

# Wilfred Chen

## 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.

241  
papers

13,239  
citations

65  
h-index

103  
g-index

249  
ext. papers

14,286  
ext. citations

6.3  
avg, IF

6.47  
L-index

#	Paper	IF	Citations
241	Deciphering the Design Rules of Toehold-Gated sgRNA for Conditional Activation of Gene Expression and Protein Degradation in Mammalian Cells.. <i>ACS Synthetic Biology</i> , <b>2022</b> , 11, 397-405	5.7	0
240	Incorporation of Endosomolytic Peptides with Varying Disruption Mechanisms into EGFR-Targeted Protein Conjugates: The Effect on Intracellular Protein Delivery and EGFR Specificity in Breast Cancer Cells.. <i>Molecular Pharmaceutics</i> , <b>2022</b> ,	5.6	3
239	Outer membrane vesicles (OMVs) enabled bio-applications: A critical review. <i>Biotechnology and Bioengineering</i> , <b>2022</b> , 119, 34-47	4.9	6
238	Strategies for Multienzyme Assemblies. <i>Methods in Molecular Biology</i> , <b>2022</b> , 113-131	1.4	
237	Self-assembling protein nanocages for modular enzyme assembly by orthogonal bioconjugation. <i>Biotechnology Progress</i> , <b>2021</b> , 37, e3190	2.8	2
236	Engineering a Blue Light Inducible SpyTag System (BLISS). <i>Journal of the American Chemical Society</i> , <b>2021</b> , 143, 8572-8577	16.4	3
235	Recent Advances in Cell Surface Display Technologies for Directed Protein Evolution <b>2021</b> , 81-103		
234	Engineering bionanoparticles for improved biosensing and bioimaging. <i>Current Opinion in Biotechnology</i> , <b>2021</b> , 71, 41-48	11.4	2
233	Biological Assembly of Modular Protein Building Blocks as Sensing, Delivery, and Therapeutic Agents. <i>Annual Review of Chemical and Biomolecular Engineering</i> , <b>2020</b> , 11, 35-62	8.9	8
232	Synthesis of gold nanostructures using glycine as the reducing agent. <i>Nanotechnology</i> , <b>2020</b> , 31, 4556013,4	3.4	1
231	Conditional Protein Rescue by Binding-Induced Protective Shielding. <i>ACS Synthetic Biology</i> , <b>2020</b> , 9, 2639-2647	5.7	0
230	Controlling metabolic flux by toehold-mediated strand displacement. <i>Current Opinion in Biotechnology</i> , <b>2020</b> , 66, 150-157	11.4	1
229	Modular Hepatitis B Virus-like Particle Platform for Biosensing and Drug Delivery. <i>ACS Nano</i> , <b>2020</b> , 14, 12642-12651	16.7	20
228	Site-Specific Bioconjugation Approaches for Enhanced Delivery of Protein Therapeutics and Protein Drug Carriers. <i>Bioconjugate Chemistry</i> , <b>2020</b> , 31, 2272-2282	6.3	9
227	A modular approach for dCas9-mediated enzyme cascading orthogonal bioconjugation. <i>Chemical Communications</i> , <b>2020</b> , 56, 11426-11428	5.8	3
226	Synthetic biology approaches for targeted protein degradation. <i>Biotechnology Advances</i> , <b>2019</b> , 37, 107446,8	16.8	6
225	Artificial scaffolds for enhanced biocatalysis. <i>Methods in Enzymology</i> , <b>2019</b> , 617, 363-383	1.7	5

