

Jonathan S Dordick

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392
papers

21,151
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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	Ionic liquid-mediated selective extraction of lignin from wood leading to enhanced enzymatic cellulose hydrolysis. <i>Biotechnology and Bioengineering</i> , 2009 , 102, 1368-76	4.9	754
391	Enzymatic catalysis in monophasic organic solvents. <i>Enzyme and Microbial Technology</i> , 1989 , 11, 194-211	3.8	754
390	Silica nanoparticle size influences the structure and enzymatic activity of adsorbed lysozyme. <i>Langmuir</i> , 2004 , 20, 6800-7	4	734
389	Structure and function of enzymes adsorbed onto single-walled carbon nanotubes. <i>Langmuir</i> , 2004 , 20, 11594-9	4	450
388	Radio-wave heating of iron oxide nanoparticles can regulate plasma glucose in mice. <i>Science</i> , 2012 , 336, 604-8	33.3	354
387	Polymerization of phenols catalyzed by peroxidase in nonaqueous media. <i>Biotechnology and Bioengineering</i> , 1987 , 30, 31-6	4.9	335
386	Organic solvents strip water off enzymes. <i>Biotechnology and Bioengineering</i> , 1992 , 39, 392-7	4.9	313
385	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
384	Three-dimensional cellular microarray for high-throughput toxicology assays. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008 , 105, 59-63	11.5	265
383	Protein-assisted solubilization of single-walled carbon nanotubes. <i>Langmuir</i> , 2006 , 22, 1392-5	4	264
382	Ionic liquid solvent properties as predictors of lignocellulose pretreatment efficacy. <i>Green Chemistry</i> , 2010 , 12, 1967	10	255
381	Effect of gold nanoparticle morphology on adsorbed protein structure and function. <i>Biomaterials</i> , 2011 , 32, 7241-52	15.6	232
380	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
379	How do organic solvents affect peroxidase structure and function?. <i>Biochemistry</i> , 1992 , 31, 2588-98	3.2	228
378	Salts dramatically enhance activity of enzymes suspended in organic solvents. <i>Journal of the American Chemical Society</i> , 1994 , 116, 2647-2648	16.4	225
377	High-throughput cellular microarray platforms: applications in drug discovery, toxicology and stem cell research. <i>Trends in Biotechnology</i> , 2009 , 27, 342-9	15.1	218
376	Unfolding of ribonuclease A on silica nanoparticle surfaces. <i>Nano Letters</i> , 2007 , 7, 1991-5	11.5	218

375	Designing enzymes for use in organic solvents. <i>Biotechnology Progress</i> , 1992 , 8, 259-67	2.8	211
374	Substrate structure and solvent hydrophobicity control lipase catalysis and enantioselectivity in organic media. <i>Journal of the American Chemical Society</i> , 1991 , 113, 2253-2259	16.4	205
373	Hydration of enzyme in nonaqueous media is consistent with solvent dependence of its activity. <i>Biophysical Journal</i> , 2004 , 87, 812-21	2.9	200
372	Enzyme activation for organic solvents made easy. <i>Trends in Biotechnology</i> , 2008 , 26, 48-54	15.1	188
371	Enzyme activation for nonaqueous media. <i>Current Opinion in Biotechnology</i> , 2002 , 13, 376-84	11.4	181
370	Cytochrome C on silica nanoparticles: influence of nanoparticle size on protein structure, stability, and activity. <i>Small</i> , 2009 , 5, 470-6	11	180
369	Solvent Effect on Organogel Formation by Low Molecular Weight Molecules. <i>Chemistry of Materials</i> , 2006 , 18, 5988-5995	9.6	177
368	Increasing protein stability through control of the nanoscale environment. <i>Langmuir</i> , 2006 , 22, 5833-6	4	170
367	Structure, function, and stability of enzymes covalently attached to single-walled carbon nanotubes. <i>Langmuir</i> , 2007 , 23, 12318-21	4	165
366	Synthesis and Application of Carbohydrate-Containing Polymers. <i>Chemistry of Materials</i> , 2002 , 14, 3232-3244	9.2	162
365	Inhibition of NADPH oxidase activation in endothelial cells by ortho-methoxy-substituted catechols. <i>Endothelium: Journal of Endothelial Cell Research</i> , 2002 , 9, 191-203		160
364	Bidirectional electromagnetic control of the hypothalamus regulates feeding and metabolism. <i>Nature</i> , 2016 , 531, 647-50	50.4	159
363	Enzymatic analyses in organic solvents. <i>Biotechnology and Bioengineering</i> , 1986 , 28, 417-21	4.9	155
362	Metabolizing enzyme toxicology assay chip (MetaChip) for high-throughput microscale toxicity analyses. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005 , 102, 9837-5	17.5	154
361	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
360	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
359	Enzyme-Polymer-Single Walled Carbon Nanotube Composites as Biocatalytic Films. <i>Nano Letters</i> , 2003 , 3, 829-832	11.5	145
358	Sulfated polysaccharides effectively inhibit SARS-CoV-2 in vitro. <i>Cell Discovery</i> , 2020 , 6, 50	22.3	144

