

Alan J Russell

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.

180
papers

10,268
citations

54
h-index

96
g-index

188
ext. papers

10,981
ext. citations

9.2
avg, IF

6.11
L-index

#	Paper	IF	Citations
180	Molecular Dynamics-Guided Design of a Functional Protein-ATRP Conjugate That Eliminates Protein-Protein Interactions. <i>Bioconjugate Chemistry</i> , 2021 , 32, 821-832	6.3	4
179	Organophosphate detoxification by membrane-engineered red blood cells. <i>Acta Biomaterialia</i> , 2021 , 124, 270-281	10.8	4
178	Non-quaternary oximes detoxify nerve agents and reactivate nerve agent-inhibited human butyrylcholinesterase. <i>Communications Biology</i> , 2021 , 4, 573	6.7	1
177	A comprehensive analysis in one run - in-depth conformation studies of protein-polymer chimeras by asymmetrical flow field-flow fractionation. <i>Chemical Science</i> , 2021 , 12, 13848-13856	9.4	2
176	Vascular Drug Delivery Using Carrier Red Blood Cells: Focus on RBC Surface Loading and Pharmacokinetics. <i>Pharmaceutics</i> , 2020 , 12,	6.4	29
175	Ligands and characterization for effective bio-atom-transfer radical polymerization. <i>Journal of Polymer Science</i> , 2020 , 58, 42-47	2.4	
174	Erythrocytes as carriers of immunoglobulin-based therapeutics. <i>Acta Biomaterialia</i> , 2020 , 101, 422-435	10.8	14
173	Ligands and characterization for effective bio-atom-transfer radical polymerization. <i>Journal of Polymer Science</i> , 2020 , 58, 42-47	2.4	1
172	Structure-function-dynamics of Ethmotrypsin based conjugates as a function of polymer charge. <i>Soft Matter</i> , 2020 , 16, 456-465	3.6	14
171	Tuning Butyrylcholinesterase Inactivation and Reactivation by Polymer-Based Protein Engineering. <i>Advanced Science</i> , 2020 , 7, 1901904	13.6	7
170	Polymer-enhanced biomacromolecules. <i>Progress in Polymer Science</i> , 2020 , 101, 101194	29.6	15
169	Catalytic Detoxification of Organophosphorus Nerve Agents by Butyrylcholinesterase-Polymer-Oxime Bioscavengers. <i>Biomacromolecules</i> , 2020 , 21, 3867-3877	6.9	5
168	Can enzyme proximity accelerate cascade reactions?. <i>Scientific Reports</i> , 2019 , 9, 455	4.9	41
167	Charge-Preserving Atom Transfer Radical Polymerization Initiator Rescues the Lost Function of Negatively Charged Protein-Polymer Conjugates. <i>Biomacromolecules</i> , 2019 , 20, 2392-2405	6.9	15
166	Transforming protein-polymer conjugate purification by tuning protein solubility. <i>Nature Communications</i> , 2019 , 10, 4718	17.4	20
165	Intact mangrove root electrodes for desalination.. <i>RSC Advances</i> , 2019 , 9, 4735-4743	3.7	3
164	Atom Transfer Radical Polymerization for Biorelated Hybrid Materials. <i>Biomacromolecules</i> , 2019 , 20, 4272-4298	6.9	33

