

# Sylvia Daunert

## 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.

181 papers	4,206 citations	37 h-index	59 g-index
205 ext. papers	4,908 ext. citations	6.4 avg, IF	5.37 L-index

#	Paper	IF	Citations
181	Inflammasome-Regulated Pyroptotic Cell Death in Disruption of the Gut-Brain Axis After Stroke.. <i>Translational Stroke Research</i> , <b>2022</b> , 1	7.8	0
180	The Anti-Inflammatory Effects of Cannabidiol (CBD) on Acne.. <i>Journal of Inflammation Research</i> , <b>2022</b> , 15, 2795-2801	4.8	1
179	Isothermal Amplification and Lateral Flow Nucleic Acid Test for the Detection of Shiga Toxin-Producing Bacteria for Food Monitoring. <i>Chemosensors</i> , <b>2022</b> , 10, 210	4	
178	Experimental Models of COVID-19.. <i>Frontiers in Cellular and Infection Microbiology</i> , <b>2021</b> , 11, 792584	5.9	2
177	Delivery of therapeutic agents and cells to pancreatic islets: Towards a new era in the treatment of diabetes.. <i>Molecular Aspects of Medicine</i> , <b>2021</b> , 83, 101063	16.7	0
176	Peptide-Functionalized Dendrimer Nanocarriers for Targeted Microdystrophin Gene Delivery.. <i>Pharmaceutics</i> , <b>2021</b> , 13,	6.4	3
175	Reagentless electrochemical biosensors through incorporation of unnatural amino acids on the protein structure.. <i>Biosensors and Bioelectronics</i> , <b>2021</b> , 200, 113861	11.8	2
174	Peptide-Modified Biopolymers for Biomedical Applications. <i>ACS Applied Bio Materials</i> , <b>2021</b> , 4, 229-251	4.1	5
173	William "Bill" Joseph Whelan, D.Sc., FRS November 14, 1924 to June 5, 2021. <i>IUBMB Life</i> , <b>2021</b> , 73, 994-1001	10.1	0
172	Design of a mediator-free, non-enzymatic electrochemical biosensor for glutamate detection. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , <b>2021</b> , 31, 102305	6	9
171	Current salivary biomarkers for detection of human papilloma virus-induced oropharyngeal squamous cell carcinoma. <i>Head and Neck</i> , <b>2021</b> , 43, 3618-3630	4.2	0
170	On-site detection of food and waterborne bacteria - current technologies, challenges, and future directions. <i>Trends in Food Science and Technology</i> , <b>2021</b> , 115, 409-421	15.3	3
169	A new class of sensing elements for sensors: Clamp peptides for Zika virus. <i>Biosensors and Bioelectronics</i> , <b>2021</b> , 191, 113471	11.8	1
168	Microbial whole-cell biosensors: Current applications, challenges, and future perspectives. <i>Biosensors and Bioelectronics</i> , <b>2021</b> , 191, 113359	11.8	13
167	Monitoring Pathogenic Viable O157:H7 in Food Matrices Based on the Detection of RNA Using Isothermal Amplification and a Paper-Based Platform.. <i>Analytical Chemistry</i> , <b>2021</b> ,	7.8	3
166	Mapping carcinogen exposure across urban fire incident response arenas using passive silicone-based samplers. <i>Ecotoxicology and Environmental Safety</i> , <b>2021</b> , 228, 112929	7	0
165	Bioluminescent Protein-Inhibitor Pair in the Design of a Molecular Aptamer Beacon Biosensing System. <i>Analytical Chemistry</i> , <b>2020</b> , 92, 7393-7398	7.8	6

164	COVID19: A Systematic Approach to Early Identification and Healthcare Worker Protection. <i>Frontiers in Public Health</i> , <b>2020</b> , 8, 205	6	14
163	Self-Reported Depression and Duodenal Cortisol Biomarkers Are Related to Weight Loss in Young Metabolic and Bariatric Surgery Patients. <i>Bariatric Surgical Patient Care</i> , <b>2020</b> , 15, 73-80	0.4	
