Massimo Onor

List of Publications by Year
in descending order

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107	2,635	147801	254184
papers	citations	31 h-index	43 g-index

108	108	108	2887
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Separation and determination of denatured Î±s1-, Î±s2-, Î²- and Îº-caseins by hydrophobic interaction chromatography in cowsâ€™, ewesâ€™ and goatsâ€™ milk, milk mixtures and cheeses. Journal of Chromatography A, 2003, 994, 59-74.	3.7	86
2	Characterization of the Balm of an Egyptian Mummy from the Seventh Century B.C.. Studies in Conservation, 2000, 45, 19-29.	1.1	82
3	Human exposure to thallium through tap water: A study from Valdicastello Carducci and Pietrasanta (northern Tuscany, Italy). Science of the Total Environment, 2016, 548-549, 33-42.	8.0	81
4	Role of Hydroboron Intermediates in the Mechanism of Chemical Vapor Generation in Strongly Acidic Media. Analytical Chemistry, 2004, 76, 6342-6352.	6.5	73
5	Simultaneous determination of lactate and pyruvate in human sweat using reversedâ€phase highâ€performance liquid chromatography: a noninvasive approach. Biomedical Chromatography, 2012, 26, 1408-1415.	1.7	71
6	Mercury speciation by liquid chromatography coupled with on-line chemical vapour generation and atomic fluorescence spectrometric detection (LCâ€“CVGAFS). Talanta, 2005, 66, 762-768.	5.5	67
7	Continuous flow hydride generation-atomic fluorescence spectrometric determination and speciation of arsenic in wine. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2005, 60, 816-823.	2.9	65
8	Physico-chemical characterization of proteinâ€“pigment interactions in tempera paint reconstructions: casein/cinnabar and albumin/cinnabar. Analytical and Bioanalytical Chemistry, 2012, 402, 2183-2193.	3.7	62
9	Chemical Vapor Generation Atomic Spectrometry Using Amineboranes and Cyanotrihydroborate(III) Reagents. Analytical Chemistry, 2003, 75, 2591-2600.	6.5	61
10	Comparison of sampling bags for the analysis of volatile organic compounds in breath. Journal of Breath Research, 2015, 9, 047110.	3.0	59
11	Thallium release from acid mine drainages: Speciation in river and tap water from Valdicastello mining district (northwest Tuscany). Talanta, 2017, 171, 255-261.	5.5	53
12	Chemical vapor generation for atomic spectrometry. A contribution to the comprehension of reaction mechanisms in the generation of volatile hydrides using borane complexes. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2004, 59, 471-486.	2.9	52
13	Potentiometric sensor for non invasive lactate determination in human sweat. Analytica Chimica Acta, 2017, 989, 80-87.	5.4	52
14	Determination of volatile organic compounds in exhaled breath of heart failure patients by needle trap micro-extraction coupled with gas chromatography-tandem mass spectrometry. Journal of Breath Research, 2017, 11, 047110.	3.0	50
15	Rapid determination of nitrate in vegetables by gas chromatography mass spectrometry. Analytica Chimica Acta, 2017, 980, 33-40.	5.4	44
16	Mechanisms involved in chemical vapor generation by aqueous tetrahydroborate(III) derivatization. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2008, 63, 835-842.	2.9	41
17	Oxidative decomposition of atrazine in water in the presence of hydrogen peroxide using an innovative microwave photochemical reactor. Journal of Hazardous Materials, 2011, 186, 1808-1815.	12.4	41
18	Determination of the deuterium/hydrogen ratio in gas reaction products by laser-induced breakdown spectroscopy. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2006, 61, 797-802.	2.9	39

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19	Chemical Vapor Generation of Arsane in the Presence of <scp>l</scp>-Cysteine. Mechanistic Studies and Their Analytical Feedback. Analytical Chemistry, 2007, 79, 6324-6333.	6.5	39
20	A snow/firn four-century record of polycyclic aromatic hydrocarbons (PAHs) and polychlorobiphenyls (PCBs) at Talos Dome (Antarctica). Microchemical Journal, 2012, 105, 133-141.	4.5	39
21	Heterogeneous catalytic reaction of microcrystalline cellulose in hydrothermal microwave-assisted decomposition: effect of modified zeolite Beta. Green Chemistry, 2014, 16, 1417-1425.	9.0	39
