Sylvia Daunert

List of Publications by Citations

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	Genetically engineered whole-cell sensing systems: coupling biological recognition with reporter genes. *Chemical Reviews*, **2000**, 100, 2705-38	68.1	356
180	Development of a set of simple bacterial biosensors for quantitative and rapid measurements of arsenite and arsenate in potable water. *Environmental Science & Technology*, **2003**, 37, 4743-50	10.3	261
179	Nanotechnology-Driven Therapeutic Interventions in Wound Healing: Potential Uses and Applications. *ACS Central Science*, **2017**, 3, 163-175	16.8	215
178	Neurotransmitters: The Critical Modulators Regulating Gut-Brain Axis. *Journal of Cellular Physiology* , **2017**, 232, 2359-2372	7	207
177	Adaptation to Stressors by Systemic Protein Amyloidogenesis. *Developmental Cell*, **2016**, 39, 155-168	10.2	95
176	Bacterial biosensors for monitoring toxic metals. *Trends in Biotechnology*, **1997**, 15, 500-6	15.1	92
175	Sensing antimonite and arsenite at the subattomole level with genetically engineered bioluminescent bacteria. *Analytical Chemistry*, **1997**, 69, 3380-4	7.8	88
174	Artificial Muscle Material with Fast Electroactuation under Neutral pH Conditions. *Chemistry of Materials*, **2004**, 16, 2499-2502	9.6	88
173	Genetically engineered bacteria: electrochemical sensing systems for antimonite and arsenite. *Analytical Chemistry*, **1997**, 69, 16-20	7.8	86
172	Paper strip whole cell biosensors: a portable test for the semiquantitative detection of bacterial quorum signaling molecules. *Analytical Chemistry*, **2010**, 82, 4457-63	7.8	82
171	Detection of bacterial quorum sensing N-acyl homoserine lactones in clinical samples. *Analytical and Bioanalytical Chemistry*, **2008**, 391, 1619-27	4.4	77
170	A novel reagentless sensing system for measuring glucose based on the galactose/glucose-binding protein. *Analytical Biochemistry*, **2001**, 294, 19-26	3.1	76
169	Biosensing systems for the detection of bacterial quorum signaling molecules. *Analytical Chemistry*, **2006**, 78, 7603-9	7.8	74
168	Bacterial spores as platforms for bioanalytical and biomedical applications. *Analytical and Bioanalytical Chemistry*, **2011**, 400, 977-89	4.4	72
167	The Aging Risk and Atherosclerosis: A Fresh Look at Arterial Homeostasis. *Frontiers in Genetics*, **2017**, 8, 216	4.5	63
166	Construction of spores for portable bacterial whole-cell biosensing systems. *Analytical Chemistry*, **2007**, 79, 9391-7	7.8	63
165	Design and Fabrication of CD-Like Microfluidic Platforms for Diagnostics: Polymer-Based Microfabrication. *Biomedical Microdevices*, **2001**, 3, 339-351	3.7	62

164	Luminescence-based whole-cell-sensing systems for cadmium and lead using genetically engineered bacteria. *Analytical and Bioanalytical Chemistry*, **2003**, 376, 11-7	4.4	60
163	Serotonin Activates Bacterial Quorum Sensing and Enhances the Virulence of Pseudomonas aeruginosa in the Host. *EBioMedicine*, **2016**, 9, 161-169	8.8	57
162	Hydroxylated polychlorinated biphenyl detection based on a genetically engineered bioluminescent whole-cell sensing system. *Analytical Chemistry*, **2007**, 79, 5740-5	7.8	57
161	Nitrite-selective electrode based on an electropolymerized cobalt phthalocyanine. *Electroanalysis*, **1995**, 7, 710-713	3	57
160	Glucose responsive hydrogel networks based on protein recognition. *Macromolecular Bioscience*, **2009**, 9, 864-8	5.5	54
159	Bacteria-based chemiluminescence sensing system using β-galactosidase under the control of the ArsR regulatory protein of the ars operon. *Analytica Chimica Acta*, **1998**, 369, 189-195	6.6	54
