

# Gabriele Lanzafame

## List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

38 papers	474 citations	12 h-index	20 g-index
43 ext. papers	622 ext. citations	3.7 avg, IF	3.82 L-index

#	Paper	IF	Citations
38	Unraveling the solidification path of a pahoehoe ÷icirara÷lava from Mount Etna volcano. <i>Bulletin of Volcanology</i> , <b>2013</b> , 75, 1	2.4	45
37	The role of supercritical fluids in the potassium enrichment of magmas at Mount Etna volcano (Italy). <i>Lithos</i> , <b>2010</b> , 119, 642-650	2.9	42
36	Cooling history of a dike as revealed by mineral chemistry: A case study from Mt. Etna volcano. <i>Chemical Geology</i> , <b>2011</b> , 288, 39-52	4.2	40
35	Plagioclase as archive of magma ascent dynamics on open conduit volcanoes: The 2001÷2006 eruptive period at Mt. Etna. <i>Earth-Science Reviews</i> , <b>2014</b> , 138, 371-393	10.2	39
34	3D Pore-network quantitative analysis in deformed carbonate grainstones. <i>Marine and Petroleum Geology</i> , <b>2017</b> , 82, 251-264	4.7	32
33	The volatile flushing triggers eruptions at open conduit volcanoes: Evidence from Mount Etna volcano (Italy). <i>Lithos</i> , <b>2014</b> , 184-187, 447-455	2.9	32
32	Fluid flow simulation and permeability computation in deformed porous carbonate grainstones. <i>Advances in Water Resources</i> , <b>2018</b> , 115, 95-111	4.7	27
31	Dynamic observations of vesiculation reveal the role of silicate crystals in bubble nucleation and growth in andesitic magmas. <i>Lithos</i> , <b>2018</b> , 296-299, 532-546	2.9	23
30	Solidification and Turbulence (Non-laminar) during Magma Ascent: Insights from 2D and 3D Analyses of Bubbles and Minerals in an Etnean Dyke. <i>Journal of Petrology</i> , <b>2017</b> , 58, 1511-1533	3.9	19
29	Deciphering lava flow post-eruption differentiation processes by means of geochemical and isotopic variations: A case study from Mt. Etna volcano. <i>Lithos</i> , <b>2013</b> , 162-163, 115-127	2.9	17
28	A Micro-Tomographic Insight into the Coating Systems of Historical Bowed String Instruments. <i>Coatings</i> , <b>2019</b> , 9, 81	2.9	15
27	A 3D imaging textural characterization of pyroclastic products from the 1538 AD Monte Nuovo eruption (Campi Flegrei, Italy). <i>Lithos</i> , <b>2019</b> , 340-341, 316-331	2.9	12
26	Synchrotron radiation micro-computed tomography for the investigation of finishing treatments in historical bowed string instruments: Issues and perspectives. <i>European Physical Journal Plus</i> , <b>2018</b> , 133, 1	3.1	12
25	First 3D imaging characterization of Pele's hair from Kilauea volcano (Hawaii). <i>Scientific Reports</i> , <b>2019</b> , 9, 1711	4.9	11
24	3D microstructure of magnesium potassium phosphate ceramics from X-ray tomography: new insights into the reaction mechanisms. <i>Journal of Materials Science</i> , <b>2019</b> , 54, 3748-3760	4.3	11
23	Fold-related deformation bands in a weakly buried sandstone reservoir analogue: A multi-disciplinary case study from the Numidian (Miocene) of Sicily (Italy). <i>Journal of Structural Geology</i> , <b>2019</b> , 118, 150-164	3	11
22	Green, grey and black: A comparative study of Sierra de las Navajas (Mexico) and Lipari (Italy) obsidians. <i>Quaternary International</i> , <b>2018</b> , 467, 369-390	2	11

