

# Marco Grotti

## List of Publications by Citations

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104  
papers

1,772  
citations

24  
h-index

33  
g-index

106  
ext. papers

2,005  
ext. citations

4  
avg, IF

4.75  
L-index

#	Paper	IF	Citations
104	Trace metals distributions in coastal sea ice of Terra Nova Bay, Ross Sea, Antarctica. <i>Antarctic Science</i> , <b>2005</b> , 17, 289-300	1.7	76
103	Temporal distribution of trace metals in Antarctic coastal waters. <i>Marine Chemistry</i> , <b>2001</b> , 76, 189-209	3.7	72
102	Multivariate study in chemical vapor generation for simultaneous determination of arsenic, antimony, bismuth, germanium, tin, selenium, tellurium and mercury by inductively coupled plasma optical emission spectrometry. <i>Journal of Analytical Atomic Spectrometry</i> , <b>2005</b> , 20, 1365	3.7	55
101	Sulfate source apportionment in the Ny-Ålesund (Svalbard Islands) Arctic aerosol. <i>Rendiconti Lincei</i> , <b>2016</b> , 27, 85-94	1.7	54
100	Determination of sub-nanomolar levels of iron in sea-water using reaction cell inductively coupled plasma mass spectrometry after Mg(OH) <sub>2</sub> coprecipitation. <i>Journal of Analytical Atomic Spectrometry</i> , <b>2009</b> , 24, 522	3.7	46
99	Comparison of inductively coupled plasma spectrometry techniques for the direct determination of rare earth elements in digests from geological samples. <i>Analytica Chimica Acta</i> , <b>2010</b> , 678, 18-25	6.6	46
98	Effect of operating conditions on excitation temperature and electron number density in axially-viewed ICP-OES with introduction of vapours or aerosols. <i>Journal of Analytical Atomic Spectrometry</i> , <b>2006</b> , 21, 963	3.7	44
97	Heated-spray chamber-based low sample consumption system for inductively coupled plasma spectrometry. <i>Journal of Analytical Atomic Spectrometry</i> , <b>2009</b> , 24, 903	3.7	41
96	Natural variability and distribution of trace elements in marine organisms from Antarctic coastal environments. <i>Antarctic Science</i> , <b>2008</b> , 20, 39-52	1.7	39
95	Selection of internal standards in inductively coupled plasma atomic emission spectrometry by principal component analysis. <i>Journal of Analytical Atomic Spectrometry</i> , <b>2003</b> , 18, 274-281	3.7	39
94	Iron in sea ice: Review and new insights. <i>Elementa</i> , <b>2016</b> , 4,	3.6	37
93	Arsenobetaine is a significant arsenical constituent of the red Antarctic alga <i>Phyllophora antarctica</i> . <i>Environmental Chemistry</i> , <b>2008</b> , 5, 171	3.2	33
92	Ultratrace analysis of Antarctic snow samples by reaction cell inductively coupled plasma mass spectrometry using a total-consumption micro-sample-introduction system. <i>Analyst, The</i> , <b>2008</b> , 133, 1388-94	5.1	32
91	Bioavailability of trace elements in surface sediments from Kongsfjorden, Svalbard. <i>Marine Pollution Bulletin</i> , <b>2013</b> , 77, 367-74	6.7	31
90	Organic ligands control the concentrations of dissolved iron in Antarctic sea ice. <i>Marine Chemistry</i> , <b>2015</b> , 174, 120-130	3.7	29
89	Speciation analysis by small-bore HPLC coupled to ICP-MS. <i>TrAC - Trends in Analytical Chemistry</i> , <b>2014</b> , 61, 92-106	14.6	28
88	Conversion of rare earth elements to molecular oxide ions in a dynamic reaction cell and consequences on their determination by inductively coupled plasma mass spectrometry. <i>Journal of Analytical Atomic Spectrometry</i> , <b>2010</b> , 25, 1588	3.7	28

