

# 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	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
2	Analytical methods applied for ozone gas detection: A review. <i>TrAC - Trends in Analytical Chemistry</i> , 2022, 149, 116552.	11.4	19
3	Determination of 5-hydroxymethylfurfural using an electropolymerized molecularly imprinted polymer in combination with Sale. <i>Talanta</i> , 2022, 250, 123723.	5.5	4
4	UV/Vis-Based Optical Sensors for Gaseous and Volatile Analytes. , 2021, , .		0
5	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
6	Salting-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
7	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
8	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
9	Nanomaterials in Air Pollution Trace Detection. , 2019, , 427-447.		1
10	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
11	Real-Time and Simultaneous Monitoring of NO, NO, and NO 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
12	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
13	Capillary electrophoresis to approach sorbate usage in processed meat products in Brazil. <i>Journal of Food Science and Technology</i> , 2018, 55, 443-447.	2.8	2
14	A Hyphenated Preconcentrator-Infrared-Hollow-Waveguide Sensor System for N <sub>2</sub> O Sensing. <i>Scientific Reports</i> , 2018, 8, 5909.	3.3	11
15	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
16	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
17	A portable luminescent thermometer based on green up-conversion emission of Er <sup>3+</sup> /Yb <sup>3+</sup> co-doped tellurite glass. <i>Scientific Reports</i> , 2017, 7, 41596.	3.3	138
18	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

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19	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
20	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
21	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
22	Chemical characterisation of total suspended particulate matter from a remote area in Amazonia. <i>Atmospheric Research</i> , 2016, 182, 102-113.	4.1	19
23	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
24	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
25	A new luminescent silver-based probe for on/off sulfide determination. <i>Inorganic Chemistry Communication</i> , 2016, 63, 93-95.	3.9	5
26	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
27	“Will It Rain?” Activities Investigating Aerosol Hygroscopicity and Deliquescence. <i>Journal of Chemical Education</i> , 2015, 92, 672-677.	2.3	0
28	Sensitive luminescent paper-based sensor for the determination of gaseous hydrogen sulfide. <i>Analytical Methods</i> , 2015, 7, 2687-2692.	2.7	34
29	Development of a simple method for determination of NO <sub>2</sub> in air using digital scanner images. <i>Talanta</i> , 2015, 140, 73-80.	5.5	30
30	iCONVERT: An Integrated Device for the UV-Assisted Determination of H <sub>2</sub> S via Mid-Infrared Gas Sensors. <i>Analytical Chemistry</i> , 2015, 87, 9580-9583.	6.5	24
31	Online Analysis of H <sub>2</sub> S and SO <sub>2</sub> via Advanced Mid-Infrared Gas Sensors. <i>Analytical Chemistry</i> , 2015, 87, 9605-9611.	6.5	49
32	Total sugars in atmospheric aerosols: An alternative tracer for biomass burning. <i>Atmospheric Environment</i> , 2015, 100, 185-192.	4.1	38
33	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
34	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
35	Sugar markers in aerosol particles from an agro-industrial region in Brazil. <i>Atmospheric Environment</i> , 2014, 90, 106-112.	4.1	49
36	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

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37	Monitoring of hydrogen sulfide via substrate-integrated hollow waveguide mid-infrared sensors in real-time. <i>Analyst</i> , The, 2014, 139, 198-203.	3.5	70
38	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
39	A new palladium chelate compound for determination of sulfide. <i>Microchemical Journal</i> , 2013, 106, 368-372.	4.5	23
40	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
41	An analysis of diurnal cycles in the mass of ambient aerosols derived from biomass burning and agro-industry. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013, 118, 8675-8687.	3.3	9
42	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
43	Da escassez ao estresse do planeta: um sÃ©culo de mudanÃ§as no ciclo do nitrogÃ©nio. <i>Quimica Nova</i> , 2013, 36, 1468-1476.	0.3	2
44	Elementos traÃ§o em material particulado atmosfÃ©rico de uma regiÃ£o agroindustrial do sudeste do Brasil. <i>Quimica Nova</i> , 2013, 36, 533-539.	0.3	4
45	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
46	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
47	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
48	Determination of Nitrite and Nitrate in Brazilian Meats Using High Shear Homogenization. <i>Food Analytical Methods</i> , 2012, 5, 637-642.	2.6	19
49	Desenvolvimento e validaÃ§Ã£o de mÃ©todo analÃ©tico para determinaÃ§Ã£o de benzoato, sorbato, metil e propilparabenos em produtos alimentÃ©cios utilizando a eletroforese capilar. <i>Quimica Nova</i> , 2011, 34, 1177-1181.	0.3	3
50	Ozonized oils: a qualitative and quantitative analysis. <i>Brazilian Dental Journal</i> , 2011, 22, 37-40.	1.1	21
51	A new fluorescence method for determination of ozone in ambient air. <i>Microchemical Journal</i> , 2011, 99, 530-534.	4.5	35
52	Measurements and modeling of reactive nitrogen deposition in southeast Brazil. <i>Environmental Pollution</i> , 2011, 159, 1190-1197.	7.5	22
53	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
54	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

