Joaquim C G Esteves Da Silva

List of Publications by Year
in descending order

296 papers	8,405 citations	50244 46 h-index	76872 74 g-index
303 all docs	303 docs citations	303 times ranked	8565 citing authors

#	Article	IF	Citations
1	Analytical and bioanalytical applications of carbon dots. TrAC - Trends in Analytical Chemistry, 2011, 30, 1327-1336.	5.8	546
2	Sediments as monitors of heavy metal contamination in the Ave river basin (Portugal): multivariate analysis of data. Environmental Pollution, 1999, 105, 311-323.	3.7	278
3	Hg(II) sensing based on functionalized carbon dots obtained by direct laser ablation. Sensors and Actuators B: Chemical, 2010, 145, 702-707.	4.0	250
4	Optical fiber sensor for Hg(II) based on carbon dots. Biosensors and Bioelectronics, 2010, 26, 1302-1306.	5.3	193
5	Firefly bioluminescence: A mechanistic approach of luciferase catalyzed reactions. IUBMB Life, 2009, 61, 6-17.	1.5	180
6	Anthocyanin profile and antioxidant capacity of black carrots (Daucus carota L. ssp. sativus var.) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 5	1.9	141
7	The degradation products of UV filters in aqueous and chlorinated aqueous solutions. Water Research, 2012, 46, 3167-3176.	5.3	133
8	Photodegradation of avobenzone: Stabilization effect of antioxidants. Journal of Photochemistry and Photobiology B: Biology, 2014, 140, 36-40.	1.7	131
9	Fluorescence quenching of anthropogenic fulvic acids by Cu(II), Fe(III) and UO22+. Talanta, 1998, 45, 1155-1165.	2.9	119
10	Carbon dots as fluorescent sensor for detection of explosive nitrocompounds. Carbon, 2016, 106, 171-178.	5.4	117
11	Carbon dots prepared from citric acid and urea as fluorescent probes for hypochlorite and peroxynitrite. Mikrochimica Acta, 2016, 183, 1769-1777.	2.5	114
12	Synthesis of Fe- and Co-Doped TiO2 with Improved Photocatalytic Activity Under Visible Irradiation Toward Carbamazepine Degradation. Materials, 2019, 12, 3874.	1.3	93
13	Luminescent carbon nanoparticles: effects of chemical functionalization, and evaluation of Ag+ sensing properties. Journal of Materials Chemistry A, 2014, 2, 8342.	5.2	92
14	Firefly luciferase inhibition. Journal of Photochemistry and Photobiology B: Biology, 2010, 101, 1-8.	1.7	89
15	Carbon dots obtained using hydrothermal treatment of formaldehyde. Cell imaging in vitro. Nanoscale, 2014, 6, 9071-9077.	2.8	79
16	Chemiluminescence and Bioluminescence as an Excitation Source in the Photodynamic Therapy of Cancer: A Critical Review. ChemPhysChem, 2016, 17, 2286-2294.	1.0	79
17	Computational Studies of the Luciferase Light-Emitting Product: Oxyluciferin. Journal of Chemical Theory and Computation, 2011, 7, 809-817.	2.3	78
18	A review on advanced oxidation processes: From classical to new perspectives coupled to two- and multi-way calibration strategies to monitor degradation of contaminants in environmental samples. Trends in Environmental Analytical Chemistry, 2019, 24, e00072.	5.3	77

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19	Evaluation of the Pesticide Contamination of Groundwater Sampled over Two Years from a Vulnerable Zone in Portugal. Journal of Agricultural and Food Chemistry, 2007, 55, 6227-6235.	2.4	76
20	Kinetics of inhibition of firefly luciferase by oxyluciferin and dehydroluciferyl-adenylate. Photochemical and Photobiological Sciences, 2008, 7, 1085-1090.	1.6	76