357	Remote regulation of glucose homeostasis in mice using genetically encoded nanoparticles. <i>Nature Medicine</i> , 2015 , 21, 92-98	50.5	143
356	Electrospinning of nanomaterials and applications in electronic components and devices. <i>Journal of Nanoscience and Nanotechnology</i> , 2010 , 10, 5507-19	1.3	143
355	Aqueous-Like Activity of .alpha.-Chymotrypsin Dissolved in Nearly Anhydrous Organic Solvents. <i>Journal of the American Chemical Society</i> , 1994 , 116, 5009-5010	16.4	142
354	Water-soluble carbon nanotube-enzyme conjugates as functional biocatalytic formulations. <i>Biotechnology and Bioengineering</i> , 2006 , 95, 804-11	4.9	138
353	Lysostaphin-functionalized cellulose fibers with antistaphylococcal activity for wound healing applications. <i>Biomaterials</i> , 2011 , 32, 9557-67	15.6	134
352	Polymer-nanotube-enzyme composites as active antifouling films. <i>Small</i> , 2007 , 3, 50-3	11	133
351	Enzymatic synthesis of a sucrose-containing linear polyester in nearly anhydrous organic media. <i>Biotechnology and Bioengineering</i> , 1991 , 37, 639-46	4.9	133
350	Osmolyte trimethylamine-N-oxide does not affect the strength of hydrophobic interactions: origin of osmolyte compatibility. <i>Biophysical Journal</i> , 2005 , 89, 858-66	2.9	130
349	On the Salt-Induced Activation of Lyophilized Enzymes in Organic Solvents: Effect of Salt Kosmotropicity on Enzyme Activity. <i>Journal of the American Chemical Society</i> , 2000 , 122, 1565-1571	16.4	129
348	Biocatalytic plastics as active and stable materials for biotransformations. <i>Nature Biotechnology</i> , 1997 , 15, 789-93	44.5	117
347	Catalytic Silica Particles via Template-Directed Molecular Imprinting. <i>Langmuir</i> , 2000 , 16, 1759-1765	4	117
346	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
345	Mechanism of extraction of chymotrypsin into isooctane at very low concentrations of aerosol OT in the absence of reversed micelles. <i>Biotechnology and Bioengineering</i> , 1994 , 43, 529-40	4.9	116
344	Microwave assisted combinatorial chemistry synthesis of substituted pyridines. <i>Tetrahedron Letters</i> , 1998 , 39, 1117-1120	2	115
343	Unusual Thermal Stability of Soybean Peroxidase. <i>Biotechnology Progress</i> , 1996 , 12, 555-558	2.8	113
342	Glycosaminoglycans in infectious disease. <i>Biological Reviews</i> , 2013 , 88, 928-43	13.5	110
341	Nanoparticle-mediated cytoplasmic delivery of proteins to target cellular machinery. <i>ACS Nano</i> , 2010 , 4, 1493-500	16.7	110
340	Macroporous poly(sucrose acrylate) hydrogel for controlled release of macromolecules. <i>Biomaterials</i> , 1996 , 17, 2343-50	15.6	104

