

# William E Bentley

## 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.

334  
papers

12,564  
citations

56  
h-index

92  
g-index

353  
ext. papers

14,046  
ext. citations

6.9  
avg, IF

6.37  
L-index

#	Paper	IF	Citations
334	Parsed synthesis of pyocyanin via co-culture enables context-dependent intercellular redox communication. <i>Microbial Cell Factories</i> , <b>2021</b> , 20, 215	6.4	0
333	Bioelectronic control of a microbial community using surface-assembled electrogenetic cells to route signals. <i>Nature Nanotechnology</i> , <b>2021</b> , 16, 688-697	28.7	14
332	Interactive Materials for Bidirectional Redox-Based Communication. <i>Advanced Materials</i> , <b>2021</b> , 33, e2007758	7.458	3
331	Bacterial Extracellular Vesicles and the Gut-Microbiota Brain Axis: Emerging Roles in Communication and Potential as Therapeutics. <i>Advanced Biology</i> , <b>2021</b> , 5, e2000540		0
330	Single-Step Synthesis of Alginate Microgels Enveloped with a Covalent Polymeric Shell: A Simple Way to Protect Encapsulated Cells. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 18432-18442	9.5	6
329	Simple, rapidly electroassembled thiolated PEG-based sensor interfaces enable rapid interrogation of antibody titer and glycosylation. <i>Biotechnology and Bioengineering</i> , <b>2021</b> , 118, 2744-2758	4.9	3
328	A Redox-Based Autoinduction Strategy to Facilitate Expression of 5xCys-Tagged Proteins for Electrofabrication. <i>Frontiers in Microbiology</i> , <b>2021</b> , 12, 675729	5.7	0
327	Hydrogel Patterning with Catechol Enables Networked Electron Flow. <i>Advanced Functional Materials</i> , <b>2021</b> , 31, 2007709	15.6	9
326	Mediated electrochemistry for redox-based biological targeting: entangling sensing and actuation for maximizing information transfer. <i>Current Opinion in Biotechnology</i> , <b>2021</b> , 71, 137-144	11.4	2
325	Association of acute psychosocial stress with oxidative stress: Evidence from serum analysis. <i>Redox Biology</i> , <b>2021</b> , 47, 102138	11.3	0
324	Electronic signals are electrogenetically relayed to control cell growth and co-culture composition. <i>Metabolic Engineering Communications</i> , <b>2021</b> , 13, e00176	6.5	2
323	A redox-based electrogenetic CRISPR system to connect with and control biological information networks. <i>Nature Communications</i> , <b>2020</b> , 11, 2427	17.4	23
322	Electrochemical Dissolved Oxygen Sensor-Integrated Platform for Wireless In Situ Bioprocess Monitoring. <i>Sensors and Actuators B: Chemical</i> , <b>2020</b> , 320, 128381	8.5	7
321	Mediated Electrochemistry to Mimic Biology's Oxidative Assembly of Functional Matrices. <i>Advanced Functional Materials</i> , <b>2020</b> , 30, 2001776	15.6	5
320	Quorum Sensing Communication: Molecularly Connecting Cells, Their Neighbors, and Even Devices. <i>Annual Review of Chemical and Biomolecular Engineering</i> , <b>2020</b> , 11, 447-468	8.9	27
319	A Coculture Based Tyrosine-Tyrosinase Electrochemical Gene Circuit for Connecting Cellular Communication with Electronic Networks. <i>ACS Synthetic Biology</i> , <b>2020</b> , 9, 1117-1128	5.7	7
318	Wireless Sensor-Integrated Platform for Localized Dissolved Oxygen Sensing in Bioreactors. <i>Journal of Microelectromechanical Systems</i> , <b>2020</b> , 29, 713-719	2.5	1