224	Artificial Cellulosome Complex from the Self-Assembly of Ni-NTA-Functionalized Polymeric Micelles and Cellulases. <i>ChemBioChem</i> , <b>2019</b> , 20, 1394-1399	3.8	13
223	Exploiting dCas9 fusion proteins for dynamic assembly of synthetic metabolons. <i>Chemical Communications</i> , <b>2019</b> , 55, 8219-8222	5.8	13
222	Tunable modulation of antibody-antigen interaction by protease cleavage of protein M. <i>Biotechnology and Bioengineering</i> , <b>2019</b> , 116, 2834-2842	4.9	1
221	Genetically engineered bio-nanoparticles with co-expressed enzyme reporter and recognition element for IgG immunoassay. <i>Sensors and Actuators Reports</i> , <b>2019</b> , 1, 100003	4.7	7
220	Genetically Engineered Bacterial Outer Membrane Vesicles with Expressed Nanoluciferase Reporter for Bioluminescence Kinetic Modeling through Noninvasive Imaging.. <i>ACS Applied Bio Materials</i> , <b>2019</b> , 2, 5608-5615	4.1	8
219	Controlled Epidermal Growth Factor Receptor Ligand Display on Cancer Suicide Enzymes via Unnatural Amino Acid Engineering for Enhanced Intracellular Delivery in Breast Cancer Cells. <i>Bioconjugate Chemistry</i> , <b>2019</b> , 30, 432-442	6.3	11
218	Riboregulated toehold-gated gRNA for programmable CRISPR-Cas9 function. <i>Nature Chemical Biology</i> , <b>2019</b> , 15, 217-220	11.7	61
217	High-efficiency affinity precipitation of multiple industrial mAbs and Fc-fusion proteins from cell culture harvests using Z-ELP-E2 nanocages. <i>Biotechnology and Bioengineering</i> , <b>2018</b> , 115, 2039-2047	4.9	9
216	Dynamic protein assembly by programmable DNA strand displacement. <i>Nature Chemistry</i> , <b>2018</b> , 10, 474-481	11.6	62
215	One-step affinity capture and precipitation for improved purification of an industrial monoclonal antibody using Z-ELP functionalized nanocages. <i>Biotechnology and Bioengineering</i> , <b>2018</b> , 115, 423-432	4.9	20
214	SpyTag/SpyCatcher Functionalization of E2 Nanocages with Stimuli-Responsive Z-ELP Affinity Domains for Tunable Monoclonal Antibody Binding and Precipitation Properties. <i>Bioconjugate Chemistry</i> , <b>2018</b> , 29, 3113-3120	6.3	11
213	Engineering the bioconversion of methane and methanol to fuels and chemicals in native and synthetic methylotrophs. <i>Current Opinion in Biotechnology</i> , <b>2018</b> , 50, 81-93	11.4	64
212	Rapid Quantification of Monoclonal Antibody Titer in Cell Culture Harvests by Antibody-Induced Z-ELP-E2 Nanoparticle Cross-Linking. <i>Analytical Chemistry</i> , <b>2018</b> , 90, 14447-14452	7.8	6
211	A tribute to Professor Jay Bailey: A pioneer in biochemical engineering. <i>AIChE Journal</i> , <b>2018</b> , 64, 4179-4181	5.8	0
210	Ligand-Induced Cross-Linking of Z-Elastin-like Polypeptide-Functionalized E2 Protein Nanoparticles for Enhanced Affinity Precipitation of Antibodies. <i>Biomacromolecules</i> , <b>2017</b> , 18, 1654-1659	6.9	17
209	Control of the Yeast Mating Pathway by Reconstitution of Functional $\Phi$ Factor Using Split Intein-Catalyzed Reactions. <i>ACS Synthetic Biology</i> , <b>2017</b> , 6, 1453-1460	5.7	3
208	Engineering multi-functional bacterial outer membrane vesicles as modular nanodevices for biosensing and bioimaging. <i>Chemical Communications</i> , <b>2017</b> , 53, 7569-7572	5.8	32
207	In vitro methanol production from methyl coenzyme M using the <i>Methanosarcina barkeri</i> MtaABC protein complex. <i>Biotechnology Progress</i> , <b>2017</b> , 33, 1243-1249	2.8	8

