects of positively charged, conductive electrospun polymer fibers. <i>Materials Science and Engineering C</i> , 2020 , 116, 111247	8.3	4
376	Characterization of heparin and severe acute respiratory syndrome-related coronavirus 2 (SARS-CoV-2) spike glycoprotein binding interactions. <i>Antiviral Research</i> , 2020 , 181, 104873	10.8	148

375	Polysaccharide Sequence Influences the Specificity and Catalytic Activity of Glucuronyl C5-Epimerase. <i>Biochemistry</i> , 2020 , 59, 2576-2584	3.2	1
374	Exploiting CRISPR Cas9 in Three-Dimensional Stem Cell Cultures to Model Disease. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020 , 8, 692	5.8	10
373	3D-Printed interfacial devices for biocatalytic CO2 conversion at gas-liquid interface. <i>Journal of CO2 Utilization</i> , 2020 , 38, 291-298	7.6	5
372	Three-dimensional in vitro cell culture devices using patient-derived cells for high-throughput screening of drug combinations. <i>Medical Devices & Sensors</i> , 2020 , 3, e10067	1.6	2
371	Substrate interaction inhibits β secretase production of amyloid- β peptides. <i>Chemical Communications</i> , 2020 , 56, 2578-2581	5.8	2
370	Improved soluble expression and use of recombinant human renalase. <i>PLoS ONE</i> , 2020 , 15, e0242109	3.7	4
369	Evaluating Heparin Products for Heparin-Induced Thrombocytopenia Using Surface Plasmon Resonance. <i>Journal of Pharmaceutical Sciences</i> , 2020 , 109, 975-980	3.9	5
368	Advanced microtechnologies for high-throughput screening 2020 , 149-175		0
367	Designer DNA architecture offers precise and multivalent spatial pattern-recognition for viral sensing and inhibition. <i>Nature Chemistry</i> , 2020 , 12, 26-35	17.6	82
366	A Revised Structure for the Glycolipid Terminus of K5 Heparosan Capsular Polysaccharide. <i>Biomolecules</i> , 2020 , 10,	5.9	3
365	Chemical O-sulfation of N-sulfoheparosan: a route to rare N-sulfo-3-O-sulfoglucosamine and 2-O-sulfoglucuronic acid. <i>Glycoconjugate Journal</i> , 2020 , 37, 589-597	3	
364	High-throughput 3D screening for differentiation of hPSC-derived cell therapy candidates. <i>Science Advances</i> , 2020 , 6, eaaz1457	14.3	3
363	Sulfated polysaccharides effectively inhibit SARS-CoV-2 in vitro. <i>Cell Discovery</i> , 2020 , 6, 50	22.3	144
362	Uncovering a possible role of reactive oxygen species in magnetogenetics. <i>Scientific Reports</i> , 2020 , 10, 13096	4.9	7
361	Opportunities for broadening the application of cell wall lytic enzymes. <i>Applied Microbiology and Biotechnology</i> , 2020 , 104, 9019-9040	5.7	5
360	Elucidating the unusual reaction kinetics of D-glucuronyl C5-epimerase. <i>Glycobiology</i> , 2020 , 30, 847-858	5.8	4
359	Metabolic engineering of <i>Bacillus megaterium</i> for heparosan biosynthesis using <i>Pasteurella multocida</i> heparosan synthase, PmHS2. <i>Microbial Cell Factories</i> , 2019 , 18, 132	6.4	15
358	Modular Assembly of Unique Chimeric Lytic Enzymes on a Protein Scaffold Possessing Anti-Staphylococcal Activity. <i>Biomacromolecules</i> , 2019 , 20, 4035-4043	6.9	11

357	Glycosaminoglycan Compositional Analysis of Relevant Tissues in Zika Virus Pathogenesis and in Vitro Evaluation of Heparin as an Antiviral against Zika Virus Infection. <i>Biochemistry</i> , 2019 , 58, 1155-1166 ^{3,2}	17
356	Selective antimicrobial activity of cell lytic enzymes in a bacterial consortium. <i>Applied Microbiology and Biotechnology</i> , 2019 , 103, 7041-7054	5.7 11
355	Determination of cerebrospinal fluid leakage by selective deletion of transferrin glycoform using an immunochromatographic assay. <i>Theranostics</i> , 2019 , 9, 4182-4191	12.1 6
354	Enzyme-Immobilized Chitosan Nanoparticles as Environmentally Friendly and Highly Effective Antimicrobial Agents. <i>Biomacromolecules</i> , 2019 , 20, 2477-2485	6.9 28