21	Fluorescent Carbon Dots Capped with PEG200 and Mercaptosuccinic Acid. Journal of Fluorescence, 2010, 20, 1023-1028.	1.3	76
22	Advances in the knowledge of light emission by firefly luciferin and oxyluciferin. Journal of Photochemistry and Photobiology B: Biology, 2012, 117, 33-39.	1.7	73
23	Coenzyme A affects firefly luciferase luminescence because it acts as a substrate and not as an allosteric effector. FEBS Journal, 2005, 272, 5206-5216.	2.2	69
24	Firefly Chemiluminescence and Bioluminescence: Efficient Generation of Excited States. ChemPhysChem, 2012, 13, 2257-2262.	1.0	67
25	Computational Investigation of the Effect of pH on the Color of Firefly Bioluminescence by DFT. ChemPhysChem, 2011, 12, 951-960.	1.0	66
26	Elucidation of the photocatalytic degradation mechanism of an azo dye under visible light in the presence of cobalt doped TiO2 nanomaterials. Chemosphere, 2021, 266, 128931.	4.2	64
27	Seasonal variations of heavy metals in sediments and aquatic mosses from the CÃ¡vado river basin (Portugal). Science of the Total Environment, 1994, 142, 143-156.	3.9	63
28	Microwave-assisted synthesis of carbon dots and its potential as analysis of four heterocyclic aromatic amines. Talanta, 2015, 132, 845-850.	2.9	62
29	Factorial analysis of the trihalomethanes formation in water disinfection using chlorine. Analytica Chimica Acta, 2007, 595, 266-274.	2.6	60
30	Metal-enhanced photoluminescence from carbon nanodots. Chemical Communications, 2011, 47, 5313.	2.2	60
31	Carbon dots on based folic acid coated with PAMAM dendrimer as platform for Pt(IV) detection. Journal of Colloid and Interface Science, 2016, 465, 165-173.	5.0	58
32	Chamomile (Matricaria chamomilla L.): A Review of Ethnomedicinal Use, Phytochemistry and Pharmacological Uses. Life, 2022, 12, 479.	1.1	57
33	CdSe quantum dots capped PAMAM dendrimer nanocomposites for sensing nitroaromatic compounds. Talanta, 2011, 83, 1335-1340.	2.9	56
34	Fluorescent chemosensor for pyridine based on N-doped carbon dots. Journal of Colloid and Interface Science, 2015, 458, 209-216.	5.0	56
35	Detection of verapamil drug by fluorescence and trilinear decomposition techniques. Analytica Chimica Acta, 2002, 453, 105-115.	2.6	55
36	Effect of air pollutant NO2 on Betula pendula, Ostrya carpinifolia and Carpinus betulus pollen fertility and human allergenicity. Environmental Pollution, 2014, 186, 50-55.	3.7	55

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37	In Vitro Exposure of Acer negundo Pollen to Atmospheric Levels of SO₂ and NO₂: Effects on Allergenicity and Germination. Environmental Science & Technology, 2012, 46, 2406-2412.	4.6	52
38	Carbon footprint of the insulation cork board. Journal of Cleaner Production, 2017, 143, 925-932.	4.6	52
39	Firefly Luciferase Produces Hydrogen Peroxide as a Coproduct in Dehydroluciferyl Adenylate Formation. ChemBioChem, 2006, 7, 929-935.	1.3	51
40	Adsorption of uranyl ions on kaolinite, montmorillonite, humic acid and composite clay material. Applied Clay Science, 2013, 85, 53-63.	2.6	51
41	Multivariate curve resolution analysis excitation-emission matrices of fluorescence of humic substances. Analytica Chimica Acta, 2005, 546, 52-59.	2.6	49
42	Kinetics of inhibition of firefly luciferase by dehydroluciferyl-coenzyme A, dehydroluciferin and l-luciferin. Photochemical and Photobiological Sciences, 2011, 10, 1039-1045.	1.6	49
