

Laura Borgese

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

85
papers

1,937
citations

26
h-index

39
g-index

92
ext. papers

2,210
ext. citations

4.7
avg, IF

4.64
L-index

#	Paper	IF	Citations
85	Review of fly ash inertisation treatments and recycling. <i>Environmental Chemistry Letters</i> , 2014 , 12, 153-175	5.3	138
84	Fe ₂ O ₃ ∥TiO ₂ Nano-heterostructure Photoanodes for Highly Efficient Solar Water Oxidation. <i>Advanced Materials Interfaces</i> , 2015 , 2, 1500313	4.6	83
83	A new method for municipal solid waste incinerator (MSWI) fly ash inertization, based on colloidal silica. <i>Journal of Environmental Monitoring</i> , 2010 , 12, 2093-9		71
82	Neurofunctional dopaminergic impairment in elderly after lifetime exposure to manganese. <i>NeuroToxicology</i> , 2014 , 45, 309-17	4.4	61
81	Metal fractionation in soils and assessment of environmental contamination in Vallecamonica, Italy. <i>Environmental Science and Pollution Research</i> , 2013 , 20, 5067-75	5.1	58
80	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. <i>Chemical Engineering Journal</i> , 2014 , 253, 377-384	14.7	58
79	Waste silica sources as heavy metal stabilizers for municipal solid waste incineration fly ash. <i>Arabian Journal of Chemistry</i> , 2017 , 10, S3676-S3681	5.9	55
78	Total reflection of x-ray fluorescence (TXRF): a mature technique for environmental chemical nanoscale metrology. <i>Measurement Science and Technology</i> , 2009 , 20, 084027	2	53
77	Chemical Stabilization of Municipal Solid Waste Incineration Fly Ash without Any Commercial Chemicals: First Pilot-Plant Scaling Up. <i>ACS Sustainable Chemistry and Engineering</i> , 2016 , 4, 5561-5569	8.3	53
76	Polymer-grafted QCM chemical sensor and application to heavy metal ions real time detection. <i>Sensors and Actuators B: Chemical</i> , 2011 , 155, 539-544	8.5	51
75	Enhanced Electrocatalytic Oxygen Evolution in Au-Fe Nanoalloys. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 6589-6593	16.4	50
74	Metal-free organic sensitizers with a sterically hindered thiophene unit for efficient dye-sensitized solar cells. <i>Journal of Materials Chemistry</i> , 2011 , 21, 13785		50
73	Young modulus and Poisson ratio measurements of TiO ₂ thin films deposited with Atomic Layer Deposition. <i>Surface and Coatings Technology</i> , 2012 , 206, 2459-2463	4.4	48
72	Fabrication and investigation of gas sensing properties of Nb-doped TiO ₂ nanotubular arrays. <i>Nanotechnology</i> , 2012 , 23, 235706	3.4	46
71	Total reflection X-ray fluorescence as a tool for food screening. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2015 , 113, 1-15	3.1	42
70	Multi-element analysis of vegetal foodstuff by means of low power total reflection X-ray fluorescence (TXRF) spectrometry. <i>Food Chemistry</i> , 2017 , 218, 348-355	8.5	41
69	A new method to inertize incinerator toxic fly ash with silica from rice husk ash. <i>Environmental Chemistry Letters</i> , 2013 , 11, 329-333	13.3	37

68	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, 192-8	6.2	37
67	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	2.2	35
66	Embodied energy as key parameter for sustainable materials selection: The case of reusing coal fly ash for removing anionic surfactants. <i>Journal of Cleaner Production</i> , 2017 , 141, 230-236	10.3	35
65	Miniaturized Near-Infrared (MicroNIR) Spectrometer in Plastic Waste Sorting. <i>Materials</i> , 2019 , 12,	3.5	34
64	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, 787-90	3.5	34
63	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	6.2	32
62	1B/(-)IRE DMT1 expression during brain ischemia contributes to cell death mediated by NF- κ B/RelA acetylation at Lys310. <i>PLoS ONE</i> , 2012 , 7, e38019	3.7	32
61	Microstructure and elastic properties of atomic layer deposited TiO ₂ anatase thin films. <i>Acta Materialia</i> , 2011 , 59, 2891-2900	8.4	29
60	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	3.1	28
59	Elemental analysis of tree leaves by total reflection X-ray fluorescence: New approaches for air quality monitoring. <i>Chemosphere</i> , 2017 , 178, 504-512	8.4	26
58	Biosafe inertization of municipal solid waste incinerator residues by COSMOS technology. <i>Journal of Hazardous Materials</i> , 2014 , 279, 311-21	12.8	25
57	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	5.1	23
56	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	3.1	23
55	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	7.9	22
54	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	4.1	22
53	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	6.2	22
52	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	6.7	22
51	Inertisation of heavy metals in municipal solid waste incineration fly ash by means of colloidal silica \square synchrotron X-ray diffraction and absorption study. <i>RSC Advances</i> , 2013 , 3, 14339	3.7	21