353	Heavy Heparin: A Stable Isotope-Enriched, Chemoenzymatically-Synthesized, Poly-Component Drug. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 5962-5966	16.4 27
352	High-throughput combinatorial screening reveals interactions between signaling molecules that regulate adult neural stem cell fate. <i>Biotechnology and Bioengineering</i> , 2019 , 116, 193-205	4.9 11
351	Reducing Staphylococcus aureus resistance to lysostaphin using CRISPR-dCas9. <i>Biotechnology and Bioengineering</i> , 2019 , 116, 3149-3159	4.9 13
350	Metal-Organic Framework-Based Composite for Photocatalytic Detection of Prevalent Pollutant. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 31049-31059	9.5 7
349	Heavy Heparin: A Stable Isotope-Enriched, Chemoenzymatically-Synthesized, Poly-Component Drug. <i>Angewandte Chemie</i> , 2019 , 131, 6023-6027	3.6 1
348	Production and Characterization of Recombinant Collagen-Binding Resilin Nanocomposite for Regenerative Medicine Applications. <i>Regenerative Engineering and Translational Medicine</i> , 2019 , 5, 362-372 ^{2,4}	1
347	High-throughput identification of factors promoting neuronal differentiation of human neural progenitor cells in microscale 3D cell culture. <i>Biotechnology and Bioengineering</i> , 2019 , 116, 168-180	4.9 13
346	Remodeling of Glycosaminoglycans During Differentiation of Adult Human Bone Mesenchymal Stromal Cells Toward Hepatocytes. <i>Stem Cells and Development</i> , 2019 , 28, 278-289	4.4 7
345	Selective Killing of Pathogenic Bacteria by Antimicrobial Silver Nanoparticle-Cell Wall Binding Domain Conjugates. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 13317-13324	9.5 32
344	Three-Dimensional Cell-Based Microarrays: Printing Pluripotent Stem Cells into 3D Microenvironments. <i>Methods in Molecular Biology</i> , 2018 , 1771, 69-81	1.4 3
343	Advancing Predictive Hepatotoxicity at the Intersection of Experimental, in Silico, and Artificial Intelligence Technologies. <i>Chemical Research in Toxicology</i> , 2018 , 31, 412-430	4 18
342	Improved strategies for electrochemical 1,4-NAD(P)H regeneration: A new era of bioreactors for industrial biocatalysis. <i>Biotechnology Advances</i> , 2018 , 36, 120-131	17.8 23
341	3D-cultured neural stem cell microarrays on a micropillar chip for high-throughput developmental neurotoxicology. <i>Experimental Cell Research</i> , 2018 , 370, 680-691	4.2 6
340	Sensitive multiplex detection of whole bacteria using self-assembled cell binding domain complexes. <i>Analytica Chimica Acta</i> , 2018 , 1030, 156-165	6.6 10

339	Prediction of metabolism-induced hepatotoxicity on three-dimensional hepatic cell culture and enzyme microarrays. <i>Archives of Toxicology</i> , 2018 , 92, 1295-1310	5.8	20
338	Flexible Peptide Linkers Enhance the Antimicrobial Activity of Surface-Immobilized Bacteriolytic Enzymes. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 36746-36756	9.5	22
337	Advancing in vitro to in vivo toxicity correlations via high-throughput three-dimensional primary hepatocyte culture. <i>AIChE Journal</i> , 2018 , 64, 4331-4340	3.6	1
336	Unprotonated Short-Chain Alkylamines Inhibit Staphylolytic Activity of Lysostaphin in a Wall Teichoic Acid-Dependent Manner. <i>Applied and Environmental Microbiology</i> , 2018 , 84,	4.8	10
335	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	4.9	34
334	Interaction of Zika Virus Envelope Protein with Glycosaminoglycans. <i>Biochemistry</i> , 2017 , 56, 1151-1162	3.2	81
333	Engineered heparins as new anticoagulant drugs. <i>Bioengineering and Translational Medicine</i> , 2017 , 2, 17-30	14.8	23
332	Biocatalytic Nanocomposites for Combating Bacterial Pathogens. <i>Annual Review of Chemical and Biomolecular Engineering</i> , 2017 , 8, 87-113	8.9	17
