

Arnaldo A Cardoso

List of Publications by Year in descending order

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105
papers

2,174
citations

218677

26
h-index

289244

40
g-index

105
all docs

105
docs citations

105
times ranked

2633
citing authors

#	ARTICLE	IF	CITATIONS
1	A portable luminescent thermometer based on green up-conversion emission of Er ³⁺ /Yb ³⁺ co-doped tellurite glass. <i>Scientific Reports</i> , 2017, 7, 41596.	3.3	138
2	Use of levoglucosan, potassium, and water-soluble organic carbon to characterize the origins of biomass-burning aerosols. <i>Atmospheric Environment</i> , 2012, 61, 562-569.	4.1	115
3	Influence of sugar cane burning on aerosol soluble ion composition in Southeastern Brazil. <i>Atmospheric Environment</i> , 2004, 38, 5025-5038.	4.1	95
4	Analytical Chemistry in a Liquid Film/Droplet. <i>Analytical Chemistry</i> , 1995, 67, 2562-2566.	6.5	80
5	Diurnal and nocturnal measurements of PAH, nitro-PAH, and oxy-PAH compounds in atmospheric particulate matter of a sugar cane burning region. <i>Atmospheric Environment</i> , 2014, 83, 193-201.	4.1	75
6	Monitoring of hydrogen sulfide via substrate-integrated hollow waveguide mid-infrared sensors in real-time. <i>Analyst</i> , 2014, 139, 198-203.	3.5	70
7	Fluorometric fiber optic drop sensor for atmospheric hydrogen sulfide. <i>Talanta</i> , 1997, 44, 1099-1106.	5.5	59
8	Influence of Agricultural Biomass Burning on Aerosol Size Distribution and Dry Deposition in Southeastern Brazil. <i>Environmental Science & Technology</i> , 2005, 39, 5293-5301.	10.0	49
9	Sugar markers in aerosol particles from an agro-industrial region in Brazil. <i>Atmospheric Environment</i> , 2014, 90, 106-112.	4.1	49
10	Online Analysis of H ₂ S and SO ₂ via Advanced Mid-Infrared Gas Sensors. <i>Analytical Chemistry</i> , 2015, 87, 9605-9611.	6.5	49
11	The influence of stocking density, light and temperature on the growth, production and nutrient removal capacity of <i>Porphyra dioica</i> (Bangiales, Rhodophyta). <i>Aquaculture</i> , 2006, 252, 66-78.	3.5	47
12	Portable and Disposable Paper-Based Fluorescent Sensor for In Situ Gaseous Hydrogen Sulfide Determination in Near Real-Time. <i>Analytical Chemistry</i> , 2016, 88, 11714-11719.	6.5	46
13	Determination of 2-Methylimidazole and 4-Methylimidazole in Caramel Colors by Capillary Electrophoresis. <i>Journal of Agricultural and Food Chemistry</i> , 2013, 61, 2263-2267.	5.2	38
14	Total sugars in atmospheric aerosols: An alternative tracer for biomass burning. <i>Atmospheric Environment</i> , 2015, 100, 185-192.	4.1	38
15	Real-time monitoring of ozone in air using substrate-integrated hollow waveguide mid-infrared sensors. <i>Scientific Reports</i> , 2013, 3, 3174.	3.3	36
16	Colorimetric determination of formaldehyde in air using a hanging drop of chromotropic acid. <i>Journal of Environmental Monitoring</i> , 2000, 2, 566-570.	2.1	35
17	Oxidation of H ₂ S in acid solution by <i>Thiobacillus ferrooxidans</i> and <i>Thiobacillus thiooxidans</i> . <i>Process Biochemistry</i> , 2001, 37, 111-114.	3.7	35
18	A new fluorescence method for determination of ozone in ambient air. <i>Microchemical Journal</i> , 2011, 99, 530-534.	4.5	35

