Antonella Buccianti

List of Publications by Year
in descending order

78	2,235	279701	330025
papers	citations	23 h-index	37 g-index

87	87	87	2515
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Compositional data analysis in geochemistry: Are we sure to see what really occurs during natural processes?. Journal of Geochemical Exploration, 2014, 141, 1-5.	1.5	104
2	Sulfur Species in Volcanic Gases. Analytical Chemistry, 2001, 73, 3709-3715.	3.2	99
3	New Perspectives on Water Chemistry and Compositional Data Analysis. Mathematical Geosciences, 2005, 37, 703-727.	0.9	95
4	Is compositional data analysis a way to see beyond the illusion?. Computers and Geosciences, 2013, 50, 165-173.	2.0	64
5	Hydrogeochemistry and strontium isotopes in the Arno River Basin (Tuscany, Italy): Constraints on natural controls by statistical modeling. Journal of Hydrology, 2008, 360, 166-183.	2.3	61
6	The 87Sr/86Sr strontium isotopic systematics applied to Glera vineyards: A tracer for the geographical origin of the Prosecco. Food Chemistry, 2015, 170, 138-144.	4.2	58
7	Conservation of 87 Sr/ 86 Sr isotopic ratios during the winemaking processes of â€˜Redâ€™ wines to validate their use as geographic tracer. Food Chemistry, 2016, 190, 777-785.	4.2	53
8	Exploring topsoil geochemistry from the CoDA (Compositional Data Analysis) perspective: The multi-element data archive of the Campania Region (Southern Italy). Journal of Geochemical Exploration, 2015, 159, 302-316.	1.5	52
9	Biotic signals from nannoflora across the iridium anomaly in the upper Eocene of the Massignano section: evidence from statistical analysis. Marine Micropaleontology, 2000, 39, 219-237.	0.5	46
10	Compositional methods for estimating elemental concentrations below the limit of detection in practice using R. Journal of Geochemical Exploration, 2014, 141, 71-77.	1.5	42
11	Natural radioactivity levels (K, Th, U and Rn) in the Cecita Lake area (Sila Massif, Calabria, Southern) Tj ETQq1 1 0.784314 rgBT /Overlock 152, 145-156.	2.3	38
12	The isometric log-ratio (ilr)-ion plot: A proposed alternative to the Piper diagram. Journal of Geochemical Exploration, 2018, 190, 130-141.	1.5	38
13	1980â€“1990: Ten years of geochemical investigation at Phlegrean Fields (Italy). Journal of Volcanology and Geothermal Research, 1991, 48, 161-171.	0.8	36
14	Exploring element accumulation patterns of a metal excluder plant naturally colonizing a highly contaminated soil. Journal of Hazardous Materials, 2012, 227-228, 362-369.	6.5	36
15	Geochemical characterization of ophiolitic soils in a temperate climate: A multivariate statistical approach. Geoderma, 1997, 75, 117-133.	2.3	31
16	Determination of Organic Acids in Plants of Silene paradoxa L. by HPLC. Journal of Agricultural and Food Chemistry, 2008, 56, 789-795.	2.4	30
17	Visualization and modeling of sub-populations of compositional data: statistical methods illustrated by means of geochemical data from fumarolic fluids. International Journal of Earth Sciences, 2002, 91, 357-368.	0.9	28
18	CHARACTERIZATION OF THE AMPHORAE, STONE BALLAST AND STOWAGE MATERIALS OF THE SHIPS FROM THE ARCHAEOLOGICAL SITE OF PISA?SAN ROSSORE, ITALY: INFERENCES ON THEIR PROVENANCE AND POSSIBLE TRADING ROUTES*. Archaeometry, 2007, 49, 1-22.	0.6	28