163	Utilization of the Polymer Sieving Effect for the Removal of the Small Molecule Biotin-CDM. <i>ACS Applied Polymer Materials</i> , 2019 , 1, 2897-2906	4.3	3
162	Molecular Sieving on the Surface of a Nano-Armored Protein. <i>Biomacromolecules</i> , 2019 , 20, 1235-1245	6.9	18
161	Solid-phase synthesis of protein-polymers on reversible immobilization supports. <i>Nature Communications</i> , 2018 , 9, 845	17.4	26
160	Intramolecular Interactions of Conjugated Polymers Mimic Molecular Chaperones to Stabilize Protein-Polymer Conjugates. <i>Biomacromolecules</i> , 2018 , 19, 3798-3813	6.9	28
159	A Breathing Atom-Transfer Radical Polymerization: Fully Oxygen-Tolerant Polymerization Inspired by Aerobic Respiration of Cells. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 933-936	16.4	129
158	A Breathing Atom-Transfer Radical Polymerization: Fully Oxygen-Tolerant Polymerization Inspired by Aerobic Respiration of Cells. <i>Angewandte Chemie</i> , 2018 , 130, 945-948	3.6	34
157	Synthesis of Polymer Bioconjugates via Photoinduced Atom Transfer Radical Polymerization under Blue Light Irradiation. <i>ACS Macro Letters</i> , 2018 , 7, 1248-1253	6.6	34
156	Biocatalytic Oxygen-Fueled Atom Transfer Radical Polymerization. <i>Angewandte Chemie</i> , 2018 , 130, 16389-16393	3.6	9
155	Biocatalytic "Oxygen-Fueled" Atom Transfer Radical Polymerization. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 16157-16161	16.4	58
154	Tailoring Site Specificity of Bioconjugation Using Step-Wise Atom-Transfer Radical Polymerization on Proteins. <i>Biomacromolecules</i> , 2018 , 19, 4044-4051	6.9	12
153	Next generation protein-polymer conjugates. <i>AIChE Journal</i> , 2018 , 64, 3230-3245	3.6	40
152	Design of Stomach Acid-Stable and Mucin-Binding Enzyme Polymer Conjugates. <i>Biomacromolecules</i> , 2017 , 18, 576-586	6.9	39
151	ATRP-grown protein-polymer conjugates containing phenylpiperazine selectively enhance transepithelial protein transport. <i>Journal of Controlled Release</i> , 2017 , 255, 270-278	11.7	21
150	Tertiary Structure-Based Prediction of How ATRP Initiators React with Proteins. <i>ACS Biomaterials Science and Engineering</i> , 2017 , 3, 2086-2097	5.5	34
149	Intramolecular Electron Transfer through Poly-Ferrocenyl Glucose Oxidase Conjugates to Carbon Electrodes: 1. Sensor Sensitivity, Selectivity and Longevity. <i>Electrochimica Acta</i> , 2017 , 248, 578-584	6.7	17
148	Polymer-Based Protein Engineering: Synthesis and Characterization of Armored, High Graft Density Polymer-Protein Conjugates. <i>Methods in Enzymology</i> , 2017 , 590, 347-380	1.7	10
147	Bactericidal Specificity and Resistance Profile of Poly(Quaternary Ammonium) Polymers and Protein-Poly(Quaternary Ammonium) Conjugates. <i>Biomacromolecules</i> , 2017 , 18, 2583-2593	6.9	31
146	Intramolecular Electron Transfer through Poly-Ferrocenyl Glucose Oxidase Conjugates to Carbon Electrodes: 2. Mechanistic Understanding of Long-Term Stability. <i>Electrochimica Acta</i> , 2017 , 246, 294-302	6.7	2

