

Massimo Guardigli

List of Publications by Year in descending order

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78
papers

5,669
citations

94433

37
h-index

91884

69
g-index

81
all docs

81
docs citations

81
times ranked

5924
citing authors

#	ARTICLE	IF	CITATIONS
1	Bioluminescence goes portable: recent advances in whole-cell and cell-free bioluminescence biosensors. <i>Luminescence</i> , 2021, 36, 278-293.	2.9	7
2	Recent Advancements in Enzyme-Based Lateral Flow Immunoassays. <i>Sensors</i> , 2021, 21, 3358.	3.8	39
3	Paper-Based Immunosensors with Bio-Chemiluminescence Detection. <i>Sensors</i> , 2021, 21, 4309.	3.8	23
4	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
5	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
6	Smartphone-Based Chemiluminescent Origami μ PAD for the Rapid Assessment of Glucose Blood Levels. <i>Biosensors</i> , 2021, 11, 381.	4.7	21
7	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
8	Multienzyme chemiluminescent foldable biosensor for on-site detection of acetylcholinesterase inhibitors. <i>Biosensors and Bioelectronics</i> , 2020, 162, 112232.	10.1	75
9	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
10	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
11	Miniaturized Biosensors to Preserve and Monitor Cultural Heritage: from Medical to Conservation Diagnosis. <i>Angewandte Chemie</i> , 2018, 130, 7507-7511.	2.0	11
12	Advanced biosensors for monitoring astronauts' health during long-duration space missions. <i>Biosensors and Bioelectronics</i> , 2018, 111, 18-26.	10.1	56
13	Advanced bioanalytics for precision medicine. <i>Analytical and Bioanalytical Chemistry</i> , 2018, 410, 669-677.	3.7	14
14	Thermochemiluminescent semiconducting polymer dots as sensitive nanoprobe for reagentless immunoassay. <i>Nanoscale</i> , 2018, 10, 14012-14021.	5.6	13
15	Immunochemical Micro Imaging Analyses for the Detection of Proteins in Artworks. <i>Topics in Current Chemistry Collections</i> , 2017, , 213-240.	0.5	0
16	Immunochemical Micro Imaging Analyses for the Detection of Proteins in Artworks. <i>Topics in Current Chemistry</i> , 2016, 374, 32.	5.8	2
17	Chemiluminescence in Biomedicine. <i>Lecture Notes in Quantum Chemistry II</i> , 2016, , 427-458.	0.3	0
18	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

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19	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
20	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
21	Highly Fluorescent and Water-Soluble Diketopyrrolopyrrole Dyes for Bioconjugation. <i>Angewandte Chemie</i> , 2015, 127, 3038-3042.	2.0	17
22	Highly Fluorescent and Water-Soluble Diketopyrrolopyrrole Dyes for Bioconjugation. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 2995-2999.	13.8	54
23	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
24	Indocyanine green retention test as a noninvasive marker of portal hypertension and esophageal varices in compensated liver cirrhosis. <i>Hepatology</i> , 2014, 59, 643-650.	7.3	91
25	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
26	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
27	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
28	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
29	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
30	Dioxetane-Doped Silica Nanoparticles as Ultrasensitive Reagentless Thermochemiluminescent Labels for Bioanalytics. <i>Analytical Chemistry</i> , 2012, 84, 9913-9919.	6.5	27
31	Development of a chemiluminescence-based quantitative lateral flow immunoassay for on-field detection of 2,4,6-trinitrotoluene. <i>Analytica Chimica Acta</i> , 2012, 721, 167-172.	5.4	62
32	Analytical chemiluminescence and bioluminescence: latest achievements and new horizons. <i>Analytical and Bioanalytical Chemistry</i> , 2012, 402, 69-76.	3.7	212
33	Portable Device Based on Chemiluminescence Lensless Imaging for Personalized Diagnostics through Multiplex Bioanalysis. <i>Analytical Chemistry</i> , 2011, 83, 3178-3185.	6.5	79
34	Development of a multiplexed chemiluminescent immunochemical imaging technique for the simultaneous localization of different proteins in painting micro cross-sections. <i>Analytical and Bioanalytical Chemistry</i> , 2011, 399, 2889-2897.	3.7	36
35	Point-of-care Parvovirus B19 detection and genotyping based on microfluidics and chemiluminescence contact imaging detection. , 2011, , .		0
36	Recent Analytical Application Areas of Chemiluminescence and Bioluminescence. , 2010, , 557-573.		0

