

Leonardo Sagnotti

List of Publications by Year in descending order

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114
papers

4,966
citations

87401

40
h-index

116156

66
g-index

120
all docs

120
docs citations

120
times ranked

5270
citing authors

#	ARTICLE	IF	CITATIONS
1	1.2 Myr Band of Earth-Mars Obliquity Modulation on the Evolution of Cold Late Miocene to Warm Early Pliocene Climate. <i>Journal of Geophysical Research: Solid Earth</i> , 2022, 127, .	1.4	7
2	Urban trees for biomonitoring atmospheric particulate matter: An integrated approach combining plant functional traits, magnetic and chemical properties. <i>Ecological Indicators</i> , 2021, 126, 107707.	2.6	25
3	Editorial: Bridging Environmental Magnetism With Biogeophysics to Study Biogeochemical Processes of Today. <i>Frontiers in Earth Science</i> , 2021, 9, .	0.8	0
4	Magnetic Anisotropy. <i>Encyclopedia of Earth Sciences Series</i> , 2021, , 923-935.	0.1	0
5	New coring study in Augusta Bay expands understanding of offshore tsunami deposits (Eastern Sicily,) <i>Tj ETQq1 1 0.784314, ggBT /Over</i>	1.6	21
6	A refined age calibrated paleosecular variation and relative paleointensity stack for the NW Barents Sea: Implication for geomagnetic field behavior during the Holocene. <i>Quaternary Science Reviews</i> , 2020, 229, 106133.	1.4	9
7	Interpreting Inverse Magnetic Fabric in Miocene Dikes From Eastern Iceland. <i>Journal of Geophysical Research: Solid Earth</i> , 2020, 125, e2020JB020306.	1.4	3
8	Obsidians of Pantelleria (Strait of Sicily): A Petrographic, Geochemical and Magnetic Study of Known and New Geological Sources. <i>Open Archaeology</i> , 2020, 6, 434-453.	0.3	4
9	Magnetic Anisotropy. <i>Encyclopedia of Earth Sciences Series</i> , 2020, , 1-13.	0.1	0
10	Integrated Quantitative Calcareous Plankton Bio-Magnetostratigraphy of the Early Miocene from IODP Leg 342, Hole U1406A, Newfoundland Ridge, NW Atlantic Ocean. <i>Stratigraphy and Geological Correlation</i> , 2019, 27, 259-276.	0.2	3
11	Magnetic, geochemical and granulometric properties of street dust from Warsaw (Poland). <i>Journal of Applied Geophysics</i> , 2019, 169, 58-73.	0.9	21
12	Mediterranean winter rainfall in phase with African monsoons during the past 1.36 million years. <i>Nature</i> , 2019, 573, 256-260.	13.7	111
13	A High-Resolution Geomagnetic Relative Paleointensity Record From the Arctic Ocean Deep-Water Gateway Deposits During the Last 60 kyr. <i>Geochemistry, Geophysics, Geosystems</i> , 2019, 20, 2355-2377.	1.0	13
14	Miocene Glacial Dynamics Recorded by Variations in Magnetic Properties in the ANDRILL-2A Drill Core. <i>Journal of Geophysical Research: Solid Earth</i> , 2019, 124, 2297-2312.	1.4	9
15	Clockwise paleomagnetic rotations in northeastern Iran: Major implications on recent geodynamic evolution of outer sectors of the Arabia-Eurasia collision zone. <i>Gondwana Research</i> , 2019, 71, 194-209.	3.0	16
16	Lakes as paleoseismic records in a seismically-active, low-relief area (Rieti Basin, central Italy). <i>Quaternary Science Reviews</i> , 2019, 211, 186-207.	1.4	12
17	Recordings of Fast Paleomagnetic Reversals in a 1.2 Ma Greigite-Rich Sediment Archive From Lake Ohrid, Balkans. <i>Journal of Geophysical Research: Solid Earth</i> , 2019, 124, 12445-12464.	1.4	16
18	In search of the Burdigalian GSSP: new evidence from the Contessa Section (Italy). <i>Italian Journal of Geosciences</i> , 2019, 138, 274-295.	0.4	8