145	Polymer-based protein engineering grown ferrocene-containing redox polymers improve current generation in an enzymatic biofuel cell. <i>Biosensors and Bioelectronics</i> , 2016 , 86, 446-453	11.8	49
144	Improved power density of an enzymatic biofuel cell with fibrous supports of high curvature. <i>RSC Advances</i> , 2016 , 6, 10150-10158	3.7	21
143	The Effect of Covalently-Attached ATRP-Synthesized Polymers on Membrane Stability and Cytoprotection in Human Erythrocytes. <i>PLoS ONE</i> , 2016 , 11, e0157641	3.7	5
142	Polymer-Based Protein Engineering Enables Molecular Dissolution of Chymotrypsin in Acetonitrile. <i>ACS Macro Letters</i> , 2016 , 5, 493-497	6.6	29
141	Blood soluble polymers for enhancing near-vessel-wall RBC traffic in presence of hemoglobin based oxygen carrier. <i>International Journal of Engineering Science</i> , 2014 , 83, 138-145	5.7	2
140	Multifunctional photo-crosslinked polymeric ionic hydrogel films. <i>Polymer Chemistry</i> , 2014 , 5, 2824-2835	4.9	18
139	Versatile non-contact micro-manipulation method using rotational flows locally induced by magnetic microrobots 2014 ,		3
138	Engineering of cell membranes with a bisphosphonate-containing polymer using ATRP synthesis for bone targeting. <i>Biomaterials</i> , 2014 , 35, 9447-58	15.6	20
137	Rational tailoring of substrate and inhibitor affinity via ATRP polymer-based protein engineering. <i>Biomacromolecules</i> , 2014 , 15, 2817-23	6.9	45
136	Dramatically increased pH and temperature stability of chymotrypsin using dual block polymer-based protein engineering. <i>Biomacromolecules</i> , 2014 , 15, 763-71	6.9	89
135	Moving into the Clinic 2014 , 57-81		
134	The end of the beginning for tissue engineering. <i>Lancet, The</i> , 2014 , 383, 193-5	40	14
133	Meeting the need for regenerative therapies: translation-focused analysis of U.S. regenerative medicine opportunities in cardiovascular and peripheral vascular medicine using detailed incidence data. <i>Tissue Engineering - Part B: Reviews</i> , 2013 , 19, 99-115	7.9	6
132	Polymer-based protein engineering can rationally tune enzyme activity, pH-dependence, and stability. <i>Biomacromolecules</i> , 2013 , 14, 1919-26	6.9	96
131	Tailoring enzyme activity and stability using polymer-based protein engineering. <i>Biomaterials</i> , 2013 , 34, 7437-43	15.6	84
130	Inductive, scaffold-based, regenerative medicine approach to reconstruction of the temporomandibular joint disk. <i>Journal of Oral and Maxillofacial Surgery</i> , 2012 , 70, 2656-68	1.8	52
129	Salicylic acid-releasing polyurethane acrylate polymers as anti-biofilm urological catheter coatings. <i>Acta Biomaterialia</i> , 2012 , 8, 1869-80	10.8	79
128	Direct electron transfer in a mediator-free glucose oxidase-based carbon nanotube-coated biosensor. <i>Carbon</i> , 2012 , 50, 4010-4020	10.4	62

127	Meeting the need for regenerative therapies I: target-based incidence and its relationship to U.S. spending, productivity, and innovation. <i>Tissue Engineering - Part B: Reviews</i> , 2012 , 18, 139-54	7.9	10
126	Recyclable antibacterial magnetic nanoparticles grafted with quaternized poly(2-(dimethylamino)ethyl methacrylate) brushes. <i>Biomacromolecules</i> , 2011 , 12, 1305-11	6.9	171
125	Extracellular matrix as an inductive template for temporomandibular joint meniscus reconstruction: a pilot study. <i>Journal of Oral and Maxillofacial Surgery</i> , 2011 , 69, e488-505	1.8	30
124	Electrospun gold nanofiber electrodes for biosensors. <i>Biosensors and Bioelectronics</i> , 2011 , 26, 2981-6	11.8	82
123	Tailoring the trajectory of cell rolling with cytotoxic surfaces. <i>Langmuir</i> , 2011 , 27, 15345-51	4	6
122	Sequential delivery of basic fibroblast growth factor and platelet-derived growth factor for angiogenesis. <i>Tissue Engineering - Part A</i> , 2011 , 17, 1181-9	3.9	59
121	The emerging relationship between regenerative medicine and physical therapeutics. <i>Physical Therapy</i> , 2010 , 90, 1807-14	3.3	42
120	Sequential delivery of vascular endothelial growth factor and sphingosine 1-phosphate for angiogenesis. <i>Biomaterials</i> , 2010 , 31, 7805-12	15.6	62
119	Decontamination of chemical and biological warfare agents with a single multi-functional material. <i>Biomaterials</i> , 2010 , 31, 4417-25	15.6	36
118	Dynamic oxygen enhances oocyte maturation in long-term follicle culture. <i>Tissue Engineering - Part C: Methods</i> , 2009 , 15, 323-32	2.9	18
117	The Scar-in-a-Jar: studying potential antifibrotic compounds from the epigenetic to extracellular level in a single well. <i>British Journal of Pharmacology</i> , 2009 , 158, 1196-209	8.6	104
116	Polyurethane-based leukocyte-inspired biocidal materials. <i>Biomaterials</i> , 2009 , 30, 6522-9	15.6	22
115	Introduction: History of Regenerative Medicine 2009 , 1-13		
114	Nonleaching antibacterial glass surfaces via "Grafting Onto": the effect of the number of quaternary ammonium groups on biocidal activity. <i>Langmuir</i> , 2008 , 24, 6785-95	4	186
113	Military Needs and Solutions in Regenerative Medicine 2008 , 1322-1332		
112	Enzyme sheathing enables nanoscale solubilization of biocatalyst and dramatically increases activity in organic solvent. <i>Biomacromolecules</i> , 2008 , 9, 1348-51	6.9	8
111	Matrix metalloproteinase-1 treatment of muscle fibrosis. <i>Acta Biomaterialia</i> , 2008 , 4, 1411-20	10.8	48
110	Antibacterial polypropylene via surface-initiated atom transfer radical polymerization. <i>Biomacromolecules</i> , 2007 , 8, 1396-9	6.9	275

