Donatella Barca

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Characterisation of archaeological mortars from Pompeii (Campania, Italy) and identification of construction phases by compositional data analysis. Journal of Archaeological Science, 2010, 37, 2207-2223.	1.2	138
2	PROVENANCE OF THE LIMESTONE USED IN TEOTIHUACAN (MEXICO): A METHODOLOGICAL APPROACH*. Archaeometry, 2009, 51, 525-545.	0.6	91
3	Application of LA-ICP-MS to sedimentary phosphatic particles from Tunisian phosphorite deposits: Insights from trace elements and REE into paleo-depositional environments. Chemie Der Erde, 2012, 72, 127-139.	0.8	79
4	Rare earths concentration from phosphogypsum waste by two-step leaching method. International Journal of Mineral Processing, 2016, 149, 78-83.	2.6	69
5	An analysis of the black crusts from the Seville Cathedral: A challenge to deepen the understanding of the relationships among microstructure, microchemical features and pollution sources. Science of the Total Environment, 2015, 502, 157-166.	3.9	66
6	Application of spectrometric analysis to the identification of pollution sources causing cultural heritage damage. Environmental Science and Pollution Research, 2013, 20, 8848-8859.	2.7	61
7	Trace elements in hazardous mineral fibres. Environmental Pollution, 2016, 216, 314-323.	3.7	59
8	Impact of air pollution in deterioration of carbonate building materials in Italian urban environments. Applied Geochemistry, 2014, 48, 122-131.	1.4	55
9	Application of Laser Ablation ICP-MS for characterization of obsidian fragments from peri-Tyrrhenian area. Journal of Cultural Heritage, 2007, 8, 141-150.	1.5	53
10	The Oceanus statue of the Fontana di Trevi (Rome): The analysis of black crust as a tool to investigate the urban air pollution and its impact on the stone degradation. Science of the Total Environment, 2017, 593-594, 297-309.	3.9	52
11	Investigation of rock-to-water release and fate of major, minor, and trace elements in the metabasalt–serpentinite shallow aquifer of Mt. Reventino (CZ, Italy) by reaction path modelling. Applied Geochemistry, 2011, 26, 1722-1740.	1.4	49
12	Damage monitoring on carbonate stones: Field exposure tests contributing to pollution impact evaluation in two Italian sites. Construction and Building Materials, 2017, 152, 907-922.	3.2	45
13	Geochemical study of black crusts as a diagnostic tool in cultural heritage. Applied Physics A: Materials Science and Processing, 2013, 113, 1151-1162.	1.1	43
14	Arsenic polluted waters: Application of geochemical modelling as a tool to understand the release and fate of the pollutant in crystalline aquifers. Journal of Environmental Management, 2022, 301, 113796.	3.8	41
15	A multivariate non-parametric approach for estimating probability of exceeding the local natural background level of arsenic in the aquifers of Calabria region (Southern Italy). Science of the Total Environment, 2022, 806, 150345.	3.9	40
16	The impact of dolomite and plagioclase weathering on the chemistry of shallow groundwaters circulating in a granodiorite-dominated catchment of the Sila Massif (Calabria, Southern Italy). Applied Geochemistry, 2009, 24, 957-979.	1.4	37
17	Use of mean residence time of water, flowrate, and equilibrium temperature indicated by water geothermometers to rank geothermal resources. Application to the thermal water circuits of Northern Calabria. Journal of Volcanology and Geothermal Research, 2016, 328, 147-158.	0.8	37
18	CHARACTERIZATION AND PROVENANCE OF LIME PLASTERS FROM THE TEMPLO MAYOR OF TENOCHTITLAN (MEXICO CITY). Archaeometry, 2011, 53, 1119-1141.	0.6	34