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19	Sensitive luminescent paper-based sensor for the determination of gaseous hydrogen sulfide. <i>Analytical Methods</i> , 2015, 7, 2687-2692.	2.7	34
20	4-hydrazinobenzoic acid as a derivatizing agent for aldehyde analysis by HPLC-UV and CE-DAD. <i>Talanta</i> , 2018, 187, 113-119.	5.5	34
21	Colorimetric paper-based device for gaseous hydrogen cyanide quantification based on absorbance measurements. <i>Sensors and Actuators B: Chemical</i> , 2018, 268, 392-397.	7.8	33
22	Organic aerosols in a Brazilian agro-industrial area: Speciation and impact of biomass burning. <i>Atmospheric Research</i> , 2016, 169, 271-279.	4.1	32
23	Indoor NO ₂ air pollution and lung function of professional cooks. <i>Brazilian Journal of Medical and Biological Research</i> , 2007, 40, 527-534.	1.5	31
24	Atmospheric particulate polycyclic aromatic hydrocarbons from road transport in southeast Brazil. <i>Transportation Research, Part D: Transport and Environment</i> , 2008, 13, 483-490.	6.8	30
25	Development of a simple method for determination of NO ₂ in air using digital scanner images. <i>Talanta</i> , 2015, 140, 73-80.	5.5	30
26	NO ₂ Emissions from Agricultural Burning in São Paulo, Brazil. <i>Environmental Science & Technology</i> , 2004, 38, 4557-4561.	10.0	29
27	Atmospheric Emission of Reactive Nitrogen during Biofuel Ethanol Production. <i>Environmental Science & Technology</i> , 2008, 42, 381-385.	10.0	28
28	Determination of low-aliphatic aldehydes indoors by micellar electrokinetic chromatography using sample dissolution manipulation for signal enhancement. <i>Electrophoresis</i> , 2003, 24, 700-706.	2.4	27
29	Sources of atmospheric acidity in an agricultural-industrial region of São Paulo State, Brazil. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	27
30	Optimized design of substrate-integrated hollow waveguides for mid-infrared gas analyzers. <i>Journal of Optics (United Kingdom)</i> , 2014, 16, 094006.	2.2	25
31	Spectrophotometric detection of arsenic using flow-injection hydride generation following sorbent extraction preconcentration. <i>Talanta</i> , 1999, 50, 959-966.	5.5	24
32	Determination of Total Sulfur in Agricultural Samples by High-Resolution Continuum Source Flame Molecular Absorption Spectrometry. <i>Journal of Agricultural and Food Chemistry</i> , 2011, 59, 2197-2201.	5.2	24
33	iCONVERT: An Integrated Device for the UV-Assisted Determination of H ₂ S via Mid-Infrared Gas Sensors. <i>Analytical Chemistry</i> , 2015, 87, 9580-9583.	6.5	24
34	Influence of intensive agriculture on dry deposition of aerosol nutrients. <i>Journal of the Brazilian Chemical Society</i> , 2010, 21, 87-97.	0.6	23
35	A new palladium chelate compound for determination of sulfide. <i>Microchemical Journal</i> , 2013, 106, 368-372.	4.5	23
36	Mutagenicity profile of atmospheric particulate matter in a small urban center subjected to airborne emission from vehicle traffic and sugar cane burning. <i>Environmental and Molecular Mutagenesis</i> , 2016, 57, 41-50.	2.2	23