109	Towards improved artificial lungs through biocatalysis. <i>Biomaterials</i> , 2007 , 28, 3131-9	15.6	45
108	Permanent, non-leaching antibacterial surface--2: how high density cationic surfaces kill bacterial cells. <i>Biomaterials</i> , 2007 , 28, 4870-9	15.6	569
107	Moving into the Clinic 2007 , 15-31		5
106	Matrix metalloproteinase-1 therapy improves muscle healing. <i>Journal of Applied Physiology</i> , 2007 , 102, 2338-45	3.7	49
105	Poly(N-vinylformamide)-A drag-reducing polymer for biomedical applications. <i>Biomacromolecules</i> , 2006 , 7, 1597-603	6.9	36
104	Do ion tethered functional groups affect IL solvent properties? The case of sulfoxides and sulfones. <i>Chemical Communications</i> , 2006 , 646-8	5.8	31
103	Surface-active antifungal polyquaternary amine. <i>Biomacromolecules</i> , 2006 , 7, 2762-9	6.9	71
102	Characterizing the modification of surface proteins with poly(ethylene glycol) to interrupt platelet adhesion. <i>Biomaterials</i> , 2006 , 27, 3125-35	15.6	44
101	Surface dispersion and hardening of self-assembled diacetylene nanotubes. <i>Nano Letters</i> , 2005 , 5, 2202-6	11.5	62
100	Calcium alginate microencapsulation of ovarian follicles impacts FSH delivery and follicle morphology. <i>Reproductive Biology and Endocrinology</i> , 2005 , 3, 47	5	57
99	Synthesis of uniform protein-polymer conjugates. <i>Biomacromolecules</i> , 2005 , 6, 3380-7	6.9	281
98	A stable three-enzyme creatinine biosensor. 1. Impact of structure, function and environment on PEGylated and immobilized sarcosine oxidase. <i>Acta Biomaterialia</i> , 2005 , 1, 173-81	10.8	21
97	A stable three-enzyme creatinine biosensor. 3. Immobilization of creatinine amidohydrolase and sensor development. <i>Acta Biomaterialia</i> , 2005 , 1, 193-9	10.8	18
96	Enhancing enzyme stability against TiO ₂ -UV induced inactivation. <i>Biomacromolecules</i> , 2005 , 6, 475-82	6.9	11
95	A stable three enzyme creatinine biosensor. 2. Analysis of the impact of silver ions on creatine amidinohydrolase. <i>Acta Biomaterialia</i> , 2005 , 1, 183-91	10.8	17
94	Enhancing bioplastic-substrate interaction via pore induction and directed migration of enzyme location. <i>Biotechnology and Bioengineering</i> , 2004 , 86, 628-36	4.9	2
93	Self-assembly of biocidal nanotubes from a single-chain diacetylene amine salt. <i>Journal of the American Chemical Society</i> , 2004 , 126, 13400-5	16.4	122
92	Rational protein modification leading to resistance of enzymes to TiO ₂ -UV irradiation-induced inactivation. <i>Biomacromolecules</i> , 2004 , 5, 1947-55	6.9	14

