## Lucia Mancini

## List of Publications by Citations

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123<br/>papers2,829<br/>citations32<br/>h-index48<br/>g-index147<br/>ext. papers3,403<br/>ext. citations3.9<br/>avg, IF5<br/>L-index

#	Paper	IF	Citations
123	PITRE: software for phase-sensitive X-ray image processing and tomography reconstruction. <i>Journal of Synchrotron Radiation</i> , <b>2012</b> , 19, 836-45	2.4	162
122	An introduction to the application of X-ray microtomography to the three-dimensional study of igneous rocks. <i>Lithos</i> , <b>2012</b> , 148, 262-276	2.9	147
121	Pore3D: A software library for quantitative analysis of porous media. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , <b>2010</b> , 615, 326-332	1.2	108
120	The origin of squamates revealed by a Middle Triassic lizard from the Italian Alps. <i>Nature</i> , <b>2018</b> , 557, 706-709	50.4	93
119	High resolution microtomography-based CFD simulation of flow and heat transfer in aluminum metal foams. <i>Applied Thermal Engineering</i> , <b>2014</b> , 69, 230-240	5.8	90
118	Monitoring of the heavy-metal hyperaccumulation in vegetal tissues by X-ray radiography and by femto-second laser induced breakdown spectroscopy. <i>Microscopy Research and Technique</i> , <b>2007</b> , 70, 14	7 <sup>-2</sup> 5 <sup>8</sup> 3	72
117	Computed micro-tomographic evaluation of glide path with nickel-titanium rotary PathFile in maxillary first molars curved canals. <i>Journal of Endodontics</i> , <b>2012</b> , 38, 389-93	4.7	71
116	A four-dimensional X-ray tomographic microscopy study of bubble growth in basaltic foam. <i>Nature Communications</i> , <b>2012</b> , 3, 1135	17.4	69
115	Three-dimensional investigation of volcanic textures by X-ray microtomography and implications for conduit processes. <i>Geophysical Research Letters</i> , <b>2006</b> , 33,	4.9	65
114	Enhanced and Flexible Software Tools for X-ray Computed Tomography at the Italian Synchrotron Radiation Facility Elettra. <i>Fundamenta Informaticae</i> , <b>2015</b> , 141, 233-243	1	63
113	Gas-driven filter pressing in magmas: Insights into in-situ melt segregation from crystal mushes. <i>Geology</i> , <b>2015</b> , 43, 699-702	5	61
112	Large vesicles record pathways of degassing at basaltic volcanoes. <i>Bulletin of Volcanology</i> , <b>2008</b> , 70, 107	2 <b>3:</b> 402	. <b>9</b> 59
111	Vesiculation in magmas from Stromboli and implications for normal Strombolian activity and paroxysmal explosions in basaltic systems. <i>Journal of Geophysical Research</i> , <b>2009</b> , 114,		58
110	Phason elastic constants of the icosahedral Al-Pd-Mn phase derived from diffuse scattering measurements. <i>Philosophical Magazine Letters</i> , <b>2001</b> , 81, 273-283	1	55
109	The effects of rock heterogeneity on compaction localization in porous carbonates. <i>Journal of Structural Geology</i> , <b>2014</b> , 67, 75-93	3	54
108	Three-dimensional Quantitative Analysis of Bread Crumb by X-ray Microtomography. <i>Journal of Food Science</i> , <b>2006</b> , 70, E265-E272	3.4	54
107	Texture analysis of volcanic rock samples: Quantitative study of crystals and vesicles shape preferred orientation from X-ray microtomography data. <i>Journal of Volcanology and Geothermal Research</i> , <b>2011</b> , 202, 83-95	2.8	53

106	The late Early Pleistocene human dental remains from Uadi Aalad and Mulhuli-Amo (Buia), Eritrean Danakil: macromorphology and microstructure. <i>Journal of Human Evolution</i> , <b>2014</b> , 74, 96-113	3.1	51