206	Bio-orthogonal conjugation and enzymatically triggered release of proteins within multi-layered hydrogels. <i>Acta Biomaterialia</i> , <b>2017</b> , 56, 80-90	10.8	29
205	DNA-guided assembly of a five-component enzyme cascade for enhanced conversion of cellulose to gluconic acid and HO. <i>Journal of Biotechnology</i> , <b>2017</b> , 263, 30-35	3.7	8
204	Induced prodrug activation by conditional protein degradation. <i>Journal of Biotechnology</i> , <b>2017</b> , 260, 62-67	3.7	5
203	Protein Nanoparticles as Multifunctional Biocatalysts and Health Assessment Sensors. <i>Current Opinion in Chemical Engineering</i> , <b>2016</b> , 13, 109-118	5.4	19
202	Scaffoldless engineered enzyme assembly for enhanced methanol utilization. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2016</b> , 113, 12691-12696	11.5	70
201	ELP-OPH/BSA/TiO <sub>2</sub> nanofibers/c-MWCNTs based biosensor for sensitive and selective determination of p-nitrophenyl substituted organophosphate pesticides in aqueous system. <i>Biosensors and Bioelectronics</i> , <b>2016</b> , 85, 935-942	11.8	54
200	HaloTag mediated artificial cellulosome assembly on a rolling circle amplification DNA template for efficient cellulose hydrolysis. <i>Chemical Communications</i> , <b>2016</b> , 52, 6701-4	5.8	25
199	A non-chromatographic protein purification strategy using Src 3 homology domains as generalized capture domains. <i>Journal of Biotechnology</i> , <b>2016</b> , 234, 27-34	3.7	12
198	Post-Translational Modification of Bionanoparticles as a Modular Platform for Biosensor Assembly. <i>ACS Nano</i> , <b>2015</b> , 9, 8554-61	16.7	32
197	Sortase A-mediated multi-functionalization of protein nanoparticles. <i>Chemical Communications</i> , <b>2015</b> , 51, 12107-10	5.8	47
196	Synthetic scaffolds for pathway enhancement. <i>Current Opinion in Biotechnology</i> , <b>2015</b> , 36, 98-106	11.4	63
195	Fluorescent protein-based molecular beacons by zinc finger protein-guided assembly. <i>Biotechnology and Bioengineering</i> , <b>2015</b> , 112, 236-41	4.9	8
194	Bioengineering strategies to generate artificial protein complexes. <i>Biotechnology and Bioengineering</i> , <b>2015</b> , 112, 1495-505	4.9	12
193	Biomolecular scaffolds for enhanced signaling and catalytic efficiency. <i>Current Opinion in Biotechnology</i> , <b>2014</b> , 28, 59-68	11.4	57
192	Quantitative assessment of in vivo HIV protease activity using genetically engineered QD-based FRET probes. <i>Biotechnology and Bioengineering</i> , <b>2014</b> , 111, 1082-7	4.9	12
191	Development of an ELP-Z based mAb affinity precipitation process using scaled-down filtration techniques. <i>Journal of Biotechnology</i> , <b>2014</b> , 192 Pt A, 11-9	3.7	13
190	Halo-tag mediated self-labeling of fluorescent proteins to molecular beacons for nucleic acid detection. <i>Chemical Communications</i> , <b>2014</b> , 50, 13735-8	5.8	21
189	Creation of artificial cellulosomes on DNA scaffolds by zinc finger protein-guided assembly for efficient cellulose hydrolysis. <i>Chemical Communications</i> , <b>2014</b> , 50, 1423-5	5.8	31