91	Maintenance of morphology and growth of ovarian follicles in suspension culture. <i>Tissue Engineering</i> , 2004 , 10, 545-52		27
90	Permanent, nonleaching antibacterial surfaces. 1. Synthesis by atom transfer radical polymerization. <i>Biomacromolecules</i> , 2004 , 5, 877-82	6.9	497
89	Biomaterials for mediation of chemical and biological warfare agents. <i>Annual Review of Biomedical Engineering</i> , 2003 , 5, 1-27	12	161
88	Use of salt hydrate pairs to control water activity for enzyme catalysis in ionic liquids. <i>Biotechnology Progress</i> , 2003 , 19, 1029-32	2.8	57
87	Impact of ionic liquid physical properties on lipase activity and stability. <i>Journal of the American Chemical Society</i> , 2003 , 125, 4125-31	16.4	500
86	Enzyme-containing Michael-adduct-based coatings. <i>Biomacromolecules</i> , 2003 , 4, 675-82	6.9	23
85	Directed capture of enzymes and bacteria on bioplastic films. <i>Biomacromolecules</i> , 2003 , 4, 850-5	6.9	17
84	ATRP synthesis of amphiphilic random, gradient, and block copolymers of 2-(dimethylamino)ethyl methacrylate and n-butyl methacrylate in aqueous media. <i>Biomacromolecules</i> , 2003 , 4, 1386-93	6.9	246
83	Catalytic buffers enable positive-response inhibition-based sensing of nerve agents. <i>Biotechnology and Bioengineering</i> , 2002 , 77, 352-7	4.9	14
82	High-activity enzyme-polyurethane coatings. <i>Biotechnology and Bioengineering</i> , 2002 , 79, 785-94	4.9	31
81	Synthesis of fluorinated NAD as a soluble coenzyme for enzymatic chemistry in fluorous solvents and carbon dioxide. <i>Tetrahedron</i> , 2002 , 58, 4091-4104	2.4	30
80	Polyethylene glycol diisocyanate decreases platelet deposition after balloon injury of rabbit femoral arteries. <i>Journal of Thrombosis and Thrombolysis</i> , 2002 , 13, 27-33	5.1	16
79	Enzyme Activity Using a Perfluoropolyether-Modified NAD(H) in Fluorous Solvents and Carbon Dioxide. <i>ACS Symposium Series</i> , 2002 , 64-81	0.4	4
78	The phase behavior of fluorinated diols, divinyl adipate and a fluorinated polyester in supercritical carbon dioxide. <i>Fluid Phase Equilibria</i> , 2001 , 178, 169-177	2.5	17
77	Thermoinactivation of diisopropylfluorophosphatase-containing polyurethane polymers. <i>Biomacromolecules</i> , 2001 , 2, 664-71	6.9	18
76	Use of a batch-stirred reactor to rationally tailor biocatalytic polytransesterification 2000 , 67, 424-434		15
75	Photoswitchable PEG-CA hydrogels and factors that affect their photosensitivity. <i>Journal of Polymer Science Part A</i> , 2000 , 38, 1466-1476	2.5	18
74	Enzymatic dehalogenation of gas phase substrates with haloalkane dehalogenase. <i>Biotechnology and Bioengineering</i> , 2000 , 69, 235-241	4.9	21

