

# Massimo Onor

## List of Publications by Year in descending order

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107  
papers

2,635  
citations

147786

31  
h-index

254170

43  
g-index

108  
all docs

108  
docs citations

108  
times ranked

2887  
citing authors

#	ARTICLE	IF	CITATIONS
1	Separation and determination of denatured $\hat{1}\pm s1$ -, $\hat{1}\pm s2$ -, $\hat{1}^2$ - and $\hat{1}^e$ -caseins by hydrophobic interaction chromatography in cowsâ€™, ewesâ€™ and goatsâ€™ milk, milk mixtures and cheeses. <i>Journal of Chromatography A</i> , 2003, 994, 59-74.	3.7	86
2	Characterization of the Balm of an Egyptian Mummy from the Seventh Century B.C.. <i>Studies in Conservation</i> , 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). <i>Science of the Total Environment</i> , 2016, 548-549, 33-42.	8.0	81
4	Role of Hydroboron Intermediates in the Mechanism of Chemical Vapor Generation in Strongly Acidic Media. <i>Analytical Chemistry</i> , 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. <i>Biomedical Chromatography</i> , 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). <i>Talanta</i> , 2005, 66, 762-768.	5.5	67
7	Continuous flow hydride generation-atomic fluorescence spectrometric determination and speciation of arsenic in wine. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2005, 60, 816-823.	2.9	65
8	Physico-chemical characterization of proteinâ€pigment interactions in tempera paint reconstructions: casein/cinnabar and albumin/cinnabar. <i>Analytical and Bioanalytical Chemistry</i> , 2012, 402, 2183-2193.	3.7	62
9	Chemical Vapor Generation Atomic Spectrometry Using Amineboranes and Cyanotrihydroborate(III) Reagents. <i>Analytical Chemistry</i> , 2003, 75, 2591-2600.	6.5	61
10	Comparison of sampling bags for the analysis of volatile organic compounds in breath. <i>Journal of Breath Research</i> , 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). <i>Talanta</i> , 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. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2004, 59, 471-486.	2.9	52
13	Potentiometric sensor for non invasive lactate determination in human sweat. <i>Analytica Chimica Acta</i> , 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. <i>Journal of Breath Research</i> , 2017, 11, 047110.	3.0	50
15	Rapid determination of nitrate in vegetables by gas chromatography mass spectrometry. <i>Analytica Chimica Acta</i> , 2017, 980, 33-40.	5.4	44
16	Mechanisms involved in chemical vapor generation by aqueous tetrahydroborate(III) derivatization. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 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. <i>Journal of Hazardous Materials</i> , 2011, 186, 1808-1815.	12.4	41
18	Determination of the deuterium/hydrogen ratio in gas reaction products by laser-induced breakdown spectroscopy. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2006, 61, 797-802.	2.9	39