87	Anthropogenic and natural sources of particulate trace elements in the coastal marine environment of Kongsfjorden, Svalbard. <i>Marine Chemistry</i> , <b>2014</b> , 163, 28-35	3.7	27
86	Direct determination of arsenic in sea-water by reaction cell inductively coupled plasma mass spectrometry. <i>Journal of Analytical Atomic Spectrometry</i> , <b>2007</b> , 22, 1481	3.7	27
85	Summer distribution of trace metals in the western sector of the Ross Sea, Antarctica. <i>Journal of Environmental Monitoring</i> , <b>2005</b> , 7, 1256-64		26
84	Determination of ultratrace elements in natural waters by solid-phase extraction and atomic spectrometry methods. <i>Analytical and Bioanalytical Chemistry</i> , <b>2003</b> , 375, 242-7	4.4	26
83	Major and trace element partitioning between dissolved and particulate phases in Antarctic surface snow. <i>Journal of Environmental Monitoring</i> , <b>2011</b> , 13, 2511-20		25
82	Size distribution and ion composition of aerosol collected at Ny-Ålesund in the spring/summer field campaign 2013. <i>Rendiconti Lincei</i> , <b>2016</b> , 27, 47-58	1.7	25
81	Source assessment of atmospheric lead measured at Ny-Ålesund, Svalbard. <i>Atmospheric Environment</i> , <b>2015</b> , 113, 20-26	5.3	24
80	Effects of Ice Melting on Cu, Cd and Pb Profiles in Ross Sea Waters (Antarctica). <i>International Journal of Environmental Analytical Chemistry</i> , <b>2001</b> , 79, 301-313	1.8	24
79	Determination of ultratrace levels of dissolved metals in seawater by reaction cell inductively coupled plasma mass spectrometry after ammonia induced magnesium hydroxide coprecipitation. <i>Analytica Chimica Acta</i> , <b>2011</b> , 706, 84-8	6.6	23
78	Total introduction of microsamples in inductively coupled plasma mass spectrometry by high-temperature evaporation chamber with a sheathing gas stream. <i>Analytica Chimica Acta</i> , <b>2013</b> , 767, 14-20	6.6	21
77	Multivariate investigation of matrix effects in inductively coupled plasma atomic emission spectrometry using pneumatic or ultrasonic nebulization. <i>Journal of Analytical Atomic Spectrometry</i> , <b>2000</b> , 15, 89-95	3.7	21
76	Arsenic speciation analysis of environmental samples. <i>Journal of Analytical Atomic Spectrometry</i> , <b>2020</b> , 35, 215-237	3.7	21
75	Reduction of acid effects in inductively coupled plasma optical emission spectrometry using internal standards selected by principal component analysis. <i>Journal of Analytical Atomic Spectrometry</i> , <b>2003</b> , 18, 1192	3.7	20
74	Improving the analytical performances of ICP-AES by using a high-temperature single-pass spray chamber and segmented-injections micro-sample introduction for the analysis of environmental samples. <i>Journal of Analytical Atomic Spectrometry</i> , <b>2012</b> , 27, 1400	3.7	19
73	High temperature liquid chromatography-inductively coupled plasma mass spectrometry for the determination of arsenosugars in biological samples. <i>Journal of Chromatography A</i> , <b>2012</b> , 1262, 70-6	4.5	19
72	Combined effects of hydrographic structure and iron and copper availability on the phytoplankton growth in Terra Nova Bay Polynya (Ross Sea, Antarctica). <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , <b>2012</b> , 62, 97-110	2.5	19
71	Improving the analytical performances of inductively coupled plasma optical emission spectrometry by multivariate analysis techniques. <i>Annali Di Chimica</i> , <b>2004</b> , 94, 1-15		19
70	Lead isotopic analysis of Antarctic snow using multi-collector ICP-mass spectrometry. <i>Journal of Analytical Atomic Spectrometry</i> , <b>2015</b> , 30, 1322-1328	3.7	18