158	Whole-cell-reporter-gene-based biosensing systems on a compact disk microfluidics platform. *Analytical Biochemistry*, **2005**, 342, 11-9	3.1	53
157	Electrochemistry in nanovials fabricated by combining screen printing and laser micromachining. *Analytical Chemistry*, **2000**, 72, 497-501	7.8	53
156	Beyond Antibodies as Binding Partners: The Role of Antibody Mimetics in Bioanalysis. *Annual Review of Analytical Chemistry*, **2017**, 10, 293-320	12.5	52
155	Fluorescence-based sensing system for copper using genetically engineered living yeast cells. *Biotechnology and Bioengineering*, **2004**, 88, 664-70	4.9	52
154	Bioluminescence and its impact on bioanalysis. *Annual Review of Analytical Chemistry*, **2011**, 4, 297-319	12.5	45
153	A fluorescence-based sensing system for the environmental monitoring of nickel using the nickel binding protein from Escherichia coli. *Analytical and Bioanalytical Chemistry*, **2002**, 372, 174-80	4.4	45
152	Engineered cells as biosensing systems in biomedical analysis. *Analytical and Bioanalytical Chemistry* , **2012**, 402, 3147-59	4.4	43
151	Engineering bioluminescent proteins: expanding their analytical potential. *Analytical Chemistry*, **2009**, 81, 8662-8	7.8	43
150	Phosphate binding protein as the biorecognition element in a biosensor for phosphate. *Sensors and Actuators B: Chemical*, **2004**, 97, 81-9	8.5	43
149	A targeted and adjuvanted nanocarrier lowers the effective dose of liposomal amphotericin B and enhances adaptive immunity in murine cutaneous leishmaniasis. *Journal of Infectious Diseases*, **2013** , 208, 1914-22	7	42
148	Investigation of Microbiota Alterations and Intestinal Inflammation Post-Spinal Cord Injury in Rat Model. *Journal of Neurotrauma*, **2018**, 35, 2159-2166	5.4	41
147	Green fluorescent protein in the design of a living biosensing system for L-arabinose. *Analytical Chemistry*, **1999**, 71, 763-8	7.8	41

146	Bioluminescence immunoassay for cortisol using recombinant aequorin as a label. *Analytical Biochemistry*, **2002**, 306, 204-11	3.1	39
145	Integration of spore-based genetically engineered whole-cell sensing systems into portable centrifugal microfluidic platforms. *Analytical and Bioanalytical Chemistry*, **2010**, 398, 349-56	4.4	37
144	Internal response correction for fluorescent whole-cell biosensors. *Analytical Chemistry*, **2002**, 74, 5948-53	7.8	36
143	Bioluminescence DNA hybridization assay for Plasmodium falciparum based on the photoprotein aequorin. *Analytical Chemistry*, **2007**, 79, 4149-53	7.8	34
142	Integrating Biosensors and Drug Delivery: A Step Closer Toward Scalable Responsive Drug-Delivery Systems. *Advanced Materials*, **2009**, 21, 656-660	24	33
141	Molecular Aptamer Beacons and Their Applications in Sensing, Imaging, and Diagnostics. *Small*, **2019**, 15, e1902248	11	32
140	A bioluminescent molecular switch for glucose. *Angewandte Chemie - International Edition*, **2008**, 47, 3718-21	16.4	29
139	Orally Administrable Therapeutic Synthetic Nanoparticle for Zika Virus. *ACS Nano*, **2019**, 13, 11034-11048	16.7	28
138	Rational Design of a Calcium Sensing System Based on Induced Conformational Changes of Calmodulin. *Journal of the American Chemical Society*, **1997**, 119, 11102-11103	16.4	28
137	Deciphering bacterial universal language by detecting the quorum sensing signal, autoinducer-2, with a whole-cell sensing system. *Analytical Chemistry*, **2013**, 85, 9604-9	7.8	26
136	Packaging sensing cells in spores for long-term preservation of sensors: a tool for biomedical and environmental analysis. *Analytical Chemistry*, **2010**, 82, 6098-103	7.8	25
135	The Paradox of HIV Blood-Brain Barrier Penetrance and Antiretroviral Drug Delivery Deficiencies. *Trends in Neurosciences*, **2020**, 43, 695-708	13.3	25
