

Elisa Michelini

List of Publications by Year in descending order

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91
papers

4,755
citations

94433

37
h-index

95266

68
g-index

96
all docs

96
docs citations

96
times ranked

5872
citing authors

#	ARTICLE	IF	CITATIONS
1	Smartphone-based biosensors: A critical review and perspectives. <i>TrAC - Trends in Analytical Chemistry</i> , 2016, 79, 317-325.	11.4	392
2	Biotechnological applications of bioluminescence and chemiluminescence. <i>Trends in Biotechnology</i> , 2004, 22, 295-303.	9.3	301
3	Integrating Biochemiluminescence Detection on Smartphones: Mobile Chemistry Platform for Point-of-Need Analysis. <i>Analytical Chemistry</i> , 2014, 86, 7299-7304.	6.5	199
4	Progress in chemical luminescence-based biosensors: A critical review. <i>Biosensors and Bioelectronics</i> , 2016, 76, 164-179.	10.1	180
5	Red- and green-emitting firefly luciferase mutants for bioluminescent reporter applications. <i>Analytical Biochemistry</i> , 2005, 345, 140-148.	2.4	172
6	Cell-based assays: fuelling drug discovery. <i>Analytical and Bioanalytical Chemistry</i> , 2010, 398, 227-238.	3.7	165
7	Field-flow fractionation and biotechnology. <i>Trends in Biotechnology</i> , 2005, 23, 475-483.	9.3	163
8	A 3D-printed device for a smartphone-based chemiluminescence biosensor for lactate in oral fluid and sweat. <i>Analyst, The</i> , 2014, 139, 6494-6501.	3.5	163
9	Field-flow fractionation in bioanalysis: A review of recent trends. <i>Analytica Chimica Acta</i> , 2009, 635, 132-143.	5.4	160
10	A Rapid Multiplexed Chemiluminescent Immunoassay for the Detection of <i>Escherichia coli</i> O157:H7, <i>Yersinia enterocolitica</i> , <i>Salmonella typhimurium</i> , and <i>Listeria monocytogenes</i> Pathogen Bacteria. <i>Journal of Agricultural and Food Chemistry</i> , 2007, 55, 4933-4939.	5.2	146
11	Bioluminescence in analytical chemistry and in vivo imaging. <i>TrAC - Trends in Analytical Chemistry</i> , 2009, 28, 307-322.	11.4	146
12	Recent advancements in chemical luminescence-based lab-on-chip and microfluidic platforms for bioanalysis. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2014, 87, 36-52.	2.8	137
13	Peer Reviewed: Analytical Bioluminescence and Chemiluminescence. <i>Analytical Chemistry</i> , 2003, 75, 462 A-470 A.	6.5	123
14	Bioluminescent yeast assays for detecting estrogenic and androgenic activity in different matrices. <i>Chemosphere</i> , 2005, 61, 259-266.	8.2	112
15	Smartphone-interfaced 3D printed toxicity biosensor integrating bioluminescent sentinel cells. <i>Sensors and Actuators B: Chemical</i> , 2016, 225, 249-257.	7.8	97
16	A new recombinant cell-based bioluminescent assay for sensitive androgen-like compound detection. <i>Biosensors and Bioelectronics</i> , 2005, 20, 2261-2267.	10.1	92
17	A portable bioluminescence engineered cell-based biosensor for on-site applications. <i>Biosensors and Bioelectronics</i> , 2011, 26, 3647-3653.	10.1	92
18	New trends in bioanalytical tools for the detection of genetically modified organisms: an update. <i>Analytical and Bioanalytical Chemistry</i> , 2008, 392, 355-367.	3.7	78

