## Pierre Lanari

List of Publications by Year in descending order

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172386 182361 2,930 82 29 51 citations h-index g-index papers 107 107 107 2295 citing authors docs citations times ranked all docs

#	Article	IF	CITATIONS
1	XMapTools: A MATLAB©-based program for electron microprobe X-ray image processing and geothermobarometry. Computers and Geosciences, 2014, 62, 227-240.	2.0	287
2	Pressure–temperature estimates of the lizardite/antigorite transition in high pressure serpentinites. Lithos, 2013, 178, 197-210.	0.6	238
3	Local Bulk Composition Effects on Metamorphic Mineral Assemblages. Reviews in Mineralogy and Geochemistry, 2017, 83, 55-102.	2.2	137
4	A thermodynamic model for di-trioctahedral chlorite from experimental and natural data in the system MgO–FeO–Al2O3–SiO2–H2O: applications to P–T sections and geothermometry. Contribution To Mineralogy and Petrology, 2014, 167, 1.	ns1.2	134
5	Significant Agesâ€"An Introduction to Petrochronology. Reviews in Mineralogy and Geochemistry, 2017, 83, 1-12.	2.2	94
6	Neotethys closure history of Anatolia: insights from <sup>40</sup> Ar– <sup>39</sup> Ar geochronology and <i>P–T</i> estimation in highâ€pressure metasedimentary rocks. Journal of Metamorphic Geology, 2013, 31, 585-606.	1.6	91
7	Deciphering high-pressure metamorphism in collisional context using microprobe mapping methods: Application to the Stak eclogitic massif (northwest Himalaya). Geology, 2013, 41, 111-114.	2.0	89
8	Diachronous evolution of the alpine continental subduction wedge: Evidence from P–T estimates in the Briançonnais Zone houillère (France – Western Alps). Journal of Geodynamics, 2012, 56-57, 39-54.	0.7	85
9	Quantitative compositional mapping of mineral phases by electron probe micro-analyser. Geological Society Special Publication, 2019, 478, 39-63.	0.8	85
10	Modeling Metamorphic Rocks Using Equilibrium Thermodynamics and Internally Consistent Databases: Past Achievements, Problems and Perspectives. Journal of Petrology, 2019, 60, 19-56.	1.1	80
11	Trace element mapping by LA-ICP-MS: assessing geochemical mobility in garnet. Contributions To Mineralogy and Petrology, 2017, 172, 1.	1.2	70
12	First evidence of eclogites overprinted by ultrahigh temperature metamorphism in Everest East, Himalaya: Implications for collisional tectonics on early Earth. Earth and Planetary Science Letters, 2021, 558, 116760.	1.8	62
13	Late Paleozoic evolution of the South Tien Shan: Insights from P–T estimates and allanite geochronology on retrogressed eclogites (Chatkal range, Kyrgyzstan). Journal of Geodynamics, 2016, 96, 62-80.	0.7	58
14	Identification of growth mechanisms in metamorphic garnet by high-resolution trace element mapping with LA-ICP-TOFMS. Contributions To Mineralogy and Petrology, 2020, 175, 1.	1.2	57
15	Reconstruction of multiple P-T-t stages from retrogressed mafic rocks: Subduction versus collision in the Southern BrasÃlia orogen (SE Brazil). Lithos, 2017, 294-295, 283-303.	0.6	56
16	Deeply subducted continental fragments – Part 1: Fracturing, dissolution–precipitation, and diffusion processes recorded by garnet textures of the central Sesia Zone (western Italian Alps). Solid Earth, 2018, 9, 167-189.	1.2	55
17	Exhumation of eclogite and blueschist (Cyclades, Greece): Pressure–temperature evolution determined by thermobarometry and garnet equilibrium modelling. Journal of Metamorphic Geology, 2018, 36, 769-798.	1.6	54
18	Deciphering temperature, pressure and oxygen-activity conditions of chlorite formation. Clay Minerals, 2016, 51, 615-633.	0.2	53