134	Rationally designed fluorescently labeled sulfate-binding protein mutants: evaluation in the development of a sensing system for sulfate. *Biotechnology and Bioengineering*, **2002**, 78, 517-26	4.9	24
133	An immunoassay for Leu-enkephalin based on a C-terminal aequorin-peptide fusion. *Analytical Chemistry*, **2001**, 73, 1903-8	7.8	23
132	Cysteine-free mutant of aequorin as a photolabel in immunoassay development. *Bioconjugate Chemistry*, **2002**, 13, 269-75	6.3	22
131	Directing and Potentiating Stem Cell-Mediated Angiogenesis and Tissue Repair by Cell Surface E-Selectin Coating. *PLoS ONE*, **2016**, 11, e0154053	3.7	22
130	Red-Shifted Aequorin Variants Incorporating Non-Canonical Amino Acids: Applications in In Vivo Imaging. *PLoS ONE*, **2016**, 11, e0158579	3.7	22
129	A dynamical investigation of acrylodan-labeled mutant phosphate binding protein. *Analytical Chemistry*, **1999**, 71, 589-95	7.8	21

128	Iodide-selective electrodes based on a mercury-triisobutylphosphine sulfide complex. *Electroanalysis*, **1993**, 5, 839-843	3	21
127	Identification of a Signaling Mechanism by Which the Microbiome Regulates Th17 Cell-Mediated Depressive-Like Behaviors in Mice. *American Journal of Psychiatry*, **2020**, 177, 974-990	11.9	21
126	An enhanced bioluminescence-based Annexin V probe for apoptosis detection in vitro and in vivo. *Cell Death and Disease*, **2017**, 8, e2826	9.8	20
125	Hinge-Motion Binding Proteins: Unraveling Their Analytical Potential. *Analytical Chemistry*, **2006**, 78, 6692-6700	7.8	20
124	Glucose recognition proteins for glucose sensing at physiological concentrations and temperatures. *ACS Chemical Biology*, **2014**, 9, 1595-602	4.9	19
123	Novel reporter gene in a fluorescent-based whole cell sensing system. *Biotechnology and Bioengineering*, **2006**, 93, 989-97	4.9	18
122	Bioluminescence immunoassay for thyroxine employing genetically engineered mutant aequorins containing unique cysteine residues. *Analytical Chemistry*, **2001**, 73, 3227-33	7.8	18
121	Aequorin-based homogeneous cortisol immunoassay for analysis of saliva samples. *Bioconjugate Chemistry*, **2007**, 18, 1772-7	6.3	17
120	Beetle Luciferases: Colorful Lights on Biological Processes and Diseases **2006**, 49-63		16
119	COVID19: A Systematic Approach to Early Identification and Healthcare Worker Protection. *Frontiers in Public Health*, **2020**, 8, 205	6	14
118	Fluorescent and bioluminescent cell-based sensors: strategies for their preservation. *Advances in Biochemical Engineering/Biotechnology*, **2010**, 117, 57-75	1.7	14
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115	Dual detection of peptides in a fluorescence binding assay by employing genetically fused GFP and BFP mutants. *Analytical Chemistry*, **1999**, 71, 4321-7	7.8	14
114	Truncated Variants of Gaussia Luciferase with Tyrosine Linker for Site-Specific Bioconjugate Applications. *Scientific Reports*, **2016**, 6, 26814	4.9	13
113	Investigating the effect of antibiotics on quorum sensing with whole-cell biosensing systems. *Analytical and Bioanalytical Chemistry*, **2012**, 402, 3227-36	4.4	13
112	Calmodulin-mediated reversible immobilization of enzymes. *Colloids and Surfaces B: Biointerfaces*, **2007**, 58, 20-7	6	13
111	Microbial whole-cell biosensors: Current applications, challenges, and future perspectives. *Biosensors and Bioelectronics*, **2021**, 191, 113359	11.8	13

110	ClcR-based biosensing system in the detection of cis-dihydroxylated (chloro-)biphenyls. *Analytical and Bioanalytical Chemistry*, **2006**, 385, 807-13	4.4	12
109	Lead-Selective Electrode Based on a Quinaldic Acid Derivative. *Electroanalysis*, **2001**, 13, 54-60	3	12