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19	Group specific vocal signature in free-ranging wolf packs. Ethology Ecology and Evolution, 2012, 24, 322-331.	0.6	28
20	Comparative geochemical study between the tap waters and the bottled mineral waters in Calabria (Southern Italy) by compositional data analysis (CoDA) developments. Applied Geochemistry, 2019, 107, 19-33.	1.4	27
21	Morphometrical characterization of theAustropotamobius pallipesspecies complex. Journal of Natural History, 2008, 42, 2063-2077.	0.2	25
22	Tracing the 87Sr/86Sr from rocks and soils to vine and wine: An experimental study on geologic and pedologic characterisation of vineyards using radiogenic isotope of heavy elements. Science of the Total Environment, 2018, 628-629, 1317-1327.	3.9	25
23	Frequency distributions and natural laws in geochemistry. Geological Society Special Publication, 2006, 264, 175-189.	0.8	24
24	Compositional data analysis as a robust tool to delineate hydrochemical facies within and between gasâ€bearing aquifers. Water Resources Research, 2016, 52, 5771-5793.	1.7	24
25	Metric concepts and implications in describing compositional changes for world river's water chemistry. Computers and Geosciences, 2011, 37, 670-676.	2.0	23
26	Weighted principal component analysis for compositional data: application example for the water chemistry of the Arno river (Tuscany, central Italy). Environmetrics, 2013, 24, 269-277.	0.6	23
27	Exploratory compositional data analysis. Geological Society Special Publication, 2006, 264, 161-174.	0.8	22
28	Sampling and analytical procedures for the determination of VOCs released into air from natural and anthropogenic sources: A comparison between SPME (Solid Phase Micro Extraction) and ST (Solid) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	1.4	22
29	The FOREGS repository: Modelling variability in stream water on a continental scale revising classical diagrams from CoDA (compositional data analysis) perspective. Journal of Geochemical Exploration, 2015, 154, 94-104.	1.5	22
30	Mineralogical and chemical characterisation of the Medicean glass mosaic tesserae and mortars of the Grotta del Buontalenti, Giardino di Boboli, Florence, Italy. Journal of Cultural Heritage, 2000, 1, 287-299.	1.5	21
31	Measuring the change under compositional data analysis (CoDA): Insight on the dynamics of geochemical systems. Journal of Geochemical Exploration, 2018, 189, 100-108.	1.5	21
32	Methods to investigate the geochemistry of groundwaters with values for nitrogen compounds below the detection limit. Journal of Geochemical Exploration, 2014, 141, 78-88.	1.5	20
33	Chemical variability of artificial stone powders in relation to their health effects. Scientific Reports, 2019, 9, 6531.	1.6	20
34	Insights into Late Quaternary calcareous nannoplankton assemblages under the theory of statistical analysis for compositional data. Palaeogeography, Palaeoclimatology, Palaeoecology, 2004, 202, 209-227.	1.0	19
35	THE ACOUSTIC STRUCTURE OF WOLF HOWLS IN SOME EASTERN TUSCANY (CENTRAL ITALY) FREE RANGING PACKS. Bioacoustics, 2010, 19, 159-175.	0.7	19
36	Variation diagrams to statistically model the behavior of geochemical variables: Theory and applications. Journal of Hydrology, 2014, 519, 988-998.	2.3	19

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37	Weathering reactions and isometric log-ratio coordinates: Do they speak to each other?. Applied Geochemistry, 2016, 75, 189-199.	1.4	19
38	Arsenic in fumarolic gases of Vulcano(Aeolian Islands, Italy) from 1978 to 1993: Geochemical evidence from multivariate analysis.. Geochemical Journal, 1998, 32, 367-382.	0.5	17
39	A Geochemical Multi-Methodological Approach in Hazard Assessment of CO2-Rich Gas Emissions at Mt. Amiata Volcano (Tuscany, Central Italy). Water, Air and Soil Pollution, 2009, 9, 117-127.	0.8	17
40	Statistical methods for the geochemical characterisation of surface waters: The case study of the Tiber River basin (Central Italy). Computers and Geosciences, 2019, 131, 80-88.	2.0	17
41	Winter locomotor activity patterns of European hares (Lepus europaeus). Mammalian Biology, 2013, 78, 482-485.	0.8	16
42	Is Compositional Data Analysis (CoDA) a theory able to discover complex dynamics in aqueous geochemical systems?. Journal of Geochemical Exploration, 2020, 211, 106465.	1.5	15
43	Under fungal attack on a metalliferous soil: ROS or not ROS? Insights from Silene paradoxa L. growing under copper stress. Environmental Pollution, 2016, 210, 282-292.	3.7	14
44	Application of Compositional Techniques in the Field of Crystal Chemistry: A Case Study of Luzonite, a Sn-Bearing Mineral. Mathematical Geosciences, 2013, 45, 183-206.	1.4	13
45	Analysis of complex regional databases and their support in the identification of background/baseline compositional facies in groundwater investigation: developments and application examples. Journal of Geochemical Exploration, 2016, 164, 3-17.	1.5	13
46	Are geochemical regime shifts identifiable in river waters? Exploring the compositional dynamics of the Tiber River (Italy). Science of the Total Environment, 2021, 785, 147268.	3.9	13
47	Morphological traits determine the winner of â€œsymmetricâ€•fights in hermit crabs. Journal of Experimental Marine Biology and Ecology, 2008, 354, 150-159.	0.7	12
48	The high pCO2 Caprese Reservoir (Northern Apennines, Italy): Relationships between present- and paleo-fluid geochemistry and structural setting. Chemical Geology, 2013, 351, 40-56.	1.4	12
49	Exploration of geochemical data with compositional canonical biplots. Journal of Geochemical Exploration, 2018, 194, 120-133.	1.5	12
50	A multielement analysis of Cu induced changes in the mineral profiles of Cu sensitive and tolerant populations of Silene paradoxa L.. Environmental and Experimental Botany, 2013, 96, 20-27.	2.0	11
51	Modeling along-axis variations in fault architecture in the Main Ethiopian Rift: Implications for Nubia-Somalia kinematics. Journal of Geodynamics, 2016, 102, 24-38.	0.7	10
52	Another Look at the Chemical Relationships inÂtheÂDissolved Phase of Complex River Systems. Mathematical Geosciences, 2008, 40, 475-488.	1.4	9
53	EPR discrimination of microcrystalline calcite geomaterials. American Mineralogist, 2012, 97, 1619-1626.	0.9	9
54	Partâ€“Whole Relations: New Insights about the Dynamics of Complex Geochemical Riverine Systems. Minerals (Basel, Switzerland), 2020, 10, 501.	0.8	9