162	Facile Synthesis and Characterization of a Novel Tamavidin-Luciferase Reporter Fusion Protein for Universal Signaling Applications. <i>Advanced Biology</i> , <b>2020</b> , 4, e1900166	3.5	0
161	Objective Measurement of Carcinogens Among Dominican Republic Firefighters Using Silicone-Based Wristbands. <i>Journal of Occupational and Environmental Medicine</i> , <b>2020</b> , 62, e611-e615	2	5
160	The Role of Platelet-Rich Plasma in the Prevention of Chemotherapy-Induced Alopecia. <i>Skin Appendage Disorders</i> , <b>2020</b> , 6, 58-60	1.4	2
159	Evaluation of silicone-based wristbands as passive sampling systems using PAHs as an exposure proxy for carcinogen monitoring in firefighters: Evidence from the firefighter cancer initiative. <i>Ecotoxicology and Environmental Safety</i> , <b>2020</b> , 205, 111100	7	9
158	The Inflammatory Aspect of Male and Female Pattern Hair Loss. <i>Journal of Inflammation Research</i> , <b>2020</b> , 13, 879-881	4.8	5
157	Vaccination against cocaine using a modifiable dendrimer nanoparticle platform. <i>Vaccine</i> , <b>2020</b> , 38, 7989-7997	4.7	1
156	Advances in Translational Nanotechnology: Challenges and Opportunities. <i>Applied Sciences (Switzerland)</i> , <b>2020</b> , 10, 4881	2.6	2
155	An Intact Cell Bioluminescence-Based Assay for the Simple and Rapid Diagnosis of Urinary Tract Infection. <i>International Journal of Molecular Sciences</i> , <b>2020</b> , 21,	6.3	2
154	Identification of a Signaling Mechanism by Which the Microbiome Regulates Th17 Cell-Mediated Depressive-Like Behaviors in Mice. <i>American Journal of Psychiatry</i> , <b>2020</b> , 177, 974-990	11.9	21
153	The Paradox of HIV Blood-Brain Barrier Penetrance and Antiretroviral Drug Delivery Deficiencies. <i>Trends in Neurosciences</i> , <b>2020</b> , 43, 695-708	13.3	25
152	Objective Measurement of Carcinogens Among Dominican Republic Firefighters Using Silicone-Based Wristbands. <i>JCO Global Oncology</i> , <b>2020</b> , 6, 15-15	3.7	1
151	Cannabidiol as a Novel Therapeutic for Immune Modulation. <i>ImmunoTargets and Therapy</i> , <b>2020</b> , 9, 131-140	3.9	8
150	A Preliminary Study on the Influence of Cannabis and Opioid Use on Weight Loss and Mental Health Biomarkers Post-weight Loss Surgery. <i>Obesity Surgery</i> , <b>2020</b> , 30, 4331-4338	3.7	
149	Bioluminescent detection of zearalenone using recombinant peptidomimetic Gaussia luciferase fusion protein. <i>Mikrochimica Acta</i> , <b>2020</b> , 187, 547	5.8	9
148	Computationally Designed Peptides for Zika Virus Detection: An Incremental Construction Approach. <i>Biomolecules</i> , <b>2019</b> , 9,	5.9	6
147	Multiplexing cytokine analysis: towards reducing sample volume needs in clinical diagnostics. <i>Analyst, The</i> , <b>2019</b> , 144, 3250-3259	5	4

146	Highly Sensitive and Selective Direct Detection of Zika Virus Particles in Human Bodily Fluids for Accurate Early Diagnosis of Infection. <i>ACS Omega</i> , <b>2019</b> , 4, 6808-6818	3.9	10
145	Enhanced Delivery of Plasmid DNA to Skeletal Muscle Cells using a DLC8-Binding Peptide and ASSLNIA-Modified PAMAM Dendrimer. <i>Molecular Pharmaceutics</i> , <b>2019</b> , 16, 2376-2384	5.6	8
144	Opioid antagonists as potential therapeutics for ischemic stroke. <i>Progress in Neurobiology</i> , <b>2019</b> , 182, 101679	10.9	9
143	Molecular Aptamer Beacons and Their Applications in Sensing, Imaging, and Diagnostics. <i>Small</i> , <b>2019</b> , 15, e1902248	11	32
