

Elisa Michelini

List of Publications by Year in descending order

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Version: 2024-02-01

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 | Live Cell Immobilization. , 2022, , 479-496. | | 1 |
| 2 | Smartphone-Based Cell Detection. , 2022, , 963-978. | | 0 |
| 3 | 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 |
| 4 | Bioluminescence Sensing in 3D Spherical Microtissues for Multiple Bioactivity Analysis of Environmental Samples. <i>Sensors</i> , 2022, 22, 4568. | 3.8 | 4 |
| 5 | ATP Sensing Paper with Smartphone Bioluminescence-Based Detection. <i>Methods in Molecular Biology</i> , 2022, , 297-307. | 0.9 | 2 |
| 6 | Bioluminescence goes portable: recent advances in whole-cell and cell-free bioluminescence biosensors. <i>Luminescence</i> , 2021, 36, 278-293. | 2.9 | 7 |
| 7 | A Genetically Encoded Bioluminescence Intracellular Nanosensor for Androgen Receptor Activation Monitoring in 3D Cell Models. <i>Sensors</i> , 2021, 21, 893. | 3.8 | 7 |
| 8 | Recent Advancements in Enzyme-Based Lateral Flow Immunoassays. <i>Sensors</i> , 2021, 21, 3358. | 3.8 | 39 |
| 9 | Ultrasensitive On-Field Luminescence Detection Using a Low-Cost Silicon Photomultiplier Device. <i>Analytical Chemistry</i> , 2021, 93, 7388-7393. | 6.5 | 22 |
| 10 | Paper-Based Immunosensors with Bio-Chemiluminescence Detection. <i>Sensors</i> , 2021, 21, 4309. | 3.8 | 23 |
| 11 | Orthogonal paper biosensor for mercury(II) combining bioluminescence and colorimetric smartphone detection. <i>Biosensors and Bioelectronics</i> , 2021, 194, 113569. | 10.1 | 32 |
| 12 | Immunological Analytical Techniques for Cosmetics Quality Control and Process Monitoring. <i>Processes</i> , 2021, 9, 1982. | 2.8 | 4 |
| 13 | Nano-lantern on paper for smartphone-based ATP detection. <i>Biosensors and Bioelectronics</i> , 2020, 150, 111902. | 10.1 | 53 |
| 14 | 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 |
| 15 | Multienzyme chemiluminescent foldable biosensor for on-site detection of acetylcholinesterase inhibitors. <i>Biosensors and Bioelectronics</i> , 2020, 162, 112232. | 10.1 | 75 |
| 16 | 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 |
| 17 | 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 |
| 18 | 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 |

