

# Mara Mirasoli

## List of Publications by Year in descending order

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Version: 2024-02-01

80  
papers

3,159  
citations

136950

32  
h-index

155660

55  
g-index

81  
all docs

81  
docs citations

81  
times ranked

3789  
citing authors

#	ARTICLE	IF	CITATIONS
1	Biotechnological applications of bioluminescence and chemiluminescence. Trends in Biotechnology, 2004, 22, 295-303.	9.3	301
2	Progress in chemical luminescence-based biosensors: A critical review. Biosensors and Bioelectronics, 2016, 76, 164-179.	10.1	180
3	Field-flow fractionation in bioanalysis: A review of recent trends. Analytica Chimica Acta, 2009, 635, 132-143.	5.4	160
4	Bioluminescence in analytical chemistry and in vivo imaging. TrAC - Trends in Analytical Chemistry, 2009, 28, 307-322.	11.4	146
5	Recent advancements in chemical luminescence-based lab-on-chip and microfluidic platforms for bioanalysis. Journal of Pharmaceutical and Biomedical Analysis, 2014, 87, 36-52.	2.8	137
6	Peer Reviewed: Analytical Bioluminescence and Chemiluminescence. Analytical Chemistry, 2003, 75, 462 A-470 A.	6.5	123
7	Recent developments in rapid multiplexed bioanalytical methods for foodborne pathogenic bacteria detection. Mikrochimica Acta, 2012, 178, 7-28.	5.0	98
8	Bioluminescence and chemiluminescence in drug screening. Analytical and Bioanalytical Chemistry, 2003, 377, 826-833.	3.7	97
9	Development and Validation of an Ultrasensitive Chemiluminescent Enzyme Immunoassay for Aflatoxin M1 in Milk. Journal of Agricultural and Food Chemistry, 2005, 53, 3300-3305.	5.2	92
10	Smartphone-based enzymatic biosensor for oral fluid L-lactate detection in one minute using confined multilayer paper reflectometry. Biosensors and Bioelectronics, 2017, 94, 124-130.	10.1	91
11	Portable Device Based on Chemiluminescence Lensless Imaging for Personalized Diagnostics through Multiplex Bioanalysis. Analytical Chemistry, 2011, 83, 3178-3185.	6.5	79
12	Bio- and chemiluminescence imaging in analytical chemistry. Analytica Chimica Acta, 2005, 541, 25-35.	5.4	71
13	A multiplex chemiluminescent biosensor for type B-fumonisin and aflatoxin B1 quantitative detection in maize flour. Analyst, The, 2015, 140, 358-365.	3.5	71
14	Chemiluminescence-based biosensor for fumonisins quantitative detection in maize samples. Biosensors and Bioelectronics, 2012, 32, 283-287.	10.1	69
15	Chemiluminescent detection systems of horseradish peroxidase employing nucleophilic acylation catalysts. Analytical Biochemistry, 2008, 377, 189-194.	2.4	66
16	Nanobioanalytical luminescence: Förster-type energy transfer methods. Analytical and Bioanalytical Chemistry, 2009, 393, 109-123.	3.7	64
17	Development of a chemiluminescence-based quantitative lateral flow immunoassay for on-field detection of 2,4,6-trinitrotoluene. Analytica Chimica Acta, 2012, 721, 167-172.	5.4	62
18	Advanced biosensors for monitoring astronauts' health during long-duration space missions. Biosensors and Bioelectronics, 2018, 111, 18-26.	10.1	56

