

Wilfred Chen

List of Publications by Year in descending order

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244
papers

15,424
citations

11651

70
h-index

23533

111
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249
all docs

249
docs citations

249
times ranked

13693
citing authors

#	ARTICLE	IF	CITATIONS
1	Nanowire-Based Electrochemical Biosensors. <i>Electroanalysis</i> , 2006, 18, 533-550.	2.9	439
2	Microbial biosensors. <i>Analytica Chimica Acta</i> , 2006, 568, 200-210.	5.4	403
3	Bioaffinity Sensing Using Biologically Functionalized Conducting-Polymer Nanowire. <i>Journal of the American Chemical Society</i> , 2005, 127, 496-497.	13.7	385
4	Reversible Conversion of Conducting Polymer Films from Superhydrophobic to Superhydrophilic. <i>Angewandte Chemie - International Edition</i> , 2005, 44, 6009-6012.	13.8	368
5	Biosensors for direct determination of organophosphate pesticides. <i>Biosensors and Bioelectronics</i> , 2001, 16, 225-230.	10.1	348
6	Biodegradation of organophosphorus pesticides by surface-expressed organophosphorus hydrolase. <i>Nature Biotechnology</i> , 1997, 15, 984-987.	17.5	298
7	Engineering Plant-Microbe Symbiosis for Rhizoremediation of Heavy Metals. <i>Applied and Environmental Microbiology</i> , 2006, 72, 1129-1134.	3.1	261
8	Determination of organophosphate pesticides at a carbon nanotube/organophosphorus hydrolase electrochemical biosensor. <i>Analytica Chimica Acta</i> , 2005, 530, 185-189.	5.4	251
9	Individually Addressable Conducting Polymer Nanowires Array. <i>Nano Letters</i> , 2004, 4, 1237-1239.	9.1	227
10	A Disposable Biosensor for Organophosphorus Nerve Agents Based on Carbon Nanotubes Modified Thick Film Strip Electrode. <i>Electroanalysis</i> , 2005, 17, 54-58.	2.9	220
11	Detection of Heavy Metal Ions in Drinking Water Using a High-Resolution Differential Surface Plasmon Resonance Sensor. <i>Environmental Science & Technology</i> , 2005, 39, 1257-1262.	10.0	213
12	Functional Assembly of Minicellulosomes on the <i>Saccharomyces cerevisiae</i> Cell Surface for Cellulose Hydrolysis and Ethanol Production. <i>Applied and Environmental Microbiology</i> , 2009, 75, 6087-6093.	3.1	188
13	Enhanced bioaccumulation of heavy metals by bacterial cells displaying synthetic phytochelatin. <i>Biotechnology and Bioengineering</i> , 2000, 70, 518-524.	3.3	185
14	Biosensor for Direct Determination of Organophosphate Nerve Agents Using Recombinant <i>Escherichia coli</i> with Surface-Expressed Organophosphorus Hydrolase. 1. Potentiometric Microbial Electrode. <i>Analytical Chemistry</i> , 1998, 70, 4140-4145.	6.5	181
15	Enhanced Arsenic Accumulation in Engineered Bacterial Cells Expressing ArsR. <i>Applied and Environmental Microbiology</i> , 2004, 70, 4582-4587.	3.1	181
16	Biosensor for direct determination of organophosphate nerve agents. 1. Potentiometric enzyme electrode. <i>Biosensors and Bioelectronics</i> , 1999, 14, 77-85.	10.1	178
17	Bacterial Cell Surface Display of Organophosphorus Hydrolase for Selective Screening of Improved Hydrolysis of Organophosphate Nerve Agents. <i>Applied and Environmental Microbiology</i> , 2002, 68, 2026-2030.	3.1	175
18	Amperometric Thick-Film Strip Electrodes for Monitoring Organophosphate Nerve Agents Based on Immobilized Organophosphorus Hydrolase. <i>Analytical Chemistry</i> , 1999, 71, 2246-2249.	6.5	172

