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	Luminescent lanthanide complexes as photochemical supramolecular devices. Coordination Chemistry Reviews, 1993, 123, 201-228.	18.8	1,597
2	Biotechnological applications of bioluminescence and chemiluminescence. Trends in Biotechnology, 2004, 22, 295-303.	9.3	301
3	Engineering of Highly Luminescent Lanthanide Tags Suitable for Protein Labeling and Time-Resolved Luminescence Imaging. Journal of the American Chemical Society, 2004, 126, 4888-4896.	13.7	282
4	Analytical chemiluminescence and bioluminescence: latest achievements and new horizons. Analytical and Bioanalytical Chemistry, 2012, 402, 69-76.	3.7	212
5	Lanthanide Tags for Time-Resolved Luminescence Microscopy Displaying Improved Stability and Optical Properties. Journal of the American Chemical Society, 2001, 123, 2436-2437.	13.7	172
6	A 3D-printed device for a smartphone-based chemiluminescence biosensor for lactate in oral fluid and sweat. Analyst, The, 2014, 139, 6494-6501.	3.5	163
7	Energy Transfer in Rigid Ru(II)/Os(II) Dinuclear Complexes with Biscyclometalating Bridging Ligands Containing a Variable Number of Phenylene Units. Inorganic Chemistry, 1996, 35, 136-142.	4.0	154
8	A Study on Delocalization of MLCT Excited States by Rigid Bridging Ligands in Homometallic Dinuclear Complexes of Ruthenium(II). Journal of Physical Chemistry A, 1997, 101, 9061-9069.	2.5	146
9	A Rapid Multiplexed Chemiluminescent Immunoassay for the Detection ofEscherichia coliO157:H7,Yersinia enterocolitica, Salmonellatyphimurium, andListeria monocytogenesPathogen Bacteria. Journal of Agricultural and Food Chemistry, 2007, 55, 4933-4939.	5.2	146
10	Bioluminescence in analytical chemistry and in vivo imaging. TrAC - Trends in Analytical Chemistry, 2009, 28, 307-322.	11.4	146
11	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
12	Peer Reviewed: Analytical Bioluminescence and Chemiluminescence. Analytical Chemistry, 2003, 75, 462 A-470 A.	6.5	123
13	Lanthanide complexes of encapsulating ligands: Luminescent devices at the molecular level. Pure and Applied Chemistry, 1995, 67, 135-140.	1.9	118
14	Encapsulation of lanthanide ions in calixarene receptors. A strongly luminescent terbium(3+) complex. Journal of the Chemical Society Chemical Communications, 1990, , 878.	2.0	106
15	Bioluminescence and chemiluminescence in drug screening. Analytical and Bioanalytical Chemistry, 2003, 377, 826-833.	3.7	97
16	Indocyanine green retention test as a noninvasive marker of portal hypertension and esophageal varices in compensated liver cirrhosis. Hepatology, 2014, 59, 643-650.	7.3	91
17	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. Inorganic Chemistry, 1995, 34, 2438-2446.	4.0	81
18	Portable Device Based on Chemiluminescence Lensless Imaging for Personalized Diagnostics through Multiplex Bioanalysis. Analytical Chemistry, 2011, 83, 3178-3185.	6.5	79

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19	Multienzyme chemiluminescent foldable biosensor for on-site detection of acetylcholinesterase inhibitors. Biosensors and Bioelectronics, 2020, 162, 112232.	10.1	75
20	Bio- and chemiluminescence imaging in analytical chemistry. Analytica Chimica Acta, 2005, 541, 25-35.	5.4	71
21	Nanobioanalytical luminescence: FÃ¶rster-type energy transfer methods. Analytical and Bioanalytical Chemistry, 2009, 393, 109-123.	3.7	64
22	Synthesis and Screening for Antiacetylcholinesterase Activity of (1-Benzyl-4-oxopiperidin-3-ylidene)methylindoles and -pyrroles Related to Donepezil. Journal of Medicinal Chemistry, 2001, 44, 4011-4014.	6.4	63
23	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
24	Advanced biosensors for monitoring astronautsâ€™ health during long-duration space missions. Biosensors and Bioelectronics, 2018, 111, 18-26.	10.1	56
25	Highly Fluorescent and Waterâ€Soluble Diketopyrrolopyrrole Dyes for Bioconjugation. Angewandte Chemie - International Edition, 2015, 54, 2995-2999.	13.8	54