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19	A rapid and sensitive 384-well microtitre format chemiluminescent enzyme immunoassay for 19-nortestosterone. <i>Luminescence</i> , 2003, 18, 72-78.	2.9	52
20	Transparent Carbon Nanotube Network for Efficient Electrochemiluminescence Devices. <i>Chemistry - A European Journal</i> , 2015, 21, 12640-12645.	3.3	50
21	Internal Response Correction for Fluorescent Whole-Cell Biosensors. <i>Analytical Chemistry</i> , 2002, 74, 5948-5953.	6.5	47
22	Chemiluminescence lateral flow immunoassay cartridge with integrated amorphous silicon photosensors array for human serum albumin detection in urine samples. <i>Analytical and Bioanalytical Chemistry</i> , 2016, 408, 8869-8879.	3.7	46
23	Bioluminescence Immunoassay for Cortisol Using Recombinant Aequorin as a Label. <i>Analytical Biochemistry</i> , 2002, 306, 204-211.	2.4	42
24	Portable chemiluminescence multiplex biosensor for quantitative detection of three B19 DNA genotypes. <i>Analytical and Bioanalytical Chemistry</i> , 2013, 405, 1139-1143.	3.7	41
25	Chemiluminescence-based biosensor for monitoring astronauts' health status during space missions: Results from the International Space Station. <i>Biosensors and Bioelectronics</i> , 2019, 129, 260-268.	10.1	41
26	Electronic nose and chiral-capillary electrophoresis in evaluation of the quality changes in commercial green tea leaves during a long-term storage. <i>Talanta</i> , 2014, 129, 32-38.	5.5	40
27	Smartphone biosensor for point-of-need chemiluminescence detection of ochratoxin A in wine and coffee. <i>Analytica Chimica Acta</i> , 2021, 1163, 338515.	5.4	40
28	Recent Advancements in Enzyme-Based Lateral Flow Immunoassays. <i>Sensors</i> , 2021, 21, 3358.	3.8	39
29	Microfluidic Chip With Integrated a-Si:H Photodiodes for Chemiluminescence-Based Bioassays. <i>IEEE Sensors Journal</i> , 2013, 13, 2595-2602.	4.7	38
30	A simple smartphone-based thermochemiluminescent immunosensor for valproic acid detection using 1,2-dioxetane analogue-doped nanoparticles as a label. <i>Sensors and Actuators B: Chemical</i> , 2019, 279, 327-333.	7.8	37
31	Ultrasensitive Quantitative Determination of Paraquat: Application to River, Ground, and Drinking Water Analysis in an Agricultural Area. <i>Journal of Agricultural and Food Chemistry</i> , 2005, 53, 216-219.	5.2	35
32	Multiwell cartridge with integrated array of amorphous silicon photosensors for chemiluminescence detection: development, characterization and comparison with cooled-CCD luminograph. <i>Analytical and Bioanalytical Chemistry</i> , 2014, 406, 5645-5656.	3.7	34
33	A challenge in biosensors: Is it better to measure a photon or an electron for ultrasensitive detection?. <i>Biosensors and Bioelectronics</i> , 2020, 155, 112093.	10.1	33
34	Integrated chemiluminescence-based lab-on-chip for detection of life markers in extraterrestrial environments. <i>Biosensors and Bioelectronics</i> , 2019, 123, 195-203.	10.1	31
35	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
36	Synthesis of 1,2-dioxetanes as Thermochemiluminescent Labels for Ultrasensitive Bioassays: Rational Prediction of Olefin Photooxygenation Outcome by Using a Chemometric Approach. <i>Chemistry - A European Journal</i> , 2016, 22, 18156-18168.	3.3	30