105	Beeswax as dental filling on a neolithic human tooth. <i>PLoS ONE</i> , <b>2012</b> , 7, e44904	3.7	49
104	Dynamic intensity normalization using eigen flat fields in X-ray imaging. <i>Optics Express</i> , <b>2015</b> , 23, 27975	5-83-93	44
103	A Novel Approach to the Study of Bread Porous Structure: Phase-contrast X-Ray Microtomography. Journal of Food Science, <b>2004</b> , 69, FEP38-FEP43	3.4	44
102	Micro-Computed Tomography Evaluation of ProTaper Next and BioRace Shaping Outcomes in Maxillary First Molar Curved Canals. <i>Journal of Endodontics</i> , <b>2015</b> , 41, 1706-10	4.7	41
101	TomoBank: a tomographic data repository for computational x-ray science. <i>Measurement Science and Technology</i> , <b>2018</b> , 29, 034004	2	41
100	Micro-biomechanics of the Kebara 2 hyoid and its implications for speech in Neanderthals. <i>PLoS ONE</i> , <b>2013</b> , 8, e82261	3.7	38
99	Floating stones off El Hierro, Canary Islands: xenoliths of pre-island sedimentary origin in the early products of the October 2011 eruption. <i>Solid Earth</i> , <b>2012</b> , 3, 97-110	3.3	36
98	Micro-CT evaluation of several glide path techniques and ProTaper Next shaping outcomes in maxillary first molar curved canals. <i>International Endodontic Journal</i> , <b>2017</b> , 50, 387-397	5.4	35
97	High resolution X-ray microtomography-based CFD simulation for the characterization of flow permeability and effective thermal conductivity of aluminum metal foams. <i>Experimental Thermal and Fluid Science</i> , <b>2015</b> , 67, 30-36	3	35
96	Brief communication: two human fossil deciduous molars from the Sangiran dome (Java, Indonesia): outer and inner morphology. <i>American Journal of Physical Anthropology</i> , <b>2012</b> , 147, 472-81	2.5	35
95	Investigation of structural defects and inhomogeneities in Al-Pd-Mn icosahedral quasicrystals by combined synchrotron X-ray topography and phase radiography. <i>Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties</i> , <b>1998</b> , 78, 1175-1194		35
94	3D Pore-network quantitative analysis in deformed carbonate grainstones. <i>Marine and Petroleum Geology</i> , <b>2017</b> , 82, 251-264	4.7	32
93	Imaging techniques for the study of food microstructure: a review. <i>Advances in Food and Nutrition Research</i> , <b>2006</b> , 51, 205-63	6	32
92	Phase imaging using highly coherent X-rays: radiography, tomography, diffraction topography. Journal of Synchrotron Radiation, <b>2000</b> , 7, 196-201	2.4	32
91	A detailed study of gold-nanoparticle loaded cells using X-ray based techniques for cell-tracking applications with single-cell sensitivity. <i>Nanoscale</i> , <b>2013</b> , 5, 3337-45	7.7	31
90	The contribution of synchrotron X-ray computed microtomography to understanding volcanic processes. <i>Journal of Synchrotron Radiation</i> , <b>2010</b> , 17, 215-21	2.4	31
89	DID NEANDERTHALS PLAY MUSIC? X-RAY COMPUTED MICRO-TOMOGRAPHY OF THE DIVJE BABE BLUTEB. Archaeometry, <b>2012</b> , 54, 581-590	1.6	29

88	Near-liquidus growth of feldspar spherulites in trachytic melts: 3D morphologies and implications in crystallization mechanisms. <i>Lithos</i> , <b>2015</b> , 216-217, 93-105	2.9	28
87	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
86	Inner tooth morphology of Homo erectus from Zhoukoudian. New evidence from an old collection housed at Uppsala University, Sweden. <i>Journal of Human Evolution</i> , <b>2018</b> , 116, 1-13	3.1	27
85	Focusing X-rays with simple arrays of prism-like structures. <i>Journal of Synchrotron Radiation</i> , <b>2004</b> , 11, 248-53	2.4	27