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19	Syn- to post-orogenic exhumation of metamorphic nappes: Structure and thermobarometry of the western Attic-Cycladic metamorphic complex (Lavrion, Greece). Journal of Geodynamics, 2016, 96, 174-193.	0.7	52
20	An inverse modeling approach to obtain P–T conditions of metamorphic stages involving garnet growth and resorption. European Journal of Mineralogy, 2017, 29, 181-199.	0.4	48
21	Permian high-temperature metamorphism in the Western Alps (NW Italy). International Journal of Earth Sciences, 2018, 107, 203-229.	0.9	46
22	Protracted zircon geochronological record of UHT garnet-free granulites in the Southern BrasÃlia orogen (SE Brazil): Petrochronological constraints on magmatism and metamorphism. Precambrian Research, 2018, 316, 103-126.	1.2	45
23	<i>Pâ€"Tâ€"t</i> estimation of deformation in lowâ€grade quartzâ€feldsparâ€bearing rocks using thermodynamic modelling and <sup>40</sup> Ar/ <sup>39</sup> Ar dating techniques: example of the Planâ€deâ€Phasy shear zone unit (Briançonnais Zone, Western Alps). Terra Nova, 2014, 26, 130-138.	0.9	43
24	Microstructural vs compositional preservation and pseudomorphic replacement of muscovite in deformed metapelites from the Longmen Shan (Sichuan, China). Lithos, 2017, 282-283, 262-280.	0.6	39
25	An Internally-Consistent Database for Oxygen Isotope Fractionation Between Minerals. Journal of Petrology, 2019, 60, 2101-2129.	1.1	36
26	Non-matrix-matched standardisation in LA-ICP-MS analysis: general approach, and application to allanite Thâ $\in$ "Uâ $\in$ "Pb dating. Journal of Analytical Atomic Spectrometry, 2017, 32, 1359-1377.	1.6	34
27	Microstructures, mineral chemistry and geochronology of white micas along a retrograde evolution: An example from the Aar massif (Central Alps, Switzerland). Tectonophysics, 2017, 721, 179-195.	0.9	33
28	Metamorphic and geochronogical study of the Triassic El Oro metamorphic complex, Ecuador: Implications for high-temperature metamorphism in a forearc zone. Lithos, 2013, 156-159, 41-68.	0.6	32
29	Deeply subducted continental fragments – PartÂ2: Insight from petrochronology in the central Sesia Zone (western Italian Alps). Solid Earth, 2018, 9, 191-222.	1.2	32
30	REE and Hf distribution among mineral phases in the CV–CK clan: A way to explain present-day Hf isotopic variations in chondrites. Geochimica Et Cosmochimica Acta, 2013, 120, 496-513.	1.6	29
31	Total exhumation across the Beichuan fault in the Longmen Shan (eastern Tibetan plateau, China): Constraints from petrology and thermobarometry. Journal of Asian Earth Sciences, 2017, 140, 108-121.	1.0	28
32	Temperature micro-mapping in oscillatory-zoned chlorite: Application to study of a green-schist facies fault zone in the Pyrenean Axial Zone (Spain). American Mineralogist, 2015, 100, 2468-2483.	0.9	26
33	Influence of dissolution/reprecipitation reactions on metamorphic greenschist to amphibolite facies mica <sup>40</sup> Ar/ <sup>39</sup> Ar ages in the Longmen Shan (eastern Tibet). Journal of Metamorphic Geology, 2018, 36, 933-958.	1.6	25
34	Long-term fluid circulation in extensional faults in the central Catalan Coastal Ranges: P–T constraints from neoformed chlorite and K-white mica. International Journal of Earth Sciences, 2014, 103, 165-188.	0.9	24
35	Garnet Lu Hf geochronology and P-T path of the Gridino-type eclogite in the Belomorian Province, Russia. Lithos, 2019, 326-327, 313-326.	0.6	24
36	Microscale Mapping of Alteration Conditions and Potential Biosignatures in Basaltic-Ultramafic Rocks on Early Earth and Beyond. Astrobiology, 2014, 14, 216-228.	1.5	23