22	The effect of sampling procedures on the urate and lactate concentration in oral fluid. Microchemical Journal, 2018, 136, 255-262.	4.5	37
23	Implementation of Fowler's method for end-tidal air sampling. Journal of Breath Research, 2008, 2, 037009.	3.0	36
24	Vapor Generation of Inorganic Anionic Species After Aqueous phase Alkylation with Trialkyloxonium Tetrafluoroborates. Analytical Chemistry, 2009, 81, 6399-6406.	6.5	36
25	Microwave-Assisted Photochemical Reactor for the Online Oxidative Decomposition and Determination of p-Hydroxymercurybenzoate and Its Thiolic Complexes by Cold Vapor Generation Atomic Fluorescence Detection. Analytical Chemistry, 2011, 83, 338-343.	6.5	36
26	Indole-3-acetic acid in plantâ€“pathogen interactions: a key molecule for in planta bacterial virulence and fitness. Research in Microbiology, 2016, 167, 774-787.	2.1	36
27	Thallium pollution in water, soils and plants from a past-mining site of Tuscany: Sources, transfer processes and toxicity. Journal of Geochemical Exploration, 2020, 209, 106434.	3.2	36
28	Determination of hydrogen sulfide and volatile thiols in air samples by mercury probe derivatization coupled with liquid chromatographyâ€“atomic fluorescence spectrometry. Analytica Chimica Acta, 2006, 579, 38-46.	5.4	33
29	Measurement of Warfarin in the Oral Fluid of Patients Undergoing Anticoagulant Oral Therapy. PLoS ONE, 2011, 6, e28182.	2.5	33
30	Monitoring breath during oral glucose tolerance tests. Journal of Breath Research, 2013, 7, 017115.	3.0	32
31	Mercury speciation by high-performance liquid chromatography atomic fluorescence spectrometry using an integrated microwave/UV interface. Optimization of a single step procedure for the simultaneous photo-oxidation of mercury species and photo-generation of Hg0. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2014, 101, 312-319.	2.9	32
32	Influence of environmental and anthropogenic parameters on thallium oxidation state in natural waters. Chemosphere, 2018, 196, 1-8.	8.2	32
33	Flame-in-gas-shield miniature flame hydride atomizers for ultra trace element determination by chemical vapor generation atomic fluorescence spectrometry. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2009, 64, 48-55.	2.9	31
34	Determination of total and unbound warfarin and warfarin alcohols in human plasma by high performance liquid chromatography with fluorescence detection. Journal of Chromatography A, 2013, 1314, 54-62.	3.7	31
35	Toxicity of Thallium at Low Doses: A Review. International Journal of Environmental Research and Public Health, 2019, 16, 4732.	2.6	31
36	Determination of thiocyanate in saliva by headspace gas chromatography-mass spectrometry, following a single-step aqueous derivatization with triethyloxonium tetrafluoroborate. Journal of Chromatography A, 2015, 1400, 124-130.	3.7	30

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37	Determination of lead in wine by hydride generation atomic fluorescence spectrometry in the presence of hexacyanoferrate(III). Analytical and Bioanalytical Chemistry, 2007, 388, 801-807.	3.7	29
38	Determination of sevoflurane and isopropyl alcohol in exhaled breath by thermal desorption gas chromatographyâ€“mass spectrometry for exposure assessment of hospital staff. Journal of Pharmaceutical and Biomedical Analysis, 2015, 106, 218-223.	2.8	29
39	Characterization of the Balm of an Egyptian Mummy from the Seventh Century B.C.. Studies in Conservation, 2000, 45, 19.	1.1	27
40	Optimized cleanup methods of organic extracts for the determination of organic pollutants in biological samples. Microchemical Journal, 2005, 79, 69-76.	4.5	26
41	Flow injection-chemical vapor generation atomic fluorescence spectrometry hyphenated system for organic mercury determination: A step forward. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2011, 66, 799-804.	2.9	26
42	Quantification of nitrite and nitrate in seawater by triethyloxonium tetrafluoroborate derivatizationâ€”Headspace SPME GCâ€“MS. Talanta, 2011, 85, 2511-2516.	5.5	25
43	Influence of Sampling on the Determination of Warfarin and Warfarin Alcohols in Oral Fluid. PLoS ONE, 2014, 9, e114430.	2.5	25
44	In situ microwave assisted extraction of clove buds to isolate essential oil, polyphenols, and lignocellulosic compounds. Industrial Crops and Products, 2021, 161, 113203.	5.2	24