188	Affinity precipitation of a monoclonal antibody from an industrial harvest feedstock using an ELP-Z stimuli responsive biopolymer. <i>Biotechnology and Bioengineering</i> , <b>2014</b> , 111, 1595-603	4.9	29
187	Bactericidal activity of elastin-like polypeptide biopolymer with polyhistidine domain and silver. <i>Colloids and Surfaces B: Biointerfaces</i> , <b>2014</b> , 119, 66-70	6	7
186	Positional assembly of enzymes on bacterial outer membrane vesicles for cascade reactions. <i>PLoS ONE</i> , <b>2014</b> , 9, e97103	3.7	47
185	Functional assembly of a multi-enzyme methanol oxidation cascade on a surface-displayed trifunctional scaffold for enhanced NADH production. <i>Chemical Communications</i> , <b>2013</b> , 49, 3766-8	5.8	77
184	Microbial biosensors: engineered microorganisms as the sensing machinery. <i>Sensors</i> , <b>2013</b> , 13, 5777-95	3.8	135
183	Polypyrrole nanoribbon based chemiresistive immunosensors for viral plant pathogen detection. <i>Analytical Methods</i> , <b>2013</b> , 5, 3497	3.2	46
182	ELP-z and ELP-zz capturing scaffolds for the purification of immunoglobulins by affinity precipitation. <i>Journal of Biotechnology</i> , <b>2013</b> , 163, 10-6	3.7	37
181	Use of flow cytometry for rapid, quantitative detection of poliovirus-infected cells via TAT peptide-delivered molecular beacons. <i>Applied and Environmental Microbiology</i> , <b>2013</b> , 79, 696-700	4.8	8
180	High-throughput screening for the development of a monoclonal antibody affinity precipitation step using ELP-z stimuli responsive biopolymers. <i>Biotechnology and Bioengineering</i> , <b>2013</b> , 110, 2664-76	4.9	23
179	Functional display of complex cellulosomes on the yeast surface via adaptive assembly. <i>ACS Synthetic Biology</i> , <b>2013</b> , 2, 14-21	5.7	72
178	Engineering protein modules for diagnostic applications. <i>Current Opinion in Chemical Engineering</i> , <b>2013</b> , 2, 416-424	5.4	1
177	Size-modulated synergy of cellulase clustering for enhanced cellulose hydrolysis. <i>Biotechnology Journal</i> , <b>2013</b> , 8, 257-61	5.6	30
176	Functional assembly and characterization of a modular xylanosome for hemicellulose hydrolysis in yeast. <i>Biotechnology and Bioengineering</i> , <b>2013</b> , 110, 275-85	4.9	26
175	Engineering a recyclable elastin-like polypeptide capturing scaffold for non-chromatographic protein purification. <i>Biotechnology Progress</i> , <b>2013</b> , 29, 968-71	2.8	8
174	Hydrophilic and antimicrobial Ag-exchanged zeolite a coatings: A year-long durability study and preliminary evidence for their general microbiocidal efficacy to bacteria, fungus and yeast. <i>Microporous and Mesoporous Materials</i> , <b>2012</b> , 151, 352-357	5.3	34
173	Co-expression of Arabidopsis thaliana phytochelatin synthase and Treponema denticola cysteine desulphydrase for enhanced arsenic accumulation. <i>Biotechnology and Bioengineering</i> , <b>2012</b> , 109, 605-8	4.9	15
172	Tuning Electrical and Optoelectronic Properties of Single Cadmium Telluride Nanoribbon. <i>Journal of Physical Chemistry C</i> , <b>2012</b> , 116, 9202-9208	3.8	15
171	Biologically Assembled Nanobiocatalysts. <i>Topics in Catalysis</i> , <b>2012</b> , 55, 1138-1145	2.3	8

170	Engineering a high-affinity scaffold for non-chromatographic protein purification via intein-mediated cleavage. <i>Biotechnology and Bioengineering</i> , <b>2012</b> , 109, 2829-35	4.9	23
169	Enhanced arsenate uptake in <i>Saccharomyces cerevisiae</i> overexpressing the Pho84 phosphate transporter. <i>Biotechnology Progress</i> , <b>2012</b> , 28, 654-61	2.8	16
168	Prospective of Conducting Polymer Nanowire for Gas Sensing Application to its Physical Scaling. <i>Advanced Materials Research</i> , <b>2012</b> , 584, 224-228	0.5	3
167	Simultaneous detection of infectious human echoviruses and adenoviruses by an in situ nuclease-resistant molecular beacon-based assay. <i>Applied and Environmental Microbiology</i> , <b>2012</b> , 78, 1584-8	4.8	10
166	A quantum-dot based protein module for in vivo monitoring of protease activity through fluorescence resonance energy transfer. <i>Chemical Communications</i> , <b>2011</b> , 47, 5259-61	5.8	37
165	Detecting RNA viruses in living mammalian cells by fluorescence microscopy. <i>Trends in Biotechnology</i> , <b>2011</b> , 29, 307-13	15.1	32
164	A fluorescence resonance energy transfer-based fluorometer assay for screening anti-coxsackievirus B3 compounds. <i>Journal of Virological Methods</i> , <b>2011</b> , 171, 176-82	2.6	2
163	Simultaneous cell growth and ethanol production from cellulose by an engineered yeast consortium displaying a functional mini-cellulosome. <i>Microbial Cell Factories</i> , <b>2011</b> , 10, 89	6.4	79
162	Single Conducting Polymer Nanowire Based Sequence-Specific, Base-Pair-Length Dependant Label-free DNA Sensor. <i>Electroanalysis</i> , <b>2011</b> , 23, 371-379	3	36
161	Selective and Rapid Room Temperature Detection of H <sub>2</sub> S Using Gold Nanoparticle Chain Arrays. <i>Electroanalysis</i> , <b>2011</b> , 23, 2623-2628	3	32
160	Synthesis of chalcogenide ternary and quaternary nanotubes through directed compositional alterations of bacterial As <sub>2</sub> S <sub>3</sub> nanotubes. <i>Journal of Materials Chemistry</i> , <b>2011</b> , 21, 10277		7
159	Detection of murine norovirus-1 by using TAT peptide-delivered molecular beacons. <i>Applied and Environmental Microbiology</i> , <b>2011</b> , 77, 5517-20	4.8	11
158	Detection of infective poliovirus by a simple, rapid, and sensitive flow cytometry method based on fluorescence resonance energy transfer technology. <i>Applied and Environmental Microbiology</i> , <b>2010</b> , 76, 584-8	4.8	17
157	Enzyme mediated synthesis of phytochelatin-capped CdS nanocrystals. <i>Applied Physics Letters</i> , <b>2010</b> , 97, 123703	3.4	11
156	Surface display of a functional minicellulosome by intracellular complementation using a synthetic yeast consortium and its application to cellulose hydrolysis and ethanol production. <i>Applied and Environmental Microbiology</i> , <b>2010</b> , 76, 7514-20	4.8	141
155	Nano aptasensor for protective antigen toxin of anthrax. <i>Analytical Chemistry</i> , <b>2010</b> , 82, 2042-7	7.8	87
154	Single-walled carbon nanotube-based chemiresistive affinity biosensors for small molecules: ultrasensitive glucose detection. <i>Journal of the American Chemical Society</i> , <b>2010</b> , 132, 5024-6	16.4	136
153	Effect of (L:D) Aspect Ratio on Single Polypyrrole Nanowire FET Device. <i>Journal of Physical Chemistry C</i> , <b>2010</b> , 114, 13375-13380	3.8	35