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19	Arsenic metabolism by microbes in nature and the impact on arsenic remediation. <i>Current Opinion in Biotechnology</i> , 2009, 20, 659-667.	6.6	166
20	Single Conducting Polymer Nanowire Chemiresistive Label-Free Immunosensor for Cancer Biomarker. <i>Analytical Chemistry</i> , 2009, 81, 2168-2175.	6.5	165
21	Microbial Biosensors: Engineered Microorganisms as the Sensing Machinery. <i>Sensors</i> , 2013, 13, 5777-5795.	3.8	165
22	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> , 2010, 76, 7514-7520.	3.1	162
23	Bioremediation: environmental clean-up through pathway engineering. <i>Current Opinion in Biotechnology</i> , 2008, 19, 437-444.	6.6	159
24	Single-Walled Carbon Nanotube-Based Chemiresistive Affinity Biosensors for Small Molecules: Ultrasensitive Glucose Detection. <i>Journal of the American Chemical Society</i> , 2010, 132, 5024-5026.	13.7	149
25	Amperometric microbial biosensor for p-nitrophenol using <i>Moraxella</i> sp.-modified carbon paste electrode. <i>Biosensors and Bioelectronics</i> , 2005, 21, 523-527.	10.1	147
26	Molecular Beacons: A Real-Time Polymerase Chain Reaction Assay for Detecting Salmonella. <i>Analytical Biochemistry</i> , 2000, 280, 166-172.	2.4	146
27	V-Type Nerve Agent Detection Using a Carbon Nanotube-Based Amperometric Enzyme Electrode. <i>Analytical Chemistry</i> , 2006, 78, 331-336.	6.5	146
28	Capillary Electrophoresis Microchips for Separation and Detection of Organophosphate Nerve Agents. <i>Analytical Chemistry</i> , 2001, 73, 1804-1808.	6.5	144
29	Simultaneous degradation of organophosphorus pesticides and p-nitrophenol by a genetically engineered <i>Moraxella</i> sp. with surface-expressed organophosphorus hydrolase. <i>Biotechnology and Bioengineering</i> , 2001, 76, 318-324.	3.3	137
30	Use of Real-Time Polymerase Chain Reaction and Molecular Beacons for the Detection of <i>Escherichia coli</i> O157:H7. <i>Analytical Biochemistry</i> , 2001, 289, 281-288.	2.4	131
31	Amperometric microbial biosensor for direct determination of organophosphate pesticides using recombinant microorganism with surface expressed organophosphorus hydrolase. <i>Biosensors and Bioelectronics</i> , 2001, 16, 433-437.	10.1	130
32	Biosensor for Direct Determination of Organophosphate Nerve Agents Using Recombinant <i>Escherichia coli</i> with Surface-Expressed Organophosphorus Hydrolase. 2. Fiber-Optic Microbial Biosensor. <i>Analytical Chemistry</i> , 1998, 70, 5042-5046.	6.5	129
33	Genetic Engineering of <i>Escherichia coli</i> for Enhanced Uptake and Bioaccumulation of Mercury. <i>Applied and Environmental Microbiology</i> , 2001, 67, 5335-5338.	3.1	127
34	Microbial Synthesis of CdS Nanocrystals in Genetically Engineered <i>E. coli</i> . <i>Angewandte Chemie - International Edition</i> , 2008, 47, 5186-5189.	13.8	125
35	Enhanced Mercury Biosorption by Bacterial Cells with Surface-Displayed MerR. <i>Applied and Environmental Microbiology</i> , 2003, 69, 3176-3180.	3.1	122
36	Removal of Estrogenic Pollutants from Contaminated Water Using Molecularly Imprinted Polymers. <i>Environmental Science & Technology</i> , 2005, 39, 8958-8962.	10.0	121