331	In vitro gene expression-coupled bacterial cell chip for screening species-specific antimicrobial enzymes. <i>Biotechnology and Bioengineering</i> , 2017 , 114, 1648-1657	4.9	4
330	Enzymatic Generation of Highly Anticoagulant Bovine Intestinal Heparin. <i>Journal of Medicinal Chemistry</i> , 2017 , 60, 8673-8679	8.3	16
329	Nanostructured glycan architecture is important in the inhibition of influenza A virus infection. <i>Nature Nanotechnology</i> , 2017 , 12, 48-54	28.7	98
328	Immobilization of glucose oxidase on graphene oxide for highly sensitive biosensors. <i>Biotechnology and Bioprocess Engineering</i> , 2016 , 21, 573-579	3.1	18
327	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	8	45
326	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	4.9	18
325	Bidirectional electromagnetic control of the hypothalamus regulates feeding and metabolism. <i>Nature</i> , 2016 , 531, 647-50	50.4	159
324	Enhanced assembly and colloidal stabilization of primate erythroparvovirus 1 virus-like particles for improved surface engineering. <i>Acta Biomaterialia</i> , 2016 , 35, 206-14	10.8	10
323	Selective characterization of proteins on nanoscale concave surfaces. <i>Biomaterials</i> , 2016 , 75, 305-312	15.6	8
322	Cell-Based Assay Design for High-Content Screening of Drug Candidates. <i>Journal of Microbiology and Biotechnology</i> , 2016 , 26, 213-25	3.3	52

321	Heparin and anticoagulation. <i>Frontiers in Bioscience - Landmark</i> , 2016 , 21, 1372-92	2.8	95
320	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, 2228-40	4.9	9
319	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	4.9	13
318	Analysis of Heparins Derived From Bovine Tissues and Comparison to Porcine Intestinal Heparins. <i>Clinical and Applied Thrombosis/Hemostasis</i> , 2016 , 22, 520-7	3.3	31
317	Stem cell behavior on tailored porous oxide surface coatings. <i>Biomaterials</i> , 2015 , 55, 96-109	15.6	21
316	High cell density cultivation of recombinant <i>Escherichia coli</i> strains expressing 2-O-sulfotransferase and C5-epimerase for the production of bioengineered heparin. <i>Applied Biochemistry and Biotechnology</i> , 2015 , 175, 2986-95	3.2	12
315	Remote regulation of glucose homeostasis in mice using genetically encoded nanoparticles. <i>Nature Medicine</i> , 2015 , 21, 92-98	50.5	143
314	Antimicrobial mechanism of resveratrol-trans-dihydrodimer produced from peroxidase-catalyzed oxidation of resveratrol. <i>Biotechnology and Bioengineering</i> , 2015 , 112, 2417-28	4.9	36
313	Binding domains of <i>Bacillus anthracis</i> phage endolysins recognize cell culture age-related features on the bacterial surface. <i>Biotechnology Progress</i> , 2015 , 31, 1487-93	2.8	5
312	A purification process for heparin and precursor polysaccharides using the pH responsive behavior of chitosan. <i>Biotechnology Progress</i> , 2015 , 31, 1348-59	2.8	6
311	Characterization of the activity of the spore cortex lytic enzyme CwLJ1. <i>Biotechnology and Bioengineering</i> , 2015 , 112, 1365-75	4.9	8
310	Detection of cerebrospinal fluid leakage by specific measurement of transferrin glycoforms. <i>Electrophoresis</i> , 2015 , 36, 2425-32	3.6	8
309	Combinatorial one-pot chemoenzymatic synthesis of heparin. <i>Carbohydrate Polymers</i> , 2015 , 122, 399-407	10.3	48
308	Biochemical strategies for enhancing the in vivo production of natural products with pharmaceutical potential. <i>Current Opinion in Biotechnology</i> , 2014 , 25, 86-94	11.4	39
307	Protein immobilization in hollow nanostructures and investigation of the adsorbed protein behavior. <i>Langmuir</i> , 2014 , 30, 1295-303	4	14
306	High sensitivity detection of active botulinum neurotoxin by glyco-quantitative polymerase chain-reaction. <i>Analytical Chemistry</i> , 2014 , 86, 2279-84	7.8	5
305	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	10.3	34
