

Laura Borgese

List of Publications by Year in descending order

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90
papers

2,522
citations

172386

29
h-index

223716

46
g-index

92
all docs

92
docs citations

92
times ranked

3249
citing authors

#	ARTICLE	IF	CITATIONS
1	Review of fly ash inertisation treatments and recycling. Environmental Chemistry Letters, 2014, 12, 153-175.	8.3	182
2	Fe ₂ O ₃ @TiO ₂ Nano-heterostructure Photoanodes for Highly Efficient Solar Water Oxidation. Advanced Materials Interfaces, 2015, 2, 1500313.	1.9	103
3	Neurofunctional dopaminergic impairment in elderly after lifetime exposure to manganese. NeuroToxicology, 2014, 45, 309-317.	1.4	84
4	A new method for municipal solid waste incinerator (MSWI) fly ash inertization, based on colloidal silica. Journal of Environmental Monitoring, 2010, 12, 2093.	2.1	79
5	Metal fractionation in soils and assessment of environmental contamination in Vallecamonica, Italy. Environmental Science and Pollution Research, 2013, 20, 5067-5075.	2.7	76
6	Enhanced Electrocatalytic Oxygen Evolution in Au@Fe Nanoalloys. Angewandte Chemie - International Edition, 2017, 56, 6589-6593.	7.2	72
7	A sustainable technology for Pb and Zn stabilization based on the use of only waste materials: A green chemistry approach to avoid chemicals and promote CO ₂ sequestration. Chemical Engineering Journal, 2014, 253, 377-384.	6.6	70
8	Miniaturized Near-Infrared (MicroNIR) Spectrometer in Plastic Waste Sorting. Materials, 2019, 12, 2740.	1.3	69
9	Young modulus and Poisson ratio measurements of TiO ₂ thin films deposited with Atomic Layer Deposition. Surface and Coatings Technology, 2012, 206, 2459-2463.	2.2	67
10	Waste silica sources as heavy metal stabilizers for municipal solid waste incineration fly ash. Arabian Journal of Chemistry, 2017, 10, S3676-S3681.	2.3	66
11	Chemical Stabilization of Municipal Solid Waste Incineration Fly Ash without Any Commercial Chemicals: First Pilot-Plant Scaling Up. ACS Sustainable Chemistry and Engineering, 2016, 4, 5561-5569.	3.2	65
12	Polymer-grafted QCM chemical sensor and application to heavy metal ions real time detection. Sensors and Actuators B: Chemical, 2011, 155, 538-544.	4.0	62
13	Multi-element analysis of vegetal foodstuff by means of low power total reflection X-ray fluorescence (TXRF) spectrometry. Food Chemistry, 2017, 218, 348-355.	4.2	61
14	Total reflection of x-ray fluorescence (TXRF): a mature technique for environmental chemical nanoscale metrology. Measurement Science and Technology, 2009, 20, 084027.	1.4	60
15	Total reflection X-ray fluorescence as a tool for food screening. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2015, 113, 1-15.	1.5	57
16	Metal-free organic sensitizers with a sterically hindered thiophene unit for efficient dye-sensitized solar cells. Journal of Materials Chemistry, 2011, 21, 13785.	6.7	54
17	Fabrication and investigation of gas sensing properties of Nb-doped TiO ₂ nanotubular arrays. Nanotechnology, 2012, 23, 235706.	1.3	51
18	Embodied energy as key parameter for sustainable materials selection: The case of reusing coal fly ash for removing anionic surfactants. Journal of Cleaner Production, 2017, 141, 230-236.	4.6	50