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37	Novel synthetic phytochelatin-based capacitive biosensor for heavy metal ion detection. <i>Biosensors and Bioelectronics</i> , 2003, 18, 547-553.	10.1	120
38	Flow Injection Amperometric Enzyme Biosensor for Direct Determination of Organophosphate Nerve Agents. <i>Environmental Science & Technology</i> , 2001, 35, 2562-2565.	10.0	111
39	Fiber-Optic Enzyme Biosensor for Direct Determination of Organophosphate Nerve Agents. <i>Biotechnology Progress</i> , 1999, 15, 130-134.	2.6	109
40	Cell Surface Display of Organophosphorus Hydrolase Using Ice Nucleation Protein. <i>Biotechnology Progress</i> , 2001, 17, 76-80.	2.6	109
41	Altering the Substrate Specificity of Organophosphorus Hydrolase for Enhanced Hydrolysis of Chlorpyrifos. <i>Applied and Environmental Microbiology</i> , 2004, 70, 4681-4685.	3.1	106
42	Tunable Biopolymers for Heavy Metal Removal. <i>Macromolecules</i> , 2001, 34, 2257-2261.	4.8	105
43	Riboregulated toehold-gated gRNA for programmable CRISPR-Cas9 function. <i>Nature Chemical Biology</i> , 2019, 15, 217-220.	8.0	105
44	Cell-Surface display of heterologous proteins: From high-throughput screening to environmental applications. <i>Biotechnology and Bioengineering</i> , 2002, 79, 496-503.	3.3	104
45	Bacteria Metabolically Engineered for Enhanced Phytochelatin Production and Cadmium Accumulation. <i>Applied and Environmental Microbiology</i> , 2007, 73, 6317-6320.	3.1	104
46	Versatile microbial surface-display for environmental remediation and biofuels production. <i>Trends in Microbiology</i> , 2008, 16, 181-188.	7.7	104
47	Dynamic protein assembly by programmable DNA strand displacement. <i>Nature Chemistry</i> , 2018, 10, 474-481.	13.6	104
48	Expression, immobilization, and enzymatic characterization of cellulose-binding domain-organophosphorus hydrolase fusion enzymes. <i>Biotechnology and Bioengineering</i> , 2000, 69, 591-596.	3.3	100
49	Remote Biosensor for In-Situ Monitoring of Organophosphate Nerve Agents. <i>Electroanalysis</i> , 1999, 11, 866-869.	2.9	97
50	Engineering of improved microbes and enzymes for bioremediation. <i>Current Opinion in Biotechnology</i> , 1999, 10, 137-141.	6.6	96
51	Nano Aptasensor for Protective Antigen Toxin of Anthrax. <i>Analytical Chemistry</i> , 2010, 82, 2042-2047.	6.5	95
52	Organophosphorus hydrolase multilayer modified microcantilevers for organophosphorus detection. <i>Biosensors and Bioelectronics</i> , 2007, 22, 2636-2642.	10.1	94
53	Engineering the bioconversion of methane and methanol to fuels and chemicals in native and synthetic methylotrophs. <i>Current Opinion in Biotechnology</i> , 2018, 50, 81-93.	6.6	94
54	Scaffoldless engineered enzyme assembly for enhanced methanol utilization. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 12691-12696.	7.1	93