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37	Classical Applications of Chemiluminescence and Bioluminescence. , 2010, , 141-190.		3
38	Ultrasensitive Bioanalytical Imaging. , 2010, , 398-424.		0
39	Nanobioanalytical luminescence: Förster-type energy transfer methods. Analytical and Bioanalytical Chemistry, 2009, 393, 109-123.	3.7	64
40	Bioluminescence in analytical chemistry and in vivo imaging. TrAC - Trends in Analytical Chemistry, 2009, 28, 307-322.	11.4	146
41	Ultrasensitive chemiluminescent immunochemical identification and localization of protein components in painting cross-sections by microscope low-light imaging. Analytical and Bioanalytical Chemistry, 2008, 392, 29-35.	3.7	40
42	Lanthanide Complexes of Encapsulating Ligands as Luminescent Devices. Advances in Photochemistry, 2007, , 213-278.	0.4	8
43	A Rapid Multiplexed Chemiluminescent Immunoassay for the Detection of Escherichia coli O157:H7, Yersinia enterocolitica, Salmonella typhimurium, and Listeria monocytogenes Pathogen Bacteria. Journal of Agricultural and Food Chemistry, 2007, 55, 4933-4939.	5.2	146
44	Combined Approach to the Analysis of Recombinant Protein Drugs Using Hollow-Fiber Flow Field-Flow Fractionation, Mass Spectrometry, and Chemiluminescence Detection. Analytical Chemistry, 2006, 78, 1085-1092.	6.5	29
45	Luminescent Proteins in Binding Assays. , 2006, , 155-178.		6
46	Ultrasensitive and rapid nanodevices for analytical immunoassays. Analytical and Bioanalytical Chemistry, 2006, 384, 27-30.	3.7	15
47	Analytical approach for monitoring endocrine-disrupting compounds in urban waste water treatment plants. Analytical and Bioanalytical Chemistry, 2006, 385, 742-752.	3.7	26
48	Production of reactive oxygen species and expression of inducible nitric oxide synthase in rat isolated Kupffer cells stimulated by Leptospira interrogans and Borrelia burgdorferi. World Journal of Gastroenterology, 2006, 12, 3077.	3.3	24
49	Bio- and chemiluminescence imaging in analytical chemistry. Analytica Chimica Acta, 2005, 541, 25-35.	5.4	71
50	Synthesis and chemiluminescent high throughput screening for inhibition of acetylcholinesterase activity by imidazo[2,1-b]thiazole derivatives. European Journal of Medicinal Chemistry, 2005, 40, 1331-1334.	5.5	13
51	N-Benzyl-2-chloroindole-3-carboxylic Acids as Potential Antiinflammatory Agents. Synthesis and Screening for the Effects on Human Neutrophil Functions and on COX1/COX2 Activity.. ChemInform, 2005, 36, no.	0.0	0
52	Chemiluminescence Quantitative Immunohistochemical Determination of MRP2 in Liver Biopsies. Journal of Histochemistry and Cytochemistry, 2005, 53, 1451-1457.	2.5	17
53	Biotechnological applications of bioluminescence and chemiluminescence. Trends in Biotechnology, 2004, 22, 295-303.	9.3	301
54	N-Benzyl-2-chloroindole-3-carboxylic acids as potential anti-inflammatory agents. Synthesis and screening for the effects on human neutrophil functions and on COX1/COX2 activity. European Journal of Medicinal Chemistry, 2004, 39, 785-791.	5.5	11