26	Calix[4]Arene Podands and Barrelands Incorporating 2,2â€³â€Bipyridine Moieties and Their Lanthanide Complexes: Luminescence Properties. Chemistry - A European Journal, 1997, 3, 1815-1822.	3.3	52
27	Synthesis and Luminescence of Lanthanide Complexes of a Branched Macrocyclic Ligand Containing 2,2'-Bipyridine and 9-Methyl-1,10-phenanthroline Subunits. Inorganic Chemistry, 1994, 33, 955-959.	4.0	51
28	Chapter 154 Antenna effect in encapsulation complexes of lanthanide ions. Fundamental Theories of Physics, 1996, 23, 69-119.	0.3	46
29	Chemiluminescence lateral flow immunoassay cartridge with integrated amorphous silicon photosensors array for human serum albumin detection in urine samples. Analytical and Bioanalytical Chemistry, 2016, 408, 8869-8879.	3.7	46
30	Luminescent Eu3+ and Tb3+ Complexes of a Branched Macrocyclic Ligand Incorporating 2,2â€²-Bipyridine in the Macrocycle and Phosphinate Esters in the Side Arms. Angewandte Chemie International Edition in English, 1994, 33, 1501-1503.	4.4	43
31	2,2â€²-Bipyridine Lariat Calixcrowns: A New Class of Encapsulating Ligands Forming Highly Luminescent Eu3+ and Tb3+ Complexes. Chemistry - A European Journal, 2000, 6, 1026-1034.	3.3	42
32	Chemiluminescence-based biosensor for monitoring astronautsâ€™ health status during space missions: Results from the International Space Station. Biosensors and Bioelectronics, 2019, 129, 260-268.	10.1	41
33	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
34	Smartphone biosensor for point-of-need chemiluminescence detection of ochratoxin A in wine and coffee. Analytica Chimica Acta, 2021, 1163, 338515.	5.4	40
35	Recent Advancements in Enzyme-Based Lateral Flow Immunoassays. Sensors, 2021, 21, 3358.	3.8	39
36	Modulation of the luminescence properties of a rutheniumâ€“terpyridine complex by protonation of a remote site. Chemical Communications, 1996, , 1329-1330.	4.1	38

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37	Development of a multiplexed chemiluminescent immunochemical imaging technique for the simultaneous localization of different proteins in painting micro cross-sections. Analytical and Bioanalytical Chemistry, 2011, 399, 2889-2897.	3.7	36
38	Synthesis of 1,2â€Dioxetanes as Thermochemiluminescent Labels for Ultrasensitive Bioassays: Rational Prediction of Olefin Photooxygenation Outcome by Using a Chemometric Approach. Chemistry - A European Journal, 2016, 22, 18156-18168.	3.3	30
39	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
40	Dioxetane-Doped Silica Nanoparticles as Ultrasensitive Reagentless Thermochemiluminescent Labels for Bioanalytics. Analytical Chemistry, 2012, 84, 9913-9919.	6.5	27
41	Organically modified silica nanoparticles doped with new acridine-1,2-dioxetane analogues as thermochemiluminescence reagentless labels for ultrasensitive immunoassays. Analytical and Bioanalytical Chemistry, 2015, 407, 1567-1576.	3.7	27
42	SENSITIVE DETERMINATION OF URINARY MERCURY(II) BY A BIOLUMINESCENT TRANSGENIC BACTERIA-BASED BIOSENSOR. Analytical Letters, 2001, 34, 29-41.	1.8	26
43	Analytical approach for monitoring endocrine-disrupting compounds in urban waste water treatment plants. Analytical and Bioanalytical Chemistry, 2006, 385, 742-752.	3.7	26
44	Preparation and Characterization of Thermochemiluminescent Acridine-Containing 1,2-Dioxetanes as Promising Ultrasensitive Labels in Bioanalysis. Journal of Organic Chemistry, 2013, 78, 11238-11246.	3.2	24
45	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
46	Paper-Based Immunosensors with Bio-Chemiluminescence Detection. Sensors, 2021, 21, 4309.	3.8	23
47	p-tert-Butylcalix[4]arene Functionalised with Bipyridyl Carboxylates for Lanthanide Complexation: Synthesis, Photophysical Properties, Solution and Solid State Behavior. Supramolecular Chemistry, 2003, 15, 277-289.	1.2	22
48	Miniaturized Biosensors to Preserve and Monitor Cultural Heritage: from Medical to Conservation Diagnosis. Angewandte Chemie - International Edition, 2018, 57, 7385-7389.	13.8	22