142	Orally Administrable Therapeutic Synthetic Nanoparticle for Zika Virus. <i>ACS Nano</i> , <b>2019</b> , 13, 11034-11048	6.7	28
141	Molecular Aptamer Beacons: Molecular Aptamer Beacons and Their Applications in Sensing, Imaging, and Diagnostics (Small 35/2019). <i>Small</i> , <b>2019</b> , 15, 1970187	11	1
140	Modulation of lipid accumulation in monocytes and macrophages by cyclodextrin-based nanocarriers for alpha-tocopheryl phosphate. <i>FASEB Journal</i> , <b>2019</b> , 33, 654.14	0.9	1
139	O1D.2 Objective measurement of work-environment carcinogenic exposures in Florida firefighters using silicone-based passive sampling wristbands. <i>Occupational and Environmental Medicine</i> , <b>2019</b> , 76, A9.2-A9	2.1	
138	Accelerated coronary atherosclerosis not explained by traditional risk factors in 13% of young individuals. <i>American Heart Journal</i> , <b>2019</b> , 208, 47-54	4.9	5
137	Investigation of Microbiota Alterations and Intestinal Inflammation Post-Spinal Cord Injury in Rat Model. <i>Journal of Neurotrauma</i> , <b>2018</b> , 35, 2159-2166	5.4	41
136	Trinucleotide Rolling Circle Amplification: A Novel Method for the Detection of RNA and DNA. <i>Methods and Protocols</i> , <b>2018</b> , 1, 15	2.5	7
135	Detection of bacterial contamination in food matrices by integration of quorum sensing in a paper-strip test. <i>Analyst, The</i> , <b>2018</b> , 143, 4774-4782	5	10
134	Towards a Point-of-Care Test for Bacterial Vaginosis: Design and Development of a Rapid Test for Vaginolysin. <i>FASEB Journal</i> , <b>2018</b> , 32, 800.6	0.9	
133	Bioluminescent Annexin Fusion Proteins (AFPs) for Atherosclerosis Detection. <i>FASEB Journal</i> , <b>2018</b> , 32, 798.10	0.9	
132	Design of Gaussia luciferase-based bioluminescent stem-loop probe for sensitive detection of HIV-1 nucleic acids. <i>Analyst, The</i> , <b>2018</b> , 143, 3374-3381	5	6
131	Expression of a soluble truncated Vargula luciferase in Escherichia coli. <i>Protein Expression and Purification</i> , <b>2017</b> , 132, 68-74	2	6
130	Nanotechnology-Driven Therapeutic Interventions in Wound Healing: Potential Uses and Applications. <i>ACS Central Science</i> , <b>2017</b> , 3, 163-175	16.8	215
129	Transcriptional regulatory proteins as biosensing tools. <i>Chemical Communications</i> , <b>2017</b> , 53, 6820-6823	5.8	2

128	Bioorthogonal Protein Conjugation: Application to the Development of a Highly Sensitive Bioluminescent Immunoassay for the Detection of Interferon- $\gamma$ . <i>Bioconjugate Chemistry</i> , <b>2017</b> , 28, 1749-1757	6.3	11
127	An enhanced bioluminescence-based Annexin V probe for apoptosis detection in vitro and in vivo. <i>Cell Death and Disease</i> , <b>2017</b> , 8, e2826	9.8	20
126	Beyond Antibodies as Binding Partners: The Role of Antibody Mimetics in Bioanalysis. <i>Annual Review of Analytical Chemistry</i> , <b>2017</b> , 10, 293-320	12.5	52
125	Neurotransmitters: The Critical Modulators Regulating Gut-Brain Axis. <i>Journal of Cellular Physiology</i> , <b>2017</b> , 232, 2359-2372	7	207
124	Engineering Rugged Field Assays to Detect Hazardous Chemicals Using Spore-Based Bacterial Biosensors. <i>Methods in Enzymology</i> , <b>2017</b> , 589, 51-85	1.7	9
123	The Aging Risk and Atherosclerosis: A Fresh Look at Arterial Homeostasis. <i>Frontiers in Genetics</i> , <b>2017</b> , 8, 216	4.5	63