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55	Exploratory study on sequestration of some essential metals by indigo carmine food dye. Brazilian Journal of Pharmaceutical Sciences, 2010, 46, 723-730.	1.2	11
56	Influence of intensive agriculture on dry deposition of aerosol nutrients. Journal of the Brazilian Chemical Society, 2010, 21, 87-97.	0.6	23
57	Development of a sensitive passive sampler using indigotrisulfonate for the determination of tropospheric ozone. Journal of Environmental Monitoring, 2010, 12, 1325.	2.1	17
58	Reflexiones sobre el papel de la contextualización en la enseñanza de ciencias. Enseñanza De Las Ciencias, 2010, 28, 275-284.	0.3	2
59	Avaliação de NO <sub>2</sub> na atmosfera de ambientes externos e internos na cidade de Araraquara, São Paulo. Química Nova, 2009, 32, 1829-1833.	0.3	2
60	Influence of sources and meteorology on surface concentrations of gases and aerosols in a coastal industrial complex. Journal of the Brazilian Chemical Society, 2009, 20, 214-221.	0.6	7
61	A semi-continuous analyzer for the fluorimetric determination of atmospheric formaldehyde. Journal of the Brazilian Chemical Society, 2009, 20, 259-265.	0.6	6
62	A formação em Química discutida com base nos modelos proposto por estudantes de pós-graduação para o fenômeno de dissolução. Química Nova, 2009, 32, 237-243.	0.3	1
63	Atmospheric particulate polycyclic aromatic hydrocarbons from road transport in southeast Brazil. Transportation Research, Part D: Transport and Environment, 2008, 13, 483-490.	6.8	30
64	Atmospheric Emission of Reactive Nitrogen during Biofuel Ethanol Production. Environmental Science & Technology, 2008, 42, 381-385.	10.0	28
65	Indoor NO <sub>2</sub> air pollution and lung function of professional cooks. Brazilian Journal of Medical and Biological Research, 2007, 40, 527-534.	1.5	31
66	Flow cell within an LED: a proposal for an optical absorption detector. Analytical and Bioanalytical Chemistry, 2007, 389, 1647-1650.	3.7	6
67	The influence of stocking density, light and temperature on the growth, production and nutrient removal capacity of <i>Porphyra dioica</i> (Bangiales, Rhodophyta). Aquaculture, 2006, 252, 66-78.	3.5	47
68	Construção de amostrador passivo de baixo custo para determinação de dióxido de nitrogênio. Química Nova, 2006, 29, 365-367.	0.3	7
69	Colorimetric determination of ambient ozone using indigo blue droplet. Journal of the Brazilian Chemical Society, 2006, 17, 296-301.	0.6	11
70	Avaliação de contaminantes inorgânicos e orgânicos em álcool combustível utilizando eletroforese capilar. Química Nova, 2006, 29, 66-71.	0.3	4
71	Measurements of ambient ozone using indigo blue-coated filters. Journal of AOAC INTERNATIONAL, 2006, 89, 480-5.	1.5	13
72	Influence of Agricultural Biomass Burning on Aerosol Size Distribution and Dry Deposition in Southeastern Brazil. Environmental Science & Technology, 2005, 39, 5293-5301.	10.0	49

