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	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
2	Assessing Indices Tracking Changes in River Geochemistry and Implications for Monitoring. Natural Resources Research, 2022, 31, 1061-1079.	2.2	7
3	The Whole Versus the Parts: The Challenge of Compositional Data Analysis (CoDA) Methods for Geochemistry. , 2021, , 253-264.		0
4	Distances to compositional equilibrium. Journal of Geochemical Exploration, 2021, 227, 106793.	1.5	1
5	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
6	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
7	Partâ€“Whole Relations: New Insights about the Dynamics of Complex Geochemical Riverine Systems. Minerals (Basel, Switzerland), 2020, 10, 501.	0.8	9
8	Green and scalable synthesis of nanocrystalline kuramite. Beilstein Journal of Nanotechnology, 2019, 10, 2073-2083.	1.5	0
9	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
10	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
11	Chemical variability of artificial stone powders in relation to their health effects. Scientific Reports, 2019, 9, 6531.	1.6	20
12	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
13	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
14	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
15	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
16	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
17	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
18	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

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19	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
20	Exploration of geochemical data with compositional canonical biplots. Journal of Geochemical Exploration, 2018, 194, 120-133.	1.5	12
21	Water Chemistry: Are New Challenges Possible from CoDA (Compositional Data Analysis) Point of View?. , 2018, , 299-311.		1
22	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
23	Weathering reactions and isometric log-ratio coordinates: Do they speak to each other?. Applied Geochemistry, 2016, 75, 189-199.	1.4	19
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	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
26	Sparse PCA and investigation of multi-elements compositional repositories: theory and applications. Environmental and Ecological Statistics, 2016, 23, 421-434.	1.9	6
27	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
28	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
29	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
30	GEOBASI: The geochemical Database of Tuscany Region (Italy). Acque Sotterranee - Italian Journal of Groundwater, 2015, 4, .	0.2	2
31	Frequency Distributions of Geochemical Data, Scaling Laws, and Properties of Compositions. Pure and Applied Geophysics, 2015, 172, 1851-1863.	0.8	8
32	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
33	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
34	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
35	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
36	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

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37	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
38	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
39	Variation diagrams to statistically model the behavior of geochemical variables: Theory and applications. Journal of Hydrology, 2014, 519, 988-998.	2.3	19
40	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
41	Winter locomotor activity patterns of European hares (Lepus europaeus). Mammalian Biology, 2013, 78, 482-485.	0.8	16
42	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
43	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
44	Is compositional data analysis a way to see beyond the illusion?. Computers and Geosciences, 2013, 50, 165-173.	2.0	64
45	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
46	EPR discrimination of microcrystalline calcite geomaterials. American Mineralogist, 2012, 97, 1619-1626.	0.9	9
47	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 ETQq1 1 0.784314 rgBT /Overlock		
48	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
49	Group specific vocal signature in free-ranging wolf packs. Ethology Ecology and Evolution, 2012, 24, 322-331.	0.6	28
50	Metric concepts and implications in describing compositional changes for world river's water chemistry. Computers and Geosciences, 2011, 37, 670-676.	2.0	23
51	THE ACOUSTIC STRUCTURE OF WOLF HOWLS IN SOME EASTERN TUSCANY (CENTRAL ITALY) FREE RANGING PACKS. Bioacoustics, 2010, 19, 159-175.	0.7	19
52	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
53	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
54	Another Look at the Chemical Relationships inÂtheÂDissolved Phase of Complex River Systems. Mathematical Geosciences, 2008, 40, 475-488.	1.4	9

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55	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
56	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
57	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
58	Morphometrical characterization of theAustropotamobius pallipesspecies complex. Journal of Natural History, 2008, 42, 2063-2077.	0.2	25
59	Natural Fluctuation of Sulfur Species in Volcanic Fumaroles. Journal of Non-Equilibrium Thermodynamics, 2008, 33, 75-102.	2.4	6
60	Another Look at the Chemical Relationships in the Dissolved Phase of Complex River Systems. , 2008, , 23-37.		0
61	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
62	Exploratory compositional data analysis. Geological Society Special Publication, 2006, 264, 161-174.	0.8	22
63	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
64	Compositional changes in a fumarolic field, Vulcano Island, Italy: a statistical case study. Geological Society Special Publication, 2006, 264, 67-77.	0.8	6
65	Frequency distributions and natural laws in geochemistry. Geological Society Special Publication, 2006, 264, 175-189.	0.8	24
66	New Perspectives on Water Chemistry and Compositional Data Analysis. Mathematical Geosciences, 2005, 37, 703-727.	0.9	95
67	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
68	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
69	Sulfur Species in Volcanic Gases. Analytical Chemistry, 2001, 73, 3709-3715.	3.2	99
70	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
71	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
72	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

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73	Geochemical characterization of ophiolitic soils in a temperate climate: A multivariate statistical approach. Geoderma, 1997, 75, 117-133.	2.3	31
74	Multivariate analysis to investigate Cl distribution in rocks from different settings. Mathematical Geosciences, 1997, 29, 349-359.	0.9	6
75	1980â€“1990: Ten years of geochemical investigation at Phlegrean Fields (Italy). Journal of Volcanology and Geothermal Research, 1991, 48, 161-171.	0.8	36
76	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
77	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
78	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