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37	Paper-based smartphone chemosensor for reflectometric on-site total polyphenols quantification in olive oil. <i>Sensors and Actuators B: Chemical</i> , 2020, 305, 127522.	7.8	30
38	Dioxetane-Doped Silica Nanoparticles as Ultrasensitive Reagentless Thermochemiluminescent Labels for Bioanalytics. <i>Analytical Chemistry</i> , 2012, 84, 9913-9919.	6.5	27
39	Organically modified silica nanoparticles doped with new acridine-1,2-dioxetane analogues as thermochemiluminescence reagentless labels for ultrasensitive immunoassays. <i>Analytical and Bioanalytical Chemistry</i> , 2015, 407, 1567-1576.	3.7	27
40	Field detection capability of immunochemical assays during criminal investigations involving the use of TNT. <i>Forensic Science International</i> , 2015, 246, 25-30.	2.2	27
41	SENSITIVE DETERMINATION OF URINARY MERCURY(II) BY A BIOLUMINESCENT TRANSGENIC BACTERIA-BASED BIOSENSOR. <i>Analytical Letters</i> , 2001, 34, 29-41.	1.8	26
42	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
43	PNA-based probe for quantitative chemiluminescent in situ hybridisation imaging of cellular parvovirus B19 replication kinetics. <i>Analyst</i> , 2007, 132, 519.	3.5	25
44	Microtiter Format for Simultaneous Multianalyte Detection and Development of a PCR-Chemiluminescent Enzyme Immunoassay for Typing Human Papillomavirus DNAs. <i>Clinical Chemistry</i> , 2002, 48, 1654-1660.	3.2	24
45	Preparation and Characterization of Thermochemiluminescent Acridine-Containing 1,2-Dioxetanes as Promising Ultrasensitive Labels in Bioanalysis. <i>Journal of Organic Chemistry</i> , 2013, 78, 11238-11246.	3.2	24
46	Paper-Based Immunosensors with Bio-Chemiluminescence Detection. <i>Sensors</i> , 2021, 21, 4309.	3.8	23
47	Miniaturized Biosensors to Preserve and Monitor Cultural Heritage: from Medical to Conservation Diagnosis. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 7385-7389.	13.8	22
48	Smartphone-Based Chemiluminescent Origami $\mu$ PAD for the Rapid Assessment of Glucose Blood Levels. <i>Biosensors</i> , 2021, 11, 381.	4.7	21
49	Analytical bioluminescence and chemiluminescence. <i>Analytical and Bioanalytical Chemistry</i> , 2014, 406, 5529-5530.	3.7	18
50	Advanced bioanalytics for precision medicine. <i>Analytical and Bioanalytical Chemistry</i> , 2018, 410, 669-677.	3.7	14
51	Toward Multianalyte Immunoassays: A Flow-Assisted, Solid-Phase Format with Chemiluminescence Detection. <i>Clinical Chemistry</i> , 2005, 51, 1993-1995.	3.2	13
52	Thermochemiluminescent semiconducting polymer dots as sensitive nanoprobe for reagentless immunoassay. <i>Nanoscale</i> , 2018, 10, 14012-14021.	5.6	13
53	A Smartphone-Based Chemosensor to Evaluate Antioxidants in Agri-Food Matrices by In Situ AuNP Formation. <i>Sensors</i> , 2021, 21, 5432.	3.8	13
54	Effect of <i>Lactobacillus acidophilus</i> Fermented Broths Enriched with <i>Eruca sativa</i> Seed Extracts on Intestinal Barrier and Inflammation in a Co-Culture System of an Enterohemorrhagic <i>Escherichia coli</i> and Human Intestinal Cells. <i>Nutrients</i> , 2020, 12, 3064.	4.1	12