152	Label-free chemiresistive immunosensors for viruses. <i>Environmental Science &amp; Technology</i> , <b>2010</b> , 44, 9030-5	10.3	38
151	Molecular beacon-quantum dot-Au nanoparticle hybrid nanoprobe for visualizing virus replication in living cells. <i>Chemical Communications</i> , <b>2010</b> , 46, 3914-6	5.8	70
150	Systematic engineering of phytochelatin synthesis and arsenic transport for enhanced arsenic accumulation in <i>E. coli</i> . <i>Biotechnology and Bioengineering</i> , <b>2010</b> , 105, 780-5	4.9	20
149	Carbon nanotubes-based chemiresistive immunosensor for small molecules: detection of nitroaromatic explosives. <i>Biosensors and Bioelectronics</i> , <b>2010</b> , 26, 1297-301	11.8	64
148	Conducting polymer 1-dimensional nanostructures for FET sensors. <i>Thin Solid Films</i> , <b>2010</b> , 519, 964-973	2.2	35
147	Functional assembly of minicellulosomes on the <i>Saccharomyces cerevisiae</i> cell surface for cellulose hydrolysis and ethanol production. <i>Applied and Environmental Microbiology</i> , <b>2009</b> , 75, 6087-93	4.8	165
146	Optimization of a whole-cell cadmium sensor with a toggle gene circuit. <i>Biotechnology Progress</i> , <b>2009</b> , 25, 898-903	2.8	43
145	Label-free detection of cupric ions and histidine-tagged proteins using single poly(pyrrole)-NTA chelator conducting polymer nanotube chemiresistive sensor. <i>Biosensors and Bioelectronics</i> , <b>2009</b> , 24, 1451-5	11.8	28
144	Arsenic metabolism by microbes in nature and the impact on arsenic remediation. <i>Current Opinion in Biotechnology</i> , <b>2009</b> , 20, 659-67	11.4	131
143	Simultaneous degradation of organophosphates and 4-substituted phenols by <i>Stenotrophomonas</i> species LZ-1 with surface-displayed organophosphorus hydrolase. <i>Journal of Agricultural and Food Chemistry</i> , <b>2009</b> , 57, 6171-7	5.7	19
142	Real-time molecular methods to detect infectious viruses. <i>Seminars in Cell and Developmental Biology</i> , <b>2009</b> , 20, 49-54	7.5	29
141	Single conducting polymer nanowire chemiresistive label-free immunosensor for cancer biomarker. <i>Analytical Chemistry</i> , <b>2009</b> , 81, 2168-75	7.8	140
140	Rapid identification of inhibitors that interfere with poliovirus replication using a cell-based assay. <i>Antiviral Research</i> , <b>2008</b> , 77, 232-6	10.8	60
139	Synthesis and characterization of cadmium telluride nanowire. <i>Nanotechnology</i> , <b>2008</b> , 19, 325711	3.4	47
138	Recent biosensing developments in environmental security. <i>Journal of Environmental Monitoring</i> , <b>2008</b> , 10, 703-12		61
137	Versatile microbial surface-display for environmental remediation and biofuels production. <i>Trends in Microbiology</i> , <b>2008</b> , 16, 181-8	12.4	91
136	Cell surface display of functional macromolecule fusions on <i>Escherichia coli</i> for development of an autofluorescent whole-cell biocatalyst. <i>Environmental Science &amp; Technology</i> , <b>2008</b> , 42, 6105-10	10.3	23
135	Detection of recombinant <i>Pseudomonas putida</i> in the wheat rhizosphere by fluorescence in situ hybridization targeting mRNA and rRNA. <i>Applied Microbiology and Biotechnology</i> , <b>2008</b> , 79, 511-8	5.7	9