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19	Multienzyme chemiluminescent foldable biosensor for on-site detection of acetylcholinesterase inhibitors. <i>Biosensors and Bioelectronics</i> , 2020, 162, 112232.	10.1	75
20	Bio- and chemiluminescence imaging in analytical chemistry. <i>Analytica Chimica Acta</i> , 2005, 541, 25-35.	5.4	71
21	Recovery of polyphenols from red grape pomace and assessment of their antioxidant and anti-cholesterol activities. <i>New Biotechnology</i> , 2016, 33, 338-344.	4.4	65
22	Nanobioanalytical luminescence: Förster-type energy transfer methods. <i>Analytical and Bioanalytical Chemistry</i> , 2009, 393, 109-123.	3.7	64
23	Bioengineered bioluminescent magnetotactic bacteria as a powerful tool for chip-based whole-cell biosensors. <i>Lab on A Chip</i> , 2013, 13, 4881.	6.0	62
24	Comprehensive Profiling of Diverse Genetic Reporters with Application to Whole-Cell and Cell-Free Biosensors. <i>Analytical Chemistry</i> , 2019, 91, 15284-15292.	6.5	56
25	White grape pomace extracts, obtained by a sequential enzymatic plus ethanol-based extraction, exert antioxidant, anti-tyrosinase and anti-inflammatory activities. <i>New Biotechnology</i> , 2017, 39, 51-58.	4.4	55
26	Staying alive: new perspectives on cell immobilization for biosensing purposes. <i>Analytical and Bioanalytical Chemistry</i> , 2012, 402, 1785-1797.	3.7	54
27	Multicolor Bioluminescence Boosts Malaria Research: Quantitative Dual-Color Assay and Single-Cell Imaging in <i>Plasmodium falciparum</i> Parasites. <i>Analytical Chemistry</i> , 2014, 86, 8814-8821.	6.5	54
28	Spectral-Resolved Gene Technology for Multiplexed Bioluminescence and High-Content Screening. <i>Analytical Chemistry</i> , 2008, 80, 260-267.	6.5	53
29	Field-deployable whole-cell bioluminescent biosensors: so near and yet so far. <i>Analytical and Bioanalytical Chemistry</i> , 2013, 405, 6155-6163.	3.7	53
30	Nano-lantern on paper for smartphone-based ATP detection. <i>Biosensors and Bioelectronics</i> , 2020, 150, 111902.	10.1	53
31	Development and validation of a sensitive and fast chemiluminescent enzyme immunoassay for the detection of genetically modified maize. <i>Analytical and Bioanalytical Chemistry</i> , 2006, 384, 1269-1275.	3.7	49
32	Internal Response Correction for Fluorescent Whole-Cell Biosensors. <i>Analytical Chemistry</i> , 2002, 74, 5948-5953.	6.5	47
33	Analytical strategies for improving the robustness and reproducibility of bioluminescent microbial bioreporters. <i>Analytical and Bioanalytical Chemistry</i> , 2011, 401, 201-211.	3.7	46
34	Luciferase from the Italian firefly <i>Luciola italica</i> : Molecular cloning and expression. <i>Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology</i> , 2006, 145, 159-167.	1.6	45
35	Smartphone-based multicolor bioluminescent 3D spheroid biosensors for monitoring inflammatory activity. <i>Biosensors and Bioelectronics</i> , 2019, 123, 269-277.	10.1	44
36	An enhanced chimeric firefly luciferase-inspired enzyme for ATP detection and bioluminescence reporter and imaging applications. <i>Analytical Biochemistry</i> , 2015, 484, 148-153.	2.4	40