122	Truncated Variants of Gaussia Luciferase with Tyrosine Linker for Site-Specific Bioconjugate Applications. <i>Scientific Reports</i> , <b>2016</b> , 6, 26814	4.9	13
121	Serotonin Activates Bacterial Quorum Sensing and Enhances the Virulence of <i>Pseudomonas aeruginosa</i> in the Host. <i>EBioMedicine</i> , <b>2016</b> , 9, 161-169	8.8	57
120	Design and development of high bioluminescent resonance energy transfer efficiency hybrid-imaging constructs. <i>Analytical Biochemistry</i> , <b>2016</b> , 498, 1-7	3.1	5
119	Environmental PCBs in Guánica Bay, Puerto Rico: implications for community health. <i>Environmental Science and Pollution Research</i> , <b>2016</b> , 23, 2003-13	5.1	10
118	Potential Impacts of PCBs on Sediment Microbiomes in a Tropical Marine Environment. <i>Journal of Marine Science and Engineering</i> , <b>2016</b> , 4, 13	2.4	1
117	Directing and Potentiating Stem Cell-Mediated Angiogenesis and Tissue Repair by Cell Surface E-Selectin Coating. <i>PLoS ONE</i> , <b>2016</b> , 11, e0154053	3.7	22
116	Red-Shifted Aequorin Variants Incorporating Non-Canonical Amino Acids: Applications in In Vivo Imaging. <i>PLoS ONE</i> , <b>2016</b> , 11, e0158579	3.7	22
115	Adaptation to Stressors by Systemic Protein Amyloidogenesis. <i>Developmental Cell</i> , <b>2016</b> , 39, 155-168	10.2	95
114	Enabling Aequorin for Biotechnology Applications Through Genetic Engineering. <i>Advances in Biochemical Engineering/Biotechnology</i> , <b>2015</b> , 149	1.7	1
113	Nanoparticles for Fidgety Cell Movement and Enhanced Wound Healing. <i>Journal of Investigative Dermatology</i> , <b>2015</b> , 135, 2151-2153	4.3	7
112	Whole-Cell Biosensors as Tools for the Detection of Quorum-Sensing Molecules: Uses in Diagnostics and the Investigation of the Quorum-Sensing Mechanism. <i>Advances in Biochemical Engineering/Biotechnology</i> , <b>2015</b> , 181	1.7	10
111	Bacterial autoinducer-2 detection via an engineered quorum sensing protein. <i>Analytical Chemistry</i> , <b>2015</b> , 87, 2608-14	7.8	10

110	Glucose recognition proteins for glucose sensing at physiological concentrations and temperatures. <i>ACS Chemical Biology</i> , <b>2014</b> , 9, 1595-602	4.9	19
109	Aequorin mutants with increased thermostability. <i>Analytical and Bioanalytical Chemistry</i> , <b>2014</b> , 406, 5639-43	7.4	11
108	Deciphering bacterial universal language by detecting the quorum sensing signal, autoinducer-2, with a whole-cell sensing system. <i>Analytical Chemistry</i> , <b>2013</b> , 85, 9604-9	7.8	26
107	A targeted and adjuvanted nanocarrier lowers the effective dose of liposomal amphotericin B and enhances adaptive immunity in murine cutaneous leishmaniasis. <i>Journal of Infectious Diseases</i> , <b>2013</b> , 208, 1914-22	7	42
106	Bioluminescence inhibition assay for the detection of hydroxylated polychlorinated biphenyls. <i>Analytical Chemistry</i> , <b>2012</b> , 84, 7648-55	7.8	9
105	Magnetic Nanocomposites for Remote Controlled Responsive Therapy and in Vivo Tracking <b>2012</b> , 211-228		
104	Responsive Membranes for Water Treatment <b>2012</b> , 143-162		3
103	Synthesis Aspects in the Design of Responsive Membranes <b>2012</b> , 73-96		5
102	Oligonucleic Acids (Aptamers) for Designing Stimuli-Responsive Membranes <b>2012</b> , 1-29		
101	Emerging Membrane Nanomaterials - Towards Natural Selection of Functions <b>2012</b> , 31-49		