134	Highly selective and rapid arsenic removal by metabolically engineered Escherichia coli cells expressing Fucus vesiculosus metallothionein. <i>Applied and Environmental Microbiology</i> , <b>2008</b> , 74, 2924-7	4.8	60
133	Visualizing the dynamics of viral replication in living cells via Tat peptide delivery of nuclease-resistant molecular beacons. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2008</b> , 105, 17522-5	11.5	58
132	Detection of hepatitis a virus by using a combined cell culture-molecular beacon assay. <i>Applied and Environmental Microbiology</i> , <b>2008</b> , 74, 2239-43	4.8	26
131	Development of an autofluorescent whole-cell biocatalyst by displaying dual functional moieties on Escherichia coli cell surfaces and construction of a coculture with organophosphate-mineralizing activity. <i>Applied and Environmental Microbiology</i> , <b>2008</b> , 74, 7733-9	4.8	20
130	Molecular beacons: a real-time polymerase chain reaction assay for detecting Escherichia coli from fresh produce and water. <i>Analytica Chimica Acta</i> , <b>2008</b> , 614, 208-12	6.6	51
129	Electrochemical Synthesis of Perfluorinated Ion Doped Conducting Polyaniline Films Consisting of Helical Fibers and their Reversible Switching between Superhydrophobicity and Superhydrophilicity. <i>Macromolecular Rapid Communications</i> , <b>2008</b> , 29, 832-838	4.8	70
128	Surface display of MPH on Pseudomonas putida JS444 using ice nucleation protein and its application in detoxification of organophosphates. <i>Biotechnology and Bioengineering</i> , <b>2008</b> , 99, 30-7	4.9	44
127	Presentation of functional organophosphorus hydrolase fusions on the surface of Escherichia coli by the AIDA-I autotransporter pathway. <i>Biotechnology and Bioengineering</i> , <b>2008</b> , 99, 485-90	4.9	30
126	Enhanced arsenic accumulation by engineered yeast cells expressing Arabidopsis thaliana phytochelatin synthase. <i>Biotechnology and Bioengineering</i> , <b>2008</b> , 99, 333-40	4.9	41
125	Microbial synthesis of CdS nanocrystals in genetically engineered E. coli. <i>Angewandte Chemie - International Edition</i> , <b>2008</b> , 47, 5186-9	16.4	98
124	Bioremediation: environmental clean-up through pathway engineering. <i>Current Opinion in Biotechnology</i> , <b>2008</b> , 19, 437-44	11.4	136
123	Genetic engineering of self-assembled protein hydrogel based on elastin-like sequences with metal binding functionality. <i>Biomacromolecules</i> , <b>2007</b> , 8, 3736-9	6.9	41
122	Field-Effect Transistors Based on Single Nanowires of Conducting Polymers. <i>Journal of Physical Chemistry C</i> , <b>2007</b> , 111, 5218-5221	3.8	69
121	Cadmium removal from contaminated soil by thermally responsive elastin (ELPEC20) biopolymers. <i>Biotechnology and Bioengineering</i> , <b>2007</b> , 98, 349-55	4.9	25
120	Single-Walled Carbon Nanotube Based Real-Time Organophosphate Detector. <i>Electroanalysis</i> , <b>2007</b> , 19, 616-619	3	37
119	In Situ Fabrication of Single Poly(methyl pyrrole) Nanowire. <i>Electroanalysis</i> , <b>2007</b> , 19, 793-797	3	18
118	Organophosphorus hydrolase multilayer modified microcantilevers for organophosphorus detection. <i>Biosensors and Bioelectronics</i> , <b>2007</b> , 22, 2636-42	11.8	85
117	Affinity purification of plasmid DNA by temperature-triggered precipitation. <i>Nature Protocols</i> , <b>2007</b> , 2, 1263-8	18.8	16