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19	On the reliability of the Matuyamaâ€“Brunhes record in the Sulmona Basinâ€“Comment to â€“A reappraisal of the proposed rapid Matuyamaâ€“Brunhes geomagnetic reversal in the Sulmona Basin, Italyâ€“ by Evans and Muxworthy (2018). <i>Geophysical Journal International</i> , 2019, 216, 296-301.	1.0	8
20	Historical ecology reveals landscape transformation coincident with cultural development in central Italy since the Roman Period. <i>Scientific Reports</i> , 2018, 8, 2138.	1.6	31
21	Paleomagnetism and rock magnetism from sediments along a continental shelf-to-slope transect in the NW Barents Sea: Implications for geomagnetic and depositional changes during the past 15 thousand years. <i>Global and Planetary Change</i> , 2018, 160, 10-27.	1.6	13
22	New insights on sediment magnetic remanence acquisition point out complexity of magnetic mineral diagenesis. <i>Geology</i> , 2018, 46, 383-384.	2.0	5
23	The Global Stratotype Section and Point (GSSP) for the base of the Chattian Stage (Paleogene System,) Tj ETQq1 1,0,784314,rgBT /Ove	0.8	13
24	StratFit: An Excel Workbook for correlation of multiple stratigraphic trends. <i>Annals of Geophysics</i> , 2018, 61, .	0.5	6
25	Magnetic properties and element concentrations in lichens exposed to airborne pollutants released during cement production. <i>Environmental Science and Pollution Research</i> , 2017, 24, 12063-12080.	2.7	28
26	New Insights into the Provenance of the Obsidian Fragments of the Island of Ustica (Palermo, Sicily). <i>Archaeometry</i> , 2017, 59, 435-454.	0.6	13
27	Oroclinal bending in the Alborz Mountains (Northern Iran): New constraints on the age of South Caspian subduction and extrusion tectonics. <i>Gondwana Research</i> , 2017, 42, 13-28.	3.0	45
28	The environmental and evolutionary history of Lake Ohrid (FYROM/Albania): interim results from the SCOPSCO deep drilling project. <i>Biogeosciences</i> , 2017, 14, 2033-2054.	1.3	43
29	Astronomical tuning of the La Vedova section between 16.3 and 15.0 Ma. Implications for the origin of megabeds and the Langhian GSSP. <i>Newsletters on Stratigraphy</i> , 2017, 50, 1-29.	0.5	14
30	Environmental control on the occurrence of high-coercivity magnetic minerals and formation of iron sulfides in a 640â€“ka sediment sequence from Lake Ohrid (Balkans). <i>Biogeosciences</i> , 2016, 13, 2093-2109.	1.3	21
31	Geological reconstruction in the area of maximum co-seismic subsidence during the 2009 Mw=6.1 Lâ€™Aquila earthquake using geophysical and borehole data. <i>Italian Journal of Geosciences</i> , 2016, 135, 350-362.	0.4	14
32	Analysis of a 150 m sediment core from the co-seismic subsidence depocenter of the 2009 Mw = 6.1 L'Aquila earthquake (Italy): Implications for Holocene-Pleistocene tectonic subsidence rates and for the age of the seismogenic Paganica fault system. <i>Tectonophysics</i> , 2016, 687, 180-194.	0.9	11
33	Distinct magnetic fabric in weakly deformed sediments from extensional basins and fold-and-thrust structures in the Northern Apennine orogenic belt (Italy). <i>Tectonics</i> , 2016, 35, 238-256.	1.3	15
34	Geomagnetic palaeosecular variation around 15 ka ago from NW Barents Sea cores (south of) Tj ETQq0 0 0 rgBT /Qverlock 10 Tf 50 142	1.0	10
35	How fast was the Matuyamaâ€“Brunhes geomagnetic reversal? A new subcentennial record from the Sulmona Basin, central Italy. <i>Geophysical Journal International</i> , 2016, 204, 798-812.	1.0	44
36	Antarctic ice sheet sensitivity to atmospheric CO ₂ variations in the early to mid-Miocene. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 3453-3458.	3.3	133