43	Thiolated DAB dendrimers and CdSe quantum dots nanocomposites for Cd(II) or Pb(II) sensing. Talanta, 2012, 88, 403-407.	2.9	48
44	Carbon dots coated with vitamin B 12 as selective ratiometric nanosensor for phenolic carbofuran. Sensors and Actuators B: Chemical, 2017, 239, 553-561.	4.0	48
45	Mercury(ii) sensing based on the quenching of fluorescence of CdSâ€“dendrimer nanocomposites. Analyst, The, 2009, 134, 2447.	1.7	47
46	Sulfur and nitrogen co-doped carbon dots sensors for nitric oxide fluorescence quantification. Analytica Chimica Acta, 2017, 960, 117-122.	2.6	47
47	Evaluation of Different Bottom-up Routes for the Fabrication of Carbon Dots. Nanomaterials, 2020, 10, 1316.	1.9	47
48	CdS nanocomposites assembled in porous phosphate heterostructures for fingerprint detection. Optical Materials, 2011, 33, 893-898.	1.7	46
49	Layer-by-layer immobilization of carbon dots fluorescent nanomaterials on single optical fiber. Analytica Chimica Acta, 2012, 735, 90-95.	2.6	46
50	Carbon dots from tryptophan doped glucose for peroxynitrite sensing. Analytica Chimica Acta, 2014, 852, 174-180.	2.6	46
51	Factorial analysis of a chemiluminescence system for bromate detection in water. Analytica Chimica Acta, 2001, 450, 175-184.	2.6	44
52	COVID-19 Pandemic Consequences on Coastal Water Quality Using WST Sentinel-3 Data: Case of Tangier, Morocco. Water (Switzerland), 2020, 12, 2638.	1.2	44
53	Comparative life cycle assessment of bottom-up synthesis routes for carbon dots derived from citric acid and urea. Journal of Cleaner Production, 2020, 254, 120080.	4.6	44
54	Fluorescent sensor for Cr(VI) based in functionalized silicon quantum dots with dendrimers. Talanta, 2015, 144, 862-867.	2.9	43

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55	Evolving Factor Analysis of Synchronous Fluorescence Spectra of Fulvic Acids in the Presence of Aluminum. Applied Spectroscopy, 1994, 48, 363-372.	1.2	42
56	Advanced Oxidation Processes Coupled with Nanomaterials for Water Treatment. Nanomaterials, 2021, 11, 2045.	1.9	42
57	Comparative Study of the Photoprotolytic Reactions of <scp>d</scp>-Luciferin and Oxyluciferin. Journal of Physical Chemistry A, 2012, 116, 7452-7461.	1.1	41
58	Identification of enzyme produced firefly oxyluciferin by reverse phase HPLC. Tetrahedron Letters, 2001, 42, 8173-8176.	0.7	40
59	PARAFAC Analysis of the Quenching of EEM of Fluorescence of Glutathione Capped CdTe Quantum Dots by Pb(II). Journal of Fluorescence, 2009, 19, 141-149.	1.3	40
60	Insight into the hybrid luminescence showed by carbon dots and molecular fluorophores in solution. Physical Chemistry Chemical Physics, 2019, 21, 20919-20926.	1.3	40
61	Improvement in upconversion/downshifting luminescence of Gd2O3 :Ho3+/Yb3+ phosphor through Ca2+ / Zn2+ incorporation and optical thermometry studies. Materials Research Bulletin, 2019, 112, 28-37.	2.7	40
62	Fiber optic lifetime pH sensing based on ruthenium(II) complexes with dicarboxybipyridine. Analytica Chimica Acta, 2008, 626, 62-70.	2.6	39
63	Wavelength encoded analytical imaging and fiber optic sensing with pH sensitive CdTe quantum dots. Talanta, 2010, 80, 1932-1938.	2.9	39
64	Evaluation of the Environmental Impact and Efficiency of N-Doping Strategies in the Synthesis of Carbon Dots. Materials, 2020, 13, 504.	1.3	39
65	Current analytical strategies for C-reactive protein quantification in blood. Clinica Chimica Acta, 2013, 415, 1-9.	0.5	38