50	Total reflection X-ray fluorescence (TXRF) for direct analysis of aerosol particle samples. <i>Environmental Technology (United Kingdom)</i> , 2010 , 31, 467-77	2.6	21
49	Physico-chemical characterization of IrO ₂ /SnO ₂ sol-gel nanopowders for electrochemical applications. <i>Journal of Applied Electrochemistry</i> , 2009 , 39, 2093-2105	2.6	21
48	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	3.7	18
47	TXRF analysis of soils and sediments to assess environmental contamination. <i>Environmental Science and Pollution Research</i> , 2014 , 21, 13208-14	5.1	18
46	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	10.1	18
45	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	17
44	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	3.5	17
43	SUNSPACE, A Porous Material to Reduce Air Particulate Matter (PM). <i>Frontiers in Chemistry</i> , 2018 , 6, 5345		17
42	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	4.6	16
41	A Player Often Neglected: Electrochemical Comprehensive Analysis of Counter Electrodes for Quantum Dot Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 7766-76	9.5	14
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	6	14
39	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	2.3	13
38	A New Powder Filler, Obtained by Applying a New Technology for Fly Ash Inertisation Procedure. <i>Advances in Science and Technology</i> , 2010 , 62, 27-33	0.1	13
37	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		13
36	Poultry litter ash characterisation and recovery. <i>Waste Management</i> , 2020 , 111, 10-21	8.6	12
35	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	4.3	12
34	Sensitive determination of the Young's modulus of thin films by polymeric microcantilevers. <i>Measurement Science and Technology</i> , 2013 , 24, 125603	2	12
33	Atomic layer deposition to prevent metal transfer from implants: An X-ray fluorescence study. <i>Applied Surface Science</i> , 2015 , 359, 215-220	6.7	12

32	Arsenic stabilization in coal fly ash through the employment of waste materials. <i>Journal of Environmental Chemical Engineering</i> , 2014 , 2, 1352-1357	6.8	11
31	Sputtering deposition of amorphous cadmium stannate as transparent conducting oxide. <i>Thin Solid Films</i> , 2012 , 520, 2739-2744	2.2	11
30	Fly Ash Pollutants, Treatment and Recycling. <i>Environmental Chemistry for A Sustainable World</i> , 2013 , 103-213	0.8	11
29	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	2.6	11
28	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	10
27	COSMOS-rice technology abrogates the biotoxic effects of municipal solid waste incinerator residues. <i>Environmental Pollution</i> , 2016 , 214, 713-721	9.3	10
26	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	3.2	8
25	Grain Size Effect in Elution Test of Electric Arc Furnace Slag. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 477	2.6	8
24	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	3.1	8
23	Tailoring phase and composition at the nanoscale: atomic layer deposition of ZnO thin films. <i>CrystEngComm</i> , 2011 , 13, 6621	3.3	8
22	New electrocatalytic materials based on mixed metal oxides: electrochemical quartz crystal microbalance characterization. <i>Journal of Applied Electrochemistry</i> , 2008 , 38, 973-978	2.6	8
21	Summary of ISO standard 20289: Total reflection X-ray fluorescence analysis of water. <i>Surface and Interface Analysis</i> , 2020 , 52, 119-123	1.5	7
20	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		6
19	In situ XRD characterization of hydrogen desorption from electrochemically deposited Pd coating. <i>Journal of Applied Electrochemistry</i> , 2010 , 7, 691-695		6
18	Simultaneous amorphous silica and phosphorus recovery from rice husk poultry litter ash.. <i>RSC Advances</i> , 2021 , 11, 8927-8939	3.7	6
17	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	2.6	5
16	Enhanced Electrocatalytic Oxygen Evolution in AuBe Nanoalloys. <i>Angewandte Chemie</i> , 2017 , 129, 6689-6693	5.3	4
15	A green and simple process to develop conductive polyurethane foams for biomedical applications. <i>International Journal of Polymeric Materials and Polymeric Biomaterials</i> , 2019 , 68, 126-133	3	3

14	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	3.6	3
13	Atomic layer deposition of semiconductor oxides on electric sail tethers. <i>Thin Solid Films</i> , 2017 , 621, 195-201	2.0	2
12	Water Splitting: Fe ₂ O ₃ /TiO ₂ Nano-heterostructure Photoanodes for Highly Efficient Solar Water Oxidation (Adv. Mater. Interfaces 17/2015). <i>Advanced Materials Interfaces</i> , 2015 , 2,	4.6	2
11	Contamination of Heavy Metals and Nutrients in Sediment, Sludge and Sewage of India. <i>International Journal of Geosciences</i> , 2015 , 06, 1179-1192	0.4	2
10	P-Type NiO Thin Films Prepared by Sputtering for Detection of Pollutants. <i>Lecture Notes in Electrical Engineering</i> , 2014 , 121-125	0.2	2
9	Food Waste-Assisted Metal Extraction from Printed Circuit Boards: The Route. <i>Microorganisms</i> , 2021 , 9,	4.9	2
8	Micro-Raman Spectroscopy Investigation of Crystalline Phases in EAF Slag. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 4115	2.6	1
7	Electrical resistivity of TiZn mixed oxide thin films deposited by atomic layer deposition. <i>Thin Solid Films</i> , 2012 , 520, 5151-5154	2.2	1
6	Feasibility Study for the Development of a Honey-Reference Material 2013 ,		1
5	Contamination of Arsenic and Other Heavy Metals in Rhizospheric Soil. <i>American Journal of Analytical Chemistry</i> , 2015 , 06, 822-829	0.7	1
4	Procedure optimization of type 304 and 420B stainless steels release in acetic acid. <i>Food Control</i> , 2021 , 120, 107509	6.2	1
3	Direct analysis of essential oils by means of TXRF spectrometry. <i>X-Ray Spectrometry</i> , 2020 , 49, 322-331	0.9	0
2	Assessment of Integrated Aerosol Sampling Techniques in Indoor, Confined and Outdoor Environments Characterized by Specific Emission Sources. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 4360	2.6	
1	Repairing Damage Caused by Burrowing Animals in Embankments: A Sustainable Proposal. <i>Applied Sciences (Switzerland)</i> , 2022 , 12, 2548	2.6	