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37	ENVIRONMENTAL CONTROLS ON SOCIETAL CHANGE OR SOCIETAL CONTROLS ON ENVIRONMENTAL CHANGE? USING HISTORICAL ARCHIVES AND SEDIMENTARY DATA TO INTERPRET 2700 YEARS OF ENVIRONMENTAL HISTORY IN CENTRAL ITALY. , 2016, , .		0
38	The Istituto Nazionale di Geofisica e Vulcanologia Data Management System for the Arctic Sciences. Journal of Environmental Science and Engineering B, 2016, 5, .	0.0	0
39	Marine sedimentary record of Meltwater Pulse 1a along the NW Barents Sea continental margin. Arktos, 2015, 1, 1.	1.0	22
40	2700 years of Mediterranean environmental change in central Italy: a synthesis of sedimentary and cultural records to interpret past impacts of climate on society. Quaternary Science Reviews, 2015, 116, 72-94.	1.4	69
41	Integrated stratigraphy of the St. Thomas section (Malta Island): A reference section for the lower Burdigalian of the Mediterranean Region. Marine Micropaleontology, 2014, 111, 66-89.	0.5	22
42	Extremely rapid directional change during Matuyama-Brunhes geomagnetic polarity reversal. Geophysical Journal International, 2014, 199, 1110-1124.	1.0	112
43	Paleomagnetic evidence for a post-Eocene 90° CCW rotation of internal Apennine units: A linkage with Corsica-Sardinia rotation?. Tectonics, 2014, 33, 374-392.	1.3	18
44	Iron oxide tracers of ice sheet extent and sediment provenance in the ANDRILL AND-1B drill core, Ross Sea, Antarctica. Global and Planetary Change, 2013, 110, 420-433.	1.6	13
45	Postglacial sedimentary processes on the Storfjorden and Kveithola trough mouth fans: Significance of extreme glacial marine sedimentation. Global and Planetary Change, 2013, 111, 309-326.	1.6	78
46	Environmental magnetic record of paleoclimate, unroofing of the Transantarctic Mountains, and volcanism in late Eocene to early Miocene glacial marine sediments from the Victoria Land Basin, Ross Sea, Antarctica. Journal of Geophysical Research: Solid Earth, 2013, 118, 1845-1861.	1.4	18
47	Revised Chronology of the Sulmona Lacustrine Succession, Central Italy. Journal of Quaternary Science, 2013, 28, 545-551.	1.1	51
48	Demagnetization Analysis in Excel (DAIE). An open source workbook in Excel for viewing and analyzing demagnetization data from paleomagnetic discrete samples and u-channels. Annals of Geophysics, 2013, 56, .	0.5	17
49	Cyclochronology of the Eocene-Oligocene transition from the Cape Roberts Project-3 core, Victoria Land basin, Antarctica. Palaeogeography, Palaeoclimatology, Palaeoecology, 2012, 335-336, 84-94.	1.0	12
50	Inconsistent magnetic polarities in magnetite- and greigite-bearing sediments: Understanding complex magnetizations in the late Messinian in the Adana Basin (southern Turkey). Geochemistry, Geophysics, Geosystems, 2012, 13, .	1.0	5
51	Neogene tectonic and climatic evolution of the Western Ross Sea, Antarctica - Chronology of events from the AND-1B drill hole. Global and Planetary Change, 2012, 96-97, 189-203.	1.6	27
52	Magnetic fabric of Pleistocene continental clays from the hanging-wall of an active low-angle normal fault (Altotiberina Fault, Italy). International Journal of Earth Sciences, 2012, 101, 849-861.	0.9	10
53	On the magnetic characterization and quantification of the superparamagnetic fraction of traffic-related urban airborne PM in Rome, Italy. Atmospheric Environment, 2012, 59, 131-140.	1.9	41
54	A Holocene paleosecular variation record from the northwestern Barents Sea continental margin. Geochemistry, Geophysics, Geosystems, 2011, 12, n/a-n/a.	1.0	17