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55	Simultaneous cell growth and ethanol production from cellulose by an engineered yeast consortium displaying a functional mini-cellulosome. <i>Microbial Cell Factories</i> , 2011, 10, 89.	4.0	91
56	Tuning biphenyl dioxygenase for extended substrate specificity. , 1999, 63, 544-551.		90
57	Highly Sensitive and Selective Amperometric Microbial Biosensor for Direct Determination of p-Nitrophenyl-Substituted Organophosphate Nerve Agents. <i>Environmental Science & Technology</i> , 2005, 39, 8853-8857.	10.0	90
58	Functional assembly of a multi-enzyme methanol oxidation cascade on a surface-displayed trifunctional scaffold for enhanced NADH production. <i>Chemical Communications</i> , 2013, 49, 3766.	4.1	90
59	Detoxification of organophosphate nerve agents by immobilized <i>Escherichia coli</i> with surface-expressed organophosphorus hydrolase. <i>Biotechnology and Bioengineering</i> , 1999, 63, 216-223.	3.3	84
60	Functional Display of Complex Cellulosomes on the Yeast Surface via Adaptive Assembly. <i>ACS Synthetic Biology</i> , 2013, 2, 14-21.	3.8	84
61	Synthetic scaffolds for pathway enhancement. <i>Current Opinion in Biotechnology</i> , 2015, 36, 98-106.	6.6	84
62	The use of live biocatalysts for pesticide detoxification. <i>Trends in Biotechnology</i> , 1998, 16, 71-76.	9.3	83
63	Protein Engineering of Epoxide Hydrolase from <i>Agrobacterium radiobacter</i> AD1 for Enhanced Activity and Enantioselective Production of (R)-1-Phenylethane-1,2-Diol. <i>Applied and Environmental Microbiology</i> , 2005, 71, 3995-4003.	3.1	79
64	Field-Effect Transistors Based on Single Nanowires of Conducting Polymers. <i>Journal of Physical Chemistry C</i> , 2007, 111, 5218-5221.	3.1	77
65	Carbon nanotubes-based chemiresistive immunosensor for small molecules: Detection of nitroaromatic explosives. <i>Biosensors and Bioelectronics</i> , 2010, 26, 1297-1301.	10.1	76
66	Recent biosensing developments in environmental security. <i>Journal of Environmental Monitoring</i> , 2008, 10, 703.	2.1	75
67	Cell surface display of synthetic phytochelatins using ice nucleation protein for enhanced heavy metal bioaccumulation. <i>Journal of Inorganic Biochemistry</i> , 2002, 88, 223-227.	3.5	73
68	Fabrication of Antibody Arrays Using Thermally Responsive Elastin Fusion Proteins. <i>Journal of the American Chemical Society</i> , 2006, 128, 676-677.	13.7	73
69	Intracellular expression of <i>Vitreoscilla</i> hemoglobin alters the aerobic metabolism of <i>Saccharomyces cerevisiae</i> . <i>Biotechnology Progress</i> , 1994, 10, 308-313.	2.6	72
70	A Temperature Responsive Biopolymer for Mercury Remediation. <i>Environmental Science & Technology</i> , 2003, 37, 4457-4462.	10.0	72
71	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> , 2008, 29, 832-838.	3.9	72
72	Highly Selective and Rapid Arsenic Removal by Metabolically Engineered <i>Escherichia coli</i> Cells Expressing <i>Fucus vesiculosus</i> Metallothionein. <i>Applied and Environmental Microbiology</i> , 2008, 74, 2924-2927.	3.1	72

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73	Molecular beaconâ€“quantum dotâ€“Au nanoparticle hybrid nanoprobe for visualizing virus replication in living cells. <i>Chemical Communications</i> , 2010, 46, 3914.	4.1	72
74	Microbial biosensor for direct determination of nitrophenyl-substituted organophosphate nerve agents using genetically engineered <i>Moraxella</i> sp.. <i>Analytica Chimica Acta</i> , 2006, 568, 217-221.	5.4	70
75	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> , 2006, 94, 522-529.	3.3	67
76	Biomolecular scaffolds for enhanced signaling and catalytic efficiency. <i>Current Opinion in Biotechnology</i> , 2014, 28, 59-68.	6.6	67
77	Thermally triggered purification and immobilization of elastin-OPH fusions. <i>Biotechnology and Bioengineering</i> , 2003, 81, 74-79.	3.3	66
78	ELP-OPH/BSA/TiO ₂ nanofibers/c-MWCNTs based biosensor for sensitive and selective determination of p-nitrophenyl substituted organophosphate pesticides in aqueous system. <i>Biosensors and Bioelectronics</i> , 2016, 85, 935-942.	10.1	66
79	Rapid identification of inhibitors that interfere with poliovirus replication using a cell-based assay. <i>Antiviral Research</i> , 2008, 77, 232-236.	4.1	65
80	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> , 2008, 105, 17522-17525.	7.1	64
81	Polypyrrole nanoribbon based chemiresistive immunosensors for viral plant pathogen detection. <i>Analytical Methods</i> , 2013, 5, 3497.	2.7	62
82	Positional Assembly of Enzymes on Bacterial Outer Membrane Vesicles for Cascade Reactions. <i>PLoS ONE</i> , 2014, 9, e97103.	2.5	62
83	Surface Display of Organophosphorus Hydrolase on <i>Saccharomyces cerevisiae</i> . <i>Biotechnology Progress</i> , 2006, 22, 939-943.	2.6	61
84	Biomolecules-carbon nanotubes doped conducting polymer nanocomposites and their sensor application. <i>Talanta</i> , 2007, 74, 370-375.	5.5	60
85	Sortase A-mediated multi-functionalization of protein nanoparticles. <i>Chemical Communications</i> , 2015, 51, 12107-12110.	4.1	60
86	Specific Adhesion to Cellulose and Hydrolysis of Organophosphate Nerve Agents by a Genetically Engineered <i>Escherichia coli</i> Strain with a Surface-Expressed Cellulose-Binding Domain and Organophosphorus Hydrolase. <i>Applied and Environmental Microbiology</i> , 2002, 68, 1684-1689.	3.1	59
87	Active Site Engineering of the Epoxide Hydrolase from <i>Agrobacterium radiobacter</i> AD1 to Enhance Aerobic Mineralization of cis-1,2-Dichloroethylene in Cells Expressing an Evolved Toluene ortho-Monooxygenase. <i>Journal of Biological Chemistry</i> , 2004, 279, 46810-46817.	3.4	59
88	Dual amperometricâ€“potentiometric biosensor detection system for monitoring organophosphorus neurotoxins. <i>Analytica Chimica Acta</i> , 2002, 469, 197-203.	5.4	58
89	Real-Time Nucleic Acid Sequence-Based Amplification Assay for Detection of Hepatitis A Virus. <i>Applied and Environmental Microbiology</i> , 2005, 71, 7113-7116.	3.1	58
90	Organophosphorus Hydrolase-Based Amperometric Sensor: Modulation of Sensitivity and Substrate Selectivity. <i>Electroanalysis</i> , 2002, 14, 273-276.	2.9	57