73	Treatment of rat pancreatic islets with reactive PEG. <i>Biomaterials</i> , 2000 , 21, 1155-64	15.6	87
72	Enzymatic catalysis of formation of Z-aspartame in ionic liquid - An alternative to enzymatic catalysis in organic solvents. <i>Biotechnology Progress</i> , 2000 , 16, 1129-31	2.8	354
71	Biocatalytic synthesis of fluorinated polyesters. <i>Biotechnology Progress</i> , 2000 , 16, 64-8	2.8	27
70	Irreversible immobilization of diisopropylfluorophosphatase in polyurethane polymers. <i>Biomacromolecules</i> , 2000 , 1, 571-6	6.9	29
69	Use of a batch-stirred reactor to rationally tailor biocatalytic polytransesterification 2000 , 67, 424		1
68	Enzymatic dehalogenation of gas phase substrates with haloalkane dehalogenase 2000 , 69, 235		1
67	Molecular barriers to biomaterial thrombosis by modification of surface proteins with polyethylene glycol. <i>Biomaterials</i> , 1999 , 20, 101-9	15.6	41
66	Organophosphate skin decontamination using immobilized enzymes. <i>Chemico-Biological Interactions</i> , 1999 , 119-120, 463-70	5	36
65	Study of enzyme-catalyzed reactions in organic solvents using multiple linear regression. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 1999 , 7, 273-282		11
64	Enzymatic synthesis of carbonate monomers and polycarbonates. <i>Biotechnology and Bioengineering</i> , 1999 , 62, 259-66	4.9	30
63	Biocatalytic nerve agent detoxification in fire fighting foams. <i>Biotechnology and Bioengineering</i> , 1999 , 62, 659-65	4.9	28
62	Increasing the tolerance of organophosphorus hydrolase to bleach. <i>Biotechnology and Bioengineering</i> , 1999 , 64, 250-4	4.9	21
61	Enzyme-catalyzed polycondensation reactions for the synthesis of aromatic polycarbonates and polyesters 1999 , 65, 485-489		27
60	Photoimmobilization of organophosphorus hydrolase within a PEG-based hydrogel 1999 , 65, 579-588		42
59	Supercritical Biocatalysis. <i>Chemical Reviews</i> , 1999 , 99, 623-634	68.1	235
58	Nerve agents degraded by enzymatic foams. <i>Nature</i> , 1998 , 395, 27-8	50.4	99
57	Fighting nerve agent chemical weapons with enzyme technology. <i>Annals of the New York Academy of Sciences</i> , 1998 , 864, 153-70	6.5	21
56	Solubilization of subtilisin in CO ₂ using fluoroether-functional amphiphiles. <i>Biotechnology and Bioengineering</i> , 1998 , 58, 572-80	4.9	36

55	Rapid biocatalytic polytransesterification: reaction kinetics in an exothermic reaction. <i>Biotechnology and Bioengineering</i> , 1998 , 59, 428-37	4.9	8
54	Creating molecular barriers to acute platelet deposition on damaged arteries with reactive polyethylene glycol. <i>Journal of Biomedical Materials Research Part B</i> , 1998 , 41, 251-6		44
53	Light-induced tailoring of PEG-hydrogel properties. <i>Biomaterials</i> , 1998 , 19, 1343-52	15.6	100
52	Molecular barriers to biomaterial thrombosis by modification of surface proteins with polyethylene glycol. <i>Biomaterials</i> , 1998 , 19, 1885-93	15.6	60
51	One-Step Biocatalytic Synthesis of Linear Polyesters with Pendant Hydroxyl Groups. <i>Journal of the American Chemical Society</i> , 1998 , 120, 9475-9480	16.4	108
50	Incorporation of Poly(ethylene glycol)-Proteins into Polymers. <i>ACS Symposium Series</i> , 1997 , 134-144	0.4	1
49	Biocatalytic Solvent-Free Polymerization To Produce High Molecular Weight Polyesters. <i>Biotechnology Progress</i> , 1997 , 13, 318-325	2.8	65
48	Dramatically stabilized phosphotriesterase-polymers for nerve agent degradation. <i>Biotechnology and Bioengineering</i> , 1997 , 54, 105-14	4.9	75
47	Biocatalytic polyester synthesis: analysis of the evolution of molecular weight and end group functionality. <i>Biotechnology and Bioengineering</i> , 1997 , 55, 227-39	4.9	33
46	The role of hydration in enzyme activity and stability: 1. Water adsorption by alcohol dehydrogenase in a continuous gas phase reactor. <i>Biotechnology and Bioengineering</i> , 1996 , 49, 700-8	4.9	24
45	The role of hydration in enzyme activity and stability: 2. Alcohol dehydrogenase activity and stability in a continuous gas phase reactor. <i>Biotechnology and Bioengineering</i> , 1996 , 49, 709-16	4.9	38
44	Covalent binding of a nerve agent hydrolyzing enzyme within polyurethane foams. <i>Biotechnology and Bioengineering</i> , 1996 , 51, 450-7	4.9	36
43	Photocissable Hydrogel Synthesis via Rapid Photopolymerization of Novel PEG-Based Polymers in the Absence of Photoinitiators?. <i>Journal of the American Chemical Society</i> , 1996 , 118, 6235-6240	16.4	85
42	Control of Subtilisin Substrate Specificity by Solvent Engineering in Organic Solvents and Supercritical Fluoroform. <i>Journal of the American Chemical Society</i> , 1996 , 118, 12891-12901	16.4	69
41	Characterization of Synthetic Polymers Using Matrix-Assisted Laser Desorption/Ionization Time of Flight Mass Spectrometry. <i>Macromolecules</i> , 1996 , 29, 2213-2221	5.5	40
40	Polyethylene glycol-induced stabilization of subtilisin. <i>Enzyme and Microbial Technology</i> , 1996 , 18, 82-89	3.8	60
39	Covalent binding of a nerve agent hydrolyzing enzyme within polyurethane foams 1996 , 51, 450		35
38	Enzyme Activity in Supercritical Fluids. <i>Critical Reviews in Biotechnology</i> , 1995 , 15, 41-71	9.4	165