108	Affinity chromatography of recombinant peptides/proteins based on a calmodulin fusion tail. *Analytical Chemistry*, **1996**, 68, 1550-5	7.8	12
107	Bioorthogonal Protein Conjugation: Application to the Development of a Highly Sensitive Bioluminescent Immunoassay for the Detection of Interferon-□*Bioconjugate Chemistry*, **2017**, 28, 1749-1757	6.3	11
106	Aequorin mutants with increased thermostability. *Analytical and Bioanalytical Chemistry*, **2014**, 406, 5639-43	4.4	11
105	Bioluminescence immunoassay for angiotensin II using aequorin as a label. *Analytical Biochemistry*, **2007**, 371, 154-61	3.1	11
104	Potentiometric enzyme electrode for urea based on electrochemically prepared polypyrrole membranes. *Mikrochimica Acta*, **1995**, 121, 63-72	5.8	11
103	Highly Sensitive and Selective Direct Detection of Zika Virus Particles in Human Bodily Fluids for Accurate Early Diagnosis of Infection. *ACS Omega*, **2019**, 4, 6808-6818	3.9	10
102	Whole-Cell Biosensors as Tools for the Detection of Quorum-Sensing Molecules: Uses in Diagnostics and the Investigation of the Quorum-Sensing Mechanism. *Advances in Biochemical Engineering/Biotechnology*, **2015**, 181	1.7	10
101	Environmental PCBs in Gu□ica Bay, Puerto Rico: implications for community health. *Environmental Science and Pollution Research*, **2016**, 23, 2003-13	5.1	10
100	Detection of bacterial contamination in food matrices by integration of quorum sensing in a paper-strip test. *Analyst, The*, **2018**, 143, 4774-4782	5	10
99	Bacterial autoinducer-2 detection via an engineered quorum sensing protein. *Analytical Chemistry*, **2015**, 87, 2608-14	7.8	10
98	A protein switch sensing system for the quantification of sulfate. *Analytical Biochemistry*, **2012**, 421, 172-80	3.1	10
97	C-terminal and n-terminal fusions of aequorin with small peptides in immunoassay development. *Bioconjugate Chemistry*, **2001**, 12, 378-84	6.3	10
96	Homogeneous bioluminescence competitive binding assay for folate based on a coupled glucose-6-phosphate dehydrogenase--bacterial luciferase enzyme system. *Analytical Chemistry*, **1996**, 68, 1646-50	7.8	10
95	Bifunctional fusion proteins of calmodulin and protein A as affinity ligands in protein purification and in the study of protein-protein interactions. *Analytical Chemistry*, **1996**, 68, 3939-44	7.8	10
94	Opioid antagonists as potential therapeutics for ischemic stroke. *Progress in Neurobiology*, **2019**, 182, 101679	10.9	9
93	Engineering Rugged Field Assays to Detect Hazardous Chemicals Using Spore-Based Bacterial Biosensors. *Methods in Enzymology*, **2017**, 589, 51-85	1.7	9

92	Bioluminescence inhibition assay for the detection of hydroxylated polychlorinated biphenyls. *Analytical Chemistry*, **2012**, 84, 7648-55	7.8	9
91	Cyclic AMP receptor protein-aequorin molecular switch for cyclic AMP. *Bioconjugate Chemistry*, **2011**, 22, 475-81	6.3	9
90	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. *Ecotoxicology and Environmental Safety*, **2020**, 205, 111100	7	9
89	Bioluminescent detection of zearalenone using recombinant peptidomimetic Gaussia luciferase fusion protein. *Mikrochimica Acta*, **2020**, 187, 547	5.8	9
88	Design of a mediator-free, non-enzymatic electrochemical biosensor for glutamate detection. *Nanomedicine: Nanotechnology, Biology, and Medicine*, **2021**, 31, 102305	6	9
87	Enhanced Delivery of Plasmid DNA to Skeletal Muscle Cells using a DLC8-Binding Peptide and ASSLNIA-Modified PAMAM Dendrimer. *Molecular Pharmaceutics*, **2019**, 16, 2376-2384	5.6	8
86	Using epitope-aequorin conjugate recognition in immunoassays for complex proteins. *Analytical Biochemistry*, **2001**, 294, 132-40	3.1	8