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|----|---|------|-----------|
| 19 | Pr ⁺ -porters nanoYES ¹ 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 |
| 20 | Smartphone-based multicolor bioluminescent 3D spheroid biosensors for monitoring inflammatory activity. <i>Biosensors and Bioelectronics</i> , 2019, 123, 269-277. | 10.1 | 44 |
| 21 | Live Cell Immobilization. , 2019, , 1-18. | | 0 |
| 22 | 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 |
| 23 | Advanced bioanalytics for precision medicine. <i>Analytical and Bioanalytical Chemistry</i> , 2018, 410, 669-677. | 3.7 | 14 |
| 24 | 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 |
| 25 | 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 |
| 26 | 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 |
| 27 | 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 |
| 28 | Integrated System Based on Thin Film Technologies for Cell-Based Bioluminescence Assays. <i>Proceedings (mdpi)</i> , 2017, 1, . | 0.2 | 1 |
| 29 | 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 |
| 30 | 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 |
| 31 | Smartphone-based biosensors: A critical review and perspectives. <i>TrAC - Trends in Analytical Chemistry</i> , 2016, 79, 317-325. | 11.4 | 392 |
| 32 | 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 |
| 33 | 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 |
| 34 | Smartphone-interfaced 3D printed toxicity biosensor integrating bioluminescent "sentinel cells". <i>Sensors and Actuators B: Chemical</i> , 2016, 225, 249-257. | 7.8 | 97 |
| 35 | Progress in chemical luminescence-based biosensors: A critical review. <i>Biosensors and Bioelectronics</i> , 2016, 76, 164-179. | 10.1 | 180 |
| 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 | 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 |
| 38 | 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 |
| 39 | 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 |
| 40 | 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 |
| 41 | Integrating Biochemiluminescence Detection on Smartphones: Mobile Chemistry Platform for Point-of-Need Analysis. <i>Analytical Chemistry</i> , 2014, 86, 7299-7304. | 6.5 | 199 |
| 42 | Analytical bioluminescence and chemiluminescence. <i>Analytical and Bioanalytical Chemistry</i> , 2014, 406, 5529-5530. | 3.7 | 18 |
| 43 | 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 |
| 44 | 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 |
| 45 | 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 |
| 46 | 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 |
| 47 | Testosterone challenge and androgen receptor activity in relation to <i>UGT2B17</i> genotypes. <i>European Journal of Clinical Investigation</i> , 2013, 43, 248-255. | 3.4 | 16 |
| 48 | Renilla luciferase-labeled Annexin V: a new probe for detection of apoptotic cells. <i>Analyst, The</i> , 2012, 137, 5062. | 3.5 | 22 |
| 49 | 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 |
| 50 | Staying alive: new perspectives on cell immobilization for biosensing purposes. <i>Analytical and Bioanalytical Chemistry</i> , 2012, 402, 1785-1797. | 3.7 | 54 |
| 51 | 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 |
| 52 | A portable bioluminescence engineered cell-based biosensor for on-site applications. <i>Biosensors and Bioelectronics</i> , 2011, 26, 3647-3653. | 10.1 | 92 |
| 53 | Recent Analytical Application Areas of Chemiluminescence and Bioluminescence. , 2010, , 557-573. | | 0 |
| 54 | Cell-based assays: fuelling drug discovery. <i>Analytical and Bioanalytical Chemistry</i> , 2010, 398, 227-238. | 3.7 | 165 |

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|----|---|------|-----------|
| 55 | 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 |
| 56 | 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 |
| 57 | 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 |
| 58 | Chapter 10. Biomolecular Interactions. , 2010, , 378-397. | | 0 |
| 59 | Chapter 15. Cell-based Bioluminescent Biosensors. , 2010, , 511-542. | | 2 |
| 60 | Nanobioanalytical luminescence: Förster-type energy transfer methods. <i>Analytical and Bioanalytical Chemistry</i> , 2009, 393, 109-123. | 3.7 | 64 |
| 61 | Bioluminescence in analytical chemistry and in vivo imaging. <i>TrAC - Trends in Analytical Chemistry</i> , 2009, 28, 307-322. | 11.4 | 146 |
| 62 | Gravitational field-flow fractionation of human hemopoietic stem cells. <i>Journal of Chromatography A</i> , 2009, 1216, 9081-9087. | 3.7 | 29 |
| 63 | Field-flow fractionation in bioanalysis: A review of recent trends. <i>Analytica Chimica Acta</i> , 2009, 635, 132-143. | 5.4 | 160 |
| 64 | Luminescent Probes and Visualization of Bioluminescence. <i>Methods in Molecular Biology</i> , 2009, 574, 1-13. | 0.9 | 20 |
| 65 | 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 |
| 66 | A sensitive recombinant cell-based bioluminescent assay for detection of androgen-like compounds. <i>Nature Protocols</i> , 2008, 3, 1895-1902. | 12.0 | 29 |
| 67 | Combining intracellular and secreted bioluminescent reporter proteins for multicolor cell-based assays. <i>Photochemical and Photobiological Sciences</i> , 2008, 7, 212. | 2.9 | 31 |
| 68 | Spectral-Resolved Gene Technology for Multiplexed Bioluminescence and High-Content Screening. <i>Analytical Chemistry</i> , 2008, 80, 260-267. | 6.5 | 53 |
| 69 | One-Step Triplex-Polymerase Chain Reaction Assay for the Authentication of Yellowfin (Thunnus) Tj ETQq1 1 0.784314 rgBT /Overlock and Canned Tuna Samples. <i>Journal of Agricultural and Food Chemistry</i> , 2007, 55, 7638-7647. | 5.2 | 36 |
| 70 | Molecular luminescence imaging. <i>Microchemical Journal</i> , 2007, 85, 5-12. | 4.5 | 18 |
| 71 | A Rapid Multiplexed Chemiluminescent Immunoassay for the Detection of Escherichia coli O157:H7, Yersinia enterocolitica, Salmonella typhimurium, and Listeria monocytogenes Pathogen Bacteria. <i>Journal of Agricultural and Food Chemistry</i> , 2007, 55, 4933-4939. | 5.2 | 146 |
| 72 | 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 |