21	Production and detachment of oxide crystal shells on bubble walls during experimental vesiculation of andesitic magmas. <i>Contributions To Mineralogy and Petrology</i> , <b>2019</b> , 174, 1	3.5	9
20	Microstructural evolution and texture analysis of magnesium phosphate cement. <i>Journal of the American Ceramic Society</i> , <b>2020</b> , 103, 1414-1424	3.8	8
19	Multi-Analytical Approach for Asbestos Minerals and Their Non-Asbestiform Analogues: Inferences from Host Rock Textural Constraints. <i>Fibers</i> , <b>2019</b> , 7, 42	3.7	7
18	Morphological Evolution of Zn-Sponge Electrodes Monitored by In Situ X-ray Computed Microtomography. <i>ACS Applied Energy Materials</i> , <b>2020</b> , 3, 4931-4940	6.1	7
17	Synthetic calcium carbonate improves the effectiveness of treatments with nanolime to contrast decay in highly porous limestone. <i>Scientific Reports</i> , <b>2019</b> , 9, 15278	4.9	7
16	X-ray synchrotron microtomography: a new technique for characterizing chrysotile asbestos. <i>Science of the Total Environment</i> , <b>2020</b> , 703, 135675	10.2	5
15	The Skaros effusive sequence at Santorini (Greece): Petrological and geochemical constraints on an interplinian cycle. <i>Lithos</i> , <b>2020</b> , 362-363, 105504	2.9	4
14	Combining chemical and X-Ray microtomography investigations on crustal xenoliths at Mount Etna: evidence of volcanic gas fluxing. <i>Annals of Geophysics</i> , <b>2018</b> , 61,	1.1	4
13	Raman spectroscopy potentiality in the study of geopolymers reaction degree. <i>Journal of Raman Spectroscopy</i> ,	2.3	4
12	A quantitative analysis of 3D-cell distribution in regenerating muscle-skeletal system with synchrotron X-ray computed microtomography. <i>Scientific Reports</i> , <b>2018</b> , 8, 14145	4.9	4
11	Geopolymer production for conservation-restoration using Sicilian raw materials: feasibility studies. <i>IOP Conference Series: Materials Science and Engineering</i> , <b>2020</b> , 777, 012001	0.4	3
10	Deep sea explosive eruptions may be not so different from subaerial eruptions. <i>Scientific Reports</i> , <b>2020</b> , 10, 6709	4.9	3
9	A compact and flexible induction furnace for in situ X-ray microradiography and computed microtomography at Elettra: design, characterization and first tests. <i>Journal of Synchrotron Radiation</i> , <b>2018</b> , 25, 1172-1181	2.4	3
8	Surface reactivity of Etna volcanic ash and evaluation of health risks. <i>Science of the Total Environment</i> , <b>2021</b> , 761, 143248	10.2	3
7	Degassing driving crystallization of plagioclase phenocrysts in lava tube stalactites on Mount Etna (Sicily, Italy). <i>Lithos</i> , <b>2014</b> , 206-207, 338-347	2.9	2
6	Thermo-barometric constraints on the Mt. Etna 2015 eruptive event. <i>Contributions To Mineralogy and Petrology</i> , <b>2021</b> , 176, 1	3.5	1
5	The Rare Trachyandesitic Lavas at Mount Etna: A Case Study to Investigate Eruptive Process and Propose a New Interpretation for Magma Genesis. <i>Minerals (Basel, Switzerland)</i> , <b>2021</b> , 11, 333	2.4	1
4	Natural occurrence of asbestos in serpentinite quarries from Southern Spain. <i>Environmental Geochemistry and Health</i> , <b>2021</b> , 43, 2965-2983	4.7	0

- 3 Gem-Quality Tourmaline from LCT Pegmatite in Adamello Massif, Central Southern Alps, Italy: An Investigation of Its Mineralogy, Crystallography and 3D Inclusions. *Minerals (Basel, Switzerland)*, **2018**, 8, 593 2.4 ○
- 2 The Porosity in Heterogeneous Carbonate Reservoir Rocks: Tectonic versus Diagenetic Imprint: A Multi-Scale Study from the Hyblean Plateau (SE Sicily, Italy). *Geosciences (Switzerland)*, **2022**, 12, 149 2.7 ○
- 1 Multidisciplinary characterization of the Chiara volcanic paleosoil (Mt. Etna volcano, Italy): Petrologic characters and genetic model. *Lithos*, **2022**, 418-419, 106679 2.9