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37	Recent Advancements in Enzyme-Based Lateral Flow Immunoassays. <i>Sensors</i> , 2021, 21, 3358.	3.8	39
38	A chemical susceptibility profile of the <i>Plasmodium falciparum</i> transmission stages by complementary cell-based gametocyte assays. <i>Journal of Antimicrobial Chemotherapy</i> , 2016, 71, 1148-1158.	3.0	37
39	Peptide Fractions Obtained from Rice By-Products by Means of an Environment-Friendly Process Show In Vitro Health-Related Bioactivities. <i>PLoS ONE</i> , 2017, 12, e0170954.	2.5	37
40	One-Step Triplex-Polymerase Chain Reaction Assay for the Authentication of Yellowfin (Thunnus) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 6 and Canned Tuna Samples. <i>Journal of Agricultural and Food Chemistry</i> , 2007, 55, 7638-7647.	5.2	36
41	Exploiting NanoLuc luciferase for smartphone-based bioluminescence cell biosensor for (anti)-inflammatory activity and toxicity. <i>Analytical and Bioanalytical Chemistry</i> , 2016, 408, 8859-8868.	3.7	36
42	A novel bioluminescent NanoLuc yeast-estrogen screen biosensor (nanoYES) with a compact wireless camera for effect-based detection of endocrine-disrupting chemicals. <i>Analytical and Bioanalytical Chemistry</i> , 2018, 410, 1237-1246.	3.7	36
43	Orthogonal paper biosensor for mercury(II) combining bioluminescence and colorimetric smartphone detection. <i>Biosensors and Bioelectronics</i> , 2021, 194, 113569.	10.1	32
44	Combining intracellular and secreted bioluminescent reporter proteins for multicolor cell-based assays. <i>Photochemical and Photobiological Sciences</i> , 2008, 7, 212.	2.9	31
45	Development of a Bioluminescence Resonance Energy-Transfer Assay for Estrogen-Like Compound in Vivo Monitoring. <i>Analytical Chemistry</i> , 2004, 76, 7069-7076.	6.5	30
46	A sensitive recombinant cell-based bioluminescent assay for detection of androgen-like compounds. <i>Nature Protocols</i> , 2008, 3, 1895-1902.	12.0	29
47	Gravitational field-flow fractionation of human hemopoietic stem cells. <i>Journal of Chromatography A</i> , 2009, 1216, 9081-9087.	3.7	29
48	Analytical approach for monitoring endocrine-disrupting compounds in urban waste water treatment plants. <i>Analytical and Bioanalytical Chemistry</i> , 2006, 385, 742-752.	3.7	26
49	In Vivo Bioluminescence Imaging of Murine Xenograft Cancer Models with a Red-shifted Thermostable Luciferase. <i>Molecular Imaging and Biology</i> , 2010, 12, 406-414.	2.6	26
50	Red-emitting chimeric firefly luciferase for in vivo imaging in low ATP cellular environments. <i>Analytical Biochemistry</i> , 2017, 534, 36-39.	2.4	26
51	Exploiting in vitro and in vivo bioluminescence for the implementation of the three Rs principle (replacement, reduction, and refinement) in drug discovery. <i>Analytical and Bioanalytical Chemistry</i> , 2014, 406, 5531-5539.	3.7	24
52	A new gastric-emptying mouse model based on in vivo non-invasive bioluminescence imaging. <i>Neurogastroenterology and Motility</i> , 2010, 22, 1117-e288.	3.0	23
53	Paper-Based Immunosensors with Bio-Chemiluminescence Detection. <i>Sensors</i> , 2021, 21, 4309.	3.8	23
54	Renilla luciferase-labeled Annexin V: a new probe for detection of apoptotic cells. <i>Analyst</i> , The, 2012, 137, 5062.	3.5	22

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55	Ultrasensitive On-Field Luminescence Detection Using a Low-Cost Silicon Photomultiplier Device. <i>Analytical Chemistry</i> , 2021, 93, 7388-7393.	6.5	22
56	Pr ⁺ -porter nanoYES [±] and nanoYES ² bioluminescent cell biosensors for ultrarapid and sensitive screening of endocrine-disrupting chemicals. <i>Analytical and Bioanalytical Chemistry</i> , 2019, 411, 4937-4949.	3.7	21
57	Luminescent Probes and Visualization of Bioluminescence. <i>Methods in Molecular Biology</i> , 2009, 574, 1-13.	0.9	20
58	Recombinant Cell-Based Bioluminescence Assay for Androgen Bioactivity Determination in Clinical Samples. <i>Clinical Chemistry</i> , 2005, 51, 1995-1998.	3.2	19
59	Molecular luminescence imaging. <i>Microchemical Journal</i> , 2007, 85, 5-12.	4.5	18
60	Analytical bioluminescence and chemiluminescence. <i>Analytical and Bioanalytical Chemistry</i> , 2014, 406, 5529-5530.	3.7	18
61	Bioluminescence Imaging of Spheroids for High-Throughput Longitudinal Studies on 3D Cell Culture Models. <i>Photochemistry and Photobiology</i> , 2017, 93, 531-535.	2.5	17
62	An Innovative, Flow-Assisted, Noncompetitive Chemiluminescent Immunoassay for the Detection of Pathogenic Bacteria,. <i>Clinical Chemistry</i> , 2006, 52, 2151-2155.	3.2	16
63	Testosterone challenge and androgen receptor activity in relation to <sc>UGT</sc>2B17 genotypes. <i>European Journal of Clinical Investigation</i> , 2013, 43, 248-255.	3.4	16
64	Ultrasensitive and rapid nanodevices for analytical immunoassays. <i>Analytical and Bioanalytical Chemistry</i> , 2006, 384, 27-30.	3.7	15
65	Advanced bioanalytics for precision medicine. <i>Analytical and Bioanalytical Chemistry</i> , 2018, 410, 669-677.	3.7	14
66	Portable light detectors for bioluminescence biosensing applications: A comprehensive review from the analytical chemist's perspective. <i>Analytica Chimica Acta</i> , 2022, 1200, 339583.	5.4	13
67	Microbial Fermentation of Industrial Rice-Starch Byproduct as Valuable Source of Peptide Fractions with Health-Related Activity. <i>Microorganisms</i> , 2020, 8, 986.	3.6	12
68	Luciferase Genes as Reporter Reactions: How to Use Them in Molecular Biology?. <i>Advances in Biochemical Engineering/Biotechnology</i> , 2015, 154, 3-17.	1.1	11
69	Proteomic analysis and bioluminescent reporter gene assays to investigate effects of simulated microgravity on Caco-2 cells. <i>Proteomics</i> , 2017, 17, 1700081.	2.2	11
70	Dual-color bioluminescent bioreporter for forensic analysis: evidence of androgenic and anti-androgenic activity of illicit drugs. <i>Analytical and Bioanalytical Chemistry</i> , 2013, 405, 1035-1045.	3.7	10
71	Bioluminescent Biosensors Based on Genetically Engineered Living Cells in Environmental and Food Analysis. <i>Analytical Letters</i> , 2006, 39, 1503-1515.	1.8	9
72	Dual-color bioluminescent assay using infected HepG2 cells sheds new light on Chlamydia pneumoniae and human cytomegalovirus effects on human cholesterol 7 α -hydroxylase (CYP7A1) transcription. <i>Analytical Biochemistry</i> , 2012, 430, 92-96.	2.4	7