37	Activity and Stability of Enzymes Incorporated into Acrylic Polymers. <i>Journal of the American Chemical Society</i> , 1995 , 117, 4843-4850	16.4	108
36	Rational Control of Polymer Molecular Weight and Dispersity during Enzyme-Catalyzed Polyester Synthesis in Supercritical Fluids. <i>Journal of the American Chemical Society</i> , 1995 , 117, 3728-3733	16.4	66
35	Nonaqueous biocatalytic degradation of a nerve gas mimic. <i>Biotechnology Progress</i> , 1995 , 11, 471-4	2.8	35
34	Synthesis of protein-containing polymers in organic solvents. <i>Biotechnology and Bioengineering</i> , 1995 , 45, 10-7	4.9	29
33	Biocatalytic synthesis of acrylates in organic solvents and supercritical fluids: III. Does carbon dioxide covalently modify enzymes?. <i>Biotechnology and Bioengineering</i> , 1995 , 46, 610-20	4.9	113
32	A comparison of lipase-catalyzed ester hydrolysis in reverse micelles, organic solvents, and biphasic systems. <i>Biotechnology and Bioengineering</i> , 1995 , 47, 60-70	4.9	54
31	Characterization of a nonionic surfactant reversed micellar system for enzyme catalysis. <i>The Journal of Physical Chemistry</i> , 1994 , 98, 369-376		35
30	Two-Step biocatalytic conversion of an ester to an aldehyde in reverse micelles. <i>Biotechnology and Bioengineering</i> , 1994 , 43, 232-41	4.9	24
29	High pressure EPR studies of protein mobility in reversed micelles. <i>Biotechnology and Bioengineering</i> , 1994 , 43, 342-8	4.9	13
28	Biodegradation of pesticides in nonionic water-in-oil microemulsions of tween 85: Relationship between micelle structure and activity. <i>Biotechnology and Bioengineering</i> , 1994 , 43, 946-59	4.9	22
27	Expression of β -Lytic Protease in <i>Bacillus Subtilis</i> . <i>Biocatalysis</i> , 1994 , 11, 283-304		
26	pH Dependence of subtilisin dispersed in organic solvents. <i>Journal of the American Chemical Society</i> , 1993 , 115, 12251-12257	16.4	60
25	Control of enzyme enantioselectivity with pressure changes in supercritical fluoroform. <i>Journal of the American Chemical Society</i> , 1993 , 115, 8845-8846	16.4	86
24	Kinetic analysis of the mechanism for subtilisin in essentially anhydrous organic solvents. <i>Enzyme and Microbial Technology</i> , 1993 , 15, 1022-1029	3.8	21
23	Optimization of Baker's Yeast Alcohol Dehydrogenase Activity in an Organic Solvent. <i>Biotechnology Progress</i> , 1993 , 9, 234-241	2.8	16
22	Solubilization and activity of proteins in compressible-fluid based microemulsions. <i>Nature Biotechnology</i> , 1992 , 10, 1584-8	44.5	6
21	Solubilization and Activity of Proteins in Supercritical Fluids. <i>Annals of the New York Academy of Sciences</i> , 1992 , 672, 283-292	6.5	1
20	Role of diffusion in nonaqueous enzymology. 1. Theory. <i>Enzyme and Microbial Technology</i> , 1992 , 14, 265-318	3.8	58