3 <sup>17</sup>	Transglutaminase-mediated assembly of multi-enzyme pathway onto TMV brush surfaces for synthesis of bacterial autoinducer-2. <i>Biofabrication</i> , <b>2020</b> , 12, 045017	10.5	2
3 <sup>16</sup>	The importance and future of biochemical engineering. <i>Biotechnology and Bioengineering</i> , <b>2020</b> , 117, 2305-2318	4.9	7
3 <sup>15</sup>	Synthetic Biology for Manipulating Quorum Sensing in Microbial Consortia. <i>Trends in Microbiology</i> , <b>2020</b> , 28, 633-643	12.4	32
3 <sup>14</sup>	Microsystems for biofilm characterization and sensing - A review. <i>Biofilm</i> , <b>2020</b> , 2, 100015	5.9	21
3 <sup>13</sup>	3D-Printed electrochemical sensor-integrated transwell systems. <i>Microsystems and Nanoengineering</i> , <b>2020</b> , 6, 100	7.7	9
3 <sup>12</sup>	Redox Electrochemistry to Interrogate and Control Biomolecular Communication. <i>IScience</i> , <b>2020</b> , 23, 101545	6.1	6
3 <sup>11</sup>	Catechol-Based Molecular Memory Film for Redox Linked Bioelectronics. <i>Advanced Electronic Materials</i> , <b>2020</b> , 6, 2000452	6.4	5
3 <sup>10</sup>	Electrochemical measurement of serotonin by Au-CNT electrodes fabricated on microporous cell culture membranes. <i>Microsystems and Nanoengineering</i> , <b>2020</b> , 6, 90	7.7	9
3 <sup>09</sup>	Homologous Quorum Sensing Regulatory Circuit: A Dual-Input Genetic Controller for Modulating Quorum Sensing-Mediated Protein Expression in. <i>ACS Synthetic Biology</i> , <b>2020</b> , 9, 2692-2702	5.7	3
3 <sup>08</sup>	Dynamic in Vitro Biosensing with Flexible Microporous Multimodal Cell-Interfacial Sensors <b>2019</b> ,		1
3 <sup>07</sup>	Bacterial co-culture with cell signaling translator and growth controller modules for autonomously regulated culture composition. <i>Nature Communications</i> , <b>2019</b> , 10, 4129	17.4	49
3 <sup>06</sup>	In Situ Sensor Electrode Patterning on Urinary Catheters towards Infection Prevention <b>2019</b> ,		1
3 <sup>05</sup>	Rapid Electroformation of Biopolymer Gels in Prescribed Shapes and Patterns: A Simpler Alternative to 3-D Printing. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 37103-37111	9.5	6
3 <sup>04</sup>	Plasmid-encoded protein attenuates Escherichia coli swimming velocity and cell growth, not reprogrammed regulatory functions. <i>Biotechnology Progress</i> , <b>2019</b> , 35, e2778	2.8	2
3 <sup>03</sup>	Bacteria Floc, but Do They Flock? Insights from Population Interaction Models of Quorum Sensing. <i>MBio</i> , <b>2019</b> , 10,	7.8	5
3 <sup>02</sup>	Chip modularity enables molecular information access from organ-on-chip devices with quality control. <i>Sensors and Actuators B: Chemical</i> , <b>2019</b> , 295, 30-39	8.5	10
3 <sup>01</sup>	Redox-Based Synthetic Biology Enables Electrochemical Detection of the Herbicides Dicamba and Roundup via Rewired Escherichia coli. <i>ACS Sensors</i> , <b>2019</b> , 4, 1180-1184	9.2	16
3 <sup>00</sup>	Redox Is a Global Biodevice Information Processing Modality. <i>Proceedings of the IEEE</i> , <b>2019</b> , 107, 1402-1424	14.3	19