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55	A continuous palaeosecular variation record of the last four millennia from the Augusta Bay (Sicily), Tj ETQq1 1 0.784314 rgBT /Overlo	1.0	11
56	Magnetic Anisotropy. Encyclopedia of Earth Sciences Series, 2011, , 717-729.	0.1	6
57	Rock magnetism and palaeomagnetism of the Montalbano Jonico section (Italy): evidence for late diagenetic growth of greigite and implications for magnetostratigraphy. Geophysical Journal International, 2010, 180, 1049-1066.	1.0	53
58	Relative geomagnetic paleointensity of the Brunhes Chron and the Matuyamaâ€“Brunhes precursor as recorded in sediment core from Wilkes Land Basin (Antarctica). Physics of the Earth and Planetary Interiors, 2010, 179, 72-86.	0.7	25
59	Obliquity-paced Pliocene West Antarctic ice sheet oscillations. Nature, 2009, 458, 322-328.	13.7	564
60	Integrated stratigraphic reconstruction for the last 80kyr in a deep sector of the Sardinia Channel (Western Mediterranean). Deep-Sea Research Part II: Topical Studies in Oceanography, 2009, 56, 725-737.	0.6	18
61	Compositional, morphological, and hysteresis characterization of magnetic airborne particulate matter in Rome, Italy. Geochemistry, Geophysics, Geosystems, 2009, 10, .	1.0	78
62	The â€œSirente crater field,â€“Italy, revisited. Journal of Geophysical Research, 2009, 114, .	3.3	11
63	Magnetic classification of stony meteorites: 3. Achondrites. Meteoritics and Planetary Science, 2009, 44, 405-427.	0.7	47
64	Paleomagnetic dating of non-sulfide Zn-Pb ores in SW Sardinia (Italy): a first attempt. Annals of Geophysics, 2009, 48, .	0.5	0
65	A refined biomonitoring study of airborne particulate matter pollution in Rome, with magnetic measurements on <i>Quercus ilex</i> tree leaves. Geophysical Journal International, 2008, 173, 127-141.	1.0	66
66	Holocene eruptive history of the Stromboli volcano: Constraints from paleomagnetic dating. Journal of Geophysical Research, 2008, 113, .	3.3	65
67	A synchronous Alpine and Corsicaâ€“Sardinia rotation. Journal of Geophysical Research, 2008, 113, .	3.3	78
68	Magnetic classification of stony meteorites: 2. Nonâ€“ordinary chondrites. Meteoritics and Planetary Science, 2008, 43, 959-980.	0.7	73
69	Integrated stratigraphy of the Oligocene pelagic sequence in the Umbria-Marche basin (northeastern) Tj ETQq1 1 0.784314 rgBT /Overlo boundary. Bulletin of the Geological Society of America, 2008, 120, 487-511.	1.6	55
70	On leaf magnetic homogeneity in particulate matter biomonitoring studies. Geophysical Research Letters, 2007, 34, .	1.5	18
71	Iron Sulfides. , 2007, , 454-459.		10
72	Magnetic properties of atmospheric particulate matter from automatic air sampler stations in Latium (Italy): Toward a definition of magnetic fingerprints for natural and anthropogenic PM10sources. Journal of Geophysical Research, 2006, 111, n/a-n/a.	3.3	87