339	Nanotubes in biological applications. <i>Current Opinion in Biotechnology</i> , 2014 , 28, 25-32	11.4	103
338	Structure and Function of Subtilisin BPN \bar{I} Solubilized in Organic Solvents. <i>Journal of the American Chemical Society</i> , 1997 , 119, 70-76	16.4	102
337	Engineering of routes to heparin and related polysaccharides. <i>Applied Microbiology and Biotechnology</i> , 2012 , 93, 1-16	5.7	100
336	Spaceflight promotes biofilm formation by <i>Pseudomonas aeruginosa</i> . <i>PLoS ONE</i> , 2013 , 8, e62437	3.7	100
335	Multienzymic Synthesis of Poly(hydroquinone) for Use as a Redox Polymer. <i>Journal of the American Chemical Society</i> , 1995 , 117, 12885-12886	16.4	100
334	Nanostructured glycan architecture is important in the inhibition of influenza A virus infection. <i>Nature Nanotechnology</i> , 2017 , 12, 48-54	28.7	98
333	Highly active and stable DNAzyme-carbon nanotube hybrids. <i>Journal of the American Chemical Society</i> , 2005 , 127, 12200-1	16.4	98
332	Heparin and anticoagulation. <i>Frontiers in Bioscience - Landmark</i> , 2016 , 21, 1372-92	2.8	95
331	Electrospinning from room temperature ionic liquids for biopolymer fiber formation. <i>Green Chemistry</i> , 2010 , 12, 1883	10	94
330	<i>E. coli</i> K5 fermentation and the preparation of heparosan, a bioengineered heparin precursor. <i>Biotechnology and Bioengineering</i> , 2010 , 107, 964-73	4.9	93
329	Enzymatically derived sugar-containing self-assembled organogels with nanostructured morphologies. <i>Angewandte Chemie - International Edition</i> , 2006 , 45, 4772-5	16.4	93
328	Controlling enzyme-catalyzed regioselectivity in sugar ester synthesis. <i>Biotechnology and Bioengineering</i> , 1995 , 45, 426-34	4.9	93
327	Antistaphylococcal nanocomposite films based on enzyme-nanotube conjugates. <i>ACS Nano</i> , 2010 , 4, 3993-4000	16.7	92
326	Biocatalytic synthesis of sugar-containing polyacrylate-based hydrogels. <i>Macromolecules</i> , 1992 , 25, 7081-7085	5.9	91
325	Tailoring lipase specificity by solvent and substrate chemistries. <i>Journal of Organic Chemistry</i> , 1993 , 58, 3238-3244	4.2	89
324	Recent progress and applications in glycosaminoglycan and heparin research. <i>Current Opinion in Chemical Biology</i> , 2009 , 13, 633-40	9.7	88
323	Enzyme-Based Nanoscale Composites for Use as Active Decontamination Surfaces. <i>Advanced Functional Materials</i> , 2010 , 20, 392-398	15.6	88
322	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

321	Three-dimensional cell culture microarray for high-throughput studies of stem cell fate. <i>Biotechnology and Bioengineering</i> , 2010 , 106, 106-18	4.9	86
320	Controlling Subtilisin Activity and Selectivity in Organic Media by Imprinting with Nucleophilic Substrates. <i>Journal of the American Chemical Society</i> , 1997 , 119, 3245-3252	16.4	85
319	Enzyme-catalyzed synthesis of sugar-containing monomers and linear polymers. <i>Biotechnology and Bioengineering</i> , 2000 , 70, 208-216	4.9	84
318	Directed assembly of carbon nanotubes at liquid-liquid interfaces: nanoscale conveyors for interfacial biocatalysis. <i>Journal of the American Chemical Society</i> , 2006 , 128, 1046-7	16.4	83
317	Free energy relationships of substrate and solvent hydrophobicities on enzymic catalysis in organic media. <i>Journal of the American Chemical Society</i> , 1989 , 111, 8026-8027	16.4	83
316	Optimizing the salt-induced activation of enzymes in organic solvents: effects of lyophilization time and water content. <i>Biotechnology and Bioengineering</i> , 1999 , 63, 233-41	4.9	82
315	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
314	Interaction of Zika Virus Envelope Protein with Glycosaminoglycans. <i>Biochemistry</i> , 2017 , 56, 1151-1162	3.2	81
313	Lignin peroxidase-type activity of soybean peroxidase. <i>Enzyme and Microbial Technology</i> , 1995 , 17, 359-368		78
312	Chemoenzymatic synthesis of novel sucrose-containing polymers. <i>Macromolecules</i> , 1991 , 24, 3462-3463	5.5	78
311	Synthesis of Water-Soluble Paclitaxel Derivatives by Enzymatic Acylation. <i>Journal of the American Chemical Society</i> , 1997 , 119, 11554-11555	16.4	77
310	Catalytic properties and potential of an extracellular protease from an extreme halophile. <i>Enzyme and Microbial Technology</i> , 1994 , 16, 266-75	3.8	74
309	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
308	Combinatorial biocatalysis: a natural approach to drug discovery. <i>Trends in Biotechnology</i> , 1998 , 16, 210-5	5.1	73
307	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
306	Gene delivery in three-dimensional cell cultures by superparamagnetic nanoparticles. <i>ACS Nano</i> , 2010 , 4, 4733-43	16.7	72
305	Silica-immobilized enzymes for multi-step synthesis in microfluidic devices. <i>Biotechnology and Bioengineering</i> , 2007 , 98, 701-5	4.9	72
304	Identification of a novel class in the alpha/beta hydrolase fold superfamily: the N-myc differentiation-related proteins. <i>Proteins: Structure, Function and Bioinformatics</i> , 2002 , 47, 163-8	4.2	71