299	Programmable Electrofabrication of Porous Janus Films with Tunable Janus Balance for Anisotropic Cell Guidance and Tissue Regeneration. <i>Advanced Functional Materials</i> , <b>2019</b> , 29, 1900065	15.6	29
298	Validation of oxidative stress assay for schizophrenia. <i>Schizophrenia Research</i> , <b>2019</b> , 212, 126-133	3.6	6
297	Pro- and Anti-oxidant Properties of Redox-Active Catechol-Chitosan Films. <i>Frontiers in Chemistry</i> , <b>2019</b> , 7, 541	5	3
296	Engineering Escherichia coli for enhanced sensitivity to the autoinducer-2 quorum sensing signal. <i>Biotechnology Progress</i> , <b>2019</b> , 35, e2881	2.8	3
295	Repurposing E. coli by Engineering Quorum Sensing and Redox Genetic Circuits <b>2019</b> ,		1
294	Catechol-Based Capacitor for Redox-Linked Bioelectronics. <i>ACS Applied Electronic Materials</i> , <b>2019</b> , 1, 1337-1347	4	9
293	Electrofabrication: electrically based fabrication with biologically derived materials. <i>Biofabrication</i> , <b>2019</b> , 11, 032002	10.5	25
292	Coupling Self-Assembly Mechanisms to Fabricate Molecularly and Electrically Responsive Films. <i>Biomacromolecules</i> , <b>2019</b> , 20, 969-978	6.9	11
291	Flexible Platform for In Situ Impedimetric Detection and Bioelectric Effect Treatment of Escherichia Coli Biofilms. <i>IEEE Transactions on Biomedical Engineering</i> , <b>2019</b> , 66, 1337-1345	5	12
290	Site-specific immobilization of endoglycosidases for streamlined chemoenzymatic glycan remodeling of antibodies. <i>Carbohydrate Research</i> , <b>2018</b> , 458-459, 77-84	2.9	24
289	Enhanced expression of a biosimilar monoclonal antibody with a novel NS0 platform. <i>Biotechnology Progress</i> , <b>2018</b> , 34, 455-462	2.8	2
288	Signal processing approach to probe chemical space for discriminating redox signatures. <i>Biosensors and Bioelectronics</i> , <b>2018</b> , 112, 127-135	11.8	10
287	Development of Cell-Based Sentinels for Nitric Oxide: Ensuring Marker Expression and Unimodality. <i>ACS Synthetic Biology</i> , <b>2018</b> , 7, 1694-1701	5.7	14
286	Modification and Assembly of a Versatile Lactonase for Bacterial Quorum Quenching. <i>Molecules</i> , <b>2018</b> , 23,	4.8	3
285	Electrodeposition of a magnetic and redox-active chitosan film for capturing and sensing metabolic active bacteria. <i>Carbohydrate Polymers</i> , <b>2018</b> , 195, 505-514	10.3	14
284	Biofabricating Functional Soft Matter Using Protein Engineering to Enable Enzymatic Assembly. <i>Bioconjugate Chemistry</i> , <b>2018</b> , 29, 1809-1822	6.3	8
283	An immune magnetic nano-assembly for specifically amplifying intercellular quorum sensing signals. <i>Colloids and Surfaces B: Biointerfaces</i> , <b>2018</b> , 172, 197-206	6	5
282	Electrical Writing onto a Dynamically Responsive Polysaccharide Medium: Patterning Structure and Function into a Reconfigurable Medium. <i>Advanced Functional Materials</i> , <b>2018</b> , 28, 1803139	15.6	20