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55	Frequency Distributions of Geochemical Data, Scaling Laws, and Properties of Compositions. Pure and Applied Geophysics, 2015, 172, 1851-1863.	0.8	8
56	Innovative monitoring tools for the complex spatial dynamics of river chemistry: case study for the Alpine region. Environmental Earth Sciences, 2018, 77, 1.	1.3	7
57	Assessing Indices Tracking Changes in River Geochemistry and Implications for Monitoring. Natural Resources Research, 2022, 31, 1061-1079.	2.2	7
58	Multivariate analysis to investigate Cl distribution in rocks from different settings. Mathematical Geosciences, 1997, 29, 349-359.	0.9	6
59	Statistical evaluation of compositional changes in volcanic gas chemistry: a case study. Stochastic Environmental Research and Risk Assessment, 2006, 21, 25-33.	1.9	6
60	Compositional changes in a fumarolic field, Vulcano Island, Italy: a statistical case study. Geological Society Special Publication, 2006, 264, 67-77.	0.8	6
61	Natural Fluctuation of Sulfur Species in Volcanic Fumaroles. Journal of Non-Equilibrium Thermodynamics, 2008, 33, 75-102.	2.4	6
62	Sparse PCA and investigation of multi-elements compositional repositories: theory and applications. Environmental and Ecological Statistics, 2016, 23, 421-434.	1.9	6
63	From vine to wine: Data on 87Sr/86Sr from rocks and soils as a geologic and pedologic characterisation of vineyards. Data in Brief, 2018, 18, 731-735.	0.5	6
64	Highly radiogenic Sr-isotopic signature and trace element content of grape musts from northern Piedmont vineyards (Italy). European Food Research and Technology, 2018, 244, 1027-1035.	1.6	4
65	An XRPD and EPR spectroscopy study of microcrystalline calcite bioprecipitated by Bacillus subtilis. Physics and Chemistry of Minerals, 2018, 45, 935-944.	0.3	4
66	Insights into the provenance of <scp>R</scp>oman moulds and poinÃ§ons found at <scp>S</scp>coppieto (<scp>T</scp>erni, <scp>I</scp>taly). Archaeometry, 2014, 56, 58-77.	0.6	3
67	An innovative electron paramagnetic resonance and statistical analysis approach to investigate the geographical origin of multi-layered samples from a Renaissance painting. Microchemical Journal, 2022, 177, 107219.	2.3	3
68	GEOBASI: The geochemical Database of Tuscany Region (Italy). Acque Sotterranee - Italian Journal of Groundwater, 2015, 4, .	0.2	2
69	Paradoxical effects of density on measurement of copper tolerance in Silene paradoxa L.. Environmental Science and Pollution Research, 2018, 25, 1331-1339.	2.7	2
70	Chemical alteration and mineral growth under high p CO 2 conditions: Insights from the mineral chemistry of carbonate phases in the Caprese Reservoir (Northern Apennines, central Italy). Chemical Geology, 2017, 450, 81-95.	1.4	1
71	Distances to compositional equilibrium. Journal of Geochemical Exploration, 2021, 227, 106793.	1.5	1
72	Distributional analysis for understanding geochemical processes affecting ground and surficial waters in different geological conditions. Rendiconti Online Societa Geologica Italiana, 0, 46, 54-58.	0.3	1

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73	Water Chemistry: Are New Challenges Possible from CoDA (Compositional Data Analysis) Point of View?. , 2018, , 299-311.		1
74	Environmental Pollution Due to Natural Factors: A Case Study in A Volcanic Area (Vulcano Island,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	0.6	0
75	Green and scalable synthesis of nanocrystalline kuramite. Beilstein Journal of Nanotechnology, 2019, 10, 2073-2083.	1.5	0
76	The Whole Versus the Parts: The Challenge of Compositional Data Analysis (CoDA) Methods for Geochemistry. , 2021, , 253-264.		0
77	Major, trace element, and Sr isotope geochemistry of surface and ground waters in the Chiavenna Valley (Sondrio, Northern Italy). Rendiconti Online Societa Geologica Italiana, 0, 30, 62-65.	0.3	0
78	Another Look at the Chemical Relationships in the Dissolved Phase of Complex River Systems. , 2008, , 23-37.		0