304	High-throughput and combinatorial gene expression on a chip for metabolism-induced toxicology screening. <i>Nature Communications</i> , 2014 , 5, 3739	17.4	63

303	Growth inhibition of Mycobacterium smegmatis by mycobacteriophage-derived enzymes. <i>Enzyme and Microbial Technology</i> , 2014 , 63, 1-6	3.8	25
302	Nanotubes in biological applications. <i>Current Opinion in Biotechnology</i> , 2014 , 28, 25-32	11.4	103
301	Carbon nanotube-induced loss of multicellular chirality on micropatterned substrate is mediated by oxidative stress. <i>ACS Nano</i> , 2014 , 8, 2196-205	16.7	47
300	Three dimensional cellular microarray platform for human neural stem cell differentiation and toxicology. <i>Stem Cell Research</i> , 2014 , 13, 36-47	1.6	50
299	Carbon Nanotubes in Biomedical Applications. <i>Frontiers in Nanobiomedical Research</i> , 2014 , 439-474		
298	Microarray platform affords improved product analysis in mammalian cell growth studies. <i>Biotechnology Journal</i> , 2014 , 9, 386-395	5.6	5
297	Enzyme-driven Bacillus spore coat degradation leading to spore killing. <i>Biotechnology and Bioengineering</i> , 2014 , 111, 654-63	4.9	15
296	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, 9754-65	5.4	20
295	Assays for determining heparan sulfate and heparin O-sulfotransferase activity and specificity. <i>Analytical and Bioanalytical Chemistry</i> , 2014 , 406, 525-36	4.4	14
294	Expression of low endotoxin 3-O-sulfotransferase in Bacillus subtilis and Bacillus megaterium. <i>Applied Biochemistry and Biotechnology</i> , 2013 , 171, 954-62	3.2	12
293	Enzyme-based listericidal nanocomposites. <i>Scientific Reports</i> , 2013 , 3, 1584	4.9	39
292	Perhydrolase-nanotube paint composites with sporicidal and antiviral activity. <i>Applied Microbiology and Biotechnology</i> , 2013 , 97, 8813-21	5.7	15
291	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, 241-7	3.7	23
290	Glycosaminoglycans in infectious disease. <i>Biological Reviews</i> , 2013 , 88, 928-43	13.5	110
289	Identifying specific protein residues that guide surface interactions and orientation on silica nanoparticles. <i>Langmuir</i> , 2013 , 29, 10841-9	4	23
288	Enzyme-Based Technologies: Perspectives and Opportunities. <i>ACS Symposium Series</i> , 2013 , 15-27	0.4	
287	Effect of eliminase gene (elmA) deletion on heparosan production and shedding in Escherichia coli K5. <i>Journal of Biotechnology</i> , 2013 , 165, 175-7	3.7	6
286	BioNano engineered hybrids for hypochlorous acid generation. <i>Process Biochemistry</i> , 2013 , 48, 1355-1360	0.8	25

285	High cell density cultivation of a recombinant E. coli strain expressing a key enzyme in bioengineered heparin production. <i>Applied Microbiology and Biotechnology</i> , 2013 , 97, 3893-900	5.7	32
284	Effect of a variety of carbon nanotubes on the iodine/biode redox pair. <i>Carbon</i> , 2013 , 62, 177-181	10.4	6
283	Metabolic engineering and in vitro biosynthesis of phytochemicals and non-natural analogues. <i>Plant Science</i> , 2013 , 210, 10-24	5.3	57
282	Enzyme-based formulations for decontamination: current state and perspectives. <i>Applied Microbiology and Biotechnology</i> , 2013 , 97, 3293-300	5.7	24
281	FGF-FGFR signaling mediated through glycosaminoglycans in microtiter plate and cell-based microarray platforms. <i>Biochemistry</i> , 2013 , 52, 9009-19	3.2	21
280	Characterization of AmiBA2446, a novel bacteriolytic enzyme active against Bacillus species. <i>Applied and Environmental Microbiology</i> , 2013 , 79, 5899-906	4.8	17
279	Functional nanoscale biomolecular materials. <i>Biotechnology Journal</i> , 2013 , 8, 165-6	5.6	2
278	Exposure to carbon nanotubes leads to changes in the cellular biomechanics. <i>Advanced Healthcare Materials</i> , 2013 , 2, 945-51	10.1	26