69	Determination of lead isotope ratios in environmental matrices by quadrupole ICP-MS working at low sample consumption rates. <i>Journal of Analytical Atomic Spectrometry</i> , <b>2014</b> , 29, 926	3.7	18
68	Determination of manganese by graphite furnace atomic absorption spectrometry: matrix effect control by multiple linear regression model. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , <b>1999</b> , 54, 845-851	3.1	18
67	Chlorophyll-a in Antarctic Landfast Sea Ice: A First Synthesis of Historical Ice Core Data. <i>Journal of Geophysical Research: Oceans</i> , <b>2018</b> , 123, 8444-8459	3.3	17
66	An integrated study of the chemical composition of Antarctic aerosol to investigate natural and anthropogenic sources. <i>Environmental Chemistry</i> , <b>2016</b> , 13, 867	3.2	16
65	Source identification and temporal evolution of trace elements in PM10 collected near to Ny-Ålesund (Norwegian Arctic). <i>Atmospheric Environment</i> , <b>2019</b> , 203, 153-165	5.3	16
64	Determination of selenium urinary metabolites by high temperature liquid chromatography-inductively coupled plasma mass spectrometry. <i>Journal of Chromatography A</i> , <b>2015</b> , 1380, 112-9	4.5	15
63	Biogeochemical cycling of Pb in the coastal marine environment at Terra Nova Bay, Ross Sea. <i>Antarctic Science</i> , <b>2003</b> , 15, 425-432	1.7	15
62	Vaporization of indium nitrate in the graphite tube atomizer in the presence of chemical modifiers. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , <b>2001</b> , 56, 375-391	3.1	15
61	Year-round record of dissolved and particulate metals in surface snow at Dome Concordia (East Antarctica). <i>Chemosphere</i> , <b>2015</b> , 138, 916-23	8.4	14
60	Long-range transport of atmospheric lead reaching Ny-Ålesund: Inter-annual and seasonal variations of potential source areas. <i>Atmospheric Environment</i> , <b>2016</b> , 139, 11-19	5.3	14
59	Influence of chemical species on the determination of arsenic using inductively coupled plasma mass spectrometry at a low liquid flow rate. <i>Journal of Analytical Atomic Spectrometry</i> , <b>2013</b> , 28, 1718	3.7	14
58	Arsenic speciation in marine organisms from Antarctic coastal environments. <i>Environmental Chemistry</i> , <b>2010</b> , 7, 207	3.2	14
57	Combined effects of inorganic acids in inductively coupled plasma optical emission spectrometry. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , <b>2002</b> , 57, 1915-1924	3.1	14
56	Determination of trace metals in sea-water by electrothermal atomic absorption spectrometry following solid-phase extraction: quantification and reduction of residual matrix effects. <i>Journal of Analytical Atomic Spectrometry</i> , <b>2002</b> , 17, 46-51	3.7	14
55	Mesoscale variability related to iron speciation in a coastal Ross Sea area (Antarctica) during summer 2014. <i>Chemistry and Ecology</i> , <b>2019</b> , 35, 1-19	2.3	14
54	Iron Speciation of Natural and Anthropogenic Dust by Spectroscopic and Chemical Methods. <i>Atmosphere</i> , <b>2019</b> , 10, 8	2.7	13
53	Fast Determination of Toxic Arsenic Species in Food Samples Using Narrow-bore High-Performance Liquid-Chromatography Inductively Coupled Plasma Mass Spectrometry. <i>Analytical Sciences</i> , <b>2016</b> , 32, 911-5	1.7	13
52	Recent findings of halogenated flame retardants (HFR) in the German and Polar environment. <i>Environmental Pollution</i> , <b>2019</b> , 253, 850-863	9.3	13