66	Metal ion complexation properties of fulvic acids extracted from composted sewage sludge as compared to a soil fulvic acid. Water Research, 2002, 36, 3404-3409.	5.3	37
67	Identification of Luciferyl Adenylate and Luciferyl Coenzyme A Synthesized by Firefly Luciferase. ChemBioChem, 2004, 5, 110-115.	1.3	37
68	Optimized chromatographic and bioluminescent methods for inorganic pyrophosphate based on its conversion to ATP by firefly luciferase. Talanta, 2009, 77, 1497-1503.	2.9	37
69	Chemical Composition, Bioactive Compounds, and Antioxidant Activity of Two Wild Edible Mushrooms Armillaria mellea and Macrolepiota procera from Two Countries (Morocco and Portugal). Biomolecules, 2021, 11, 575.	1.8	37
70	Turning Spent Coffee Grounds into Sustainable Precursors for the Fabrication of Carbon Dots. Nanomaterials, 2020, 10, 1209.	1.9	36
71	Photocatalytic removal of pharmaceutical water pollutants by TiO2 â€“ Carbon dots nanocomposites: A review. Chemosphere, 2022, 301, 134731.	4.2	36
72	MCR of the quenching of the EEM of fluorescence of dissolved organic matter by metal ions. Analytica Chimica Acta, 2007, 595, 9-18.	2.6	35

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73	Multiway chemometric decomposition of EEM of fluorescence of CdTe quantum dots obtained as function of pH. Analytica Chimica Acta, 2008, 628, 143-154.	2.6	35
74	Pyrophosphate and tripolyphosphate affect firefly luciferase luminescence because they act as substrates and not as allosteric effectors. FEBS Journal, 2008, 275, 1500-1509.	2.2	35
75	Fingerprint detection and using intercalated CdSe nanoparticles on non-porous surfaces. Analytica Chimica Acta, 2014, 812, 228-235.	2.6	35
76	Glucose Sensing by Fluorescent Nanomaterials. Critical Reviews in Analytical Chemistry, 2019, 49, 542-552.	1.8	34
77	Factor analysis of molecular fluorescence data of marine and soil fulvic acids. Chemometrics and Intelligent Laboratory Systems, 1993, 19, 155-167.	1.8	33
78	Multi-wavelength analysis of synchronous fluorescence spectra of the complexes between a soil fulvic acid and Cu(II). Analytica Chimica Acta, 1994, 292, 121-132.	2.6	33
79	Study on the Effects of Intermolecular Interactions on Firefly Multicolor Bioluminescence. ChemPhysChem, 2011, 12, 3002-3008.	1.0	33
80	Degradation of UV filters 2-ethylhexyl-4-methoxycinnamate and 4-tert-butyl-4'-methoxydibenzoylmethane in chlorinated water. Environmental Chemistry, 2013, 10, 127.	0.7	32
81	Hypochlorite fluorescence sensing by phenylboronic acid-alizarin adduct based carbon dots. Talanta, 2020, 208, 120447.	2.9	31
82	Preparation, characterization, and photocatalytic activity under UV and visible light of Co, Mn, and Ni mono-doped and (P,Mo) and (P,W) co-doped TiO2 nanoparticles: a comparative study. Environmental Science and Pollution Research, 2021, 28, 25130-25145.	2.7	31
83	Fluorescent Properties of a Hybrid Cadmium Sulfide-Dendrimer Nanocomposite and its Quenching with Nitromethane. Journal of Fluorescence, 2010, 20, 143-151.	1.3	30
84	Theoretical modulation of the color of light emitted by firefly oxyluciferin. Journal of Computational Chemistry, 2011, 32, 2654-2663.	1.5	30
85	Effect of O3 and NO2 atmospheric pollutants on Platanus x acerifolia pollen: Immunochemical and spectroscopic analysis. Science of the Total Environment, 2017, 599-600, 291-297.	3.9	30