45	Supercritical fluid extraction combined on-line with cold-trap gas chromatography/mass spectrometry. Analytica Chimica Acta, 1997, 346, 81-86.	5.4	23
46	Determination of thiomersal by flow injection coupled with microwave-assisted photochemical online oxidative decomposition of organic mercury and cold vapor atomic fluorescence spectroscopy. Analytica Chimica Acta, 2013, 804, 66-69.	5.4	23
47	Post-operative elimination of sevoflurane anesthetic and hexafluoroisopropanol metabolite in exhaled breath: pharmacokinetic models for assessing liver function. Journal of Breath Research, 2013, 7, 036001.	3.0	23
48	Chemical Generation of Arsane and Methylarsanes with Amine Boranes. Potentialities for Nonchromatographic Speciation of Arsenic. Analytical Chemistry, 2014, 86, 1599-1607.	6.5	23
49	Monitoring of warfarin therapy: Preliminary results from a longitudinal pilot study. Microchemical Journal, 2018, 136, 170-176.	4.5	22
50	Using labelled internal standards to improve needle trap micro-extraction technique prior to gas chromatography/mass spectrometry. Talanta, 2019, 200, 145-155.	5.5	22
51	Determination of thiolic compounds as mercury complexes by cold vapor atomic absorption spectrometry and its application to wines. Talanta, 2008, 74, 936-943.	5.5	21
52	Mechanisms involved in stannane generation by aqueous tetrahydroborate(III). Spectrochimica Acta, Part B: Atomic Spectroscopy, 2009, 64, 309-314.	2.9	21
53	Neurotoxicity Induced by Low Thallium Doses in Living Hippocampal Neurons: Evidence of Early Onset Mitochondrial Dysfunction and Correlation with Ethanol Production. ACS Chemical Neuroscience, 2019, 10, 451-459.	3.5	21
54	Studies on photochemical vapor generation of selenium with germicidal low power ultraviolet mercury lamp. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2016, 126, 11-16.	2.9	20

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55	Impact of Protein Concentration on the Determination of Thiolic Groups of Ovalbumin: A Size Exclusion Chromatographyâ€“Chemical Vapor Generationâ€“Atomic Fluorescence Spectrometry Study via Mercury Labeling. Analytical Chemistry, 2014, 86, 2251-2256.	6.5	19
56	Hydrophobic interaction chromatography coupled with atomic fluorescence spectrometric detection. Talanta, 2004, 63, 383-389.	5.5	17
57	Organic solvents as interferents in arsenic determination by hydride generation atomic absorption spectrometry with flame atomization. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2006, 61, 525-531.	2.9	17
58	Determination of carbonyl compounds in exhaled breath by on-sorbent derivatization coupled with thermal desorption and gas chromatography-tandem mass spectrometry. Journal of Breath Research, 2018, 12, 046004.	3.0	17
59	Antibacterial LDPE-based nanocomposites with salicylic and rosmarinic acid-modified layered double hydroxides. Applied Clay Science, 2021, 214, 106276.	5.2	17
60	Flow injection analysis with diode array absorbance detection and dynamic surface tension detection for studying denaturation and surface activity of globular proteins. Analytical Biochemistry, 2006, 351, 100-113.	2.4	16
61	Characterization of BSA unfolding and aggregation using a single-capillary viscometer and dynamic surface tension detector. Talanta, 2011, 85, 2553-2561.	5.5	16
62	Analysis of priority pollutants in environmental samples by on-line supercritical fluid chromatography cleanupâ€“cryo-trapâ€“gas chromatographyâ€“mass spectrometry. Journal of Chromatography A, 1999, 846, 387-393.	3.7	15
63	Study of the disulfide reduction of denatured proteins by liquid chromatography coupled with on-line cold-vapor-generation atomic-fluorescence spectrometry (LCâ€“CVGAFS). Analytical and Bioanalytical Chemistry, 2004, 380, 310-318.	3.7	15
64	Interaction of collagen with chlorosulphonated paraffin tanning agents: Fourier transform infrared spectroscopic analysis and molecular dynamics simulations. Physical Chemistry Chemical Physics, 2013, 15, 14736.	2.8	15
65	Thallium stimulates ethanol production in immortalized hippocampal neurons. PLoS ONE, 2017, 12, e0188351.	2.5	15