100	Carbon Nanotube Membranes as an Idealized Platform for Protein Channel Mimetic Pumps <b>2012</b> , 51-71		1
99	Tunable Separations, Reactions, and Nanoparticle Synthesis in Functionalized Membranes <b>2012</b> , 97-142		5
98	Functionalization of Polymeric Membranes and Feed Spacers for Fouling Control in Drinking Water Treatment Applications <b>2012</b> , 163-186		1
97	Pore-Filled Membranes as Responsive Release Devices <b>2012</b> , 187-210		
96	The Interactions between Salt Ions and Thermo-Responsive Poly (N-Isopropylacrylamide) from Molecular Dynamics Simulations <b>2012</b> , 229-242		3
95	Biologically-Inspired Responsive Materials: Integrating Biological Function into Synthetic Materials <b>2012</b> , 243-268		1
94	Responsive Colloids with Controlled Topology <b>2012</b> , 269-300		
93	Novel Biomimetic Polymer Gels Exhibiting Self-Oscillation <b>2012</b> , 301-314		

92	Electroactive Polymer Soft Material Based on Dielectric Elastomer <b>2012</b> , 315-384		1
91	Coloured Plates <b>2012</b> , 406-433		
90	Investigating the effect of antibiotics on quorum sensing with whole-cell biosensing systems. <i>Analytical and Bioanalytical Chemistry</i> , <b>2012</b> , 402, 3227-36	4.4	13
89	Engineered cells as biosensing systems in biomedical analysis. <i>Analytical and Bioanalytical Chemistry</i> , <b>2012</b> , 402, 3147-59	4.4	43
88	A protein switch sensing system for the quantification of sulfate. <i>Analytical Biochemistry</i> , <b>2012</b> , 421, 172-80	3.8	10
87	Bioluminescence and its impact on bioanalysis. <i>Annual Review of Analytical Chemistry</i> , <b>2011</b> , 4, 297-319	12.5	45
86	Cyclic AMP receptor protein-aequorin molecular switch for cyclic AMP. <i>Bioconjugate Chemistry</i> , <b>2011</b> , 22, 475-81	6.3	9
85	Bacterial spores as platforms for bioanalytical and biomedical applications. <i>Analytical and Bioanalytical Chemistry</i> , <b>2011</b> , 400, 977-89	4.4	72
84	Stability of spore-based biosensing systems under extreme conditions. <i>Sensors and Actuators B: Chemical</i> , <b>2011</b> , 158, 377-382	8.5	7
83	Fluorescent and bioluminescent cell-based sensors: strategies for their preservation. <i>Advances in Biochemical Engineering/Biotechnology</i> , <b>2010</b> , 117, 57-75	1.7	14
82	Biosensing Systems Based on Genetically Engineered Whole Cells <b>2010</b> , 565-598		5
81	Modulating the bioluminescence emission of photoproteins by in vivo site-directed incorporation of non-natural amino acids. <i>ACS Chemical Biology</i> , <b>2010</b> , 5, 455-60	4.9	14
80	Packaging sensing cells in spores for long-term preservation of sensors: a tool for biomedical and environmental analysis. <i>Analytical Chemistry</i> , <b>2010</b> , 82, 6098-103	7.8	25
79	Paper strip whole cell biosensors: a portable test for the semiquantitative detection of bacterial quorum signaling molecules. <i>Analytical Chemistry</i> , <b>2010</b> , 82, 4457-63	7.8	82
78	Integration of spore-based genetically engineered whole-cell sensing systems into portable centrifugal microfluidic platforms. <i>Analytical and Bioanalytical Chemistry</i> , <b>2010</b> , 398, 349-56	4.4	37
77	Integrating Biosensors and Drug Delivery: A Step Closer Toward Scalable Responsive Drug-Delivery Systems. <i>Advanced Materials</i> , <b>2009</b> , 21, 656-660	24	33
76	Glucose responsive hydrogel networks based on protein recognition. <i>Macromolecular Bioscience</i> , <b>2009</b> , 9, 864-8	5.5	54