51	Arsenic species in certified reference material MURST-ISS-A2 (Antarctic krill). <i>Talanta</i> , <b>2010</b> , 80, 1441-4	6.2	13
50	Heavy metals distribution in the Eolian Basin (South Tyrrhenian Sea). <i>Marine Pollution Bulletin</i> , <b>1998</b> , 36, 880-886	6.7	13
49	3,3'-Dichlorobiphenyl (non-Aroclor PCB-11) as a marker of non-legacy PCB contamination in marine species: comparison between Antarctic and Mediterranean bivalves. <i>Chemosphere</i> , <b>2017</b> , 175, 28-35	8.4	12
48	Elemental and lead isotopic composition of atmospheric particulate measured in the Arctic region (Ny-Ålesund, Svalbard Islands). <i>Rendiconti Lincei</i> , <b>2016</b> , 27, 73-84	1.7	12
47	Fast determination of arsenosugars in algal extracts by narrow bore high-performance liquid chromatography-inductively coupled plasma mass spectrometry. <i>Journal of Chromatography A</i> , <b>2010</b> , 1217, 7428-33	4.5	12
46	Empirical modelling of interferences in electrothermal atomization atomic absorption spectrometry. <i>Analytica Chimica Acta</i> , <b>1998</b> , 376, 293-304	6.6	12
45	Study of the absence of recondensation with low liquid delivery rates by using a cavity sheathing gas in inductively coupled plasma-atomic emission spectrometry. <i>Journal of Analytical Atomic Spectrometry</i> , <b>2007</b> , 22, 523	3.7	12
44	Building and analyzing models from data by stirred tank experiments for investigation of matrix effects caused by inorganic matrices and selection of internal standards in Inductively Coupled Plasma-Atomic Emission Spectroscopy. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , <b>2008</b> , 63, 571-584	3.1	12
43	A new nebulization device with exchangeable aerosol generation mode as a useful tool to investigate sample introduction processes in inductively coupled plasma atomic emission spectrometry. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , <b>2004</b> , 59, 1001-1006	3.1	12
42	Reduction of interferences in graphite furnace atomic absorption spectrometry by multiple linear regression modelling. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , <b>2000</b> , 55, 1847-1860	3.1	12
41	Source identification of atmospheric particle-bound metals at Terra Nova Bay, Antarctica. <i>Environmental Chemistry</i> , <b>2015</b> , 12, 245	3.2	11
40	Influence of organic complexation on dissolved iron distribution in East Antarctic pack ice. <i>Marine Chemistry</i> , <b>2018</b> , 203, 28-37	3.7	11
39	Inductively coupled plasma optical emission spectrometric determination of trace elements in sediments after sequential selective extraction: effects of reagents and major elements on the analytical signal. <i>Talanta</i> , <b>2002</b> , 57, 1053-66	6.2	11
38	Study of interferences in graphite furnace atomic absorption spectrometry by means of experimental design. <i>Analytica Chimica Acta</i> , <b>1996</b> , 327, 47-51	6.6	11
37	Trace elements in surface sediments from Kongsfjorden, Svalbard: occurrence, sources and bioavailability. <i>International Journal of Environmental Analytical Chemistry</i> , <b>2017</b> , 97, 401-418	1.8	10
36	Ionic profiling of <i>Nicotiana glauca</i> wild-type and mutant genotypes exposed to abiotic stresses. <i>Analytical and Bioanalytical Chemistry</i> , <b>2013</b> , 405, 665-77	4.4	10
35	Inter-laboratory study for the certification of trace elements in seawater certified reference materials NASS-7 and CASS-6. <i>Analytical and Bioanalytical Chemistry</i> , <b>2018</b> , 410, 4469-4479	4.4	9
34	Trace elements in marine particulate and surface sediments of Kongsfjorden, Svalbard Islands. <i>Rendiconti Lincei</i> , <b>2016</b> , 27, 183-190	1.7	9

33	An in situ filtration system for trace element determination in suspended particulate matter. <i>Analytica Chimica Acta</i> , <b>2003</b> , 498, 165-173	6.6	9
32	Determination of butyltin compounds by high-performance liquid chromatography-hydride generation-electrothermal atomization atomic absorption spectrometry. <i>Journal of Analytical Atomic Spectrometry</i> , <b>2001</b> , 16, 270-274	3.7	9
31	Effects of interfering elements and chemical modifier on the activation energy of electrothermal atomization of selenium. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , <b>1995</b> , 50, 1897-1904	3.1	9
30	Effects of the Atlantic water and glacial run-off on the spatial distribution of particulate trace elements in the Kongsfjorden. <i>Marine Chemistry</i> , <b>2017</b> , 191, 16-23	3.7	8
29	Determination of trace elements in undiluted wine samples using an automatized total sample consumption system coupled to ICP-MS. <i>Journal of Analytical Atomic Spectrometry</i> , <b>2019</b> , 34, 674-682	3.7	8
28	Simultaneous determination of arsenic, selenium and mercury in foodstuffs by chemical vapour generation inductively coupled plasma optical emission spectroscopy. <i>Annali Di Chimica</i> , <b>2006</b> , 96, 751-64		8
27	Trace metals speciation in coastal particulate matter for marine environmental studies in Antarctica. <i>Journal of Environmental Monitoring</i> , <b>2005</b> , 7, 1287-94		8
26	Chemically assisted release of transition metals in graphite vaporizers for atomic spectrometry. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , <b>2006</b> , 61, 554-564	3.1	8
25	Retrospective biomonitoring of chemical contamination in the marine coastal environment of Terra Nova Bay (Ross Sea, Antarctica) by environmental specimen banking. <i>Chemosphere</i> , <b>2016</b> , 165, 418-426	8.4	8
24	Nitric acid effect in inductively coupled plasma mass spectrometry: new insights on possible causes and correction. <i>Journal of Analytical Atomic Spectrometry</i> , <b>2020</b> , 35, 1959-1968	3.7	7
23	Multivariate optimization of an axially-viewed inductively coupled plasma multichannel-based emission spectrometer for the analysis of environmental samples. <i>Annali Di Chimica</i> , <b>2005</b> , 95, 37-51		7
22	Determination of lead in bone tissues by axially viewed inductively coupled plasma multichannel-based emission spectrometry. <i>Analytical and Bioanalytical Chemistry</i> , <b>2005</b> , 381, 1395-400	4.4	7
21	Determination of the isotopic composition of sub-ng amounts of Sr in Antarctic snow by multi-collector ICP-mass spectrometry. <i>Journal of Analytical Atomic Spectrometry</i> , <b>2017</b> , 32, 1004-1008	3.7	6
20	Improving the interest of high-school students toward chemistry by crime scene investigation. <i>Chemistry Education Research and Practice</i> , <b>2018</b> , 19, 558-566	2.1	6
19	Influence of the operating parameters and of the sample introduction system on time correlation of line intensities using an axially viewed CCD-based ICP-AES system. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , <b>2010</b> , 65, 137-146	3.1	6
18	Multivariate optimization of a headspace solid-phase microextraction method followed by gas chromatography with mass spectrometry for the determination of terpenes in <i>Nicotiana glauca</i> . <i>Journal of Separation Science</i> , <b>2014</b> , 37, 1570-7	3.4	5
17	The occurrence of lead in the bone tissues of <i>Trematomus bernacchii</i> , Terra Nova Bay, Ross Sea. <i>Antarctic Science</i> , <b>2006</b> , 18, 75-80	1.7	5
16	Multivariate quantification of spectroscopic interferences caused by sodium, calcium, chlorine and sulfur in inductively coupled plasma mass spectrometry. <i>Journal of Analytical Atomic Spectrometry</i> , <b>1999</b> , 14, 1171-1175	3.7	5