277	Spaceflight promotes biofilm formation by Pseudomonas aeruginosa. <i>PLoS ONE</i> , 2013 , 8, e62437	3.7	100
276	Laccase- and chloroperoxidase-nanotube paint composites with bactericidal and sporicidal activity. <i>Enzyme and Microbial Technology</i> , 2012 , 50, 271-9	3.8	32
275	Perhydrolase-nanotube-paint sporicidal composites stabilized by intramolecular crosslinking. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2012 , 75, 20-26		22
274	Engineering of routes to heparin and related polysaccharides. <i>Applied Microbiology and Biotechnology</i> , 2012 , 93, 1-16	5.7	100
273	Engineering Nanomaterials for Biomedical Applications Requires Understanding the Nano-Bio Interface: A Perspective. <i>Journal of Physical Chemistry Letters</i> , 2012 , 3, 3149-58	6.4	87
272	Application of Carbon Nanotubes to Wound Healing Biotechnology. <i>ACS Symposium Series</i> , 2012 , 155-174	4.4	6
271	Signal amplification by glyco-qPCR for ultrasensitive detection of carbohydrates: applications in glycobiology. <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 11800-4	16.4	20
270	Signal Amplification by Glyco-qPCR for Ultrasensitive Detection of Carbohydrates: Applications in Glycobiology. <i>Angewandte Chemie</i> , 2012 , 124, 11970-11974	3.6	2
269	Addressing endotoxin issues in bioengineered heparin. <i>Biotechnology and Applied Biochemistry</i> , 2012 , 59, 420-8	2.8	5
268	Human parvovirus B19 virus-like particles: In vitro assembly and stability. <i>Biochimie</i> , 2012 , 94, 870-8	4.6	30

267	Position-specific chemical modification and quantitative proteomics disclose protein orientation adsorbed on silica nanoparticles. <i>Nano Letters</i> , 2012 , 12, 1583-7	11.5	53
266	Effect of gold nanoparticle structure on the conformation and function of adsorbed proteins. <i>Biomaterials</i> , 2012 , 33, 8503-16	15.6	56
265	Influence of a three-dimensional, microarray environment on human cell culture in drug screening systems. <i>Biomaterials</i> , 2012 , 33, 9087-96	15.6	72
264	High-throughput transfection of interfering RNA into a 3D cell-culture chip. <i>Small</i> , 2012 , 8, 2091-8	11	11
263	Radio-wave heating of iron oxide nanoparticles can regulate plasma glucose in mice. <i>Science</i> , 2012 , 336, 604-8	33.3	354
262	Proteoglycans in stem cells. <i>Biotechnology and Applied Biochemistry</i> , 2012 , 59, 65-76	2.8	22
261	Polyphenolic disaccharides endow proteins with unusual resistance to aggregation. <i>Biotechnology and Bioengineering</i> , 2012 , 109, 1869-74	4.9	7
260	Recent advances in sulfotransferase enzyme activity assays. <i>Analytical and Bioanalytical Chemistry</i> , 2012 , 403, 1491-500	4.4	35
259	Expanding nature's small molecule diversity via in vitro biosynthetic pathway engineering. <i>Current Opinion in Chemical Biology</i> , 2012 , 16, 186-95	9.7	24
258	Trimer hydroxylated quinone derived from apocynin targets cysteine residues of p47phox preventing the activation of human vascular NADPH oxidase. <i>Free Radical Biology and Medicine</i> , 2012 , 52, 962-9	7.8	18
257	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, 2387-93	1.3	10
256	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	1.7	7
255	Rapid and quantitative measurement of metabolic stability without chromatography or mass spectrometry. <i>Journal of the American Chemical Society</i> , 2011 , 133, 14476-9	16.4	7
254	Kinesin I ATPase manipulates biohybrids formed from tubulin and carbon nanotubes. <i>Methods in Molecular Biology</i> , 2011 , 743, 77-93	1.4	4
253	Response surface optimization of the heparosan N-deacetylation in producing bioengineered heparin. <i>Journal of Biotechnology</i> , 2011 , 156, 188-96	3.7	26
252	Effect of gold nanoparticle morphology on adsorbed protein structure and function. <i>Biomaterials</i> , 2011 , 32, 7241-52	15.6	232