303	Enzymatic synthesis of dextran-containing hydrogels. <i>Biomaterials</i> , 2002 , 23, 3957-67	15.6	71
302	Enzymatic and chemoenzymatic approaches to polymer synthesis. <i>Trends in Biotechnology</i> , 1992 , 10, 287-90	15.1	70
301	On-chip, cell-based microarray immunofluorescence assay for high-throughput analysis of target proteins. <i>Analytical Chemistry</i> , 2008 , 80, 6633-9	7.8	66
300	High-throughput and combinatorial gene expression on a chip for metabolism-induced toxicology screening. <i>Nature Communications</i> , 2014 , 5, 3739	17.4	63
299	Biocatalytic synthesis of highly ordered degradable dextran-based hydrogels. <i>Biomaterials</i> , 2005 , 26, 4707-16	15.6	62
298	Siloxane-based biocatalytic films and paints for use as reactive coatings. <i>Biotechnology and Bioengineering</i> , 2001 , 72, 475-82	4.9	62
297	ENZYMATIC POLYMERIZATION OF PHENOLS IN ROOM TEMPERATURE IONIC LIQUIDS. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2009 , 59, 177-184		61
296	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
295	Horseradish peroxidase catalyzed hydroxylations: mechanistic studies. <i>Biochemistry</i> , 1986 , 25, 2946-51	3.2	61
294	Unusual salt and solvent dependence of a protease from an extreme halophile. <i>Biotechnology and Bioengineering</i> , 1997 , 55, 471-9	4.9	60
293	Lipid-based nanotubes as functional architectures with embedded fluorescence and recognition capabilities. <i>Journal of the American Chemical Society</i> , 2004 , 126, 15012-3	16.4	60
292	Transition state stabilization of subtilisins in organic media. <i>Biotechnology and Bioengineering</i> , 1994 , 43, 515-20	4.9	60
291	Toward an artificial Golgi: redesigning the biological activities of heparan sulfate on a digital microfluidic chip. <i>Journal of the American Chemical Society</i> , 2009 , 131, 11041-8	16.4	59
290	Multienzyme catalysis in microfluidic biochips. <i>Biotechnology and Bioengineering</i> , 2003 , 83, 20-8	4.9	58
289	Enzymic Modification of Insoluble Amylose in Organic Solvents. <i>Macromolecules</i> , 1995 , 28, 8881-8883	5.5	58
288	Metabolic engineering and in vitro biosynthesis of phytochemicals and non-natural analogues. <i>Plant Science</i> , 2013 , 210, 10-24	5.3	57
287	Effect of gold nanoparticle structure on the conformation and function of adsorbed proteins. <i>Biomaterials</i> , 2012 , 33, 8503-16	15.6	56
286	Combinatorial formulation of biocatalyst preparations for increased activity in organic solvents: salt activation of penicillin amidase. <i>Biotechnology and Bioengineering</i> , 2004 , 85, 553-60	4.9	55