75	Engineering bioluminescent proteins: expanding their analytical potential. <i>Analytical Chemistry</i> , <b>2009</b> , 81, 8662-8	7.8	43



74	Genetically modified semisynthetic bioluminescent photoprotein variants: simultaneous dual-analyte assay in a single well employing time resolution of decay kinetics. <i>Analytical Chemistry</i> , <b>2008</b> , 80, 8470-6	7.8	14
73	Smart Hydrogel Materials <b>2008</b> ,		1
72	Biosensors for Quorum Chemical Signaling Molecules: Implications of Bacterial Communication in Gastrointestinal Disorders. <i>ACS Symposium Series</i> , <b>2008</b> , 13-27	0.4	1
71	A whole-cell assay for the high throughput screening of calmodulin antagonists. <i>Analytical and Bioanalytical Chemistry</i> , <b>2008</b> , 390, 2073-9	4.4	6
70	Detection of bacterial quorum sensing N-acyl homoserine lactones in clinical samples. <i>Analytical and Bioanalytical Chemistry</i> , <b>2008</b> , 391, 1619-27	4.4	77
69	A bioluminescent molecular switch for glucose. <i>Angewandte Chemie - International Edition</i> , <b>2008</b> , 47, 3718-21	16.4	29
68	A Bioluminescent Molecular Switch For Glucose. <i>Angewandte Chemie</i> , <b>2008</b> , 120, 3778-3781	3.6	6
67	Aequorin-based homogeneous cortisol immunoassay for analysis of saliva samples. <i>Bioconjugate Chemistry</i> , <b>2007</b> , 18, 1772-7	6.3	17
66	Construction of spores for portable bacterial whole-cell biosensing systems. <i>Analytical Chemistry</i> , <b>2007</b> , 79, 9391-7	7.8	63
65	Calmodulin-mediated reversible immobilization of enzymes. <i>Colloids and Surfaces B: Biointerfaces</i> , <b>2007</b> , 58, 20-7	6	13
64	Bioluminescence immunoassay for angiotensin II using aequorin as a label. <i>Analytical Biochemistry</i> , <b>2007</b> , 371, 154-61	3.1	11
63	Hydroxylated polychlorinated biphenyl detection based on a genetically engineered bioluminescent whole-cell sensing system. <i>Analytical Chemistry</i> , <b>2007</b> , 79, 5740-5	7.8	57
62	Bioluminescence DNA hybridization assay for Plasmodium falciparum based on the photoprotein aequorin. <i>Analytical Chemistry</i> , <b>2007</b> , 79, 4149-53	7.8	34
61	ClcR-based biosensing system in the detection of cis-dihydroxylated (chloro-)biphenyls. <i>Analytical and Bioanalytical Chemistry</i> , <b>2006</b> , 385, 807-13	4.4	12
60	Meet the Guest Editors. <i>Analytical and Bioanalytical Chemistry</i> , <b>2006</b> , 386, 403-404	4.4	
59	Novel reporter gene in a fluorescent-based whole cell sensing system. <i>Biotechnology and Bioengineering</i> , <b>2006</b> , 93, 989-97	4.9	18
58	Stimuli-Responsive Hydrogels Based on the Genetically Engineered Proteins: Actuation, Drug Delivery and Mechanical Characterization. <i>Materials Research Society Symposia Proceedings</i> , <b>2006</b> , 952, 2		
57	Biosensing systems for the detection of bacterial quorum signaling molecules. <i>Analytical Chemistry</i> , <b>2006</b> , 78, 7603-9	7.8	74



56	Hinge-Motion Binding Proteins: Unraveling Their Analytical Potential. <i>Analytical Chemistry</i> , <b>2006</b> , 78, 6692-6700	7.8	20
55	Split Luciferase Systems for Detecting Protein-Protein Interactions in Mammalian Cells Based on Protein Splicing and Protein Complementation <b>2006</b> , 65-75		
54	Advances in Instrumentation for Detecting Low-level Bioluminescence and Fluorescence <b>2006</b> , 199-223		3
53	Luminous Marine Organisms <b>2006</b> , 25-47		2