281	Reverse Engineering To Characterize Redox Properties: Revealing Melanin's Redox Activity through Mediated Electrochemical Probing. <i>Chemistry of Materials</i> , <b>2018</b> , 30, 5814-5826	9.6	20
280	Electrical Programming of Soft Matter: Using Temporally Varying Electrical Inputs To Spatially Control Self Assembly. <i>Biomacromolecules</i> , <b>2018</b> , 19, 364-373	6.9	32
279	Incorporating LsrK AI-2 quorum quenching capability in a functionalized biopolymer capsule. <i>Biotechnology and Bioengineering</i> , <b>2018</b> , 115, 278-289	4.9	11
278	Selective assembly and functionalization of miniaturized redox capacitor inside microdevices for microbial toxin and mammalian cell cytotoxicity analyses. <i>Lab on A Chip</i> , <b>2018</b> , 18, 3578-3587	7.2	17
277	The 2018 Young Innovators of Cellular and Molecular Bioengineering. <i>Cellular and Molecular Bioengineering</i> , <b>2018</b> , 11, 307-308	3.9	
276	A platform of genetically engineered bacteria as vehicles for localized delivery of therapeutics: Toward applications for Crohn's disease. <i>Bioengineering and Translational Medicine</i> , <b>2018</b> , 3, 209-221	14.8	30
275	Redox: Electron-Based Approach to Bio-Device Molecular Communication <b>2018</b> ,		2
274	Engineering bacterial motility towards hydrogen-peroxide. <i>PLoS ONE</i> , <b>2018</b> , 13, e0196999	3.7	16
273	Focusing quorum sensing signalling by nano-magnetic assembly. <i>Environmental Microbiology</i> , <b>2018</b> , 20, 2585-2597	5.2	6
272	Evidence of link between quorum sensing and sugar metabolism in revealed via cocrystal structures of LsrK and HPr. <i>Science Advances</i> , <b>2018</b> , 4, eaar7063	14.3	35
271	Catechol-chitosan redox capacitor for added amplification in electrochemical immunoanalysis. <i>Colloids and Surfaces B: Biointerfaces</i> , <b>2018</b> , 169, 470-477	6	10
270	Radical Scavenging Activities of Biomimetic Catechol-Chitosan Films. <i>Biomacromolecules</i> , <b>2018</b> , 19, 3502-3514	6.5	24
269	A Facile Two-Step Enzymatic Approach for Conjugating Proteins to Polysaccharide Chitosan at an Electrode Interface. <i>Cellular and Molecular Bioengineering</i> , <b>2017</b> , 10, 134-142	3.9	7
268	Electronic control of gene expression and cell behaviour in Escherichia coli through redox signalling. <i>Nature Communications</i> , <b>2017</b> , 8, 14030	17.4	88
267	Two-Way Chemical Communication between Artificial and Natural Cells. <i>ACS Central Science</i> , <b>2017</b> , 3, 117-123	16.8	128
266	Electrochemistry for bio-device molecular communication: The potential to characterize, analyze and actuate biological systems. <i>Nano Communication Networks</i> , <b>2017</b> , 11, 76-89	2.9	14
265	Engineered probiotic Escherichia coli can eliminate and prevent Pseudomonas aeruginosa gut infection in animal models. <i>Nature Communications</i> , <b>2017</b> , 8, 15028	17.4	205
264	Microfluidic Arrayed Lab-On-A-Chip for Electrochemical Capacitive Detection of DNA Hybridization Events. <i>Methods in Molecular Biology</i> , <b>2017</b> , 1572, 71-88	1.4	3

263	Redox Probing for Chemical Information of Oxidative Stress. <i>Analytical Chemistry</i> , <b>2017</b> , 89, 1583-1592	7.8	29
262	Electrochemical reverse engineering: A systems-level tool to probe the redox-based molecular communication of biology. <i>Free Radical Biology and Medicine</i> , <b>2017</b> , 105, 110-131	7.8	25
261	Mathematical model of LsrR-binding and derepression in Escherichia coli K12. <i>Journal of Bioinformatics and Computational Biology</i> , <b>2017</b> , 15, 1650039	1	5
260	The Analgesic Acetaminophen and the Antipsychotic Clozapine Can Each Redox-Cycle with Melanin. <i>ACS Chemical Neuroscience</i> , <b>2017</b> , 8, 2766-2777	5.7	9
259	Spectroelectrochemical Reverse Engineering Demonstrates That Melanin's Redox and Radical Scavenging Activities Are Linked. <i>Biomacromolecules</i> , <b>2017</b> , 18, 4084-4098	6.9	32
258	Connecting Biology to Electronics: Molecular Communication via Redox Modality. <i>Advanced Healthcare Materials</i> , <b>2017</b> , 6, 1700789	10.1	24
257	TumbleScore: Run and tumble analysis for low frame-rate motility videos. <i>BioTechniques</i> , <b>2017</b> , 62, 31-36	2.5	10
256	A simple and reusable bilayer membrane-based microfluidic device for the study of gradient-mediated bacterial behaviors. <i>Biomicrofluidics</i> , <b>2017</b> , 11, 044114	3.2	5
255	Controlling localization of Escherichia coli populations using a two-part synthetic motility circuit: An accelerator and brake. <i>Biotechnology and Bioengineering</i> , <b>2017</b> , 114, 2883-2895	4.9	12
254	An Integrated Microsystem for Real-Time Detection and Threshold-Activated Treatment of Bacterial Biofilms. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 31362-31371	9.5	21
253	A new design for an artificial cell: polymer microcapsules with addressable inner compartments that can harbor biomolecules, colloids or microbial species. <i>Chemical Science</i> , <b>2017</b> , 8, 6893-6903	9.4	37
252	Using a Redox Modality to Connect Synthetic Biology to Electronics: Hydrogel-Based Chemo-Electro Signal Transduction for Molecular Communication. <i>Advanced Healthcare Materials</i> , <b>2017</b> , 6, 1600908	10.1	32
251	Conferring biological activity to native spider silk: A biofunctionalized protein-based microfibril. <i>Biotechnology and Bioengineering</i> , <b>2017</b> , 114, 83-95	4.9	17
250	Constructing "quantized quorums" to guide emergent phenotypes through quorum quenching capsules. <i>Biotechnology and Bioengineering</i> , <b>2017</b> , 114, 407-415	4.9	7
249	Catechol-Based Hydrogel for Chemical Information Processing. <i>Biomimetics</i> , <b>2017</b> , 2,	3.7	14
248	Fusing Sensor Paradigms to Acquire Chemical Information: An Integrative Role for Smart Biopolymeric Hydrogels. <i>Advanced Healthcare Materials</i> , <b>2016</b> , 5, 2595-2616	10.1	15
247	Autoinducer-2 analogs and electric fields - an antibiotic-free bacterial biofilm combination treatment. <i>Biomedical Microdevices</i> , <b>2016</b> , 18, 95	3.7	10
246	Electro-molecular Assembly: Electrical Writing of Information into an Erasable Polysaccharide Medium. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 19780-6	9.5	36