285	Enzymatic Synthesis of Unique Thymidine-Containing Polyphenols. <i>Macromolecules</i> , 1998 , 31, 941-943	5.5	54
284	Enhanced stability of enzymes adsorbed onto nanoparticles. <i>Journal of Nanoscience and Nanotechnology</i> , 2007 , 7, 1675-8	1.3	54
283	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
282	Structural characterization of heparins from different commercial sources. <i>Analytical and Bioanalytical Chemistry</i> , 2011 , 401, 2793-803	4.4	53
281	Regulation of stem cell signaling by nanoparticle-mediated intracellular protein delivery. <i>Biomaterials</i> , 2011 , 32, 3210-9	15.6	53
280	Protein and solvent engineering of subtilisin BPNRn nearly anhydrous organic media. <i>Journal of the American Chemical Society</i> , 1993 , 115, 12231-12237	16.4	52
279	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
278	Molecular dynamics simulation of C8E5 micelle in explicit water: structure and hydrophobic solvation thermodynamics. <i>Molecular Physics</i> , 2002 , 100, 2299-2306	1.7	51
277	Chemoenzymic Synthesis and Characterization of Poly(.alpha.-methyl galactoside 6-acrylate) Hydrogels. <i>Macromolecules</i> , 1995 , 28, 6014-6019	5.5	51
276	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
275	Highly swelling hydrogels from ordered galactose-based polyacrylates. <i>Biomaterials</i> , 1998 , 19, 69-76	15.6	50
274	Regioselective enzymatic acylation as a tool for producing solution-phase combinatorial libraries. <i>Tetrahedron</i> , 1998 , 54, 3971-3982	2.4	50
273	Biocompatibility of chemoenzymatically derived dextran-acrylate hydrogels. <i>Journal of Biomedical Materials Research Part B</i> , 2004 , 68, 584-96		50
272	Combinatorial one-pot chemoenzymatic synthesis of heparin. <i>Carbohydrate Polymers</i> , 2015 , 122, 399-407	10.3	48
271	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
270	Water dynamics and salt-activation of enzymes in organic media: mechanistic implications revealed by NMR spectroscopy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006 , 103, 5706-10	11.5	47
269	Combinatorial array-based enzymatic polyester synthesis. <i>Biotechnology and Bioengineering</i> , 2001 , 76, 200-6	4.9	47
268	Sugar acrylate-based polymers as chiral molecularly imprintable hydrogels. <i>Journal of Polymer Science Part A</i> , 1999 , 37, 1665-1671	2.5	47

267	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
266	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
265	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
264	Towards more active biocatalysts in organic media: increasing the activity of salt-activated enzymes. <i>Biotechnology and Bioengineering</i> , 2001 , 75, 187-96	4.9	45
263	Nonaqueous biocatalytic synthesis of new cytotoxic doxorubicin derivatives: exploiting unexpected differences in the regioselectivity of salt-activated and solubilized subtilisin. <i>Journal of the American Chemical Society</i> , 2002 , 124, 1871-6	16.4	45
262	Preparation of Active and Stable Biocatalytic Hydrogels for Use in Selective Transformations. <i>Chemistry of Materials</i> , 1998 , 10, 955-958	9.6	45
261	Purification of glycoproteins by selective transport using concanavalin-mediated reverse micellar extraction. <i>Biotechnology Progress</i> , 1991 , 7, 330-4	2.8	45
260	Numerical and Monte Carlo simulations of phenolic polymerizations catalyzed by peroxidase. <i>Biotechnology and Bioengineering</i> , 1993 , 42, 807-14	4.9	45
259	Chemoenzymatic synthesis and high-throughput screening of an aminoglycoside-polyamine library: identification of high-affinity displacers and DNA-binding ligands. <i>Journal of the American Chemical Society</i> , 2004 , 126, 12306-15	16.4	44
258	Incorporation of p-cresol into lignins via peroxidase-catalysed copolymerization in nonaqueous media. <i>Enzyme and Microbial Technology</i> , 1991 , 13, 964-968	3.8	44
257	Protein-Directed Formation of Silver Nanoparticles on Carbon Nanotubes. <i>Advanced Materials</i> , 2007 , 19, 3167-3170	24	43
256	High-throughput screening and quantitative structure-efficacy relationship models of potential displacer molecules for ion-exchange systems. <i>Biotechnology and Bioengineering</i> , 2002 , 80, 60-72	4.9	43
255	Analysis of E. coli K5 capsular polysaccharide heparosan. <i>Analytical and Bioanalytical Chemistry</i> , 2011 , 399, 737-45	4.4	42
254	High-throughput human metabolism and toxicity analysis. <i>Current Opinion in Biotechnology</i> , 2006 , 17, 619-27	11.4	42
253	Bacterial P450-catalyzed polyketide hydroxylation on a microfluidic platform. <i>Biotechnology and Bioengineering</i> , 2004 , 88, 528-35	4.9	42
252	Affinity-based reverse micellar extraction and separation (ARMES): a facile technique for the purification of peroxidase from soybean hulls. <i>Biotechnology Progress</i> , 1993 , 9, 199-203	2.8	42
251	Preparation of synthetic wood composites using ionic liquids. <i>Wood Science and Technology</i> , 2011 , 45, 719-733	2.5	41
250	Enzymatically prepared poly(hydroquinone) as a mediator for amperometric glucose sensors. <i>Polymer</i> , 1998 , 39, 123-127	3.9	41