251	Lysostaphin-functionalized cellulose fibers with antistaphylococcal activity for wound healing applications. <i>Biomaterials</i> , 2011 , 32, 9557-67	15.6	134
250	Ozonolysis of the double bond of the unsaturated uronate residue in low-molecular-weight heparin and K5 heparosan. <i>Carbohydrate Research</i> , 2011 , 346, 1962-6	2.9	10

249	Analysis of E. coli K5 capsular polysaccharide heparosan. <i>Analytical and Bioanalytical Chemistry</i> , 2011 , 399, 737-45	4.4	42
248	Structural characterization of heparins from different commercial sources. <i>Analytical and Bioanalytical Chemistry</i> , 2011 , 401, 2793-803	4.4	53
247	Preparation of synthetic wood composites using ionic liquids. <i>Wood Science and Technology</i> , 2011 , 45, 719-733	2.5	41
246	Control of the heparosan N-deacetylation leads to an improved bioengineered heparin. <i>Applied Microbiology and Biotechnology</i> , 2011 , 91, 91-9	5.7	46
245	Controlled Photochemical Depolymerization of K5 Heparosan, a Bioengineered Heparin Precursor. <i>Carbohydrate Polymers</i> , 2011 , 86, 1365-1370	10.3	20
244	Room temperature ionic liquids as emerging solvents for the pretreatment of lignocellulosic biomass. <i>Biotechnology and Bioengineering</i> , 2011 , 108, 1229-45	4.9	312
243	Facile pretreatment of lignocellulosic biomass at high loadings in room temperature ionic liquids. <i>Biotechnology and Bioengineering</i> , 2011 , 108, 2865-75	4.9	116
242	Polyphenolic glycosides and aglycones utilize opposing pathways to selectively remodel and inactivate toxic oligomers of amyloid β <i>ChemBioChem</i> , 2011 , 12, 1749-58	3.8	46
241	Electrospun polyvinylpyrrolidone fibers with high concentrations of ferromagnetic and superparamagnetic nanoparticles. <i>ACS Applied Materials & Interfaces</i> , 2011 , 3, 1958-64	9.5	36
240	Mass balance analysis of contaminated heparin product. <i>Analytical Biochemistry</i> , 2011 , 408, 147-56	3.1	8
239	Ultra-performance ion-pairing liquid chromatography with on-line electrospray ion trap mass spectrometry for heparin disaccharide analysis. <i>Analytical Biochemistry</i> , 2011 , 415, 59-66	3.1	61
238	Regulation of stem cell signaling by nanoparticle-mediated intracellular protein delivery. <i>Biomaterials</i> , 2011 , 32, 3210-9	15.6	53
237	Escherichia coli K5 heparosan fermentation and improvement by genetic engineering. <i>Bioengineered Bugs</i> , 2011 , 2, 63-7		39
236	Aromatic small molecules remodel toxic soluble oligomers of amyloid beta through three independent pathways. <i>Journal of Biological Chemistry</i> , 2011 , 286, 3209-18	5.4	149
235	Artificial organelles: digital microfluidic platform for proteoglycan and glycoprotein biosynthesis. <i>Scientific World Journal, The</i> , 2010 , 10, 997-1000	2.2	
234	Resveratrol selectively remodels soluble oligomers and fibrils of amyloid A β into off-pathway conformers. <i>Journal of Biological Chemistry</i> , 2010 , 285, 24228-37	5.4	228
233	Electrospinning of nanomaterials and applications in electronic components and devices. <i>Journal of Nanoscience and Nanotechnology</i> , 2010 , 10, 5507-19	1.3	143
232	Nanoparticle-mediated cytoplasmic delivery of proteins to target cellular machinery. <i>ACS Nano</i> , 2010 , 4, 1493-500	16.7	110

231	Ionic liquid solvent properties as predictors of lignocellulose pretreatment efficacy. <i>Green Chemistry</i> , 2010 , 12, 1967	10	255
230	Conductive cable fibers with insulating surface prepared by coaxial electrospinning of multiwalled nanotubes and cellulose. <i>Biomacromolecules</i> , 2010 , 11, 2440-5	6.9	73
229	Multiplexed amino acid array utilizing bioluminescent <i>Escherichia coli</i> auxotrophs. <i>Analytical Chemistry</i> , 2010 , 82, 4072-7	7.8	14
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