15	Investigation of the formation of solid phase compounds between tellurium and interfering elements in graphite furnace atomic absorption spectrometry. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , <b>1997</b> , 52, 1247-1258	3.1	4
14	Lead isotopic ratios in the Arctic environment. <i>Environmental Chemistry</i> , <b>2020</b> , 17, 213	3.2	3
13	Investigation of aging processes of graphite tubes modified with iridium and rhodium used for atomic spectrometry. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , <b>2007</b> , 62, 1195-1202	3.1	3
12	Study of amino acids by means of liquid chromatography mass spectrometry: optimization of the particleBeam interface. <i>Analytica Chimica Acta</i> , <b>1999</b> , 401, 55-64	6.6	3
11	Isotopic analysis of snow from Dome C indicates changes in the source of atmospheric lead over the last fifty years in East Antarctica. <i>Chemosphere</i> , <b>2020</b> , 255, 126858	8.4	3
10	Prospect on Rare Earth Elements and Metals Fingerprint for the Geographical Discrimination of Commercial Spanish Wines. <i>Molecules</i> , <b>2020</b> , 25,	4.8	2
9	Determination of major elements in Antarctic snow by inductively coupled plasma optical emission spectrometry using a total-consumption sample introduction system. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , <b>2021</b> , 181, 106231	3.1	2
8	Lead isotopic analysis of Antarctic snow by quadrupole ICP-MS using a total-consumption sample introduction system. <i>Journal of Analytical Atomic Spectrometry</i> , <b>2018</b> , 33, 2124-2132	3.7	2
7	Potential Source Areas for Atmospheric Lead Reaching Ny-Ålesund from 2010 to 2018. <i>Atmosphere</i> , <b>2021</b> , 12, 388	2.7	1
6	Effect of heat stress on the ionic profile of <i>Nicotiana glauca</i> wild-type and mutant genotypes. <i>International Journal of Environmental Analytical Chemistry</i> , <b>2016</b> , 96, 460-473	1.8	1
5	Detection of carbohydrates in sea ice extracellular polymeric substances via solid-phase extraction and HPLC-ESI-MS/MS. <i>Marine Chemistry</i> , <b>2021</b> , 228, 103911	3.7	1
4	Effect of salinity and temperature on the determination of dissolved iron-binding organic ligands in the polar marine environment. <i>Marine Chemistry</i> , <b>2021</b> , 104051	3.7	0
3	Strontium isotopic analysis of environmental microsamples by inductively coupled plasma tandem mass spectrometry. <i>Journal of Analytical Atomic Spectrometry</i> , <b>2022</b> , 37, 103-113	3.7	0
2	High Resolution Chemical Stratigraphies of Atmospheric Depositions from a 4 m Depth Snow Pit at Dome C (East Antarctica). <i>Atmosphere</i> , <b>2021</b> , 12, 909	2.7	0
1	Iron Speciation in Different Saharan Dust Advections and Effect of the Procedural Blank on the Results From X-ray Absorption Spectroscopy and Selective Leaching Experiments. <i>Atmosphere</i> , <b>2020</b> , 11, 735	2.7	