52	Beetle Luciferases: Colorful Lights on Biological Processes and Diseases <b>2006</b> , 49-63		16
51	The Photoproteins <b>2006</b> , 1-23		1
50	Photoproteins in Nucleic Acid Analysis <b>2006</b> , 77-94		3
49	Bioluminescence Resonance Energy Transfer in Bioanalysis <b>2006</b> , 95-111		2
48	Photoproteins as in Vivo Indicators of Biological Function <b>2006</b> , 113-129		
47	Luminescent Proteins in Binding Assays <b>2006</b> , 155-178		4
46	Whole-cell-reporter-gene-based biosensing systems on a compact disk microfluidics platform. <i>Analytical Biochemistry</i> , <b>2005</b> , 342, 11-9	3.1	53
45	Detection of polychlorinated biphenyls employing chemical dechlorination followed by biphenyl whole cell sensing system. <i>Toxicological and Environmental Chemistry</i> , <b>2005</b> , 87, 287-298	1.4	1
44	Phosphate binding protein as the biorecognition element in a biosensor for phosphate. <i>Sensors and Actuators B: Chemical</i> , <b>2004</b> , 97, 81-9	8.5	43
43	Fluorescence-based sensing system for copper using genetically engineered living yeast cells. <i>Biotechnology and Bioengineering</i> , <b>2004</b> , 88, 664-70	4.9	52
42	Artificial Muscle Material with Fast Electroactuation under Neutral pH Conditions. <i>Chemistry of Materials</i> , <b>2004</b> , 16, 2499-2502	9.6	88
41	Luminescence-based whole-cell-sensing systems for cadmium and lead using genetically engineered bacteria. <i>Analytical and Bioanalytical Chemistry</i> , <b>2003</b> , 376, 11-7	4.4	60
40	Development of a set of simple bacterial biosensors for quantitative and rapid measurements of arsenite and arsenate in potable water. <i>Environmental Science &amp; Technology</i> , <b>2003</b> , 37, 4743-50	10.3	261
39	Tuning the Structure of Lariat Crown Ethers for Ion-Selective Electrodes: Significant Shifts in Sodium/Potassium Selectivity. <i>Electroanalysis</i> , <b>2002</b> , 14, 186	3	6

38	Rationally designed fluorescently labeled sulfate-binding protein mutants: evaluation in the development of a sensing system for sulfate. <i>Biotechnology and Bioengineering</i> , <b>2002</b> , 78, 517-26	4.9	24
37	Bioluminescence immunoassay for cortisol using recombinant aequorin as a label. <i>Analytical Biochemistry</i> , <b>2002</b> , 306, 204-11	3.1	39
36	A fluorescence-based sensing system for the environmental monitoring of nickel using the nickel binding protein from <i>Escherichia coli</i> . <i>Analytical and Bioanalytical Chemistry</i> , <b>2002</b> , 372, 174-80	4.4	45
35	Internal response correction for fluorescent whole-cell biosensors. <i>Analytical Chemistry</i> , <b>2002</b> , 74, 5948-53	5.3	36
34	Cysteine-free mutant of aequorin as a photolabel in immunoassay development. <i>Bioconjugate Chemistry</i> , <b>2002</b> , 13, 269-75	6.3	22
33	An immunoassay for Leu-enkephalin based on a C-terminal aequorin-peptide fusion. <i>Analytical Chemistry</i> , <b>2001</b> , 73, 1903-8	7.8	23
32	A novel reagentless sensing system for measuring glucose based on the galactose/glucose-binding protein. <i>Analytical Biochemistry</i> , <b>2001</b> , 294, 19-26	3.1	76
31	Using epitope-aequorin conjugate recognition in immunoassays for complex proteins. <i>Analytical Biochemistry</i> , <b>2001</b> , 294, 132-40	3.1	8
30	Lead-Selective Electrode Based on a Quinaldic Acid Derivative. <i>Electroanalysis</i> , <b>2001</b> , 13, 54-60	3	12