66	HS-SPME-GC-MS approach for the analysis of volatile salivary metabolites and application in a case study for the indirect assessment of gut microbiota. Analytical and Bioanalytical Chemistry, 2019, 411, 7551-7562.	3.7	15
67	Characterization of denatured metallothioneins by reversed phase coupled with on-line chemical vapour generation and atomic fluorescence spectrometric detection. Journal of Chromatography A, 2004, 1054, 285-291.	3.7	14
68	Determination of total cyanide in soil by isotope dilution GC/MS following pentafluorobenzyl derivatization. Analytica Chimica Acta, 2017, 961, 74-81.	5.4	14
69	Optimization of the procedure for the determination of alkali and alkaline-earth elements in sea water by suppressed ion chromatography. Journal of Chromatography A, 1991, 546, 259-271.	3.7	13
70	Development and validation of a novel derivatization method for the determination of lactate in urine and saliva by liquid chromatography with UV and fluorescence detection. Talanta, 2014, 130, 280-287.	5.5	13
71	Application of direct analysis in real time to a multiphase chemical system: Identification of polymeric arsanes generated by reduction of monomethylarsenate with sodium tetrahydroborate. International Journal of Mass Spectrometry, 2014, 371, 42-46.	1.5	13
72	Fluorescent LDPE and PLA nanocomposites containing fluorescein-modified layered double hydroxides and their ON/OFF responsive behavior towards humidity. European Polymer Journal, 2018, 99, 189-201.	5.4	13

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73	Activity coefficients of 3:3 electrolytes in aqueous solutions. Polyhedron, 2000, 19, 2493-2500.	2.2	12
74	Multidimensional analysis of denatured milk proteins by hydrophobic interaction chromatography coupled to a dynamic surface tension detector. Journal of Chromatography A, 2004, 1023, 79-91.	3.7	12
75	Mechanism of hydrogen transfer in arsane generation by aqueous tetrahydridoborate: Interference effects of AuIII and other noble metals. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2011, 66, 740-747.	2.9	12
76	New polymeric sorbent for the solid-phase extraction of indole-3-acetic acid from plants followed by liquid chromatography â€" Fluorescence detector. Microchemical Journal, 2016, 128, 68-74.	4.5	12
77	Microwave Photochemical Reactor for the Online Oxidative Decomposition of p-Hydroxymercurybenzoate (pHMB)-Tagged Proteins and Their Determination by Cold Vapor Generation-Atomic Fluorescence Detection. Analytical Chemistry, 2013, 85, 12152-12157.	6.5	11
78	Ammonium, Alkaline and Alkaline-Earth Element Determination in Antarctic Lake Waters, Flowing Melt Waters, Sea Waters and Snow. International Journal of Environmental Analytical Chemistry, 1994, 55, 149-164.	3.3	10
79	Behavior and kinetic of hydrolysis of amine boranes in acid media employed in chemical vapor generation. Analytica Chimica Acta, 2018, 998, 28-36.	5.4	10
80	Certification of nitrate in spinach powder reference material SPIN-1 by high-precision isotope dilution GCâ€"MS. Analytical and Bioanalytical Chemistry, 2019, 411, 3435-3445.	3.7	10
81	Heavy metal tolerance and polychlorinated biphenyl oxidation in bacterial communities inhabiting the Pasvik River and the Varanger Fjord area (Arctic Norway). Marine Pollution Bulletin, 2019, 141, 535-549.	5.0	10
82	Investigations of the behaviour of tellurium(IV) and selenium(IV) in ion-exchange chromatography. Journal of Chromatography A, 1997, 779, 147-154.	3.7	9
83	Characterization of denatured metallothioneins by reversed phase coupled with on-line chemical vapour generation and atomic fluorescence spectrometric detection. Journal of Chromatography A, 2004, 1054, 285-291.	3.7	9
84	Characterization of denatured proteins by hydrophobic interaction chromatography: A preliminary study. Biopolymers, 2003, 69, 293-300.	2.4	8
85	Analysis of commercial beverage products by size exclusion chromatography coupled with UVâ€"vis absorbance detection and dynamic surface tension detection. Talanta, 2010, 80, 1445-1451.	5.5	8
86	Uric acid is the major determinant of absorbance in spent dialysate allowing spectrophotometric evaluation of dialysis dose. Journal of Nephrology, 2013, 27, 331-7.	2.0	8