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91	Microchip enzymatic assay of organophosphate nerve agents. <i>Analytica Chimica Acta</i> , 2004, 505, 183-187.	5.4	57
92	Molecular beacons: A real-time polymerase chain reaction assay for detecting <i>Escherichia coli</i> from fresh produce and water. <i>Analytica Chimica Acta</i> , 2008, 614, 208-212.	5.4	56
93	Detoxification of the organophosphate nerve agent coumaphos using organophosphorus hydrolase immobilized on cellulose materials. <i>Journal of Industrial Microbiology and Biotechnology</i> , 2005, 32, 554-560.	3.0	55
94	Optimization of a whole-cell cadmium sensor with a toggle gene circuit. <i>Biotechnology Progress</i> , 2009, 25, 898-903.	2.6	53
95	Genetically Engineered Elastin-Protein A Fusion as a Universal Platform for Homogeneous, Phase-separation Immunoassay. <i>Analytical Chemistry</i> , 2005, 77, 2318-2322.	6.5	52
96	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> , 2006, 128, 14756-14757.	13.7	52
97	Functional analysis of organophosphorus hydrolase variants with high degradation activity towards organophosphate pesticides. <i>Protein Engineering, Design and Selection</i> , 2006, 19, 99-105.	2.1	52
98	Biosensor for direct determination of fenitrothion and EPN using recombinant <i>Pseudomonas putida</i> JS444 with surface-expressed organophosphorus hydrolase. 2. Modified carbon paste electrode. <i>Applied Biochemistry and Biotechnology</i> , 2007, 136, 243-250.	2.9	52
99	Synthesis and characterization of cadmium telluride nanowire. <i>Nanotechnology</i> , 2008, 19, 325711.	2.6	52
100	A Potentiometric Microbial Biosensor for Direct Determination of Organophosphate Nerve Agents. <i>Electroanalysis</i> , 1998, 10, 733-737.	2.9	50
101	Combined Immunomagnetic Separation-Molecular Beacon-Reverse Transcription-PCR Assay for Detection of Hepatitis A Virus from Environmental Samples. <i>Applied and Environmental Microbiology</i> , 2004, 70, 4371-4374.	3.1	50
102	Surface display of MPH on <i>Pseudomonas putida</i> JS444 using ice nucleation protein and its application in detoxification of organophosphates. <i>Biotechnology and Bioengineering</i> , 2008, 99, 30-37.	3.3	50
103	One-step metal-affinity purification of histidine-tagged proteins by temperature-triggered precipitation. <i>Biotechnology and Bioengineering</i> , 2003, 82, 605-611.	3.3	49
104	Temperature-triggered purification of antibodies. <i>Biotechnology and Bioengineering</i> , 2005, 90, 373-379.	3.3	49
105	Cadmium Removal from Contaminated Soil by Tunable Biopolymers. <i>Environmental Science & Technology</i> , 2004, 38, 3148-3152.	10.0	48
106	Direct Determination of p-Nitrophenyl Substituent Organophosphorus Nerve Agents Using a Recombinant <i>Pseudomonas putida</i> JS444-Modified Clark Oxygen Electrode. <i>Journal of Agricultural and Food Chemistry</i> , 2005, 53, 524-527.	5.2	48
107	Fabrication and Properties of Conducting Polypyrrole/SWNT-PABS Composite Films and Nanotubes. <i>Electroanalysis</i> , 2006, 18, 1047-1054.	2.9	48
108	Enhanced arsenic accumulation by engineered yeast cells expressing <i>Arabidopsis thaliana</i> phytochelatin synthase. <i>Biotechnology and Bioengineering</i> , 2008, 99, 333-340.	3.3	47