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37	Colorimetric Determination of Sulfur Dioxide in Air Using a Droplet Collector of Malachite Green Solution. <i>Microchemical Journal</i> , 1999, 62, 273-281.	4.5	22
38	Measurements and modeling of reactive nitrogen deposition in southeast Brazil. <i>Environmental Pollution</i> , 2011, 159, 1190-1197.	7.5	22
39	Ozonized oils: a qualitative and quantitative analysis. <i>Brazilian Dental Journal</i> , 2011, 22, 37-40.	1.1	21
40	Determination of formaldehyde in cosmetic products using gas-diffusion microextraction coupled with a smartphone reader. <i>Analytical Methods</i> , 2019, 11, 3697-3705.	2.7	20
41	Electrochemical decomposition of cyanides on tin dioxide electrodes in alkaline media. <i>Analyst</i> , The, 1996, 121, 541.	3.5	19
42	Determination of Nitrite and Nitrate in Brazilian Meats Using High Shear Homogenization. <i>Food Analytical Methods</i> , 2012, 5, 637-642.	2.6	19
43	Chemical characterisation of total suspended particulate matter from a remote area in Amazonia. <i>Atmospheric Research</i> , 2016, 182, 102-113.	4.1	19
44	Analytical methods applied for ozone gas detection: A review. <i>TrAC - Trends in Analytical Chemistry</i> , 2022, 149, 116552.	11.4	19
45	Size-segregated aerosol chemical composition from an agro-industrial region of São Paulo state, Brazil. <i>Air Quality, Atmosphere and Health</i> , 2017, 10, 483-496.	3.3	18
46	Amônia (NH ₃) atmosférica: fontes, transformações, sorvedouros e métodos de análise. <i>Quimica Nova</i> , 2004, 27, 123-130.	0.3	17
47	Development of a sensitive passive sampler using indigotrisulfonate for the determination of tropospheric ozone. <i>Journal of Environmental Monitoring</i> , 2010, 12, 1325.	2.1	17
48	A New Indirect Electrochemical Method for Determination of Ozone in Water Using Multiwalled Carbon Nanotubes. <i>Electroanalysis</i> , 2011, 23, 1512-1517.	2.9	17
49	Absorbance detector for high performance liquid chromatography based on a deep-UV light-emitting diode at 235 nm. <i>Journal of Chromatography A</i> , 2017, 1512, 143-146.	3.7	17
50	Real-Time and Simultaneous Monitoring of NO, NO ₂ , and NO ₃ Using Substrate-Integrated Hollow Waveguides Coupled to a Compact Fourier Transform Infrared (FT-IR) Spectrometer. <i>Applied Spectroscopy</i> , 2019, 73, 98-103.	2.2	16
51	A method for determination of ammonia in air using oxalic acid-impregnated cellulose filters and fluorimetric detection. <i>Journal of the Brazilian Chemical Society</i> , 2012, 23, 142-147.	0.6	15
52	Salting-out assisted liquid-liquid extraction with dansyl chloride for the determination of biogenic amines in food. <i>International Journal of Food Science and Technology</i> , 2020, 55, 248-258.	2.7	15
53	Alternative Methodologies for the Determination of Aldehydes by Capillary Electrophoresis. <i>Journal of AOAC INTERNATIONAL</i> , 1999, 82, 1562-1570.	1.5	14
54	Rainwater major and trace element contents in Southeastern Brazil: an assessment of a sugar cane region in dry and wet period. <i>Journal of the Brazilian Chemical Society</i> , 2012, 23, 2258-2265.	0.6	14