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19	Production of a rare earths concentrate after phosphogypsum treatment with dietary NaCl and Na2CO3 solutions. Minerals Engineering, 2019, 132, 169-174.	1.8	34
20	A Multidisciplinary Approach for the Archaeometric Study of Pozzolanic Aggregate in <scp>R</scp> oman Mortars: The Case of <i><scp>V</scp>illa dei <scp>Q</scp>uintili</i> (<scp>R</scp> ome, <scp>I</scp> taly). Archaeometry, 2015, 57, 269-296.	0.6	33
21	Soil genesis, morphodynamic processes and chronological implications in two soil transects of SE Sardinia, Italy: Traditional pedological study coupled with laser ablation ICP-MS and radionuclide analyses. Geoderma, 2011, 162, 39-64.	2.3	32
22	A LA-ICP-MS study of minerals in the Rocche Rosse magmatic enclaves: Evidence of a mafic input triggering the latest silicic eruption of Lipari Island (Aeolian Arc, Italy). Journal of Volcanology and Geothermal Research, 2009, 182, 45-56.	0.8	31
23	Magmatic Evolution and plumbing system of ring-fault volcanism: the Vulcanello Peninsula (Aeolian) Tj ETQq 11 (0.784314 0.4	rgBT /Over o
24	Application of laser ablation ICP-MS and traditional micromorphological techniques to the study of an Alfisol (Sardinia, Italy) in thin sections: Insights into trace element distribution. Geoderma, 2009, 152, 113-126.	2.3	30
25	A new methodological approach for the chemical characterization of black crusts on building stones: a case study from the Catania city centre (Sicily, Italy). Journal of Analytical Atomic Spectrometry, 2011, 26, 1000.	1.6	30
26	Crystal residence times from trace element zoning in plagioclase reveal changes in magma transfer dynamics at Mt. Etna during the last 400 years. Lithos, 2016, 248-251, 309-323.	0.6	29
27	Black crusts on Venetian built heritage, investigation on the impact of pollution sources on their composition. European Physical Journal Plus, 2018, 133, 1.	1.2	27
28	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
29	Application of laser ablation ICP-MS and traditional techniques to the study of black crusts on building stones: a new methodological approach. Environmental Science and Pollution Research, 2010, 17, 1433-1447.	2.7	26
30	Diagenetic albitization in the Tera Group, Cameros Basin (NE Spain) recorded by trace elements and spectral cathodoluminescence. Chemical Geology, 2012, 312-313, 148-162.	1.4	26
31	Provenance of glass shards in archaeological lime plasters by LA-ICP-MS: implications for the ancient routes from the Gulf of Mexico to Teotihuacan in Central Mexico. Journal of Archaeological Science, 2013, 40, 3999-4008.	1.2	26
32	Mitochondrial Carnitine/Acylcarnitine Transporter, a Novel Target of Mercury Toxicity. Chemical Research in Toxicology, 2015, 28, 1015-1022.	1.7	25
33	Vitreous tesserae from the calidarium mosaics of the Villa dei Quintili, Rome. Chemical composition and production technology. Microchemical Journal, 2016, 124, 726-735.	2.3	23
34	THE PROVENANCE OF OBSIDIAN ARTEFACTS FROM THE WÄ€DĪ ATHâ€THAYYILAH 3 NEOLITHIC SITE (EASTERN) Ti ETQqC) 0.0 rgBT /Ov

35	Plasters from Different Buildings of the Sacred Precinct of Tenochtitlan (Mexico City): Characterization And Provenance. Archaeometry, 2015, 57, 100-127.	0.6	21
36	Multi-analytical approach applied to the provenance study of marbles used as covering slabs in the archaeological submerged site of Baia (Naples, Italy): The case of the "Villa con ingresso a protiro― Applied Surface Science, 2015, 357, 1369-1379.	3.1	21