49	Luminescence of lanthanide cryptates: effects of phosphate and iodide anions. Journal of Alloys and Compounds, 1992, 180, 363-367.	5.5	21
50	Smartphone-Based Chemiluminescent Origami ÂµPAD for the Rapid Assessment of Glucose Blood Levels. Biosensors, 2021, 11, 381.	4.7	21
51	Chemiluminescence Quantitative Immunohistochemical Determination of MRP2 in Liver Biopsies. Journal of Histochemistry and Cytochemistry, 2005, 53, 1451-1457.	2.5	17
52	Highly Fluorescent and Waterâ€Soluble Diketopyrrolopyrrole Dyes for Bioconjugation. Angewandte Chemie, 2015, 127, 3038-3042.	2.0	17
53	Ultrasensitive and rapid nanodevices for analytical immunoassays. Analytical and Bioanalytical Chemistry, 2006, 384, 27-30.	3.7	15
54	Advanced bioanalytics for precision medicine. Analytical and Bioanalytical Chemistry, 2018, 410, 669-677.	3.7	14

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55	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
56	Thermochemiluminescent semiconducting polymer dots as sensitive nanoprobes for reagentless immunoassay. Nanoscale, 2018, 10, 14012-14021.	5.6	13
57	A Smartphone-Based Chemosensor to Evaluate Antioxidants in Agri-Food Matrices by In Situ AuNP Formation. Sensors, 2021, 21, 5432.	3.8	13
58	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
59	Miniaturized Biosensors to Preserve and Monitor Cultural Heritage: from Medical to Conservation Diagnosis. Angewandte Chemie, 2018, 130, 7507-7511.	2.0	11
60	Dual-color bioluminescent bioreporter for forensic analysis: evidence of androgenic and anti-androgenic activity of illicit drugs. Analytical and Bioanalytical Chemistry, 2013, 405, 1035-1045.	3.7	10
61	Non-invasive panel tests for gastrointestinal motility monitoring within the MARS-500 Project. World Journal of Gastroenterology, 2013, 19, 2208.	3.3	10
62	A portable device for on site detection of chicken ovalbumin in artworks by chemiluminescent immunochemical contact imaging. Microchemical Journal, 2016, 124, 247-255.	4.5	9
63	Phagocytosis of Treponema pallidum and reactive oxygen species production by isolated rat Kupffer cells. Medical Microbiology and Immunology, 2003, 192, 183-188.	4.8	8
64	Lanthanide Complexes of Encapsulating Ligands as Luminescent Devices. Advances in Photochemistry, 2007, , 213-278.	0.4	8
65	Bioluminescence goes portable: recent advances in wholeâ€cell and cellâ€free bioluminescence biosensors. Luminescence, 2021, 36, 278-293.	2.9	7
66	Luminescent Proteins in Binding Assays. , 2006, , 155-178.		6
67	Lumineszierende Eu³⁺ â€•und Tb³⁺ â€Komplexe eines verzweigten makrocyclischen Liganden mit 2,2â€²â€Bipyridineinheiten im Makrocyclus und PhosphinsÃureestereinheiten in den Seitengruppen. Angewandte Chemie, 1994, 106, 1543-1546.	2.0	4
68	In-Parallel Polar Monitoring of Chemiluminescence Emission Anisotropy at the Solidâ€“Liquid Interface by an Optical Fiber Radial Array. Chemosensors, 2020, 8, 18.	3.6	4
69	â€œClassicalâ€•Applications of Chemiluminescence and Bioluminescence. , 2010, , 141-190.		3
70	Luminescent Probes. , 2001, , 583-597.		2
71	Immunochemical Micro Imaging Analyses for the Detection of Proteins in Artworks. Topics in Current Chemistry, 2016, 374, 32.	5.8	2
72	Applications of Bioluminescent and Chemiluminescent Imaging in Analytical Biotechnology. , 2001, , 481-501.		2

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73	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
74	Recent Analytical Application Areas of Chemiluminescence and Bioluminescence. , 2010, , 557-573.		0
75	Ultrasensitive Bioanalytical Imaging. , 2010, , 398-424.		0
76	Point-of-care Parvovirus B19 detection and genotyping based on microfluidics and chemiluminescence “contact” imaging detection. , 2011, , .		0
77	Chemiluminescence in Biomedicine. Lecture Notes in Quantum Chemistry II, 2016, , 427-458.	0.3	0
78	Immunochemical Micro Imaging Analyses for the Detection of Proteins in Artworks. Topics in Current Chemistry Collections, 2017, , 213-240.	0.5	0