249	High-throughput, microarray-based synthesis of natural product analogues via in vitro metabolic pathway construction. <i>ACS Chemical Biology</i> , 2007 , 2, 419-25	4.9	41
248	Tubulin encapsulation of carbon nanotubes into functional hybrid assemblies. <i>Small</i> , 2009 , 5, 310-5	11	40
247	The role of the methoxyphenol apocynin, a vascular NADPH oxidase inhibitor, as a chemopreventative agent in the potential treatment of cardiovascular diseases. <i>Current Vascular Pharmacology</i> , 2008 , 6, 204-17	3.3	40
246	Compression-modulated tunable-pore carbon-nanotube membrane filters. <i>Small</i> , 2007 , 3, 595-9	11	40
245	Enzymatic synthesis of glycosaminoglycan heparin. <i>Seminars in Thrombosis and Hemostasis</i> , 2007 , 33, 453-65	5.3	40
244	Enzymatic Synthesis of Various Aromatic Polyesters in Anhydrous Organic Solvents. <i>Biocatalysis</i> , 1994 , 11, 263-271		40
243	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
242	Enzyme-based listericidal nanocomposites. <i>Scientific Reports</i> , 2013 , 3, 1584	4.9	39
241	Escherichia coli K5 heparosan fermentation and improvement by genetic engineering. <i>Bioengineered Bugs</i> , 2011 , 2, 63-7		39
240	Intrinsic effects of solvent polarity on enzymic activation energies. <i>Biotechnology and Bioengineering</i> , 2000 , 67, 112-6	4.9	39
239	Structural diversity of peroxidase-catalyzed oxidation products of o-methoxyphenols. <i>Organic Letters</i> , 2004 , 6, 1975-8	6.2	38
238	Molecular imprinting of enzymes with water-insoluble ligands for nonaqueous biocatalysis. <i>Journal of the American Chemical Society</i> , 2002 , 124, 5254-5	16.4	38
237	Peroxidase-catalyzed synthesis of lignin-phenol copolymers. <i>Journal of Polymer Science Part A</i> , 1993 , 31, 1839-1846	2.5	38
236	Testing for diffusion limitations in salt-activated enzyme catalysts operating in organic solvents 1998 , 58, 654-657		37
235	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
234	Electrospun polyvinylpyrrolidone fibers with high concentrations of ferromagnetic and superparamagnetic nanoparticles. <i>ACS Applied Materials & Interfaces</i> , 2011 , 3, 1958-64	9.5	36
233	Multinuclear NMR study of enzyme hydration in an organic solvent 1998 , 57, 686-693		36
232	Recent advances in sulfotransferase enzyme activity assays. <i>Analytical and Bioanalytical Chemistry</i> , 2012 , 403, 1491-500	4.4	35

231	How interfaces affect hydrophobically driven polymer folding. <i>Journal of Physical Chemistry B</i> , 2009 , 113, 4093-101	3.4	35
230	Non-aqueous enzymology. <i>Current Opinion in Biotechnology</i> , 1991 , 2, 401-7	11.4	35
229	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
228	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	4.1	34
227	Oxidation of polycyclic aromatic hydrocarbons catalyzed by soybean peroxidase. <i>Applied Biochemistry and Biotechnology</i> , 1999 , 80, 221-230	3.2	34
226	Peptide synthesis using proteases dissolved in organic solvents. <i>Enzyme and Microbial Technology</i> , 1997 , 20, 623-628	3.8	33
225	Sucrose diacrylate: A unique chemically and biologically degradable crosslinker for polymeric hydrogels. <i>Journal of Polymer Science Part A</i> , 1997 , 35, 2221-2229	2.5	33
224	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
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