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19	Chemical Vapor Generation of Arsane in the Presence of <i>L</i> -Cysteine. Mechanistic Studies and Their Analytical Feedback. <i>Analytical Chemistry</i> , 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). <i>Microchemical Journal</i> , 2012, 105, 133-141.	4.5	39
21	Heterogeneous catalytic reaction of microcrystalline cellulose in hydrothermal microwave-assisted decomposition: effect of modified zeolite Beta. <i>Green Chemistry</i> , 2014, 16, 1417-1425.	9.0	39
22	The effect of sampling procedures on the urate and lactate concentration in oral fluid. <i>Microchemical Journal</i> , 2018, 136, 255-262.	4.5	37
23	Implementation of Fowler's method for end-tidal air sampling. <i>Journal of Breath Research</i> , 2008, 2, 037009.	3.0	36
24	Vapor Generation of Inorganic Anionic Species After Aqueous phase Alkylation with Trialkyloxonium Tetrafluoroborates. <i>Analytical Chemistry</i> , 2009, 81, 6399-6406.	6.5	36
25	Microwave-Assisted Photochemical Reactor for the Online Oxidative Decomposition and Determination of <i>p</i> -Hydroxymercurybenzoate and Its Thiolic Complexes by Cold Vapor Generation Atomic Fluorescence Detection. <i>Analytical Chemistry</i> , 2011, 83, 338-343.	6.5	36
26	Indole-3-acetic acid in plant-pathogen interactions: a key molecule for in planta bacterial virulence and fitness. <i>Research in Microbiology</i> , 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. <i>Journal of Geochemical Exploration</i> , 2020, 209, 106434.	3.2	36
28	Determination of hydrogen sulfide and volatile thiols in air samples by mercury probe derivatization coupled with liquid chromatography-atomic fluorescence spectrometry. <i>Analytica Chimica Acta</i> , 2006, 579, 38-46.	5.4	33
29	Measurement of Warfarin in the Oral Fluid of Patients Undergoing Anticoagulant Oral Therapy. <i>PLoS ONE</i> , 2011, 6, e28182.	2.5	33
30	Monitoring breath during oral glucose tolerance tests. <i>Journal of Breath Research</i> , 2013, 7, 017115.	3.0	32
31	Mercury speciation by high-performance liquid chromatography atomic fluorescence spectrometry using an integrated microwave/LIV interface. Optimization of a single step procedure for the simultaneous photo-oxidation of mercury species and photo-generation of Hg <sup>0</sup> . <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2014, 101, 312-319.	2.9	32
32	Influence of environmental and anthropogenic parameters on thallium oxidation state in natural waters. <i>Chemosphere</i> , 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. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 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. <i>Journal of Chromatography A</i> , 2013, 1314, 54-62.	3.7	31
35	Toxicity of Thallium at Low Doses: A Review. <i>International Journal of Environmental Research and Public Health</i> , 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. <i>Journal of Chromatography A</i> , 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). <i>Analytical and Bioanalytical Chemistry</i> , 2007, 388, 801-807.	3.7	29
38	Determination of sevoflurane and isopropyl alcohol in exhaled breath by thermal desorption gas chromatography-mass spectrometry for exposure assessment of hospital staff. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2015, 106, 218-223.	2.8	29
39	Characterization of the Balm of an Egyptian Mummy from the Seventh Century B.C.. <i>Studies in Conservation</i> , 2000, 45, 19.	1.1	27
40	Optimized cleanup methods of organic extracts for the determination of organic pollutants in biological samples. <i>Microchemical Journal</i> , 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. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2011, 66, 799-804.	2.9	26
42	Quantification of nitrite and nitrate in seawater by triethyloxonium tetrafluoroborate derivatization-Headspace SPME GC-MS. <i>Talanta</i> , 2011, 85, 2511-2516.	5.5	25
43	Influence of Sampling on the Determination of Warfarin and Warfarin Alcohols in Oral Fluid. <i>PLoS ONE</i> , 2014, 9, e114430.	2.5	25
44	In situ microwave assisted extraction of clove buds to isolate essential oil, polyphenols, and lignocellulosic compounds. <i>Industrial Crops and Products</i> , 2021, 161, 113203.	5.2	24
45	Supercritical fluid extraction combined on-line with cold-trap gas chromatography/mass spectrometry. <i>Analytica Chimica Acta</i> , 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. <i>Analytica Chimica Acta</i> , 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. <i>Journal of Breath Research</i> , 2013, 7, 036001.	3.0	23
48	Chemical Generation of Arsane and Methylarsanes with Amine Boranes. Potentialities for Nonchromatographic Speciation of Arsenic. <i>Analytical Chemistry</i> , 2014, 86, 1599-1607.	6.5	23
49	Monitoring of warfarin therapy: Preliminary results from a longitudinal pilot study. <i>Microchemical Journal</i> , 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. <i>Talanta</i> , 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. <i>Talanta</i> , 2008, 74, 936-943.	5.5	21
52	Mechanisms involved in stannane generation by aqueous tetrahydroborate(III). <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 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. <i>ACS Chemical Neuroscience</i> , 2019, 10, 451-459.	3.5	21
54	Studies on photochemical vapor generation of selenium with germicidal low power ultraviolet mercury lamp. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 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 Chromatography-“Chemical Vapor Generation”-Atomic Fluorescence Spectrometry Study via Mercury Labeling. <i>Analytical Chemistry</i> , 2014, 86, 2251-2256.	6.5	19
56	Hydrophobic interaction chromatography coupled with atomic fluorescence spectrometric detection. <i>Talanta</i> , 2004, 63, 383-389.	5.5	17
57	Organic solvents as interferents in arsenic determination by hydride generation atomic absorption spectrometry with flame atomization. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 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. <i>Journal of Breath Research</i> , 2018, 12, 046004.	3.0	17
59	Antibacterial LDPE-based nanocomposites with salicylic and rosmarinic acid-modified layered double hydroxides. <i>Applied Clay Science</i> , 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. <i>Analytical Biochemistry</i> , 2006, 351, 100-113.	2.4	16
61	Characterization of BSA unfolding and aggregation using a single-capillary viscometer and dynamic surface tension detector. <i>Talanta</i> , 2011, 85, 2553-2561.	5.5	16
62	Analysis of priority pollutants in environmental samples by on-line supercritical fluid chromatography cleanup-“cryo-trap”-gas chromatography-“mass spectrometry. <i>Journal of Chromatography A</i> , 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 (LC-“CVGAFS). <i>Analytical and Bioanalytical Chemistry</i> , 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. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 14736.	2.8	15
65	Thallium stimulates ethanol production in immortalized hippocampal neurons. <i>PLoS ONE</i> , 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. <i>Analytical and Bioanalytical Chemistry</i> , 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. <i>Journal of Chromatography A</i> , 2004, 1054, 285-291.	3.7	14
68	Determination of total cyanide in soil by isotope dilution GC/MS following pentafluorobenzyl derivatization. <i>Analytica Chimica Acta</i> , 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. <i>Journal of Chromatography A</i> , 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. <i>Talanta</i> , 2014, 130, 280-287.	5.5	13
71	Application of direct analysis in real time to a multiphase chemical system: Identification of polymeric arsenes generated by reduction of monomethylarsenate with sodium tetrahydroborate. <i>International Journal of Mass Spectrometry</i> , 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. <i>European Polymer Journal</i> , 2018, 99, 189-201.	5.4	13