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55	Miniaturized Biosensors to Preserve and Monitor Cultural Heritage: from Medical to Conservation Diagnosis. <i>Angewandte Chemie</i> , 2018, 130, 7507-7511.	2.0	11
56	Bioluminescence resonance energy transfer from aequorin to a fluorophore: an artificial jellyfish for applications in multianalyte detection. <i>Analytical and Bioanalytical Chemistry</i> , 2005, 381, 1387-1394.	3.7	10
57	Non-invasive panel tests for gastrointestinal motility monitoring within the MARS-500 Project. <i>World Journal of Gastroenterology</i> , 2013, 19, 2208.	3.3	10
58	A portable device for on site detection of chicken ovalbumin in artworks by chemiluminescent immunochemical contact imaging. <i>Microchemical Journal</i> , 2016, 124, 247-255.	4.5	9
59	Single-cell chemiluminescence imaging of parvovirus B19 life cycle. <i>Virus Research</i> , 2013, 178, 517-521.	2.2	8
60	Bioluminescence goes portable: recent advances in whole-cell and cell-free bioluminescence biosensors. <i>Luminescence</i> , 2021, 36, 278-293.	2.9	7
61	Luminescent Proteins in Binding Assays. , 2006, , 155-178.		6
62	Hybrid gravitational field-flow fractionation using immunofunctionalized walls for integrated bioanalytical devices. <i>Analytical and Bioanalytical Chemistry</i> , 2009, 394, 953-961.	3.7	6
63	A new analytical platform based on field-flow fractionation and olfactory sensor to improve the detection of viable and non-viable bacteria in food. <i>Analytical and Bioanalytical Chemistry</i> , 2016, 408, 7367-7377.	3.7	6
64	High-throughput polymerase chain reaction chemiluminescent enzyme immunoassay for typing and quantifying human papillomavirus DNAs. <i>Analytical Biochemistry</i> , 2004, 332, 349-357.	2.4	5
65	Efficacy of a titanium dioxide nanoparticles based indoor anti-odor product as assessed by electronic nose and gas chromatography-mass spectrometry. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2017, 144, 236-241.	2.8	4
66	In-Parallel Polar Monitoring of Chemiluminescence Emission Anisotropy at the Solid-Liquid Interface by an Optical Fiber Radial Array. <i>Chemosensors</i> , 2020, 8, 18.	3.6	4
67	Immunological Analytical Techniques for Cosmetics Quality Control and Process Monitoring. <i>Processes</i> , 2021, 9, 1982.	2.8	4
68	Chemiluminescent Quantitative Immunohistochemical p16INK4A Localization as a Marker for Cervical Intraepithelial Neoplasias. <i>International Journal of Gynecological Pathology</i> , 2008, 27, 575-581.	1.4	3
69	Development of chemiluminescent assays for the quantitative detection and imaging of 5-bromo-2-deoxyuridine-labeled DNA in parvovirus B19-infected cells. <i>Analytical and Bioanalytical Chemistry</i> , 2013, 405, 941-949.	3.7	2
70	Immunochemical Micro Imaging Analyses for the Detection of Proteins in Artworks. <i>Topics in Current Chemistry</i> , 2016, 374, 32.	5.8	2
71	Thermochemiluminescence-Based Sensitive Probes: Synthesis and Photophysical Characterization of Acridine-Containing 1,2-Dioxetanes Focusing on Fluorophore Push-Pull Effects. <i>ChemPhotoChem</i> , 2022, 6, .	3.0	2
72	Aequorin fusion proteins as bioluminescent tracers for competitive immunoassays. , 2004, 5329, 137.		1

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73	A new point-of-care portable immunosensor for non-invasive assessment of oro-ileal transit time by oral fluid tauroursodeoxycholate measurement after its oral load. Journal of Pharmaceutical and Biomedical Analysis, 2013, 81-82, 1-7.	2.8	1
74	Performances of amorphous silicon photodiodes integrated in chemiluminescence based $\hat{1}/4$ -TAS. Proceedings of SPIE, 2013, , .	0.8	1
75	Integration of Amorphous Silicon Balanced Photodiodes and Thin Film Heaters for Biosensing Application. Procedia Engineering, 2016, 168, 1434-1437.	1.2	1
76	Integrated System Based on Thin Film Technologies for Cell-Based Bioluminescence Assays. Proceedings (mdpi), 2017, 1, .	0.2	1
77	Chapter 6. Flow-assisted Analysis. , 2010, , 191-226.		1
78	Development of a bioluminescence resonance energy transfer (BRET) for monitoring estrogen receptor alpha activation. , 2004, 5329, 145.		0
79	Point-of-care Parvovirus B19 detection and genotyping based on microfluidics and chemiluminescence &#x201C;contact&#x201D; imaging detection. , 2011, , .		0
80	Chemiluminescence in Biomedicine. Lecture Notes in Quantum Chemistry II, 2016, , 427-458.	0.3	0