116	Biosensor for direct determination of fenitrothion and EPN using recombinant <i>Pseudomonas putida</i> JS444 with surface-expressed organophosphorous hydrolase. 2. Modified carbon paste electrode. <i>Applied Biochemistry and Biotechnology</i> , <b>2007</b> , 136, 243-50	3.2	47
115	Bacteria metabolically engineered for enhanced phytochelatin production and cadmium accumulation. <i>Applied and Environmental Microbiology</i> , <b>2007</b> , 73, 6317-20	4.8	88
114	Comparison of a reporter assay and immunomagnetic separation real-time reverse transcription-PCR for the detection of enteroviruses in seeded environmental water samples. <i>Applied and Environmental Microbiology</i> , <b>2007</b> , 73, 2338-40	4.8	32
113	Elastin-calmodulin scaffold for protein microarray fabrication. <i>Langmuir</i> , <b>2007</b> , 23, 2277-9	4	8
112	Biomolecules-carbon nanotubes doped conducting polymer nanocomposites and their sensor application. <i>Talanta</i> , <b>2007</b> , 74, 370-5	6.2	52
111	Enantioconvergent production of (R)-1-phenyl-1,2-ethanediol from styrene oxide by combining the <i>Solanum tuberosum</i> and an evolved <i>Agrobacterium radiobacter</i> AD1 epoxide hydrolases. <i>Biotechnology and Bioengineering</i> , <b>2006</b> , 94, 522-9	4.9	61
110	Engineering TCE-degrading rhizobacteria for heavy metal accumulation and enhanced TCE degradation. <i>Biotechnology and Bioengineering</i> , <b>2006</b> , 95, 399-403	4.9	40
109	Nanowire-Based Electrochemical Biosensors. <i>Electroanalysis</i> , <b>2006</b> , 18, 533-550	3	390
108	Fabrication and Properties of Conducting Polypyrrole/SWNT-PABS Composite Films and Nanotubes. <i>Electroanalysis</i> , <b>2006</b> , 18, 1047-1054	3	44
107	Durability of hydrophilic and antimicrobial zeolite coatings under water immersion. <i>AIChE Journal</i> , <b>2006</b> , 52, 1157-1161	3.6	29
106	Engineering plant-microbe symbiosis for rhizoremediation of heavy metals. <i>Applied and Environmental Microbiology</i> , <b>2006</b> , 72, 1129-34	4.8	222
105	Functional analysis of organophosphorus hydrolase variants with high degradation activity towards organophosphate pesticides. <i>Protein Engineering, Design and Selection</i> , <b>2006</b> , 19, 99-105	1.9	45
104	Fabrication of antibody arrays using thermally responsive elastin fusion proteins. <i>Journal of the American Chemical Society</i> , <b>2006</b> , 128, 676-7	16.4	65
103	Use of fluorescence resonance energy transfer for rapid detection of enteroviral infection in vivo. <i>Applied and Environmental Microbiology</i> , <b>2006</b> , 72, 3710-5	4.8	35
102	V-type nerve agent detection using a carbon nanotube-based amperometric enzyme electrode. <i>Analytical Chemistry</i> , <b>2006</b> , 78, 331-6	7.8	124
101	Simple conjugation and purification of quantum dot-antibody complexes using a thermally responsive elastin-protein L scaffold as immunofluorescent agents. <i>Journal of the American Chemical Society</i> , <b>2006</b> , 128, 14756-7	16.4	49
100	Controlled assembly of multi-segment nanowires by histidine-tagged peptides. <i>Nanotechnology</i> , <b>2006</b> , 17, 3375-9	3.4	21
99	Proteome changes after metabolic engineering to enhance aerobic mineralization of cis-1,2-dichloroethylene. <i>Journal of Proteome Research</i> , <b>2006</b> , 5, 1388-97	5.6	30