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55	Measurements of ambient ozone using indigo blue-coated filters. <i>Journal of AOAC INTERNATIONAL</i> , 2006, 89, 480-5.	1.5	13
56	Colorimetric determination of ambient ozone using indigo blue droplet. <i>Journal of the Brazilian Chemical Society</i> , 2006, 17, 296-301.	0.6	11
57	Exploratory study on sequestration of some essential metals by indigo carmine food dye. <i>Brazilian Journal of Pharmaceutical Sciences</i> , 2010, 46, 723-730.	1.2	11
58	A Hyphenated Preconcentrator-Infrared-Hollow-Waveguide Sensor System for N ₂ O Sensing. <i>Scientific Reports</i> , 2018, 8, 5909.	3.3	11
59	Standard Gas Mixture Production Based on the Diffusion Method. <i>International Journal of Environmental Analytical Chemistry</i> , 1990, 39, 349-360.	3.3	10
60	Renewable Drops Electrochemical Sensor for Sulfide Ions Detection. <i>Electroanalysis</i> , 2003, 15, 827-830.	2.9	10
61	Construction and performance of a drop cell for the nephelometric determination of sulfur dioxide. <i>Microchemical Journal</i> , 2003, 74, 75-82.	4.5	10
62	Indirect determination of chloride and sulfate ions in alcohol fuel by capillary electrophoresis. <i>Analytical and Bioanalytical Chemistry</i> , 2004, 380, 178-82.	3.7	9
63	An analysis of diurnal cycles in the mass of ambient aerosols derived from biomass burning and agroindustry. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013, 118, 8675-8687.	3.3	9
64	A New and Simple Visual Technique Based on Indigo Dye for Determination of Ozone in Ambient Air. <i>Water, Air, and Soil Pollution</i> , 2014, 225, 1.	2.4	9
65	Determination of Fe(III) using digital images: study of corrosion in steel plates using a polyester laser printed device. <i>Analytical Methods</i> , 2017, 9, 655-663.	2.7	9
66	Understanding aerosol formation mechanisms in a subtropical atmosphere impacted by biomass burning and agroindustry. <i>Atmospheric Research</i> , 2017, 183, 94-103.	4.1	9
67	Colorimetric Determination of Ammonia in Air Using a Hanging Drop. <i>Instrumentation Science and Technology</i> , 2003, 31, 283-294.	1.8	8
68	Relative lability of trace metals Complexed in aquatic humic substances using Ion-Exchanger cellulose-hyphan. <i>Journal of the Brazilian Chemical Society</i> , 1997, 8, 239-243.	0.6	7
69	Spectrophotometric determination of phosphite in fertilizers in a flow injection system with online sample preparation. <i>Laboratory Robotics and Automation</i> , 2000, 12, 286-290.	0.2	7
70	Construção de amostrador passivo de baixo custo para determinação de dióxido de nitrogênio. <i>Química Nova</i> , 2006, 29, 365-367.	0.3	7
71	Influence of sources and meteorology on surface concentrations of gases and aerosols in a coastal industrial complex. <i>Journal of the Brazilian Chemical Society</i> , 2009, 20, 214-221.	0.6	7
72	Comparative mutagenic activity of atmospheric particulate matter from limeira, stockholm, and kyoto. <i>Environmental and Molecular Mutagenesis</i> , 2019, 60, 607-616.	2.2	7

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73	Similar polycyclic aromatic hydrocarbon and genotoxicity profiles of atmospheric particulate matter from cities on three different continents. <i>Environmental and Molecular Mutagenesis</i> , 2020, 61, 560-573.	2.2	7
74	Gota suspensa para avaliação de alédo total no ar interno e externo do ambiente. <i>Quimica Nova</i> , 2001, 24, 443-448.	0.3	7
75	A Micro-impinger Sampling Device for Determination of Atmospheric Nitrogen Dioxide. <i>Aerosol and Air Quality Research</i> , 2019, 19, 2597-2603.	2.1	7
76	Método colorimétrico para determinação de dióxido de nitrogênio atmosférico com preconcentração em coluna de c-18. <i>Quimica Nova</i> , 2002, 25, 352-357.	0.3	6
77	Flow cell within an LED: a proposal for an optical absorption detector. <i>Analytical and Bioanalytical Chemistry</i> , 2007, 389, 1647-1650.	3.7	6
78	Processos diurnos e noturnos de remoção de NO ₂ e NH ₃ atmosféricos na região de Araraquara-SP. <i>Eletica Quimica</i> , 2002, 27, 103-112.	0.5	6
79	A semi-continuous analyzer for the fluorimetric determination of atmospheric formaldehyde. <i>Journal of the Brazilian Chemical Society</i> , 2009, 20, 259-265.	0.6	6
80	A new luminescent silver-based probe for on/off sulfide determination. <i>Inorganic Chemistry Communication</i> , 2016, 63, 93-95.	3.9	5
81	Forest Fires in the Brazilian Amazon and their Effects on Particulate Matter Concentration, Size Distribution, and Chemical Composition. <i>Combustion Science and Technology</i> , 2023, 195, 3045-3071.	2.3	5
82	Development of a method for sampling and determination of corrosion inhibitors in modified atmospheres. <i>Measurement: Journal of the International Measurement Confederation</i> , 2015, 60, 276-282.	5.0	4
83	Gotas suspensas: uma proposta para amostragem e análise de gases traços da atmosfera. <i>Quimica Nova</i> , 1998, 21, 217-220.	0.3	4
84	Avaliação de contaminantes inorgânicos e orgânicos em arcool combustível utilizando eletroforese capilar. <i>Quimica Nova</i> , 2006, 29, 66-71.	0.3	4
85	Elementos traço em material particulado atmosférico de uma região agroindustrial do sudeste do Brasil. <i>Quimica Nova</i> , 2013, 36, 533-539.	0.3	4
86	Study on the use of oxidant scrubbers for elimination of interferences due to nitrogen dioxide in analysis of atmospheric dimethylsulfide. <i>Journal of the Brazilian Chemical Society</i> , 2000, 11, 71-77.	0.6	4
87	Determination of 5-hydroxymethylfurfural using an electropolymerized molecularly imprinted polymer in combination with Salle. <i>Talanta</i> , 2022, 250, 123723.	5.5	4
88	Desenvolvimento e validação de método analítico para determinação de benzoato, sorbato, metil e propilparabenos em produtos alimentícios utilizando a eletroforese capilar. <i>Quimica Nova</i> , 2011, 34, 1177-1181.	0.3	3
89	Solids Coated With Sodium Tetrachloropalladate: Sorbents For Reduced Sulfur Compounds in Air. <i>International Journal of Environmental Analytical Chemistry</i> , 1994, 54, 221-231.	3.3	2
90	Avaliação de NO ₂ na atmosfera de ambientes externos e internos na cidade de Araraquara, São Paulo. <i>Quimica Nova</i> , 2009, 32, 1829-1833.	0.3	2