245	Enhancing Intercellular Coordination: Rewiring Quorum Sensing Networks for Increased Protein Expression through Autonomous Induction. <i>ACS Synthetic Biology</i> , <b>2016</b> , 5, 923-8	5.7	16
244	Modular construction of multi-subunit protein complexes using engineered tags and microbial transglutaminase. <i>Metabolic Engineering</i> , <b>2016</b> , 38, 1-9	9.7	16
243	Paraquat-Melanin Redox-Cycling: Evidence from Electrochemical Reverse Engineering. <i>ACS Chemical Neuroscience</i> , <b>2016</b> , 7, 1057-67	5.7	16
242	Directed assembly of a bacterial quorum. <i>ISME Journal</i> , <b>2016</b> , 10, 158-69	11.9	35
241	Electrochemical Fabrication of Functional Gelatin-Based Bioelectronic Interface. <i>Biomacromolecules</i> , <b>2016</b> , 17, 558-63	6.9	24
240	Electrochemical Measurement of the $\beta$ -Galactosidase Reporter from Live Cells: A Comparison to the Miller Assay. <i>ACS Synthetic Biology</i> , <b>2016</b> , 5, 28-35	5.7	34
239	Colloidal Properties of Nanoerythroosomes Derived from Bovine Red Blood Cells. <i>Langmuir</i> , <b>2016</b> , 32, 171-9	4	23
238	A surface acoustic wave biofilm sensor integrated with a treatment method based on the bioelectric effect. <i>Sensors and Actuators A: Physical</i> , <b>2016</b> , 238, 140-149	3.9	29
237	Tubular Bioreactor for Probing Baculovirus Infection and Protein Production. <i>Methods in Molecular Biology</i> , <b>2016</b> , 1350, 461-7	1.4	1
236	Gene Silencing in Insect Cells Using RNAi. <i>Methods in Molecular Biology</i> , <b>2016</b> , 1350, 469-76	1.4	3
235	Evaluating Baculovirus Infection Using Green Fluorescent Protein and Variants. <i>Methods in Molecular Biology</i> , <b>2016</b> , 1350, 447-59	1.4	
234	Quorum Sensing Desynchronization Leads to Bimodality and Patterned Behaviors. <i>PLoS Computational Biology</i> , <b>2016</b> , 12, e1004781	5	19
233	Electrochemical Probing through a Redox Capacitor To Acquire Chemical Information on Biothiols. <i>Analytical Chemistry</i> , <b>2016</b> , 88, 7213-21	7.8	23
232	Insightful directed evolution of Escherichia coli quorum sensing promoter region of the <i>lsrACDBFG</i> operon: a tool for synthetic biology systems and protein expression. <i>Nucleic Acids Research</i> , <b>2016</b> , 44, 10515-10525	20.1	7
231	Data on biochemical fluxes generated from biofabricated enzyme complexes assembled through engineered tags and microbial transglutaminase. <i>Data in Brief</i> , <b>2016</b> , 8, 1031-5	1.2	4
230	Distal modulation of bacterial cell-cell signalling in a synthetic ecosystem using partitioned microfluidics. <i>Lab on A Chip</i> , <b>2015</b> , 15, 1842-51	7.2	26
229	Functionalizing Soft Matter for Molecular Communication. <i>ACS Biomaterials Science and Engineering</i> , <b>2015</b> , 1, 320-328	5.5	21
228	Chitosan to Connect Biology to Electronics: Fabricating the Bio-Device Interface and Communicating Across This Interface. <i>Polymers</i> , <b>2015</b> , 7, 1-46	4.5	74