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73	Amônia (NH <sub>3</sub> ) atmosférica: fontes, transformações, sorvedouros e métodos de análise. Química Nova, 2004, 27, 123-130.	0.3	17
74	Influence of sugar cane burning on aerosol soluble ion composition in Southeastern Brazil. Atmospheric Environment, 2004, 38, 5025-5038.	4.1	95
75	Indirect determination of chloride and sulfate ions in alcohol fuel by capillary electrophoresis. Analytical and Bioanalytical Chemistry, 2004, 380, 178-82.	3.7	9
76	NO <sub>2</sub> Emissions from Agricultural Burning in São Paulo, Brazil. Environmental Science & Technology, 2004, 38, 4557-4561.	10.0	29
77	THE EFFECT OF NITROGEN DIOXIDE ON RESPIRATORY FUNCTION OF COOKS. Epidemiology, 2004, 15, S162-S163.	2.7	0
78	Renewable Drops Electrochemical Sensor for Sulfide Ions Detection. Electroanalysis, 2003, 15, 827-830.	2.9	10
79	Determination of low-aliphatic aldehydes indoors by micellar electrokinetic chromatography using sample dissolution manipulation for signal enhancement. Electrophoresis, 2003, 24, 700-706.	2.4	27
80	Construction and performance of a drop cell for the nephelometric determination of sulfur dioxide. Microchemical Journal, 2003, 74, 75-82.	4.5	10
81	Sources of atmospheric acidity in an agricultural-industrial region of São Paulo State, Brazil. Journal of Geophysical Research, 2003, 108, .	3.3	27
82	Colorimetric Determination of Ammonia in Air Using a Hanging Drop. Instrumentation Science and Technology, 2003, 31, 283-294.	1.8	8
83	Método colorimétrico para determinação de dióxido de nitrogênio atmosférico com preconcentração em coluna de c-18. Química Nova, 2002, 25, 352-357.	0.3	6
84	Processos diurnos e noturnos de remoção de NO <sub>2</sub> e NH <sub>3</sub> atmosféricos na região de Araraquara-SP. Eclética Química, 2002, 27, 103-112.	0.5	6
85	Oxidation of H <sub>2</sub> S in acid solution by Thiobacillus ferrooxidans and Thiobacillus thiooxidans. Process Biochemistry, 2001, 37, 111-114.	3.7	35
86	Gota suspensa para avaliação de aldeído total no ar interno e externo do ambiente. Química Nova, 2001, 24, 443-448.	0.3	7
87	Spectrophotometric determination of phosphite in fertilizers in a flow injection system with online sample preparation. Laboratory Robotics and Automation, 2000, 12, 286-290.	0.2	7
88	Colorimetric determination of formaldehyde in air using a hanging drop of chromotropic acid. Journal of Environmental Monitoring, 2000, 2, 566-570.	2.1	35
89	Study on the use of oxidant scrubbers for elimination of interferences due to nitrogen dioxide in analysis of atmospheric dimethylsulfide. Journal of the Brazilian Chemical Society, 2000, 11, 71-77.	0.6	4
90	Extração de amônio de filtros de amostragem, coleta e determinação pelo método da gota suspensa. Eclética Química, 2000, 25, 161-170.	0.5	0

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91	Alternative Methodologies for the Determination of Aldehydes by Capillary Electrophoresis. Journal of AOAC INTERNATIONAL, 1999, 82, 1562-1570.	1.5	14
92	Colorimetric Determination of Sulfur Dioxide in Air Using a Droplet Collector of Malachite Green Solution. Microchemical Journal, 1999, 62, 273-281.	4.5	22
93	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
94	Spectrophotometric detection of arsenic using flow-injection hydride generation following sorbent extraction preconcentration. Talanta, 1999, 50, 959-966.	5.5	24
95	Gotas suspensas: uma proposta para amostragem e análise de gases traçadores da atmosfera. Quimica Nova, 1998, 21, 217-220.	0.3	4
96	Fluorometric fiber optic drop sensor for atmospheric hydrogen sulfide. Talanta, 1997, 44, 1099-1106.	5.5	59
97	Relative lability of trace metals Complexed in aquatic humic substances using Ion-Exchanger cellulose-hyphan. Journal of the Brazilian Chemical Society, 1997, 8, 239-243.	0.6	7
98	Electrochemical decomposition of cyanides on tin dioxide electrodes in alkaline media. Analyst, The, 1996, 121, 541.	3.5	19
99	Analytical Chemistry in a Liquid Film/Droplet. Analytical Chemistry, 1995, 67, 2562-2566.	6.5	80
100	Solids Coated With Sodium Tetrachloropalladate: Sorbents For Reduced Sulfur Compounds in Air. International Journal of Environmental Analytical Chemistry, 1994, 54, 221-231.	3.3	2
101	Standard Gas Mixture Production Based on the Diffusion Method. International Journal of Environmental Analytical Chemistry, 1990, 39, 349-360.	3.3	10
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	APLICAÇÕES E IMPLICAÇÕES DO OZÔNIO NA INDÚSTRIA, AMBIENTE E SAÚDE. Quimica Nova, 0, , .	0.3	1
104	DESENVOLVIMENTO DE AMOSTRADOR PASSIVO SENSÍVEL PARA MONITORAMENTO DE POLUIÇÃO DO AR POR DIÓXIDO DE NITROGÊNIO. Quimica Nova, 0, , .	0.3	1
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