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91	Da escassez ao estresse do planeta: um s�culo de mudan�as no ciclo do nitrog�nio. Quimica Nova, 2013, 36, 1468-1476.	0.3	2
92	Capillary electrophoresis to approach sorbate usage in processed meat products in Brazil. Journal of Food Science and Technology, 2018, 55, 443-447.	2.8	2
93	A Simple Technique Based on Digital Images for Determination of Nitrogen Dioxide in Ambient Air. Water, Air, and Soil Pollution, 2021, 232, 72.	2.4	2
94	Reflexiones sobre el papel de la contextualizaci�n en la ense�anza de ciencias. Enseanza De Las Ciencias, 2010, 28, 275-284.	0.3	2
95	Reversible intermittent flow-injection determination of mercury in sediments and vinasses by cold vapor atomic absorption spectrometry. Laboratory Robotics and Automation, 1999, 11, 304-310.	0.2	1
96	Nanomaterials in Air Pollution Trace Detection. , 2019, , 427-447.		1
97	APLICA�ES E IMPLICA�ES DO OZ�NIO NA IND�STRIA, AMBIENTE E SA�DE. Quimica Nova, 0, , .	0.3	1
98	DESENVOLVIMENTO DE AMOSTRADOR PASSIVO SENS�VEL PARA MONITORAMENTO DE POLUI�O ATMOSF�RICA POR DI�XIDO DE NITROG�NIO. Quimica Nova, 0, , .	0.3	1
99	A forma�o em Qu�mica discutida com base nos modelos proposto por estudantes de p�s-gradua�o para o fen�meno de dissolu�o. Quimica Nova, 2009, 32, 237-243.	0.3	1
100	THE EFFECT OF NITROGEN DIOXIDE ON RESPIRATORY FUNCTION OF COOKS. Epidemiology, 2004, 15, S162-S163.	2.7	0
101	�Will It Rain?�Activities Investigating Aerosol Hygroscopicity and Deliquescence. Journal of Chemical Education, 2015, 92, 672-677.	2.3	0
102	Methylene Violet 3 RAX Dye as a New Reagent for the Determination of Nitrite in Cured Meats and Vegetables. Journal of the Brazilian Chemical Society, 0, , .	0.6	0
103	UV/Vis-Based Optical Sensors for Gaseous and Volatile Analytes. , 2021, , .		0
104	Extra�o de am�nio de filtros de amostragem, coleta e determina�o pelo m�todo da gota suspensa. Ecletica Quimica, 2000, 25, 161-170.	0.5	0
105	Temporal variations, transport, and regional impacts of atmospheric aerosol and acid gases close to an oil and gas trading hub. International Journal of Environmental Science and Technology, 0, , .	3.5	0