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19	Assessing the contributions of metals in environmental media to exposure biomarkers in a region of ferroalloy industry. <i>Journal of Exposure Science and Environmental Epidemiology</i> , 2019, 29, 674-687.	1.8	44
20	A new non-destructive method for chemical analysis of particulate matter filters: The case of manganese air pollution in Vallecamonica (Italy). <i>Talanta</i> , 2011, 84, 192-198.	2.9	43
21	Tailoring the textured surface of porous nanostructured NiO thin films for the detection of pollutant gases. <i>Thin Solid Films</i> , 2015, 583, 233-238.	0.8	43
22	Use of total reflection X-ray fluorescence (TXRF) for the evaluation of heavy metal poisoning due to the improper use of a traditional ayurvedic drug. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2010, 52, 787-790.	1.4	42
23	A new method to inertize incinerator toxic fly ash with silica from rice husk ash. <i>Environmental Chemistry Letters</i> , 2013, 11, 329-333.	8.3	42
24	1B/($\hat{\alpha}$)IRE DMT1 Expression during Brain Ischemia Contributes to Cell Death Mediated by NF- $\hat{\rho}$ B/RelA Acetylation at Lys310. <i>PLoS ONE</i> , 2012, 7, e38019.	1.1	40
25	Airborne particulate matter (PM) filter analysis and modeling by total reflection X-ray fluorescence (TXRF) and X-ray standing wave (XSW). <i>Talanta</i> , 2012, 89, 99-104.	2.9	38
26	Microstructure and elastic properties of atomic layer deposited TiO ₂ anatase thin films. <i>Acta Materialia</i> , 2011, 59, 2891-2900.	3.8	32
27	First Total Reflection X-Ray Fluorescence round-robin test of water samples: Preliminary results. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2014, 101, 6-14.	1.5	31
28	Elemental analysis of tree leaves by total reflection X-ray fluorescence: New approaches for air quality monitoring. <i>Chemosphere</i> , 2017, 178, 504-512.	4.2	31
29	Comparison between rice husk ash grown in different regions for stabilizing fly ash from a solid waste incinerator. <i>Journal of Environmental Management</i> , 2015, 159, 128-134.	3.8	30
30	Elemental analysis of teas, herbs and their infusions by means of total reflection X-ray fluorescence. <i>Journal of Food Composition and Analysis</i> , 2018, 67, 128-134.	1.9	29
31	Analytical performance of benchtop total reflection X-ray fluorescence instrumentation for multielemental analysis of wine samples. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2016, 120, 37-43.	1.5	28
32	Aerosol Pollutants during Agricultural Biomass Burning: A Case Study in Ba Vi Region in Hanoi, Vietnam. <i>Aerosol and Air Quality Research</i> , 2017, 17, 2762-2779.	0.9	28
33	Physico-chemical characterization of IrO ₂ SnO ₂ sol-gel nanopowders for electrochemical applications. <i>Journal of Applied Electrochemistry</i> , 2009, 39, 2093-2105.	1.5	27
34	Inertisation of heavy metals in municipal solid waste incineration fly ash by means of colloidal silica $\hat{\alpha}$ a synchrotron X-ray diffraction and absorption study. <i>RSC Advances</i> , 2013, 3, 14339.	1.7	27
35	Evaluation of different quantification modes for a simple and reliable determination of Pb, Zn and Cd in soil suspensions by total reflection X-ray fluorescence spectrometry. <i>Journal of Analytical Atomic Spectrometry</i> , 2019, 34, 930-939.	1.6	27
36	Comprehensive approach to the validation of the standard method for total reflection X-ray fluorescence analysis of water. <i>Talanta</i> , 2018, 181, 165-171.	2.9	26