84	Degassing behaviour of vesiculated basaltic magmas: an example from Ambrym volcano, Vanuatu Arc. <i>Journal of Volcanology and Geothermal Research</i> , <b>2012</b> , 233-234, 55-64	2.8	25
83	Hierarchical porosity in real quasicrystals. <i>Philosophical Magazine Letters</i> , <b>1998</b> , 78, 159-167	1	24
82	The Middle Pleistocene (MIS 12) human dental remains from Fontana Ranuccio (Latium) and Visogliano (Friuli-Venezia Giulia), Italy. A comparative high resolution endostructural assessment. <i>PLoS ONE</i> , <b>2018</b> , 13, e0189773	3.7	24
81	Controlled release of a highly hydrophilic API from lipid microspheres obtained by prilling: analysis of drug and water diffusion processes with X-ray-based methods. <i>Journal of Controlled Release</i> , <b>2012</b> , 158, 393-402	11.7	23
80	Investigation of the microstructure and mineralogical composition of urinary calculi fragments by synchrotron radiation X-ray microtomography: a feasibility study. <i>Urological Research</i> , <b>2011</b> , 39, 259-67		23
79	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
78	Using synchrotron X-ray microtomography to characterize the pore network of reservoir rocks: A case study on carbonates. <i>Advances in Water Resources</i> , <b>2016</b> , 95, 254-263	4.7	20
77	Plagioclase nucleation and growth kinetics in a hydrous basaltic melt by decompression experiments. <i>Contributions To Mineralogy and Petrology</i> , <b>2015</b> , 170, 1	3.5	20
76	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
75	Virtual histological assessment of the prenatal life history and age at death of the Upper Paleolithic fetus from Ostuni (Italy). <i>Scientific Reports</i> , <b>2017</b> , 7, 9427	4.9	19
74	The Grizzly Lake complex (Yellowstone Volcano, USA): Mixing between basalt and rhyolite unraveled by microanalysis and X-ray microtomography. <i>Lithos</i> , <b>2016</b> , 260, 457-474	2.9	19
73	Investigation of the osteitis deformans phases in snake vertebrae by double-pulse laser-induced breakdown spectroscopy. <i>Analytical and Bioanalytical Chemistry</i> , <b>2010</b> , 398, 1095-107	4.4	18
72	Coherent X-ray diffraction and phason fluctuations in quasicrystals. <i>Europhysics Letters</i> , <b>2001</b> , 54, 753-75	- <b></b> <b>59</b> .6	18
71	The 3D quantitative lattice and shape preferred orientation of a mylonitised metagranite from Monte Rosa (Western Alps): Combining neutron diffraction texture analysis and synchrotron X-ray microtomography. <i>Journal of Structural Geology</i> , <b>2014</b> , 63, 91-105	3	16

70	Evaluation of microstructural properties of coffee beans by synchrotron X-ray microtomography: a methodological approach. <i>Journal of Food Science</i> , <b>2011</b> , 76, E222-31	3.4	16	
69	Synchrotron X-ray computed microtomography investigation of a mortar affected by alkaliBilica reaction: a quantitative characterization of its microstructural features. <i>Journal of Materials Science</i> , <b>2011</b> , 46, 6633-6641	4.3	16	
68	An investigation of mortars affected by alkali-silica reaction by X-ray synchrotron microtomography: a preliminary study. <i>Journal of Materials Science</i> , <b>2009</b> , 44, 5815-5823	4.3	16	
67	Permeability measurements of Campi Flegrei pyroclastic products: An example from the Campanian Ignimbrite and Monte Nuovo eruptions. <i>Journal of Volcanology and Geothermal Research</i> , <b>2014</b> , 272, 16-22	2.8	15	
66	Phonon- and phason-type spherical inclusions in icosahedral quasicrystals. <i>Journal of Physics Condensed Matter</i> , <b>2003</b> , 15, L363-L370	1.8	15	