19	Activity of Thiolsubtilisin in Organic Solvents. <i>Biotechnology Progress</i> , 1992 , 8, 256-258	2.8	8
18	Protein extraction and activity in reverse micelles of a nonionic detergent. <i>Biotechnology and Bioengineering</i> , 1992 , 39, 806-14	4.9	69
17	Effect of hydration on the morphology of enzyme powder. <i>Biotechnology and Bioengineering</i> , 1992 , 39, 1171-5	4.9	25
16	Biocatalytic synthesis of acrylates in organic solvents and supercritical fluids: I. optimization of enzyme environment. <i>Biotechnology and Bioengineering</i> , 1992 , 40, 158-66	4.9	115
15	Determination of equilibrium and individual rate constants for subtilisin-catalyzed transesterification in anhydrous environments. <i>Biotechnology and Bioengineering</i> , 1992 , 40, 1069-77	4.9	41
14	Solubilization and Activity of Proteins in Supercritical Fluids. <i>Annals of the New York Academy of Sciences</i> , 1992 , 672, 283-292	6.5	2
13	Should the high diffusivity of a supercritical fluid increase the rate of an enzyme-catalyzed reaction?. <i>Enzyme and Microbial Technology</i> , 1991 , 13, 1007	3.8	18
12	Patents and literature. <i>Applied Biochemistry and Biotechnology</i> , 1991 , 31, 197-211	3.2	16
11	Modification of enzyme catalysis by engineering surface charge. <i>Methods in Enzymology</i> , 1991 , 202, 620-43	4.7	9
10	Antibody-antigen binding in organic solvents. <i>Biochemical and Biophysical Research Communications</i> , 1989 , 158, 80-5	3.4	69
9	Enzymes in organic solvents. <i>Biochemical Society Transactions</i> , 1989 , 17, 1145	5.1	9
8	Control of enzyme enantioselectivity by the reaction medium. <i>Journal of the American Chemical Society</i> , 1988 , 110, 7236-7237	16.4	201
7	Enzymes in organic solvents: properties and applications. <i>Journal of Biotechnology</i> , 1988 , 8, 259-269	3.7	145
6	Electrostatic effects on modification of charged groups in the active site cleft of subtilisin by protein engineering. <i>Journal of Molecular Biology</i> , 1987 , 193, 803-13	6.5	154
5	Rational modification of enzyme catalysis by engineering surface charge. <i>Nature</i> , 1987 , 328, 496-500	50.4	316
4	Prediction of electrostatic effects of engineering of protein charges. <i>Nature</i> , 1987 , 330, 86-8	50.4	197
3	Commercial samples of subtilisin BPN?. <i>Nature</i> , 1986 , 321, 733-733	50.4	17
2	Tailoring the pH dependence of enzyme catalysis using protein engineering. <i>Nature</i> , 1985 , 318, 375-376	50.4	148

1	Dynamic Oxygen Enhances Oocyte Maturation in Long-Term Follicle Culture. <i>Tissue Engineering - Part A</i> ,110306231138043	3.9	o
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