85	Cannabidiol as a Novel Therapeutic for Immune Modulation. *ImmunoTargets and Therapy*, **2020**, 9, 131-140	3	8
84	Nanoparticles for Fidgety Cell Movement and Enhanced Wound Healing. *Journal of Investigative Dermatology*, **2015**, 135, 2151-2153	4.3	7
83	Trinucleotide Rolling Circle Amplification: A Novel Method for the Detection of RNA and DNA. *Methods and Protocols*, **2018**, 1, 15	2.5	7
82	Stability of spore-based biosensing systems under extreme conditions. *Sensors and Actuators B: Chemical*, **2011**, 158, 377-382	8.5	7
81	Effect of Fabrication Factors on Performance of Screen-Printed/Laser Micromachined Electrochemical Nanovials. *Electroanalysis*, **2000**, 12, 685-690	3	7
80	Effect of proteins on the response of anion-selective electrodes based on vitamin B12 derivatives. *Electroanalysis*, **1991**, 3, 177-182	3	7
79	Expression of a soluble truncated Vargula luciferase in Escherichia coli. *Protein Expression and Purification*, **2017**, 132, 68-74	2	6
78	Computationally Designed Peptides for Zika Virus Detection: An Incremental Construction Approach. *Biomolecules*, **2019**, 9,	5.9	6
77	Bioluminescent Protein-Inhibitor Pair in the Design of a Molecular Aptamer Beacon Biosensing System. *Analytical Chemistry*, **2020**, 92, 7393-7398	7.8	6
76	A whole-cell assay for the high throughput screening of calmodulin antagonists. *Analytical and Bioanalytical Chemistry*, **2008**, 390, 2073-9	4.4	6
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74	Tuning the Structure of Lariat Crown Ethers for Ion-Selective Electrodes: Significant Shifts in Sodium/Potassium Selectivity. *Electroanalysis*, **2002**, 14, 186	3	6
73	Detection of biotin in individual sea urchin oocytes using a bioluminescence binding assay. *Analytical Chemistry*, **2001**, 73, 1403-7	7.8	6
72	Purification of recombinant proteins based on the interaction between a phenothiazine-derivatized column and a calmodulin fusion tail. *Biotechnology Progress*, **1999**, 15, 513-6	2.8	6
71	Design of Gaussia luciferase-based bioluminescent stem-loop probe for sensitive detection of HIV-1 nucleic acids. *Analyst, The*, **2018**, 143, 3374-3381	5	6
70	Design and development of high bioluminescent resonance energy transfer efficiency hybrid-imaging constructs. *Analytical Biochemistry*, **2016**, 498, 1-7	3.1	5
69	Synthesis Aspects in the Design of Responsive Membranes **2012**, 73-96		5
68	Tunable Separations, Reactions, and Nanoparticle Synthesis in Functionalized Membranes **2012**, 97-142		5
67	Biosensing Systems Based on Genetically Engineered Whole Cells **2010**, 565-598		5
66	Peptide-Modified Biopolymers for Biomedical Applications. *ACS Applied Bio Materials*, **2021**, 4, 229-251	4.1	5
65	Objective Measurement of Carcinogens Among Dominican Republic Firefighters Using Silicone-Based Wristbands. *Journal of Occupational and Environmental Medicine*, **2020**, 62, e611-e615	2	5
64	The Inflammatory Aspect of Male and Female Pattern Hair Loss. *Journal of Inflammation Research*, **2020**, 13, 879-881	4.8	5
63	Accelerated coronary atherosclerosis not explained by traditional risk factors in 13% of young individuals. *American Heart Journal*, **2019**, 208, 47-54	4.9	5
62	Multiplexing cytokine analysis: towards reducing sample volume needs in clinical diagnostics. *Analyst, The*, **2019**, 144, 3250-3259	5	4
61	Luminescent Proteins in Binding Assays **2006**, 155-178		4
60	Responsive Membranes for Water Treatment **2012**, 143-162		3
59	The Interactions between Salt Ions and Thermo-Responsive Poly (N-Isopropylacrylamide) from Molecular Dynamics Simulations **2012**, 229-242		3
58	Advances in Instrumentation for Detecting Low-level Bioluminescence and Fluorescence **2006**, 199-223		3