98	Biosensor for Direct Determination of Fenitrothion and EPN Using Recombinant <i>Pseudomonas putida</i> JS444 with Surface Expressed Organophosphorus Hydrolase. 1. Modified Clark Oxygen Electrode. <i>Sensors</i> , <b>2006</b> , 6, 466-472	3.8	29
97	Surface display of organophosphorus hydrolase on <i>Saccharomyces cerevisiae</i> . <i>Biotechnology Progress</i> , <b>2006</b> , 22, 939-43	2.8	55
96	Microbial biosensor for direct determination of nitrophenyl-substituted organophosphate nerve agents using genetically engineered <i>Moraxella</i> sp. <i>Analytica Chimica Acta</i> , <b>2006</b> , 568, 217-21	6.6	59
95	Microbial biosensors. <i>Analytica Chimica Acta</i> , <b>2006</b> , 568, 200-10	6.6	353
94	Improved degradation of organophosphorus nerve agents and p-nitrophenol by <i>Pseudomonas putida</i> JS444 with surface-expressed organophosphorus hydrolase. <i>Biotechnology Progress</i> , <b>2005</b> , 21, 678-81	2.8	32
93	Bioaffinity sensing using biologically functionalized conducting-polymer nanowire. <i>Journal of the American Chemical Society</i> , <b>2005</b> , 127, 496-7	16.4	357
92	Genetically engineered elastin-protein A fusion as a universal platform for homogeneous, phase-separation immunoassay. <i>Analytical Chemistry</i> , <b>2005</b> , 77, 2318-22	7.8	49
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90	Removal of estrogenic pollutants from contaminated water using molecularly imprinted polymers. <i>Environmental Science &amp; Technology</i> , <b>2005</b> , 39, 8958-62	10.3	117
89	Highly sensitive and selective amperometric microbial biosensor for direct determination of p-nitrophenyl-substituted organophosphate nerve agents. <i>Environmental Science &amp; Technology</i> , <b>2005</b> , 39, 8853-7	10.3	82
88	Electrochemical and optical bioassays of nerve agents based on the organophosphorus-hydrolase mediated growth of cupric ferrocyanide nanoparticles. <i>Electrochemistry Communications</i> , <b>2005</b> , 7, 1371-1374	5.1	10
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86	Determination of organophosphate pesticides at a carbon nanotube/organophosphorus hydrolase electrochemical biosensor. <i>Analytica Chimica Acta</i> , <b>2005</b> , 530, 185-189	6.6	227
85	Detection of heavy metal ions in drinking water using a high-resolution differential surface plasmon resonance sensor. <i>Environmental Science &amp; Technology</i> , <b>2005</b> , 39, 1257-62	10.3	184
84	A Disposable Biosensor for Organophosphorus Nerve Agents Based on Carbon Nanotubes Modified Thick Film Strip Electrode. <i>Electroanalysis</i> , <b>2005</b> , 17, 54-58	3	200
83	Reversible conversion of conducting polymer films from superhydrophobic to superhydrophilic. <i>Angewandte Chemie - International Edition</i> , <b>2005</b> , 44, 6009-12	16.4	341
82	Temperature-triggered purification of antibodies. <i>Biotechnology and Bioengineering</i> , <b>2005</b> , 90, 373-9	4.9	44
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59	One-step metal-affinity purification of histidine-tagged proteins by temperature-triggered precipitation. <i>Biotechnology and Bioengineering</i> , <b>2003</b> , 82, 605-11	4.9	47
58	An immunoassay for atrazine using tunable immunosorbent. <i>Analytical Biochemistry</i> , <b>2003</b> , 322, 251-6	3.1	26
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44	Heavy metal removal by novel CBD-EC20 sorbents immobilized on cellulose. <i>Biomacromolecules</i> , <b>2002</b> , 3, 462-5	6.9	27
43	Organophosphorus Hydrolase-Based Amperometric Sensor: Modulation of Sensitivity and Substrate Selectivity <b>2002</b> , 14, 273		1
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25	Engineering of improved microbes and enzymes for bioremediation. <i>Current Opinion in Biotechnology</i> , <b>1999</b> , 10, 137-41	11.4	88
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23	Remote Biosensor for In-Situ MOnitoring of Organophosphate Nerve Agents. <i>Electroanalysis</i> , <b>1999</b> , 11, 866-869	3	89
22	Proteome analysis of factor for inversion stimulation (Fis) overproduction in Escherichia coli. <i>Electrophoresis</i> , <b>1999</b> , 20, 798-805	3.6	17
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10	Innovative bioreactors. <i>Current Opinion in Biotechnology</i> , <b>1997</b> , 8, 165-8	11.4	7
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