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37	Climate-controlled shifts in sediment provenance inferred from detrital zircon ages, western Peruvian Andes. Geology, 2017, 45, 59-62.	2.0	23
38	The role of the antigorite + brucite to olivine reaction in subducted serpentinites (Zermatt,) Tj ETQq0 0	0 rgBT/C	verlock 10 Tf
39	Iterative thermodynamic modellingâ€"Part 1: A theoretical scoring technique and a computer program ( <scp>Bingoâ€Antidote</scp> ). Journal of Metamorphic Geology, 2020, 38, 527-551.	1.6	21
40	Tectonometamorphic evolution of the Atbashi highâ€∢i>P units (Kyrgyz <scp>CAOB</scp> , Tien Shan): Implications for the closure of the Turkestan Ocean and continental subduction–exhumation of the South Kazakh continental margin. Journal of Metamorphic Geology, 2018, 36, 959-985.	1.6	20
41	Deciphering the tectono-metamorphic evolution of the Nevado-Fil $ ilde{A}_i$ bride complex (Betic Cordillera,) Tj ETQq $1\ 1$	0.784314	l rgBT /Overlo
42	Magmatic flare-up causes crustal thickening at the transition from subduction to continental collision. Communications Earth & Environment, 2021, 2, .	2.6	19
43	Titanium isotopic compositions of bulk rocks and mineral separates from the Kos magmatic suite: Insights into fractional crystallization and magma mixing processes. Chemical Geology, 2021, 578, 120303.	1.4	19
44	Textural and chemical evolution of pyroxene during hydration and deformation: A consequence of retrograde metamorphism. Lithos, 2018, 296-299, 245-264.	0.6	18
45	Tracing fluid transfers in subduction zones: an integrated thermodynamic and & amp; t;i>î & amp;lt; i>& amp; t;sup>18& t; sup>O fractionation modelling approach. Solid Earth, 2020, 11, 307-328.	1.2	18
46	Al-free di-trioctahedral substitution in chlorite and a ferri-sudoite end-member. Clay Minerals, 2016, 51, 675-689.	0.2	17
47	Textural-chemical changes and deformation conditions registered by phyllosilicates in a fault zone (Pic de Port Vieux thrust, Pyrenees). Applied Clay Science, 2017, 144, 88-103.	2.6	16
48	Petrology and geochemistry of feldspathic impactâ€melt breccia Abar al' Uj 012, theÂfirst lunar meteorite from Saudi Arabia. Meteoritics and Planetary Science, 2016, 51, 1830-1848.	0.7	15
49	On the petrology of brittle precursors of shear zones – An expression of concomitant brittle deformation and fluid–rock interactions in the â€~ductile' continental crust?. Journal of Metamorphic Geology, 2019, 37, 1129-1149.	1.6	15
50	Pervasive Eclogitization Due to Brittle Deformation and Rehydration of Subducted Basement: Effects on Continental Recycling?. Geochemistry, Geophysics, Geosystems, 2018, 19, 865-881.	1.0	14
51	Permian charnockites in the Pobeda area: Implications for Tarim mantle plume activity and HT metamorphism in the South Tien Shan range. Lithos, 2018, 304-307, 135-154.	0.6	14
52	Allanite Petrochronology in Fresh and Retrogressed Garnet–Biotite Metapelites from the Longmen Shan (Eastern Tibet). Journal of Petrology, 2019, 60, 151-176.	1.1	14
53	Pervasive fluid-rock interaction in subducted oceanic crust revealed by oxygen isotope zoning in garnet. Contributions To Mineralogy and Petrology, 2021, 176, 1.	1.2	14
54	The evolution of the Sesia Zone (Western Alps) from Carboniferous to Cretaceous: insights from zircon and allanite geochronology. Swiss Journal of Geosciences, 2020, 113, 24.	0.5	12