227	Self-assembly with orthogonal-imposed stimuli to impart structure and confer magnetic function to electrodeposited hydrogels. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2015</b> , 7, 10587-98	9.5	12
226	Rational design of 'controller cells' to manipulate protein and phenotype expression. <i>Metabolic Engineering</i> , <b>2015</b> , 30, 61-68	9.7	16
225	Nano-guided cell networks as conveyors of molecular communication. <i>Nature Communications</i> , <b>2015</b> , 6, 8500	17.4	25
224	A 'bioproduction breadboard': programming, assembling, and actuating cellular networks. <i>Current Opinion in Biotechnology</i> , <b>2015</b> , 36, 154-60	11.4	6
223	Geminal dihalogen isosteric replacement in hydrated AI-2 affords potent quorum sensing modulators. <i>Chemical Communications</i> , <b>2015</b> , 51, 2617-20	5.8	8
222	A controlled microfluidic electrochemical lab-on-a-chip for label-free diffusion-restricted DNA hybridization analysis. <i>Biosensors and Bioelectronics</i> , <b>2015</b> , 64, 579-85	11.8	36
221	Reverse Engineering Applied to Red Human Hair Pheomelanin Reveals Redox-Buffering as a Pro-Oxidant Mechanism. <i>Scientific Reports</i> , <b>2015</b> , 5, 18447	4.9	40
220	Effect of electrical energy on the efficacy of biofilm treatment using the bioelectric effect. <i>Npj Biofilms and Microbiomes</i> , <b>2015</b> , 1, 15016	8.2	30
219	Bacterial secretions of nonpathogenic Escherichia coli elicit inflammatory pathways: a closer investigation of interkingdom signaling. <i>MBio</i> , <b>2015</b> , 6, e00025	7.8	46
218	Evolved Quorum sensing regulator, LsrR, for altered switching functions. <i>ACS Synthetic Biology</i> , <b>2014</b> , 3, 210-9	5.7	22
217	Redox-capacitor to connect electrochemistry to redox-biology. <i>Analyst, The</i> , <b>2014</b> , 139, 32-43	5	60
216	Context-dependent redox properties of natural phenolic materials. <i>Biomacromolecules</i> , <b>2014</b> , 15, 1653-62	9	51
215	Electronic modulation of biochemical signal generation. <i>Nature Nanotechnology</i> , <b>2014</b> , 9, 605-10	28.7	43
214	Compartmentalized multilayer hydrogel formation using a stimulus-responsive self-assembling polysaccharide. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2014</b> , 6, 2948-57	9.5	37
213	Integrating artificial with natural cells to translate chemical messages that direct E. coli behaviour. <i>Nature Communications</i> , <b>2014</b> , 5, 4012	17.4	167
212	Rapid and repeatable redox cycling of an insoluble dietary antioxidant: electrochemical analysis. <i>Journal of Agricultural and Food Chemistry</i> , <b>2014</b> , 62, 9760-8	5.7	6
211	Air bubble-initiated biofabrication of freestanding, semi-permeable biopolymer membranes in PDMS microfluidics. <i>Biochemical Engineering Journal</i> , <b>2014</b> , 89, 2-9	4.2	19
210	Enzymatic Writing to Soft Films: Potential to Filter, Store, and Analyze Biologically Relevant Chemical Information. <i>Advanced Functional Materials</i> , <b>2014</b> , 24, 480-491	15.6	16