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73	A stacked record of relative geomagnetic paleointensity for the past 270 kyr from the western continental rise of the Antarctic Peninsula. <i>Earth and Planetary Science Letters</i> , 2006, 252, 162-179.	1.8	27
74	Magnetostratigraphic chronology of a late Eocene to early Miocene glacial marine succession from the Victoria Land Basin, Ross Sea, Antarctica. <i>Global and Planetary Change</i> , 2005, 45, 207-236.	1.6	54
75	A composite record of Late Pleistocene relative geomagnetic paleointensity from the Wilkes Land Basin (Antarctica). <i>Physics of the Earth and Planetary Interiors</i> , 2005, 151, 223-242.	0.7	34
76	Evidence for a variable paleomagnetic lock-in depth in the Holocene sequence from the Salerno Gulf (Italy): Implications for high-resolution paleomagnetic dating. <i>Geochemistry, Geophysics, Geosystems</i> , 2005, 6, n/a-n/a.	1.0	58
77	Comment on "Recent eruptive history of Stromboli (Aeolian Islands, Italy) determined from high-accuracy archeomagnetic dating" by S. Arrighi et al.. <i>Geophysical Research Letters</i> , 2005, 32, .	1.5	5
78	High-resolution petrophysical and palaeomagnetic study of late-Holocene shelf sediments, Salerno Gulf, Tyrrhenian Sea. <i>Holocene</i> , 2004, 14, 426-435.	0.9	23
79	Apparent magnetic polarity reversals due to remagnetization resulting from late diagenetic growth of greigite from siderite. <i>Geophysical Journal International</i> , 2004, 160, 89-100.	1.0	77
80	Paleomagnetism of spatter lavas from Stromboli volcano (Aeolian Islands, Italy): Implications for the age of paroxysmal eruptions. <i>Geophysical Research Letters</i> , 2004, 31, .	1.5	34
81	An anthropogenic origin of the Sirente crater, Abruzzi, Italy. <i>Meteoritics and Planetary Science</i> , 2004, 39, 635-649.	0.7	19
82	Biomonitoring of traffic air pollution in Rome using magnetic properties of tree leaves. <i>Atmospheric Environment</i> , 2003, 37, 2967-2977.	1.9	192
83	Magnetic classification of stony meteorites: 1. Ordinary chondrites. <i>Meteoritics and Planetary Science</i> , 2003, 38, 251-268.	0.7	125
84	Quaternary climatic control of biogenic magnetite production and eolian dust input in cores from the Mediterranean Sea. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2003, 190, 195-209.	1.0	39
85	Inter-laboratory calibration of low-field magnetic and anhysteretic susceptibility measurements. <i>Physics of the Earth and Planetary Interiors</i> , 2003, 138, 25-38.	0.7	60
86	Integrated chronostratigraphic calibration of the Oligocene-Miocene boundary at 24.0 ± 0.1 Ma from the CRP-2A drill core, Ross Sea, Antarctica. <i>Geology</i> , 2003, 31, e11-e12.	2.0	0
87	Integrated chronostratigraphic calibration of the Oligocene-Miocene boundary at 24.0 ± 0.1 Ma from the CRP-2A drill core, Ross Sea, Antarctica. <i>Geology</i> , 2002, 30, 1043.	2.0	34
88	Relative geomagnetic paleointensity from the Jaramillo Subchron to the Matuyama/Brunhes boundary as recorded in a Mediterranean piston core. <i>Earth and Planetary Science Letters</i> , 2002, 194, 327-341.	1.8	42
89	Age of the Corsica-Sardinia rotation and Liguro-Provençal Basin spreading: new paleomagnetic and Ar/Ar evidence. <i>Tectonophysics</i> , 2002, 347, 231-251.	0.9	222
90	Environmental magnetism of Antarctic Late Pleistocene sediments and interhemispheric correlation of climatic events. <i>Earth and Planetary Science Letters</i> , 2001, 192, 65-80.	1.8	69