86	Factorial analysis of the trihalomethane formation in the reaction of colloidal, hydrophobic, and transphilic fractions of DOM with free chlorine. Environmental Science and Pollution Research, 2010, 17, 1389-1400.	2.7	29
87	TD-DFT/Molecular Mechanics Study of the Photinus pyralis Bioluminescence System. Journal of Physical Chemistry B, 2012, 116, 2008-2013.	1.2	29
88	Peroxynitrite and nitric oxide fluorescence sensing by ethylenediamine doped carbon dots. Sensors and Actuators B: Chemical, 2015, 220, 1043-1049.	4.0	29
89	Study of the Combination of Self-Activating Photodynamic Therapy and Chemotherapy for Cancer Treatment. Biomolecules, 2019, 9, 384.	1.8	29
90	Evolving factor analysis of synchronous fluorescence spectra of humic substances in the presence of Cu(II). Chemometrics and Intelligent Laboratory Systems, 1995, 27, 115-128.	1.8	28

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91	Simultaneous use of evolving factor analysis of fluorescence spectral data and analysis of pH titration data for comparison of the acid-base properties of fulvic acids. Analytica Chimica Acta, 1996, 318, 365-372.	2.6	28
92	Parafac decomposition of three-way kinetic-spectrophotometric spectral matrices corresponding to mixtures of heavy metal ions. Talanta, 1999, 49, 889-897.	2.9	28
93	Chemometric interpretation of pesticide occurence in soil samples from an intensive horticulture area in north Portugal. Analytica Chimica Acta, 2006, 560, 164-171.	2.6	28
94	Efficient Firefly Chemi/Bioluminescence: Evidence for Chemiexcitation Resulting from the Decomposition of a Neutral Firefly Dioxetanone Molecule. Journal of Physical Chemistry A, 2013, 117, 94-100.	1.1	28
95	Trilinear PARAFAC decompositionof synchronous fluorescence spectra of mixtures of themajor metabolites of acetylsalicylic acid. Analyst, The, 1998, 123, 2067-2070.	1.7	27
96	Oxyluciferin Photoacidity: The Missing Element for Solving the Ketoâ€“Enol Mystery?. ChemPhysChem, 2013, 14, 3441-3446.	1.0	27
97	Chemiexcitation Induced Proton Transfer: Enolate Oxyluciferin as the Firefly Bioluminophore. Journal of Physical Chemistry B, 2015, 119, 2140-2148.	1.2	27
98	Mechanistic Insight into Cypridina Bioluminescence with a Combined Experimental and Theoretical Chemiluminescent Approach. Journal of Physical Chemistry B, 2017, 121, 7862-7871.	1.2	27
99	Single-molecule chemiluminescent photosensitizer for a self-activating and tumor-selective photodynamic therapy of cancer. European Journal of Medicinal Chemistry, 2019, 183, 111683.	2.6	27
100	Interstate Crossingâ€Induced Chemiexcitation as the Reason for the Chemiluminescence of Dioxetanones. ChemPhysChem, 2013, 14, 1071-1079.	1.0	26
101	Structural, Energetic, and UVâ€“Vis Spectral Analysis of UVA Filter 4-tert-Butyl-4â€²-methoxydibenzoylmethane. Journal of Physical Chemistry A, 2014, 118, 1511-1518.	1.1	26
102	Role of Ca2+ co-dopants on structural and optical properties of YF3:Tm3+/Yb3+ upconversion phosphor for improved optical thermometry. Sensors and Actuators A: Physical, 2018, 280, 179-187.	2.0	26
103	Infrared interceded YF3: Er3+/Yb3+ upconversion phosphor for crime scene and anti-counterfeiting applications. Optical Materials, 2019, 92, 347-351.	1.7	26
104	P-doped carbon nano-powders for fingerprint imaging. Talanta, 2019, 194, 150-157.	2.9	26
105	Study of the interaction of a soil fulvic acid with UO2 2+ by self-modelling mixture analysis of synchronous molecular fluorescence spectra. Analyst, The, 1996, 121, 1373.	1.7	25