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73	Activity coefficients of 3:3 electrolytes in aqueous solutions. <i>Polyhedron</i> , 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. <i>Journal of Chromatography A</i> , 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. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 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 – Fluorescence detector. <i>Microchemical Journal</i> , 2016, 128, 68-74.	4.5	12
77	Microwave Photochemical Reactor for the Online Oxidative Decomposition of <i>p</i> -Hydroxymercurybenzoate ( <i>p</i> -HMB)-Tagged Proteins and Their Determination by Cold Vapor Generation-Atomic Fluorescence Detection. <i>Analytical Chemistry</i> , 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. <i>International Journal of Environmental Analytical Chemistry</i> , 1994, 55, 149-164.	3.3	10
79	Behavior and kinetic of hydrolysis of amine boranes in acid media employed in chemical vapor generation. <i>Analytica Chimica Acta</i> , 2018, 998, 28-36.	5.4	10
80	Certification of nitrate in spinach powder reference material SPIN-1 by high-precision isotope dilution GC-MS. <i>Analytical and Bioanalytical Chemistry</i> , 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). <i>Marine Pollution Bulletin</i> , 2019, 141, 535-549.	5.0	10
82	Investigations of the behaviour of tellurium(IV) and selenium(IV) in ion-exchange chromatography. <i>Journal of Chromatography A</i> , 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. <i>Journal of Chromatography A</i> , 2004, 1054, 285-291.	3.7	9
84	Characterization of denatured proteins by hydrophobic interaction chromatography: A preliminary study. <i>Biopolymers</i> , 2003, 69, 293-300.	2.4	8
85	Analysis of commercial beverage products by size exclusion chromatography coupled with UV-vis absorbance detection and dynamic surface tension detection. <i>Talanta</i> , 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. <i>Journal of Nephrology</i> , 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. <i>Journal of Chromatography A</i> , 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. <i>Analytical and Bioanalytical Chemistry</i> , 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. <i>Microchemical Journal</i> , 2019, 149, 103911.	4.5	7
90	Metal Resistance in Bacteria from Contaminated Arctic Sediment is Driven by Metal Local Inputs. <i>Archives of Environmental Contamination and Toxicology</i> , 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 NaBH <sub>4</sub> under non-analytical conditions. <i>Analytical and Bioanalytical Chemistry</i> , 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. <i>International Journal of Environmental Research and Public Health</i> , 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). <i>International Journal of Environmental Analytical Chemistry</i> , 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. <i>Analytica Chimica Acta</i> , 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). <i>Microchemical Journal</i> , 2018, 136, 247-254.	4.5	6
96	Mechanism of action of additives in chemical vapor generation of hydrogen selenide: Iodide and thiocyanate. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 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. <i>International Journal of Environmental Research and Public Health</i> , 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. <i>Journal of Chromatography A</i> , 2004, 1054, 285-91.	3.7	4
99	Ion chromatography: A powerful and versatile analytical technique for environmental chemical characterization. <i>Microchemical Journal</i> , 1992, 46, 385-398.	4.5	2
100	The Removal of Î² <sub>2</sub> -Microglobulin in Spent Dialysate Cannot Be Monitored by Spectrophotometric Analysis. <i>Blood Purification</i> , 2015, 40, 109-112.	1.8	2
101	Unraveling the Extracellular Metabolism of Immortalized Hippocampal Neurons Under Normal Growth Conditions. <i>Frontiers in Chemistry</i> , 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. <i>International Journal of Environmental Analytical Chemistry</i> , 1996, 63, 1-13.	3.3	1
103	Ovalbumin labeling with p-hydroxymercurybenzoate: The effect of different denaturing agents and the kinetics of reaction. <i>Analytical Biochemistry</i> , 2015, 483, 27-33.	2.4	1
104	Time-dependent influence of high glucose environment on the metabolism of neuronal immortalized cells. <i>Analytical Biochemistry</i> , 2022, 645, 114607.	2.4	1
105	Polyatomic Liquid Oxygen (PLO <sup>®</sup> ): A new methodology for the production in aqueous solution of reactive oxygen and nitrogen species (RONS) to be applied in medical treatments. <i>AIP Advances</i> , 2021, 11, 125218.	1.3	1
106	Fast, Direct Dihydrouracil Quantitation in Human Saliva: Method Development, Validation, and Application. <i>International Journal of Environmental Research and Public Health</i> , 2022, 19, 6033.	2.6	1
107	C0513: A Non-Invasive Approach for Monitoring Patients Undergoing Anticoagulant Therapy. <i>Thrombosis Research</i> , 2014, 133, S89-S90.	1.7	0