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|----|---|------|-----------|
| 73 | Luminescent Proteins in Binding Assays. , 2006, , 155-178. | | 6 |
| 74 | Ultrasensitive and rapid nanodevices for analytical immunoassays. Analytical and Bioanalytical Chemistry, 2006, 384, 27-30. | 3.7 | 15 |
| 75 | Development and validation of a sensitive and fast chemiluminescent enzyme immunoassay for the detection of genetically modified maize. Analytical and Bioanalytical Chemistry, 2006, 384, 1269-1275. | 3.7 | 49 |
| 76 | Analytical approach for monitoring endocrine-disrupting compounds in urban waste water treatment plants. Analytical and Bioanalytical Chemistry, 2006, 385, 742-752. | 3.7 | 26 |
| 77 | An Innovative, Flow-Assisted, Noncompetitive Chemiluminescent Immunoassay for the Detection of Pathogenic Bacteria,. Clinical Chemistry, 2006, 52, 2151-2155. | 3.2 | 16 |
| 78 | Bioluminescent Biosensors Based on Genetically Engineered Living Cells in Environmental and Food Analysis. Analytical Letters, 2006, 39, 1503-1515. | 1.8 | 9 |
| 79 | Red- and green-emitting firefly luciferase mutants for bioluminescent reporter applications. Analytical Biochemistry, 2005, 345, 140-148. | 2.4 | 172 |
| 80 | Bio- and chemiluminescence imaging in analytical chemistry. Analytica Chimica Acta, 2005, 541, 25-35. | 5.4 | 71 |
| 81 | Field-flow fractionation and biotechnology. Trends in Biotechnology, 2005, 23, 475-483. | 9.3 | 163 |
| 82 | A new recombinant cell-based bioluminescent assay for sensitive androgen-like compound detection. Biosensors and Bioelectronics, 2005, 20, 2261-2267. | 10.1 | 92 |
| 83 | Recombinant Cell-Based Bioluminescence Assay for Androgen Bioactivity Determination in Clinical Samples. Clinical Chemistry, 2005, 51, 1995-1998. | 3.2 | 19 |
| 84 | Bioluminescent yeast assays for detecting estrogenic and androgenic activity in different matrices. Chemosphere, 2005, 61, 259-266. | 8.2 | 112 |
| 85 | Biotechnological applications of bioluminescence and chemiluminescence. Trends in Biotechnology, 2004, 22, 295-303. | 9.3 | 301 |
| 86 | Development of a Bioluminescence Resonance Energy-Transfer Assay for Estrogen-Like Compound in Vivo Monitoring. Analytical Chemistry, 2004, 76, 7069-7076. | 6.5 | 30 |
| 87 | Development of a bioluminescence resonance energy transfer (BRET) for monitoring estrogen receptor alpha activation. , 2004, 5329, 145. | | 0 |
| 88 | Aequorin fusion proteins as bioluminescent tracers for competitive immunoassays. , 2004, 5329, 137. | | 1 |
| 89 | Peer Reviewed: Analytical Bioluminescence and Chemiluminescence. Analytical Chemistry, 2003, 75, 462 A-470 A. | 6.5 | 123 |
| 90 | Internal Response Correction for Fluorescent Whole-Cell Biosensors. Analytical Chemistry, 2002, 74, 5948-5953. | 6.5 | 47 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 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 |