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37	Widespread syn-eruptive volcaniclastic deposits in the Pleistocenic basins of South-Western Calabria. Journal of Volcanology and Geothermal Research, 2008, 177, 155-169.	0.8	18
38	The environmental impact of air pollution on the built heritage of historic Cairo (Egypt). Science of the Total Environment, 2021, 764, 142905.	3.9	17
39	Limestone Provenance in Roman Limeâ€Volcanic Ash Mortars from the Villa dei Quintili, Rome. Geoarchaeology - an International Journal, 2015, 30, 79-99.	0.7	16
40	Rare earth element signatures in the Messinian pre-evaporitic Calcare di Base formation (Northern) Tj ETQq0 0 0	rgBT/Ove	erlock 10 Tf 50
41	A trace element study for the provenance attribution of ceramic artefacts: the case of Dressel 1 amphorae from a late-Republican ship. Journal of Archaeological Science, 2014, 43, 91-104.	1.2	15
42	Mosaic marble tesserae from the underwater archaeological site of Baia (Naples, Italy): determination of the provenance. European Journal of Mineralogy, 2014, 26, 323-331.	0.4	15
43	Diagnostics, deterioration and provenance of stone materials from the Jefferson Page tomb (Non-Catholic Cemetery of Rome, Italy). Environmental Earth Sciences, 2010, 60, 829-836.	1.3	14
44	Lichens as bioindicators of atmospheric heavy metal deposition in Valencia, Spain. Journal of Atmospheric Chemistry, 2013, 70, 373-388.	1.4	14
45	Provenance study of building and statuary marbles from the Roman archaeological site of "Villa dei Quintili" (Rome, Italy). Italian Journal of Geosciences, 2016, 135, 236-249.	0.4	14
46	Provenance of obsidian artifacts from the Natural Protected Area Laguna del Diamante (Mendoza,) Tj ETQq0 0 0 2018, 468, 134-140.	rgBT /Ove 0.7	erlock 10 Tf 50 14
47	On ash dispersal from moderately explosive volcanic eruptions: Examples from Holocene and Late Pleistocene eruptions of Italian volcanoes. Journal of Volcanology and Geothermal Research, 2019, 385, 198-221.	0.8	14
48	Lower crustal differentiation processes beneath a back-arc spreading ridge (Marsili seamount,) Tj ETQq0 0 0 rgB	T /Qverloc	k 10 Tf 50 302
49	Is trace element concentration correlated to parasite abundance? A case study in a population of the green frog Pelophylax synkl. hispanicus from the Neto River (Calabria, southern Italy). Parasitology Research, 2017, 116, 1745-1753.	0.6	13
50	Multidisciplinary Approach for Evaluating the Geochemical Degradation of Building Stone Related to Pollution Sources in the Historical Center of Naples (Italy). Applied Sciences (Switzerland), 2020, 10, 4241.	1.3	12
51	Petrographic, biological, and chemical techniques used toÂcharacterize two tombs in the Protestant Cemetery ofÂRomeÂ(Italy). Applied Physics A: Materials Science and Processing, 2010, 100, 865-872.	1.1	11
52	Analysis of marble statues from the San Bruno Church (Serra San Bruno, Southern Italy): provenance and degradation. Applied Physics A: Materials Science and Processing, 2012, 106, 171-179.	1.1	11
53	Magma emplacement at anomalous spreading ridge: Constraints due to plagioclase crystals from basalts of Marsili seamount (Southern Tyrrhenian back-arc). Journal of Volcanology and Geothermal Research, 2012, 241-242, 61-77.	0.8	10
54	Le champ filonien à Zn-(Pb, Cu, As, Hg) du district minier de Fedj Hassène (Nord Ouest de la Tunisie): Minéralogie, Eléments en traces, Isotopes du Soufre et Inclusions Fluides. Estudios Geologicos, 2011, 67, 5.	0.7	10