57	Photoproteins in Nucleic Acid Analysis **2006**, 77-94		3

56	Development of Polymer Membrane Anion-Selective Electrodes Based on Molecular Recognition Principles. *ACS Symposium Series*, **1992**, 175-185	0.4	3
55	Peptide-Functionalized Dendrimer Nanocarriers for Targeted Microdystrophin Gene Delivery.. *Pharmaceutics*, **2021**, 13,	6.4	3
54	On-site detection of food and waterborne bacteria - current technologies, challenges, and future directions. *Trends in Food Science and Technology*, **2021**, 115, 409-421	15.3	3
53	Monitoring Pathogenic Viable O157:H7 in Food Matrices Based on the Detection of RNA Using Isothermal Amplification and a Paper-Based Platform.. *Analytical Chemistry*, **2021**,	7.8	3
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51	Luminous Marine Organisms **2006**, 25-47		2
50	Bioluminescence Resonance Energy Transfer in Bioanalysis **2006**, 95-111		2
49	Experimental Models of COVID-19.. *Frontiers in Cellular and Infection Microbiology*, **2021**, 11, 792584	5.9	2
48	Reagentless electrochemical biosensors through incorporation of unnatural amino acids on the protein structure.. *Biosensors and Bioelectronics*, **2021**, 200, 113861	11.8	2
47	The Role of Platelet-Rich Plasma in the Prevention of Chemotherapy-Induced Alopecia. *Skin Appendage Disorders*, **2020**, 6, 58-60	1.4	2
46	Advances in Translational Nanotechnology: Challenges and Opportunities. *Applied Sciences (Switzerland)*, **2020**, 10, 4881	2.6	2
45	An Intact Cell Bioluminescence-Based Assay for the Simple and Rapid Diagnosis of Urinary Tract Infection. *International Journal of Molecular Sciences*, **2020**, 21,	6.3	2
44	Responsive Membranes/Material-Based Separations: Research and Development Needs385-393		2
43	Enabling Aequorin for Biotechnology Applications Through Genetic Engineering. *Advances in Biochemical Engineering/Biotechnology*, **2015**, 149	1.7	1
42	Molecular Aptamer Beacons: Molecular Aptamer Beacons and Their Applications in Sensing, Imaging, and Diagnostics (Small 35/2019). *Small*, **2019**, 15, 1970187	11	1
41	Carbon Nanotube Membranes as an Idealized Platform for Protein Channel Mimetic Pumps **2012**, 51-71		1
40	Functionalization of Polymeric Membranes and Feed Spacers for Fouling Control in Drinking Water Treatment Applications **2012**, 163-186		1
39	Biologically-Inspired Responsive Materials: Integrating Biological Function into Synthetic Materials **2012**, 243-268		1

38	Electroactive Polymer Soft Material Based on Dielectric Elastomer **2012**, 315-384		1
37	Smart Hydrogel Materials **2008**,		1
36	Biosensors for Quorum Chemical Signaling Molecules: Implications of Bacterial Communication in Gastrointestinal Disorders. *ACS Symposium Series*, **2008**, 13-27	0.4	1
35	The Photoproteins **2006**, 1-23		1
34	Detection of polychlorinated biphenyls employing chemical dechlorination followed by biphenyl whole cell sensing system. *Toxicological and Environmental Chemistry*, **2005**, 87, 287-298	1.4	1
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32	Modulation of lipid accumulation in monocytes and macrophages by cyclodextrin-based nanocarriers for alpha-tocopheryl phosphate. *FASEB Journal*, **2019**, 33, 654.14	0.9	1
31	Vaccination against cocaine using a modifiable dendrimer nanoparticle platform. *Vaccine*, **2020**, 38, 7989-7997	4.1	1
30	Objective Measurement of Carcinogens Among Dominican Republic Firefighters Using Silicone-Based Wristbands. *JCO Global Oncology*, **2020**, 6, 15-15	3.7	1
29	Potential Impacts of PCBs on Sediment Microbiomes in a Tropical Marine Environment. *Journal of Marine Science and Engineering*, **2016**, 4, 13	2.4	1