106	Detection of 2,4,6-trichloroanisole in chlorinated water at nanogram per litre levels by SPMEâ€“GCâ€“ECD. Analytical and Bioanalytical Chemistry, 2005, 382, 341-346.	1.9	25
107	Luminescence-Based Optical Fiber Chemical Sensors. Fiber and Integrated Optics, 2005, 24, 201-225.	1.7	25
108	Degradation in chlorinated water of the UV filter 4-tert-butyl-4â€²-methoxydibenzoylmethane present in commercial sunscreens. Environmental Technology (United Kingdom), 2015, 36, 1319-1326.	1.2	25

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109	Effects of atmospheric pollutants (CO, O₃, SO₂) on the allergenicity ofBetula pendula,Ostrya carpinifolia, andCarpinus betuluspollen. International Journal of Environmental Health Research, 2015, 25, 312-321.	1.3	25
110	Density Functional Theory Calculation of the Absorption Properties of Brown Carbon Chromophores Generated by Catechol Heterogeneous Ozonolysis. ACS Earth and Space Chemistry, 2017, 1, 353-360.	1.2	25
111	Excited-State Proton Transfer from the Photoacid 2-Naphthol-8-sulfonate to Acetonitrile/Water Mixtures. Journal of Physical Chemistry A, 2018, 122, 6166-6175.	1.1	25
112	UV filter 2â€ethylhexyl 4â€methoxycinnamate: a structure, energetic and UVâ€“vis spectral analysis based on density functional theory. Journal of Physical Organic Chemistry, 2014, 27, 47-56.	0.9	24
113	Study of coelenterazine luminescence: Electrostatic interactions as the controlling factor for efficient chemiexcitation. Journal of Luminescence, 2018, 199, 339-347.	1.5	23
114	Comparative study of the chemiluminescence of coelenterazine, coelenterazine-e and Cypridina luciferin with an experimental and theoretical approach. Journal of Photochemistry and Photobiology B: Biology, 2019, 190, 21-31.	1.7	23
115	Magnetic tuning in upconversion emission enhanced through Ag+ ions co-doped in GdF3: Ho3+/Yb3+ phosphor and a real-time temperature sensing demonstration. Journal of Alloys and Compounds, 2019, 776, 207-214.	2.8	23
116	Quantitative Study of Be(II) Complexation by Soil Fulvic Acids by Molecular Fluorescence Spectroscopy. Environmental Science & Technology, 1996, 30, 3155-3160.	4.6	22
117	Interaction of Fulvic Acids with Al(III) Studied by Self-Modeling Curve Resolution of Second-Derivative Synchronous Fluorescence Spectra. Applied Spectroscopy, 1996, 50, 436-443.	1.2	22
118	Multivariate curve resolution of multidimensional excitationâ€“emission quenching matrices of a Laurentian soil fulvic acid. Chemosphere, 2006, 64, 1939-1948.	4.2	22
119	Multivariate Curve Resolution of Synchronous Fluorescence Spectra Matrices of Fulvic Acids Obtained as a Function of pH. Applied Spectroscopy, 2006, 60, 1315-1321.	1.2	22
120	Comparative life cycle assessment of high-yield synthesis routes for carbon dots. NanoImpact, 2021, 23, 100332.	2.4	22
121	Self-modelling curve resolution analysis of synchronous fluorescence spectroscopy data for characterization of acid mixtures and study of acidâ€“base equilibria. Analyst, The, 1995, 120, 2553-2560.	1.7	21
122	Multivariate analysis of the water quality variation in the Serra da Estrela (Portugal) Natural Park as a consequence of road deicing with salt. Chemometrics and Intelligent Laboratory Systems, 2010, 102, 130-135.	1.8	21
123	Interstate Crossing-Induced Chemiexcitation Mechanism as the Basis for Imidazopyrazinone Bioluminescence. ChemistrySelect, 2016, 1, 3343-3356.	0.7	21