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91	Comment on "New radiometric dating of volcanic ash layers in Periadriatic foredeep basin system, Italy". Palaeogeography, Palaeoclimatology, Palaeoecology, 2001, 167, 201-203.	1.0	1
92	Orbitally induced oscillations in the East Antarctic ice sheet at the Oligocene/Miocene boundary. Nature, 2001, 413, 719-723.	13.7	222
93	Rotational differences between the northern and southern Tyrrhenian domains: palaeomagnetic constraints from the Amantea basin (Calabria, Italy). Journal of the Geological Society, 2000, 157, 327-334.	0.9	33
94	Paleomagnetic constraints on the Pliocene-Pleistocene geodynamic evolution of the external central-northern Apennines (Italy). Earth and Planetary Science Letters, 2000, 180, 243-257.	1.8	11
95	Rock magnetism and palaeomagnetism of greigite-bearing mudstones in the Italian peninsula. Earth and Planetary Science Letters, 1999, 165, 67-80.	1.8	99
96	Extensional tectonics in the Amantea basin (Calabria, Italy): a comparison between structural and magnetic anisotropy data. Tectonophysics, 1999, 307, 33-49.	0.9	78
97	Magnetic anisotropy of Pliocene-Pleistocene sediments from the Adriatic margin of the northern Apennines (Italy): implications for the time-space evolution of the stress field. Tectonophysics, 1999, 311, 139-153.	0.9	41
98	Environmental magnetic record of Antarctic palaeoclimate from Eocene/Oligocene glaciomarine sediments, Victoria Land Basin. Geophysical Journal International, 1998, 134, 653-662.	1.0	35
99	BIO- AND MAGNETO-STRATIGRAPHY IN THE TIBER VALLEY REVISED. Quaternary International, 1998, 47-48, 65-72.	0.7	10
100	Magnetic fabric of clay sediments from the external northern Apennines (Italy). Physics of the Earth and Planetary Interiors, 1998, 105, 73-93.	0.7	107
101	Magnetobiostratigraphic chronology of the Eocene-Oligocene transition in the CIROS-1 core, Victoria Land margin, Antarctica: Implications for Antarctic glacial history. Bulletin of the Geological Society of America, 1998, 110, 35-47.	1.6	74
102	Paleomagnetic lab established in Antarctica. Eos, 1997, 78, 603.	0.1	1
103	Magnetic fabric of weakly deformed clay-rich sediments in the Italian peninsula: Relationship with compressional and extensional tectonics. Tectonophysics, 1997, 271, 107-122.	0.9	147
104	Tectonics of the Umbria-Marche-Romagna Arc (central northern Apennines, Italy): New paleomagnetic constraints. Journal of Geophysical Research, 1997, 102, 3153-3166.	3.3	86
105	Inverse to normal magnetic fabric transition in an Upper Miocene Marly Sequence from Tuscany, Italy. Geophysical Research Letters, 1996, 23, 909-912.	1.5	21
106	Magnetic mineralogy changes in the Pleistocene marine sequence of Montalto di Castro (central Italy) and influences on the magnetic anisotropy. Geophysical Journal International, 1996, 127, 529-541.	1.0	13
107	Lack of Late Miocene to Present rotation in the Northern Tyrrhenian margin (Italy): a constraint on geodynamic evolution. Geological Society Special Publication, 1996, 105, 141-146.	0.8	7
108	Revised magnetostratigraphy and rock magnetism of Pliocene sediments from Valle Ricca (Rome, Italy). Geological Society Special Publication, 1996, 105, 219-223.	0.8	3

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109	Palaeomagnetism and rock magnetism in the upper Pliocene Valle Ricca (Rome, Italy) section. <i>Geophysical Journal International</i> , 1995, 123, 340-354.	1.0	67
110	Magnetic fabric and structural setting of Plio-Pleistocene clayey units in an extensional regime: the Tyrrhenian margin of central Italy. <i>Journal of Structural Geology</i> , 1994, 16, 1243-1257.	1.0	65
111	Evolution of a transfer-related basin: the Ardea basin (Latium, central Italy). <i>Basin Research</i> , 1994, 6, 35-46.	1.3	44
112	Paleomagnetic evidence for no tectonic rotation of the central Italy Tyrrhenian Margin since Upper Pliocene. <i>Geophysical Research Letters</i> , 1994, 21, 481-484.	1.5	23
113	Magnetic fabric analysis of the Plio-Pleistocene clayey units of the Sant'Arcangelo basin, southern Italy. <i>Physics of the Earth and Planetary Interiors</i> , 1993, 77, 165-176.	0.7	59
114	Paleomagnetic evidence for a Pleistocene counterclockwise rotation of the Sant'Arcangelo Basin, southern Italy. <i>Geophysical Research Letters</i> , 1992, 19, 135-138.	1.5	61