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73	Bioluminescence goes portable: recent advances in whole-cell and cell-free bioluminescence biosensors. <i>Luminescence</i> , 2021, 36, 278-293.	2.9	7
74	A Genetically Encoded Bioluminescence Intracellular Nanosensor for Androgen Receptor Activation Monitoring in 3D Cell Models. <i>Sensors</i> , 2021, 21, 893.	3.8	7
75	Luminescent Proteins in Binding Assays. , 2006, , 155-178.		6
76	High-Throughput Bioluminescence Imaging and Reporter Gene Assay with 3D Spheroids from Human Cell Lines. <i>Methods in Molecular Biology</i> , 2020, 2081, 3-14.	0.9	4
77	Immunological Analytical Techniques for Cosmetics Quality Control and Process Monitoring. <i>Processes</i> , 2021, 9, 1982.	2.8	4
78	Bioluminescence Sensing in 3D Spherical Microtissues for Multiple Bioactivity Analysis of Environmental Samples. <i>Sensors</i> , 2022, 22, 4568.	3.8	4
79	Chapter 15. Cell-based Bioluminescent Biosensors. , 2010, , 511-542.		2
80	ATP Sensing Paper with Smartphone Bioluminescence-Based Detection. <i>Methods in Molecular Biology</i> , 2022, , 297-307.	0.9	2
81	Aequorin fusion proteins as bioluminescent tracers for competitive immunoassays. , 2004, 5329, 137.		1
82	Integrated System Based on Thin Film Technologies for Cell-Based Bioluminescence Assays. <i>Proceedings (mdpi)</i> , 2017, 1, .	0.2	1
83	Live Cell Immobilization. , 2022, , 479-496.		1
84	Development of a bioluminescence resonance energy transfer (BRET) for monitoring estrogen receptor alpha activation. , 2004, 5329, 145.		0
85	Recent Analytical Application Areas of Chemiluminescence and Bioluminescence. , 2010, , 557-573.		0
86	475k A New Gastric-Emptying Mouse Model Based on In Vivo Non-Invasive Bioluminescence Functional Imaging. <i>Gastroenterology</i> , 2010, 138, S-65-S-65.	1.3	0
87	Chapter 10. Biomolecular Interactions. , 2010, , 378-397.		0
88	Smartphone-Based Cell Detection. , 2022, , 963-978.		0
89	Live Cell Immobilization. , 2019, , 1-18.		0
90	New Tools for Rapid and Sensitive Detection of Water Contamination: Whole-Cell Biosensors and Cell-Free TX-TL Systems. <i>NATO Science for Peace and Security Series A: Chemistry and Biology</i> , 2020, , 239-241.	0.5	0

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91	Looking for peptides from rice starch processing by-product: Bioreactor production, anti-tyrosinase and anti-inflammatory activity, and in silico putative taste assessment. <i>Frontiers in Plant Science</i> , 0, 13, .	3.6	0