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37	Total reflection X-ray fluorescence (TXRF) for direct analysis of aerosol particle samples. <i>Environmental Technology</i> (United Kingdom), 2010, 31, 467-477.	1.2	25
38	Biosafe inertization of municipal solid waste incinerator residues by COSMOS technology. <i>Journal of Hazardous Materials</i> , 2014, 279, 311-321.	6.5	25
39	TXRF analysis of soils and sediments to assess environmental contamination. <i>Environmental Science and Pollution Research</i> , 2014, 21, 13208-13214.	2.7	25
40	Study of metal release from stainless steels in simulated food contact by means of total reflection X-ray fluorescence. <i>Journal of Food Engineering</i> , 2016, 173, 85-91.	2.7	25
41	Integrated management of ash from industrial and domestic combustion: a new sustainable approach for reducing greenhouse gas emissions from energy conversion. <i>Environmental Science and Pollution Research</i> , 2017, 24, 14834-14846.	2.7	23
42	The first material made for air pollution control able to sequester fine and ultrafine air particulate matter. <i>Sustainable Cities and Society</i> , 2020, 53, 101961.	5.1	23
43	Rice Husk Ash to Stabilize Heavy Metals Contained in Municipal Solid Waste Incineration Fly Ash: First Results by Applying New Pre-treatment Technology. <i>Materials</i> , 2015, 8, 6868-6879.	1.3	22
44	SUNSPACE, A Porous Material to Reduce Air Particulate Matter (PM). <i>Frontiers in Chemistry</i> , 2018, 6, 534.	1.8	22
45	Poultry litter ash characterisation and recovery. <i>Waste Management</i> , 2020, 111, 10-21.	3.7	22
46	Evaluation of Heavy Metals Contamination from Environment to Food Matrix by TXRF: The Case of Rice and Rice Husk. <i>Journal of Chemistry</i> , 2015, 2015, 1-12.	0.9	21
47	Comparison of multiple X-ray fluorescence techniques for elemental analysis of particulate matter collected on air filters. <i>Journal of Aerosol Science</i> , 2018, 122, 1-10.	1.8	20
48	Total reflection X-ray fluorescence spectroscopy to study Pb and Zn accumulation in zebrafish embryos. <i>X-Ray Spectrometry</i> , 2015, 44, 124-128.	0.9	19
49	Fly Ash Pollutants, Treatment and Recycling. <i>Environmental Chemistry for A Sustainable World</i> , 2013, , 103-213.	0.3	18
50	Determination of trace elements in Italian wines by means of total reflection X-ray fluorescence spectroscopy. <i>International Journal of Environmental Analytical Chemistry</i> , 2015, 95, 1208-1218.	1.8	16
51	Arsenic stabilization in coal fly ash through the employment of waste materials. <i>Journal of Environmental Chemical Engineering</i> , 2014, 2, 1352-1357.	3.3	15
52	A Player Often Neglected: Electrochemical Comprehensive Analysis of Counter Electrodes for Quantum Dot Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 7766-7776.	4.0	15
53	A New Powder Filler, Obtained by Applying a New Technology for Fly Ash Inertisation Procedure. <i>Advances in Science and Technology</i> , 0, , .	0.2	14
54	The assessment of a method for measurements and lead quantification in air particulate matter using total reflection X-ray fluorescence spectrometers. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2020, 167, 105840.	1.5	14

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55	Electrochemically assisted deposition on TiO ₂ scaffold for Tissue Engineering: an apatite bio-inspired crystallization pathway. <i>Journal of Materials Chemistry</i> , 2011, 21, 400-407.	6.7	13
56	Atomic layer deposition to prevent metal transfer from implants: An X-ray fluorescence study. <i>Applied Surface Science</i> , 2015, 359, 215-220.	3.1	13
57	Laboratory two-dimensional X-ray microdiffraction technique: a support for authentication of an unknown Ghirlandaio painting. <i>Applied Physics A: Materials Science and Processing</i> , 2008, 92, 155-159.	1.1	12
58	Sensitive determination of the Young's modulus of thin films by polymeric microcantilevers. <i>Measurement Science and Technology</i> , 2013, 24, 125603.	1.4	12
59	Sputtering deposition of amorphous cadmium stannate as transparent conducting oxide. <i>Thin Solid Films</i> , 2012, 520, 2739-2744.	0.8	11
60	COSMOS-rice technology abrogates the biotoxic effects of municipal solid waste incinerator residues. <i>Environmental Pollution</i> , 2016, 214, 713-721.	3.7	11
61	Grain Size Effect in Elution Test of Electric Arc Furnace Slag. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 477.	1.3	11
62	New electrocatalytic materials based on mixed metal oxides: electrochemical quartz crystal microbalance characterization. <i>Journal of Applied Electrochemistry</i> , 2008, 38, 973-978.	1.5	10
63	Simultaneous amorphous silica and phosphorus recovery from rice husk poultry litter ash. <i>RSC Advances</i> , 2021, 11, 8927-8939.	1.7	10
64	Tailoring phase and composition at the nanoscale: atomic layer deposition of Zn-Ti-O thin films. <i>CrystEngComm</i> , 2011, 13, 6621.	1.3	9
65	Summary of ISO standard 20289: Total reflection X-ray fluorescence analysis of water. <i>Surface and Interface Analysis</i> , 2020, 52, 119-123.	0.8	9
66	Indoor and Outdoor Air Quality for Sustainable Life: A Case Study of Rural and Urban Settlements in Poor Neighbourhoods in Kenya. <i>Sustainability</i> , 2021, 13, 2417.	1.6	9
67	Potential of total reflection X-ray spectrometry for multielement analysis of biological samples using dilution or suspension sample preparation techniques. <i>X-Ray Spectrometry</i> , 2022, 51, 230-240.	0.9	9
68	In situ XRD characterization of hydrogen desorption from electrochemically deposited Pd coating. <i>Journal of Coatings Technology Research</i> , 2010, 7, 691-695.	1.2	8
69	Chemical Analysis of Air Particulate Matter Trapped by a Porous Material, Synthesized from Silica Fume and Sodium Alginate. <i>Journal of Nanomaterials</i> , 2019, 2019, 1-9.	1.5	8
70	Stabilization of Municipal Solid Waste Fly Ash, Obtained by Co-Combustion with Sewage Sludge, Mixed with Bottom Ash Derived by the Same Plant. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 6075.	1.3	8
71	A new nanotechnology of fly ash inertization based on the use of silica gel extracted from rice husk ash and microwave treatment. <i>Proceedings of the Institution of Mechanical Engineers, Part N: Journal of Nanoengineering and Nanosystems</i> , 2014, 228, 27-32.	0.1	7
72	Food Waste-Assisted Metal Extraction from Printed Circuit Boards: The <i>Aspergillus niger</i> Route. <i>Microorganisms</i> , 2021, 9, 895.	1.6	7