65	Structural microanalysis with synchrotron radiation: archaeometric applications at Elettra. <i>Journal of Neutron Research</i> , <b>2006</b> , 14, 75-79	0.5	14	
64	New features of dislocation images in third-generation synchrotron radiation topographs. <i>Journal of Synchrotron Radiation</i> , <b>1996</b> , 3, 173-84	2.4	13	
63	Volatile segregation and generation of highly vesiculated explosive magmas by volatile-melt fining processes: The case of the Campanian Ignimbrite eruption. <i>Chemical Geology</i> , <b>2019</b> , 503, 1-14	4.2	13	
62	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	
61	A combined synchrotron radiation micro computed tomography and micro X-ray diffraction study on deleterious alkali-silica reaction. <i>Journal of Materials Science</i> , <b>2015</b> , 50, 7985-7997	4.3	12	
60	Analysis of Intracellular Magnesium and Mineral Depositions during Osteogenic Commitment of 3D Cultured Saos2 Cells. <i>International Journal of Molecular Sciences</i> , <b>2020</b> , 21,	6.3	12	
59	First 3D imaging characterization of Pele's hair from Kilauea volcano (Hawaii). <i>Scientific Reports</i> , <b>2019</b> , 9, 1711	4.9	11	
58	A novel protocol for resolving feldspar crystals in synchrotron X-ray microtomographic images of crystallized natural magmas and synthetic analogs. <i>American Mineralogist</i> , <b>2016</b> , 101, 2301-2311	2.9	11	
57	Integrating X-Ray Computed Tomography With Chemical Imaging to Quantify Mineral Re-crystallization From Granulite to Eclogite Metamorphism in the Western Italian Alps (Sesia-Lanzo Zone). <i>Frontiers in Earth Science</i> , <b>2019</b> , 7,	3.5	11	
56	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	
55	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	
54	Microstructural characterization of dental zinc phosphate cements using combined small angle neutron scattering and microfocus X-ray computed tomography. <i>Dental Materials</i> , <b>2017</b> , 33, 402-417	5.7	10	
53	Three-dimensional distribution of primary melt inclusions in garnets by X-ray microtomography.  American Mineralogist, <b>2018</b> , 103, 911-926	2.9	10	

52	Influence of aggregate mineralogy on alkalililica reaction studied by X-ray powder diffraction and imaging techniques. <i>Journal of Materials Science</i> , <b>2012</b> , 47, 2845-2855	4.3	10
51	Three-dimensional analysis of the canal network of an Indonesian Stylaster (Cnidaria, Hydrozoa, Stylasteridae) by means of X-ray computed microtomography. <i>Zoomorphology</i> , <b>2011</b> , 130, 85-95	1	10
50	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
49	Implementation of Dynamic Neutron Radiography and Integrated X-Ray and Neutron Tomography in Porous Carbonate Reservoir Rocks. <i>Frontiers in Earth Science</i> , <b>2019</b> , 7,	3.5	9
48	Exploring Hominin and Non-hominin Primate Dental Fossil Remains with Neutron Microtomography. <i>Physics Procedia</i> , <b>2017</b> , 88, 109-115		8
47	An Innovative CCD-Based High-Resolution CT System for Analysis of Trabecular Bone Tissue. <i>IEEE Transactions on Nuclear Science</i> , <b>2006</b> , 53, 2584-2590	1.7	8
46	Detecting microdiamonds in kimberlite drill-hole cores by computed tomography. <i>International Journal of Mineral Processing</i> , <b>2005</b> , 75, 173-188		8
45	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
44	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
43	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