124	Theoretical modulation of singlet/triplet chemiexcitation of chemiluminescent imidazopyrazinone dioxetanone via C8-substitution. Photochemical and Photobiological Sciences, 2017, 16, 897-907.	1.6	21
125	Normal breast epithelial MCF-10A cells to evaluate the safety of carbon dots. RSC Medicinal Chemistry, 2021, 12, 245-253.	1.7	21
126	Novel Î²-cyclodextrin modified CdTe quantum dots as fluorescence nanosensor for acetylsalicylic acid and metabolites. Materials Science and Engineering C, 2012, 32, 799-803.	3.8	20

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127	3-Hydroxyphenylboronic Acid-Based Carbon Dot Sensors for Fructose Sensing. Journal of Fluorescence, 2019, 29, 265-270.	1.3	20
128	Life Cycle Assessment of the Sustainability of Enhancing the Photodegradation Activity of TiO2 with Metal-Doping. Materials, 2020, 13, 1487.	1.3	20
129	Synthesis and physicochemical characterization of a ZnO-Chitosan hybrid-biocomposite used as an environmentally friendly photocatalyst under UV-A and visible light irradiations. Journal of Environmental Chemical Engineering, 2020, 8, 104260.	3.3	20
130	Target-Oriented Synthesis of Marine Coelenterazine Derivatives with Anticancer Activity by Applying the Heavy-Atom Effect. Biomedicines, 2021, 9, 1199.	1.4	20
131	Beryllium(II) as a Probe for Study of the Interactions of Metals and Fulvic Acids by Synchronous Fluorescence Spectroscopy. Applied Spectroscopy, 1995, 49, 1500-1506.	1.2	19
132	Acid-base properties of fulvic acids extracted from an untreated sewage sludge and from composted sludge. Water Research, 1998, 32, 441-449.	5.3	19
133	Chemometric classification of olives from three Portuguese cultivars of Olea europaea L.. Analytica Chimica Acta, 2005, 544, 229-235.	2.6	19
134	PARAFAC2 and MCR-ALS quantification of Diltiazem antihypertensor based on a kinetic spectrophotometric methodology. Chemometrics and Intelligent Laboratory Systems, 2007, 89, 90-96.	1.8	19
135	Thermo-responsive microgels based on encapsulated carbon quantum dots. New Journal of Chemistry, 2017, 41, 4835-4842.	1.4	19
136	Characterization of the binding sites for Al(III) and Be(II) in a sample of marine fulvic acids. Marine Chemistry, 1996, 54, 293-302.	0.9	18
137	Theoretical Photodynamic Study of the Photoprotolytic Cycle of Firefly Oxyluciferin. ChemPhysChem, 2013, 14, 2711-2716.	1.0	18
138	Theoretical Study of the Nontraditional Enolâ€Based Photoacidity of Firefly Oxyluciferin. ChemPhysChem, 2015, 16, 455-464.	1.0	18
139	Comparison of the Photoprotolytic Processes of Three 7-Hydroxycoumarins. Journal of Physical Chemistry B, 2016, 120, 10297-10310.	1.2	18
140	A Computational Investigation of the Equilibrium Constants for the Fluorescent and Chemiluminescent States of Coelenteramide. ChemPhysChem, 2017, 18, 117-123.	1.0	18
141	Security writing application of thermal decomposition assisted NaYF₄:Er³⁺/Yb³⁺ upconversion phosphor. Laser Physics Letters, 2018, 15, 075901.	0.6	18
142	Exposure of Betula pendula Roth pollen to atmospheric pollutants CO, O3 and SO2. Grana, 2013, 52, 299-304.	0.4	17
143	Changes in the IgE-reacting protein profiles ofAcer negundo,Platanus x acerifoliaandQuercus roburpollen in response to ozone treatment. International Journal of Environmental Health Research, 2014, 24, 515-527.	1.3	17
144	Method for Rapid Screening of Chlorophenols Using a Reduced Calibration Set of UV Spectra and Multivariate Calibration Techniques. Analytical Letters, 1998, 31, 2549-2563.	1.0	16