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55	Cathode-Luminescence from Extrinsic Impurities in Bundles of Carbon Nanotubes: A Possible Role. Journal of Nanoscience and Nanotechnology, 2011, 11, 9196-9201.	0.9	9
56	Phosphorite-hosted zinc and lead mineralization in the Sekarna deposit (Central Tunisia). Mineralium Deposita, 2012, 47, 545-562.	1.7	9
57	Highâ€performing mortarâ€based materials from the late imperial baths of Aquileia: An outstanding example of Roman building tradition in Northern Italy. Geoarchaeology - an International Journal, 2022, 37, 637-657.	0.7	9
58	Parasitic Load, Hematological Parameters, and Trace Elements Accumulation in the Lesser Spotted Dogfish Scyliorhinus canicula from the Central Tyrrhenian Sea. Biology, 2022, 11, 663.	1.3	9
59	Identifying a technological style in the making of lime plasters at Teopancazco (Teotihuacan, México). Archaeological and Anthropological Sciences, 2018, 10, 315-335.	0.7	8
60	The provenance of obsidian artefacts from the Middle Kingdom harbour of Mersa/Wadi Gawasis, Egypt, and its implications for Red Sea trade routes in the 2nd millennium BC. Quaternary International, 2020, 555, 85-95.	0.7	8
61	Manganese ores in Tunisia: Genetic constraints from trace element geochemistry and mineralogy. Ore Geology Reviews, 2020, 120, 103451.	1.1	8
62	Chemical, mineralogical and rare earth elements distribution study of phosphorites from Sra Ouertane deposit (Tunisia). Journal of African Earth Sciences, 2019, 157, 103505.	0.9	7
63	Chemical and Petrographic Characterization of Stone and Glass Tesserae in the Nereid and Geometric Mosaics from the S. Aloe Quarter in Vibo Valentia–Calabria, Italy. Minerals (Basel, Switzerland), 2019, 9, 729.	0.8	6
64	Trace elements and isotopes analyses on historical samples of white sharks from the Mediterranean Sea. , 2021, 88, 132-141.		6
65	Antarctic Fish as a Clobal Pollution Sensor: Metals Biomonitoring in a Twelve-Year Period. Frontiers in Molecular Biosciences, 2021, 8, 794946.	1.6	6
66	Further developments of the Rayleigh equation for fractional crystallization. Earth and Planetary Science Letters, 1988, 89, 170-172.	1.8	5
67	Technological and geochemical study of two red-figured vases ofÂunknown provenance by various analytical techniques. Applied Physics A: Materials Science and Processing, 2010, 100, 911-917.	1.1	4
68	Degradation Products on Byzantine Glasses from Northern Tunisia. Applied Sciences (Switzerland), 2020, 10, 7523.	1.3	4
69	Hydraulicity of lime plasters from Teotihuacan, Mexico: a microchemical and microphysical approach. Journal of Archaeological Science, 2021, 133, 105453.	1.2	4
70	A powerful tool for assessing distribution and fate of potentially toxic metals (PTMs) in soils: integration of laser ablation spectrometry (LA-ICP-MS) on thin sections with soil micromorphology and geochemistry. Environmental Science and Pollution Research, 2017, 24, 9776-9790.	2.7	3
71	The first archaeometric characterization of obsidian artifacts from the archaeological site of Samshvilde (South Georgia, Caucasus). Archaeological and Anthropological Sciences, 2019, 11, 6725-6736.	0.7	3
72	Geochemical and petrographic characterization of pyroclastic deposits of Los Humeros Volcanic Complex used as aggregates in the plasters from Teotihuacan (Mexico). Microchemical Journal, 2019, 145, 852-863.	2.3	3

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73	Provenance of White Marbles from the Roman City of Tauriana (Palmi, Reggio Calabria, Italy). Minerals (Basel, Switzerland), 2020, 10, 297.	0.8	3
74	Chemical Characterization of Vitreous Finds from Cosenza Cathedral (Calabria – Italy) by the Combined Use of Analytical Techniques. Open Archaeology, 2020, 6, 63-85.	0.3	3
75	Vitreous Tesserae from the Four Seasons Mosaic of the S. Aloe Quarter in Vibo Valentia–Calabria, Italy: A Chemical Characterization. Minerals (Basel, Switzerland), 2020, 10, 658.	0.8	2
76	RecoStones: a New Tool to Identify Calabrian Stone Materials Through Image Processing. Geoheritage, 2021, 13, 1.	1.5	2
77	Archaeometric analysis of building ceramics and â€~dolia defossa' from the Roman imperial estate of Vagnari (Gravina in Puglia, Italy). Journal of Archaeological Science: Reports, 2021, 38, 103057.	0.2	2
78	Developments of the Rayleigh equation: "crystal―a Pascal program for simulating fractional crystallization. Computers and Geosciences, 1993, 19, 1127-1153.	2.0	1
79	Trace elements accumulation could influence parasitic load and hematological parameters in a central mediterranean population of Lesser Spotted Dogfish Scyliorhinus canicula. , 2021, , .		1

Chemical Characterization of the Roman Glass Finds from Muricelle Archaeological Site (Luzzi,) Tj ETQq0 0 0 rgBT O_{10} Proverlock 10 Tf 50 46

81	Archaeometric Study of the White Marbles from "Madonna Della Febbre―Altar in San Domenico Church (Cosenza, Southern Italy). Minerals (Basel, Switzerland), 2022, 12, 284.	0.8	0	
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Characterization of stone tesserae from $\hat{a} \in \hat{c}$ The Indian Triumph of Dionysus $\hat{a} \in \hat{c}$ Mosaic (Casignana, Reggio) Tj ETQ $\hat{0}$ 0 rg BT /Overlock