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109	Post-Translational Modification of Bionanoparticles as a Modular Platform for Biosensor Assembly. ACS Nano, 2015, 9, 8554-8561.	14.6	46
110	Genetic Engineering of Self-Assembled Protein Hydrogel Based on Elastin-like Sequences with Metal Binding Functionality. Biomacromolecules, 2007, 8, 3736-3739.	5.4	45
111	Engineering multi-functional bacterial outer membrane vesicles as modular nanodevices for biosensing and bioimaging. Chemical Communications, 2017, 53, 7569-7572.	4.1	45
112	Cell Surface Display of Organophosphorus Hydrolase in Pseudomonas putida Using an Ice-Nucleation Protein Anchor. Biotechnology Progress, 2003, 19, 1612-1614.	2.6	44
113	Label-Free Chemiresistive Immunosensors for Viruses. Environmental Science & Technology, 2010, 44, 9030-9035.	10.0	44
114	A quantum-dot based protein module for in vivo monitoring of protease activity through fluorescence resonance energy transfer. Chemical Communications, 2011, 47, 5259.	4.1	44
115	ELP-z and ELP-zz capturing scaffolds for the purification of immunoglobulins by affinity precipitation. Journal of Biotechnology, 2013, 163, 10-16.	3.8	42
116	Modular Hepatitis B Virus-like Particle Platform for Biosensing and Drug Delivery. ACS Nano, 2020, 14, 12642-12651.	14.6	41
117	Engineering TCE-degrading rhizobacteria for heavy metal accumulation and enhanced TCE degradation. Biotechnology and Bioengineering, 2006, 95, 399-403.	3.3	40
118	Conducting polymer 1-dimensional nanostructures for FET sensors. Thin Solid Films, 2010, 519, 964-973.	1.8	40
119	Effect of Aspect Ratio (Length:Diameter) on a Single Polypyrrole Nanowire FET Device. Journal of Physical Chemistry C, 2010, 114, 13375-13380.	3.1	40
120	Whole-Cell Immobilization Using Cell Surface-Exposed Cellulose-Binding Domain. Biotechnology Progress, 2001, 17, 407-411.	2.6	38
121	Customizable Biopolymers for Heavy Metal Remediation. Journal of Nanoparticle Research, 2005, 7, 517-523.	1.9	38
122	Single-Walled Carbon Nanotube Based Real-Time Organophosphate Detector. Electroanalysis, 2007, 19, 616-619.	2.9	38
123	Single Conducting Polymer Nanowire Based Sequence-Specific, Base-Pair-Length Dependant Label-Free DNA Sensor. Electroanalysis, 2011, 23, 371-379.	2.9	38
124	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. Microporous and Mesoporous Materials, 2012, 151, 352-357.	4.4	38
125	Bio-orthogonal conjugation and enzymatically triggered release of proteins within multi-layered hydrogels. Acta Biomaterialia, 2017, 56, 80-90.	8.3	38
126	Use of Fluorescence Resonance Energy Transfer for Rapid Detection of Enteroviral Infection In Vivo. Applied and Environmental Microbiology, 2006, 72, 3710-3715.	3.1	37