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145	pH opposite effects on synthesis of dinucleoside polyphosphates and on oxidation reactions catalyzed by firefly luciferase. FEBS Letters, 2003, 543, 37-41.	1.3	16
146	An optimized luciferase bioluminescent assay for coenzyme A. Analytical and Bioanalytical Chemistry, 2008, 391, 2161-2168.	1.9	16
147	Factorial analysis optimization of a Diltiazem kinetic spectrophotometric quantification method. Analytica Chimica Acta, 2008, 609, 1-12.	2.6	16
148	Solid luminescent CdSeâ€thiolated porous phosphate heterostructures. Application in fingermark detection in different surfaces. Surface and Interface Analysis, 2013, 45, 612-618.	0.8	16
149	Combined experimental and theoretical study of the photochemistry of 4- and 3-hydroxycoumarin. Journal of Photochemistry and Photobiology A: Chemistry, 2017, 338, 23-36.	2.0	16
150	Combined experimental and theoretical study of Coelenterazine chemiluminescence in aqueous solution. Journal of Luminescence, 2018, 194, 139-145.	1.5	16
151	LCâ€MS identification of derivatized free fatty acids from adipocere in soil samples. Journal of Separation Science, 2010, 33, 143-154.	1.3	15
152	Vapor pressures and enthalpies of vaporization of azides. Journal of Chemical Thermodynamics, 2011, 43, 1652-1659.	1.0	15
153	Thiolated DAB dendrimer/ZnSe nanoparticles for C-reactive protein recognition in human serum. Talanta, 2012, 99, 574-579.	2.9	15
154	Analysis of the performance of DFT functionals in the study of light emission by oxyluciferin analogs. International Journal of Quantum Chemistry, 2013, 113, 45-51.	1.0	15
155	Theoretical fingerprinting of the photophysical properties of four firefly bioluminophores. Photochemical and Photobiological Sciences, 2013, 12, 2028.	1.6	15
156	Mechanistic study of the unimolecular decomposition of 1,2â€dioxetanedione. Journal of Physical Organic Chemistry, 2013, 26, 659-663.	0.9	15
157	Quantum/molecular mechanics study of firefly bioluminescence on luciferase oxidative conformation. Chemical Physics Letters, 2014, 608, 45-49.	1.2	15
158	At-line green synthesis monitoring of new pharmaceutical co-crystals lamivudine:theophylline polymorph I and II, quantification of polymorph I among its APIs using FT-IR spectroscopy and MCR-ALS. Journal of Pharmaceutical and Biomedical Analysis, 2019, 169, 235-244.	1.4	15
159	Structural coloration based on photonic crystals for coating applications on wood. European Journal of Wood and Wood Products, 2020, 78, 293-300.	1.3	15
160	Study of the interaction of Al(III) with a soil fulvic acid in the acid pH range by self-modeling mixture analysis of synchronous fluorescence spectral data. Analytica Chimica Acta, 1997, 349, 23-31.	2.6	14
161	Parallel factor analysis of EEM of the fluorescence of carbon dots nanoparticles. Journal of Chemometrics, 2010, 24, 655-664.	0.7	14
162	Comparison of adipocere formation in four soil types of the Porto (Portugal) district. Forensic Science International, 2010, 195, 168.e1-168.e6.	1.3	14

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163	LCâ€“MS and microscale NMR analysis of luciferin-related compounds from the bioluminescent earthworm Fridericia heliota. Journal of Photochemistry and Photobiology B: Biology, 2011, 102, 218-223.	1.7	14
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