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55	Engineering of Highly Luminescent Lanthanide Tags Suitable for Protein Labeling and Time-Resolved Luminescence Imaging. <i>Journal of the American Chemical Society</i> , 2004, 126, 4888-4896.	13.7	282
56	Bioluminescence and chemiluminescence in drug screening. <i>Analytical and Bioanalytical Chemistry</i> , 2003, 377, 826-833.	3.7	97
57	Phagocytosis of <i>Treponema pallidum</i> and reactive oxygen species production by isolated rat Kupffer cells. <i>Medical Microbiology and Immunology</i> , 2003, 192, 183-188.	4.8	8
58	Peer Reviewed: Analytical Bioluminescence and Chemiluminescence. <i>Analytical Chemistry</i> , 2003, 75, 462 A-470 A.	6.5	123
59	p-tert-Butylcalix[4]arene Functionalised with Bipyridyl Carboxylates for Lanthanide Complexation: Synthesis, Photophysical Properties, Solution and Solid State Behavior. <i>Supramolecular Chemistry</i> , 2003, 15, 277-289.	1.2	22
60	Lanthanide Tags for Time-Resolved Luminescence Microscopy Displaying Improved Stability and Optical Properties. <i>Journal of the American Chemical Society</i> , 2001, 123, 2436-2437.	13.7	172
61	Synthesis and Screening for Antiacetylcholinesterase Activity of (1-Benzyl-4-oxopiperidin-3-ylidene)methylindoles and -pyrroles Related to Donepezil. <i>Journal of Medicinal Chemistry</i> , 2001, 44, 4011-4014.	6.4	63
62	SENSITIVE DETERMINATION OF URINARY MERCURY(II) BY A BIOLUMINESCENT TRANSGENIC BACTERIA-BASED BIOSENSOR. <i>Analytical Letters</i> , 2001, 34, 29-41.	1.8	26
63	Luminescent Probes. , 2001, , 583-597.		2
64	Applications of Bioluminescent and Chemiluminescent Imaging in Analytical Biotechnology. , 2001, , 481-501.		2
65	2,2'-Bipyridine Lariat Calixcrowns: A New Class of Encapsulating Ligands Forming Highly Luminescent Eu ³⁺ and Tb ³⁺ Complexes. <i>Chemistry - A European Journal</i> , 2000, 6, 1026-1034.	3.3	42
66	A Study on Delocalization of MLCT Excited States by Rigid Bridging Ligands in Homometallic Dinuclear Complexes of Ruthenium(II). <i>Journal of Physical Chemistry A</i> , 1997, 101, 9061-9069.	2.5	146
67	Calix[4]Arene Podands and Barrelands Incorporating 2,2'-Bipyridine Moieties and Their Lanthanide Complexes: Luminescence Properties. <i>Chemistry - A European Journal</i> , 1997, 3, 1815-1822.	3.3	52
68	Energy Transfer in Rigid Ru(II)/Os(II) Dinuclear Complexes with Biscyclometalating Bridging Ligands Containing a Variable Number of Phenylene Units. <i>Inorganic Chemistry</i> , 1996, 35, 136-142.	4.0	154
69	Modulation of the luminescence properties of a ruthenium ^{II} terpyridine complex by protonation of a remote site. <i>Chemical Communications</i> , 1996, , 1329-1330.	4.1	38
70	Chapter 154 Antenna effect in encapsulation complexes of lanthanide ions. <i>Fundamental Theories of Physics</i> , 1996, 23, 69-119.	0.3	46
71	Lanthanide complexes of encapsulating ligands: Luminescent devices at the molecular level. <i>Pure and Applied Chemistry</i> , 1995, 67, 135-140.	1.9	118
72	Synthesis, Electrochemical Behavior, and Spectroscopic and Luminescence Properties of Dinuclear Species Containing [Ru(diimine) ₃] ²⁺ and [Re(diimine)Cl(CO) ₃] Chromophores Bridged by a Nonsymmetric Quaterpyridine Ligand. <i>Inorganic Chemistry</i> , 1995, 34, 2438-2446.	4.0	81

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73	Luminescent Eu ³⁺ and Tb ³⁺ Complexes of a Branched Macrocyclic Ligand Incorporating 2,2'-Bipyridine in the Macrocycle and Phosphinate Esters in the Side Arms. <i>Angewandte Chemie International Edition in English</i> , 1994, 33, 1501-1503.	4.4	43
74	Synthesis and Luminescence of Lanthanide Complexes of a Branched Macrocyclic Ligand Containing 2,2'-Bipyridine and 9-Methyl-1,10-phenanthroline Subunits. <i>Inorganic Chemistry</i> , 1994, 33, 955-959.	4.0	51
75	Lumineszierende Eu ³⁺ und Tb ³⁺ Komplexe eines verzweigten makrocyclischen Liganden mit 2,2'-Bipyridineinheiten im Makrocyclus und Phosphinsäureestereinheiten in den Seitengruppen. <i>Angewandte Chemie</i> , 1994, 106, 1543-1546.	2.0	4
76	Luminescent lanthanide complexes as photochemical supramolecular devices. <i>Coordination Chemistry Reviews</i> , 1993, 123, 201-228.	18.8	1,597
77	Luminescence of lanthanide cryptates: effects of phosphate and iodide anions. <i>Journal of Alloys and Compounds</i> , 1992, 180, 363-367.	5.5	21
78	Encapsulation of lanthanide ions in calixarene receptors. A strongly luminescent terbium(3+) complex. <i>Journal of the Chemical Society Chemical Communications</i> , 1990, , 878.	2.0	106