29	Design and Fabrication of CD-Like Microfluidic Platforms for Diagnostics: Polymer-Based Microfabrication. <i>Biomedical Microdevices</i> , <b>2001</b> , 3, 339-351	3.7	62
28	C-terminal and n-terminal fusions of aequorin with small peptides in immunoassay development. <i>Bioconjugate Chemistry</i> , <b>2001</b> , 12, 378-84	6.3	10
27	Bioluminescence immunoassay for thyroxine employing genetically engineered mutant aequorins containing unique cysteine residues. <i>Analytical Chemistry</i> , <b>2001</b> , 73, 3227-33	7.8	18
26	Detection of biotin in individual sea urchin oocytes using a bioluminescence binding assay. <i>Analytical Chemistry</i> , <b>2001</b> , 73, 1403-7	7.8	6
25	Effect of Fabrication Factors on Performance of Screen-Printed/Laser Micromachined Electrochemical Nanovials. <i>Electroanalysis</i> , <b>2000</b> , 12, 685-690	3	7
24	Fluorescent Biosensing Systems Based on Analyte-Induced Conformational Changes of Genetically Engineered Periplasmic Binding Proteins. <i>ACS Symposium Series</i> , <b>2000</b> , 87-101	0.4	1
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22	Genetically engineered whole-cell sensing systems: coupling biological recognition with reporter genes. <i>Chemical Reviews</i> , <b>2000</b> , 100, 2705-38	68.1	356
21	Purification of recombinant proteins based on the interaction between a phenothiazine-derivatized column and a calmodulin fusion tail. <i>Biotechnology Progress</i> , <b>1999</b> , 15, 513-6	2.8	6

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19	A dynamical investigation of acrylodan-labeled mutant phosphate binding protein. <i>Analytical Chemistry</i> , <b>1999</b> , 71, 589-95	7.8	21
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17	Bacteria-based chemiluminescence sensing system using $\beta$ -galactosidase under the control of the ArsR regulatory protein of the ars operon. <i>Analytica Chimica Acta</i> , <b>1998</b> , 369, 189-195	6.6	54
16	Rational Design of a Calcium Sensing System Based on Induced Conformational Changes of Calmodulin. <i>Journal of the American Chemical Society</i> , <b>1997</b> , 119, 11102-11103	16.4	28
15	Sensing antimonite and arsenite at the subattomole level with genetically engineered bioluminescent bacteria. <i>Analytical Chemistry</i> , <b>1997</b> , 69, 3380-4	7.8	88
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13	Bacterial biosensors for monitoring toxic metals. <i>Trends in Biotechnology</i> , <b>1997</b> , 15, 500-6	15.1	92
12	Homogeneous bioluminescence competitive binding assay for folate based on a coupled glucose-6-phosphate dehydrogenase-bacterial luciferase enzyme system. <i>Analytical Chemistry</i> , <b>1996</b> , 68, 1646-50	7.8	10
11	Affinity chromatography of recombinant peptides/proteins based on a calmodulin fusion tail. <i>Analytical Chemistry</i> , <b>1996</b> , 68, 1550-5	7.8	12
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9	Potentiometric enzyme electrode for urea based on electrochemically prepared polypyrrole membranes. <i>Mikrochimica Acta</i> , <b>1995</b> , 121, 63-72	5.8	11
8	Nitrite-selective electrode based on an electropolymerized cobalt phthalocyanine. <i>Electroanalysis</i> , <b>1995</b> , 7, 710-713	3	57
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6	Iodide-selective electrodes based on a mercury-triisobutylphosphine sulfide complex. <i>Electroanalysis</i> , <b>1993</b> , 5, 839-843	3	21
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