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55	A mapping approach for the investigation of Ti–OH relationships in metamorphic garnet. Contributions To Mineralogy and Petrology, 2020, 175, 1.	1.2	12
56	Corona formation around monazite and xenotime during greenschist-facies metamorphism and deformation. European Journal of Mineralogy, 2020, 32, 521-544.	0.4	12
57	Exhumation of deep continental crust in a transpressive regime: The example of Variscan eclogites from the Aiguillesâ€Rouges massif (Western Alps). Journal of Metamorphic Geology, 2022, 40, 1087-1120.	1.6	12
58	Microâ€scale chemical and physical patterns in an interface of hydrothermal dolomitization reveals the governing transport mechanisms in nature: Case of the Layens anticline, Pyrenees, France. Sedimentology, 2021, 68, 834-854.	1.6	10
59	Pressure–temperature–time evolution of subducted crust revealed by complex garnet zoning (Theodul Glacier Unit, Switzerland). Journal of Metamorphic Geology, 2022, 40, 175-206.	1.6	10
60	Fluid–rock interactions related to metamorphic reducing fluid flow in meta-sediments: example of the Pic-de-Port-Vieux thrust (Pyrenees, Spain). Contributions To Mineralogy and Petrology, 2017, 172, 1.	1.2	9
61	Lightning-induced weathering of Cascadian volcanic peaks. Earth and Planetary Science Letters, 2020, 552, 116595.	1.8	9
62	Crustal reworking and hydration: insights from element zoning and oxygen isotopes of garnet in high-pressure rocks (Sesia Zone, Western Alps). Contributions To Mineralogy and Petrology, 2020, 175, 1.	1.2	9
63	Long-lived intracontinental deformation associated with high geothermal gradients in the SeridÃ <sup>3</sup> Belt (Borborema Province, Brazil). Precambrian Research, 2021, 358, 106141.	1.2	9
64	Petrochronology of highâ€pressure granulite facies rocks from Southern BrasÃlia Orogen, SE Brazil: Combining quantitative compositional mapping, singleâ€element thermometry and geochronology. Journal of Metamorphic Geology, 2022, 40, 517-552.	1.6	9
65	Microstructural analyses of a giant quartz reef in south China reveal episodic brittle-ductile fluid transfer. Journal of Structural Geology, 2020, 130, 103911.	1.0	8
66	U â^ Pb geochronology of epidote by laser ablation inductively coupled plasma mass spectrometry (LA-ICP-MS) as a tool for dating hydrothermal-vein formation. Geochronology, 2021, 3, 123-147.	1.0	8
67	Comment on "The Role of H <sub>3</sub> O <sup>+</sup> in the Crystal Structure of Illite―By F. Nieto, M. Melini, And I. Abad. Clays and Clay Minerals, 2010, 58, 717-720.	0.6	7
68	Fluid composition changes in crystalline basement rocks from ductile to brittle regimes. Global and Planetary Change, 2018, 171, 273-292.	1.6	7
69	Pre-Alpine thermal history recorded in the continental crust from Alpine Corsica (France): evidence from zircon and allanite LA-ICP-MS dating. Swiss Journal of Geosciences, 2020, 113, .	0.5	7
70	Iterative thermodynamic modellingâ€"Part 2: Tracing equilibrium relationships between minerals in metamorphic rocks. Journal of Metamorphic Geology, 2021, 39, 651-674.	1.6	7
71	Early Variscan I-type pluton in the pre-Alpine basement of the Western Alps: The ca. 360Ma Cogne diorite (NW-Italy). Lithos, 2012, 153, 94-107.	0.6	6
72	1. Significant Ages - An Introduction to Petrochronology. , 2017, , 1-12.		6

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73	Miocene basement exhumation in the Central Alps recorded by detrital garnet geochemistry in foreland basin deposits. Solid Earth, 2019, 10, 1581-1595.	1.2	6
74	Metamorphic geology: progress and perspectives. Geological Society Special Publication, 2019, 478, 1-12.	0.8	6
75	Possible climatic controls on the accumulation of Peru's most prominent alluvial fan: The Lima Conglomerate. Earth Surface Processes and Landforms, 2019, 44, 991-1003.	1.2	5
76	Deep subduction, melting, and fast cooling of metapelites from the Cima Lunga Unit, Central Alps. Journal of Metamorphic Geology, 2022, 40, 121-143.	1.6	5
77	3. Local Bulk Composition Effects on Metamorphic Mineral Assemblages. , 2017, , 55-102.		4
78	Zircon age of vaugnerite intrusives from the Central and Southern Vosges crystalline massif (E) Tj ETQq0 0 0 rgBT Geologique De France, 2020, 191, 26.	Overlock 0.9	10 Tf 50 54
79	Kinematic, Metamorphic, and Age Constraints on the Miyar Thrust Zone: Implications for the Eohimalayan History of the High Himalayan Crystalline of NW India. Tectonics, 2020, 39, e2020TC006379.	1.3	4
80	Correction to: The role of the antigorite + brucite to olivine reaction in subducted serpentinites (Zermatt, Switzerland). Swiss Journal of Geosciences, 2020, 113, .	0.5	2
81	An inverse modeling approach to obtain P–T conditions of metamorphic stages involving garnet growth and resorption. European Journal of Mineralogy, 2017, , .	0.4	2
82	Composition Effects on Metamorphic Mineral Assemblages. , 2021, , 502-512.		0