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127	Microbial biosensor for p-nitrophenol using <i>Moraxella</i> sp.. <i>Analytica Chimica Acta</i> , 2002, 470, 79-86.	5.4	36
128	Improved Degradation of Organophosphorus Nerve Agents and p-Nitrophenol by <i>Pseudomonas putida</i> JS444 with Surface-Expressed Organophosphorus Hydrolase. <i>Biotechnology Progress</i> , 2008, 21, 678-681.	2.6	36
129	Detecting RNA viruses in living mammalian cells by fluorescence microscopy. <i>Trends in Biotechnology</i> , 2011, 29, 307-313.	9.3	36
130	Site-Specific Bioconjugation Approaches for Enhanced Delivery of Protein Therapeutics and Protein Drug Carriers. <i>Bioconjugate Chemistry</i> , 2020, 31, 2272-2282.	3.6	36
131	Detoxification of organophosphate nerve agents by immobilized dual functional biocatalysts in a cellulose hollow fiber bioreactor. <i>Biotechnology and Bioengineering</i> , 2005, 91, 379-386.	3.3	35
132	Presentation of functional organophosphorus hydrolase fusions on the surface of <i>Escherichia coli</i> by the AIDA autotransporter pathway. <i>Biotechnology and Bioengineering</i> , 2008, 99, 485-490.	3.3	35
133	Creation of artificial cellulosomes on DNA scaffolds by zinc finger protein-guided assembly for efficient cellulose hydrolysis. <i>Chemical Communications</i> , 2014, 50, 1423-1425.	4.1	35
134	Whole cell-enzyme hybrid amperometric biosensor for direct determination of organophosphorous nerve agents with p-nitrophenyl substituent. <i>Biotechnology and Bioengineering</i> , 2004, 85, 706-713.	3.3	34
135	Construction and characterization of a novel cross-regulation system for regulating cloned gene expression in <i>Escherichia coli</i> . <i>Gene</i> , 1993, 130, 15-22.	2.2	33
136	A Microbial Biosensor for p-Nitrophenol Using <i>Arthrobacter</i> Sp.. <i>Electroanalysis</i> , 2003, 15, 1160-1164.	2.9	33
137	Detection of Benzene, Toluene, Ethyl Benzene, and Xylenes (BTEX) Using Toluene Dioxygenase-Peroxidase Coupling Reactions. <i>Biotechnology Progress</i> , 2003, 19, 1812-1815.	2.6	33
138	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> , 2006, 6, 466-472.	3.8	33
139	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> , 2007, 73, 2338-2340.	3.1	33
140	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> , 2009, 24, 1451-1455.	10.1	33
141	Real-time molecular methods to detect infectious viruses. <i>Seminars in Cell and Developmental Biology</i> , 2009, 20, 49-54.	5.0	33
142	Size-modulated synergy of cellulase clustering for enhanced cellulose hydrolysis. <i>Biotechnology Journal</i> , 2013, 8, 257-261.	3.5	33
143	Heavy Metal Removal by Novel CBD-EC20 Sorbents Immobilized on Cellulose. <i>Biomacromolecules</i> , 2002, 3, 462-465.	5.4	32
144	Systematic engineering of phytochelatin synthesis and arsenic transport for enhanced arsenic accumulation in <i>E. coli</i> . <i>Biotechnology and Bioengineering</i> , 2010, 105, 780-785.	3.3	32

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145	Selective and Rapid Room Temperature Detection of H ₂ S Using Gold Nanoparticle Chain Arrays. <i>Electroanalysis</i> , 2011, 23, 2623-2628.	2.9	32
146	Affinity precipitation of a monoclonal antibody from an industrial harvest feedstock using an ELP- α -Z stimuli responsive biopolymer. <i>Biotechnology and Bioengineering</i> , 2014, 111, 1595-1603.	3.3	32
147	Environmental biotechnology: Challenges and opportunities for chemical engineers. <i>AIChE Journal</i> , 2005, 51, 690-695.	3.6	31
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