209	A microfluidic-based electrochemical biochip for label-free DNA hybridization analysis. <i>Journal of Visualized Experiments</i> , <b>2014</b> , 51797	1.6	1
208	Information processing through a bio-based redox capacitor: signatures for redox-cycling. <i>Bioelectrochemistry</i> , <b>2014</b> , 98, 94-102	5.6	29
207	Amplified and in situ detection of redox-active metabolite using a biobased redox capacitor. <i>Analytical Chemistry</i> , <b>2013</b> , 85, 2102-8	7.8	75
206	Tuning cell cycle of insect cells for enhanced protein production. <i>Journal of Biotechnology</i> , <b>2013</b> , 168, 55-61	3.7	7
205	Crystal structures of the LsrR proteins complexed with phospho-AI-2 and two signal-interrupting analogues reveal distinct mechanisms for ligand recognition. <i>Journal of the American Chemical Society</i> , <b>2013</b> , 135, 15526-35	16.4	18
204	Materials science. Nature's other self-assemblers. <i>Science</i> , <b>2013</b> , 341, 136-7	33.3	45
203	Electrodeposition of a weak polyelectrolyte hydrogel: remarkable effects of salt on kinetics, structure and properties. <i>Soft Matter</i> , <b>2013</b> , 9, 2703	3.6	51
202	Biofabricated film with enzymatic and redox-capacitor functionalities to harvest and store electrons. <i>Biofabrication</i> , <b>2013</b> , 5, 015008	10.5	19
201	Accessing biology's toolbox for the mesoscale biofabrication of soft matter. <i>Soft Matter</i> , <b>2013</b> , 9, 6019	3.6	30
200	Reverse engineering to suggest biologically relevant redox activities of phenolic materials. <i>ACS Chemical Biology</i> , <b>2013</b> , 8, 716-24	4.9	38
199	Optically clear alginate hydrogels for spatially controlled cell entrapment and culture at microfluidic electrode surfaces. <i>Lab on A Chip</i> , <b>2013</b> , 13, 1854-8	7.2	33
198	AI-2 analogs and antibiotics: a synergistic approach to reduce bacterial biofilms. <i>Applied Microbiology and Biotechnology</i> , <b>2013</b> , 97, 2627-38	5.7	70
197	Encapsulated fusion protein confers "sense and respond" activity to chitosan-alginate capsules to manipulate bacterial quorum sensing. <i>Biotechnology and Bioengineering</i> , <b>2013</b> , 110, 552-62	4.9	35
196	Plug and Play? Interconnected multifunctional chips for enhancing efficiency of biopharmaceutical R&D. <i>Pharmaceutical Bioprocessing</i> , <b>2013</b> , 1, 225-228		5
195	Autonomous bacterial localization and gene expression based on nearby cell receptor density. <i>Molecular Systems Biology</i> , <b>2013</b> , 9, 636	12.2	56
194	Investigating polymer thiolation in gene delivery. <i>Journal of Biomaterials Science, Polymer Edition</i> , <b>2013</b> , 24, 912-26	3.5	7
193	Biofabrication of stratified biofilm mimics for observation and control of bacterial signaling. <i>Biomaterials</i> , <b>2012</b> , 33, 5136-43	15.6	39
192	An ALD aluminum oxide passivated Surface Acoustic Wave sensor for early biofilm detection. <i>Sensors and Actuators B: Chemical</i> , <b>2012</b> , 163, 136-145	8.5	44

191	Pathway engineering via quorum sensing and sRNA riboregulators-interconnected networks and controllers. <i>Metabolic Engineering</i> , <b>2012</b> , 14, 281-8	9.7	17
190	Electroaddressing Functionalized Polysaccharides as Model Biofilms for Interrogating Cell Signaling. <i>Advanced Functional Materials</i> , <b>2012</b> , 22, 519-528	15.6	52
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44	A kinetic and statistical-thermodynamic model for baculovirus infection and virus-like particle assembly in suspended insect cells. <i>Chemical Engineering Science</i> , <b>2000</b> , 55, 3991-4008	4.4	49
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41	Purification of human interleukin-2 fusion protein produced in insect larvae is facilitated by fusion with green fluorescent protein and metal affinity ligand. <i>Biotechnology Progress</i> , <b>1999</b> , 15, 283-6	2.8	19
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30	Generating controlled reducing environments in aerobic recombinant <i>Escherichia coli</i> fermentations: Effects on cell growth, oxygen uptake, heat shock protein expression, and in vivo CAT activity <b>1998</b> , 59, 248-259		28

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10	Expression of epoxide hydrolase in insect cells: a focus on the infected cell. <i>Biotechnology and Bioengineering</i> , <b>1993</b> , 42, 240-6	4.9	44
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