42	Mineral inclusions are not immutable: Evidence of post-entrapment thermally-induced shape change of quartz in garnet. <i>Earth and Planetary Science Letters</i> , <b>2021</b> , 555, 116708	5.3	7
41	Electrochemical reconstruction of a heavily corroded Tarentum hemiobolus silver coin: a study based on microfocus X-ray computed microtomography. <i>Journal of Archaeological Science</i> , <b>2014</b> , 52, 24-	-30 <sup>9</sup>	6
40	Quantitative 3D microstructural analysis of naturally deformed amphibolite from the Southern Alps (Italy): microstructures, CPO and seismic anisotropy from a fossil extensional margin. <i>Geological Society Special Publication</i> , <b>2015</b> , 409, 201-222	1.7	6
39	Heterogeneous vesiculation of 2011 El Hierro xeno-pumice revealed by X-ray computed microtomography. <i>Bulletin of Volcanology</i> , <b>2016</b> , 78, 1	2.4	5
38	Microtomography-based CFD Analysis of Transport in Open-Cell Aluminum Metal Foams. <i>Journal of Physics: Conference Series</i> , <b>2014</b> , 501, 012021	0.3	5
37	Extended investigation of porosity in quasicrystals by synchrotron X-ray phase contrast radiography II In icosahedral AlPdMn grains. <i>Journal of Crystal Growth</i> , <b>2005</b> , 281, 623-638	1.6	5
36	Halloysite nanotubes/pluronic nanocomposites for waterlogged archeological wood: thermal stability and X-ray microtomography. <i>Journal of Thermal Analysis and Calorimetry</i> , <b>2020</b> , 141, 981-989	4.1	4
35	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

34	About a method for compressing x-ray computed microtomography data. <i>Measurement Science and Technology</i> , <b>2018</b> , 29, 044002	2	4	
33	X-ray optics and imaging with hard coherent synchrotron radiation <b>1997</b> ,		4	
32	Quantitative evaluation of bone-mineral density loss using X-ray coherent scattering. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , <b>2007</b> , 579, 318-321	1.2	4	
31	Bone diagenesis in archaeological and contemporary human remains: an investigation of bone 3D microstructure and minero-chemical assessment. <i>Archaeological and Anthropological Sciences</i> , <b>2020</b> , 12, 1	1.8	4	
30	Garnets from Val dAla Rodingites, Piedmont, Italy: An Investigation of Their Gemological, Spectroscopic and Crystal Chemical Properties. <i>Minerals (Basel, Switzerland)</i> , <b>2019</b> , 9, 728	2.4	4	
29	In Situ and Ex Situ X-Ray Microspectroelectrochemical Methods for the Study of ZincAir Batteries <b>2018</b> , 174-194		4	
28	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	
27	Studying model suspensions using high resolution synchrotron X-ray microtomography. <i>Chemical Engineering Research and Design</i> , <b>2017</b> , 117, 756-772	5.5	3	
26	3D X-ray[tomographic analysis reveals how coesite is preserved in Muong Nong-type tektites. <i>Scientific Reports</i> , <b>2020</b> , 10, 20608	4.9	3	
25	Deep sea explosive eruptions may be not so different from subaerial eruptions. <i>Scientific Reports</i> , <b>2020</b> , 10, 6709	4.9	3	
24	Investigation of nano-microstructural changes in Maastricht limestone after treatment with nanolime suspension. <i>Applied Physics A: Materials Science and Processing</i> , <b>2020</b> , 126, 1	2.6	3	
23	A compact and flexible induction furnace for in situ X-ray microradiograhy 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	
22	The importance of pore throats in controlling the permeability of magmatic foams. <i>Bulletin of Volcanology</i> , <b>2019</b> , 81, 1	2.4	3	
21	Growth of Neanderthal infants from Krapina (120-130 ka), Croatia. <i>Proceedings of the Royal Society B: Biological Sciences</i> , <b>2021</b> , 288, 20212079	4.4	3	