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73	A green and simple process to develop conductive polyurethane foams for biomedical applications. International Journal of Polymeric Materials and Polymeric Biomaterials, 2019, 68, 126-133.	1.8	6
74	Micro-Raman Spectroscopy Investigation of Crystalline Phases in EAF Slag. Applied Sciences (Switzerland), 2020, 10, 4115.	1.3	6
75	Enhanced Electrocatalytic Oxygen Evolution in Au@Fe Nanoalloys. Angewandte Chemie, 2017, 129, 6689-6693.	1.6	5
76	Atomic layer deposition of semiconductor oxides on electric sail tethers. Thin Solid Films, 2017, 621, 195-201.	0.8	3
77	Contamination of Heavy Metals and Nutrients in Sediment, Sludge and Sewage of India. International Journal of Geosciences, 2015, 06, 1179-1192.	0.2	3
78	Metals release from stainless steel knives in simulated food contact. Food Additives and Contaminants: Part B Surveillance, 2022, 15, 203-211.	1.3	3
79	Electrical resistivity of Ti@Zn mixed oxide thin films deposited by atomic layer deposition. Thin Solid Films, 2012, 520, 5151-5154.	0.8	2
80	Water Splitting: Fe ₂ O ₃ @TiO ₂ Nano-heterostructure Photoanodes for Highly Efficient Solar Water Oxidation (Adv. Mater. Interfaces 17/2015). Advanced Materials Interfaces, 2015, 2, .	1.9	2
81	Direct analysis of essential oils by means of TXRF spectrometry. X-Ray Spectrometry, 2020, 49, 322-331.	0.9	2
82	Procedure optimization of type 304 and 420B stainless steels release in acetic acid. Food Control, 2021, 120, 107509.	2.8	2
83	Assessment of Integrated Aerosol Sampling Techniques in Indoor, Confined and Outdoor Environments Characterized by Specific Emission Sources. Applied Sciences (Switzerland), 2021, 11, 4360.	1.3	2
84	Definition of an Indoor Air Sampling Strategy for SARS-CoV-2 Detection and Risk Management: Case Study in Kindergartens. International Journal of Environmental Research and Public Health, 2022, 19, 7406.	1.2	2
85	Feasibility Study for the Development of a Honey-Reference Material. , 2013, , .		1
86	Neurobehavioral Effects of Manganese Exposure Through Inhalation and Dietary Intake in Italian Adolescents. Epidemiology, 2009, 20, S256.	1.2	1
87	Contamination of Arsenic and Other Heavy Metals in Rhizospheric Soil. American Journal of Analytical Chemistry, 2015, 06, 822-829.	0.3	1
88	Repairing Damage Caused by Burrowing Animals in Embankments: A Sustainable Proposal. Applied Sciences (Switzerland), 2022, 12, 2548.	1.3	1
89	Total Reflection X-Ray Fluorescence (TXRF) spectroscopy for environmental and biological analysis. - Réflexion spectroscopie des rayons X de fluorescence totale dans l'analyse biologique et de l'environnement.. , 2013, , .		0
90	(Invited) ALD to Prevent Metal Transfer from Implants. ECS Meeting Abstracts, 2016, , .	0.0	0