87	Determination of total dissolved nitrogen in seawater by isotope dilution gas chromatography mass spectrometry following digestion with persulfate and derivatization with aqueous triethyloxonium. Journal of Chromatography A, 2018, 1569, 193-199.	3.7	7
88	Application of direct analysis in real time to the study of chemical vapor generation mechanisms: identification of intermediate hydrolysis products of amine-boranes. Analytical and Bioanalytical Chemistry, 2019, 411, 1569-1578.	3.7	7
89	Effect of altitude and distance from the sea on fractionation processes of Persistent Organic Pollutants (POPs) associated to atmospheric aerosol from Ross Sea to Dome C, Antarctica. Microchemical Journal, 2019, 149, 103911.	4.5	7
90	Metal Resistance in Bacteria from Contaminated Arctic Sediment is Driven by Metal Local Inputs. Archives of Environmental Contamination and Toxicology, 2019, 77, 291-307.	4.1	7

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91	Application of direct analysis in real time to study chemical vapor generation mechanisms: reduction of dimethylarsinic(V) acid with aqueous NaBH4 under non-analytical conditions. Analytical and Bioanalytical Chemistry, 2020, 412, 7603-7613.	3.7	7
92	Evaluation of Microbial Adhesion and Biofilm Formation on Nano-Structured and Nano-Coated Ortho-Prosthetic Materials by a Dynamic Model. International Journal of Environmental Research and Public Health, 2020, 17, 1013.	2.6	7
93	The Effect of Seasonal Pack Ice Melting on the Sea Water Polychlorobiphenyl Contents at Gerlache Inlet and Wood Bay (Ross Sea - Antarctica). International Journal of Environmental Analytical Chemistry, 1999, 75, 367-375.	3.3	6
94	Direct, simple derivatization of disulfide bonds in proteins with organic mercury in alkaline medium without any chemical pre-reducing agents. Analytica Chimica Acta, 2014, 843, 1-6.	5.4	6
95	Determination of warfarin and warfarin alcohols in dried blood spots by ultra-high performance liquid chromatography coupled to electrospray ionization-tandem mass spectrometry (UHPLC-ESI-MS/MS). Microchemical Journal, 2018, 136, 247-254.	4.5	6
96	Mechanism of action of additives in chemical vapor generation of hydrogen selenide: Iodide and thiocyanate. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2018, 145, 122-131.	2.9	5
97	Validation and Application of a Derivatization-Free RP-HPLC-DAD Method for the Determination of Low Molecular Weight Salivary Metabolites. International Journal of Environmental Research and Public Health, 2020, 17, 6158.	2.6	5
98	Characterization of denatured metallothioneins by reversed phase coupled with on-line chemical vapour generation and atomic fluorescence spectrometric detection. Journal of Chromatography A, 2004, 1054, 285-91.	3.7	4
99	Ion chromatography: A powerful and versatile analytical technique for environmental chemical characterization. Microchemical Journal, 1992, 46, 385-398.	4.5	2
100	The Removal of Î²2-Microglobulin in Spent Dialysate Cannot Be Monitored by Spectrophotometric Analysis. Blood Purification, 2015, 40, 109-112.	1.8	2
101	Unraveling the Extracellular Metabolism of Immortalized Hippocampal Neurons Under Normal Growth Conditions. Frontiers in Chemistry, 2021, 9, 621548.	3.6	2
102	Distribution of Macro- and Micro-Components in the Water Column of the Antarctic Ross Sea and in Surface Antarctic Snow. International Journal of Environmental Analytical Chemistry, 1996, 63, 1-13.	3.3	1
103	Ovalbumin labeling with p-hydroxymercurybenzoate: The effect of different denaturing agents and the kinetics of reaction. Analytical Biochemistry, 2015, 483, 27-33.	2.4	1
104	Time-dependent influence of high glucose environment on the metabolism of neuronal immortalized cells. Analytical Biochemistry, 2022, 645, 114607.	2.4	1
105	Polyatomic Liquid Oxygen (PLO^{Â®}): A new methodology for the production in aqueous solution of reactive oxygen and nitrogen species (RONS) to be applied in medical treatments. AIP Advances, 2021, 11, 125218.	1.3	1
106	Fast, Direct Dihydrouracil Quantitation in Human Saliva: Method Development, Validation, and Application. International Journal of Environmental Research and Public Health, 2022, 19, 6033.	2.6	1
107	C0513: A Non-Invasive Approach for Monitoring Patients Undergoing Anticoagulant Therapy. Thrombosis Research, 2014, 133, S89-S90.	1.7	0