20	Pore-scale dual-porosity and dual-permeability modeling in an exposed multi-facies porous carbonate reservoir. <i>Marine and Petroleum Geology</i> , <b>2021</b> , 128, 105004	4.7	3	
19	Enhanced contrast in X-ray microtomographic images of the membranous labyrinth using different X-ray sources and scanning modes. <i>Journal of Anatomy</i> , <b>2018</b> , 233, 770-782	2.9	3	
18	X-ray computed microtomography of Megachirella wachtleri. <i>Scientific Data</i> , <b>2018</b> , 5, 180244	8.2	2	
17	Micro-ATR FTIR, SEM-EDS and X-ray micro-CT: an innovative multi-technique approach to investigate bone affected by peri-implantitis. <i>International Journal of Oral and Maxillofacial Implants</i> , <b>2019</b> , 34, 631-641	2.8	2	

Dental cementum virtual histology of Neanderthal teeth from Krapina (Croatia, 130-120 kyr): an 16 informed estimate of age, sex and adult stressors.. Journal of the Royal Society Interface, 2022, 19, 20210820 Advanced x-ray tomography: experiment, modeling, and algorithms. Measurement Science and 15 *Technology*, **2018**, 29, 080101 Modeling the failure of magmatic foams with application to Stromboli volcano, Italy. Earth and 14 5.3 1 Planetary Science Letters, **2014**, 403, 246-253 An infant burial from Arma Veirana in northwestern Italy provides insights into funerary practices 13 4.9 and female personhood in early Mesolithic Europe.. Scientific Reports, 2021, 11, 23735 Virtual histology of archaeological human deciduous prenatal enamel through synchrotron X-ray 12 2.4 1 computed microtomography images.. Journal of Synchrotron Radiation, 2022, 29, 247-253 Diagenesis of juvenile skeletal remains: A multimodal and multiscale approach to examine the 11 2.9 post-mortem decay of children's bones. Journal of Archaeological Science, 2021, 135, 105477 Synchrotron radiation X-ray microtomography for the visualization of intra-cochlear anatomy in human temporal bones implanted with a perimodiolar cochlear implant electrode array. Journal of 10 1 2.4 Synchrotron Radiation, 2021, 28, 327-332 Living in darkness: Exploring adaptation of Proteus anguinus in 3 dimensions by X-ray imaging.. 7.6 GigaScience, **2022**, 11, New evaluation of the Castel di Guido 'hyoid'. Journal of Anthropological Sciences, 2016, 94, 231-5 8 0.6 7 Tracing the mobility of a Late Epigravettian (~ 13Ika) male infant from Grotte di Pradis 4.9 (Northeastern Italian Prealps) at high-temporal resolution.. Scientific Reports, 2022, 12, 8104 3D-localisation of cochlear implant electrode contacts in relation to anatomical structures from in 6 3.9 O vivo cone-beam computed tomography. Hearing Research, 2022, 108537 Detection of lead in Zea mays by dual-energy X-ray microtomography at the SYRMEP beamline of the ELETTRA synchrotron and by atomic absorption spectroscopy. Microscopy Research and 2.8 Technique, 2010, 73, 638-49 Directional differences in head stabilisation in Acanthodactylus pardalis lizards. Journal of 2.9 Biomechanics, 2021, 121, 110418 The Use of Synchrotron-Based X-ray Microtomography for the Pore Network Quantitative and Computational Fluid Dynamics Experiments on Porous Carbonate Rocks. Springer Proceedings in 0.2 Physics, **2021**, 203-217 Three-dimensional distribution of primary melt inclusions in garnets by X-ray microtomography. 2.9 American Mineralogist, 2018, 103, 911-926 CO2 storage in the Antarctica Sub-Continental Lithospheric Mantle as revealed by intra- and 2.9 inter-granular fluids. *Lithos*, **2022**, 416-417, 106643