28	Dexamethasone (DXM)-Coated Poly(lactic-co-glycolic acid) (PLGA) Microneedles as an Improved Drug Delivery System for Intracochlear Biodegradable Devices. *Advanced Therapeutics*,2100155	4.9	1
27	A new class of sensing elements for sensors: Clamp peptides for Zika virus. *Biosensors and Bioelectronics*, **2021**, 191, 113471	11.8	1
26	Photoproteins as Reporters in Whole-cell Sensing131		1
25	The Anti-Inflammatory Effects of Cannabidiol (CBD) on Acne.. *Journal of Inflammation Research*, **2022**, 15, 2795-2801	4.8	1
24	Facile Synthesis and Characterization of a Novel Tamavidin-Luciferase Reporter Fusion Protein for Universal Signaling Applications. *Advanced Biology*, **2020**, 4, e1900166	3.5	0
23	Delivery of therapeutic agents and cells to pancreatic islets: Towards a new era in the treatment of diabetes.. *Molecular Aspects of Medicine*, **2021**, 83, 101063	16.7	0
22	William "Bill" Joseph Whelan, D.Sc., FRS November 14, 1924 to June 5, 2021. *IUBMB Life*, **2021**, 73, 994-1001	4.1	0
21	Current salivary biomarkers for detection of human papilloma virus-induced oropharyngeal squamous cell carcinoma. *Head and Neck*, **2021**, 43, 3618-3630	4.2	0

20	Inflammasome-Regulated Pyroptotic Cell Death in Disruption of the Gut-Brain Axis After Stroke.. *Translational Stroke Research*, **2022**, 1	7.8	0
19	Mapping carcinogen exposure across urban fire incident response arenas using passive silicone-based samplers. *Ecotoxicology and Environmental Safety*, **2021**, 228, 112929	7	0
18	Self-Reported Depression and Duodenal Cortisol Biomarkers Are Related to Weight Loss in Young Metabolic and Bariatric Surgery Patients. *Bariatric Surgical Patient Care*, **2020**, 15, 73-80	0.4	
17	Magnetic Nanocomposites for Remote Controlled Responsive Therapy and in Vivo Tracking **2012**, 211-228		
16	Oligonucleic Acids (Aptamers) for Designing Stimuli-Responsive Membranes **2012**, 1-29		
15	Emerging Membrane Nanomaterials - Towards Natural Selection of Functions **2012**, 31-49		
14	Pore-Filled Membranes as Responsive Release Devices **2012**, 187-210		
13	Responsive Colloids with Controlled Topology **2012**, 269-300		
12	Novel Biomimetic Polymer Gels Exhibiting Self-Oscillation **2012**, 301-314		
11	Coloured Plates **2012**, 406-433		
10	Meet the Guest Editors. *Analytical and Bioanalytical Chemistry*, **2006**, 386, 403-404	4.4	
9	Stimuli-Responsive Hydrogels Based on the Genetically Engineered Proteins: Actuation, Drug Delivery and Mechanical Characterization. *Materials Research Society Symposia Proceedings*, **2006**, 952, 2		
8	Split Luciferase Systems for Detecting Protein-Protein Interactions in Mammalian Cells Based on Protein Splicing and Protein Complementation **2006**, 65-75		
7	Photoproteins as in Vivo Indicators of Biological Function **2006**, 113-129		
6	Electropolymerized Films in the Development of Biosensors. *ACS Symposium Series*, **1994**, 295-304	0.4	
5	Towards a Point-of-Care Test for Bacterial Vaginosis: Design and Development of a Rapid Test for Vaginolysin. *FASEB Journal*, **2018**, 32, 800.6	0.9	
4	Bioluminescent Annexin Fusion Proteins (AFPs) for Atherosclerosis Detection. *FASEB Journal*, **2018**, 32, 798.10	0.9	
3	A Preliminary Study on the Influence of Cannabis and Opioid Use on Weight Loss and Mental Health Biomarkers Post-weight Loss Surgery. *Obesity Surgery*, **2020**, 30, 4331-4338	3.7	

2	O1D.2 Objective measurement of work-environment carcinogenic exposures in florida firefighters using silicone-based passive sampling wristbands. *Occupational and Environmental Medicine*, **2019**, 76, A9.2-A9	2.1
1	Isothermal Amplification and Lateral Flow Nucleic Acid Test for the Detection of Shiga Toxin-Producing Bacteria for Food Monitoring. *Chemosensors*, **2022**, 10, 210	4