

Mirko Massi

List of Publications by Year in descending order

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45
papers

1,056
citations

361413

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414414

32
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45
all docs

45
docs citations

45
times ranked

1007
citing authors

#	ARTICLE	IF	CITATIONS
1	The Role of PIXE and XRF in Heritage Science: The INFN-CHNet LABEC Experience. Applied Sciences (Switzerland), 2022, 12, 6585.	2.5	9
2	The Importance of Being Versatile: INFN-CHNet MA-XRF Scanner on Furniture at the CCR "La Venaria Reale". Applied Sciences (Switzerland), 2021, 11, 1197.	2.5	13
3	Creation of Silicon-Vacancy Color Centers in Diamond by Ion Implantation. Frontiers in Physics, 2021, 8, .	2.1	20
4	LABEC, the INFN ion beam laboratory of nuclear techniques for environment and cultural heritage. European Physical Journal Plus, 2021, 136, 472.	2.6	19
5	Detectors and Cultural Heritage: The INFN-CHNet Experience. Applied Sciences (Switzerland), 2021, 11, 3462.	2.5	26
6	A multi-technique tomography-based approach for non-invasive characterization of additive manufacturing components in view of vacuum/UHV applications: preliminary results. Rendiconti Lincei, 2021, 32, 463-477.	2.2	4
7	The center for production of single-photon emitters at the electrostatic-deflector line of the Tandem accelerator of LABEC (Florence). Nuclear Instruments & Methods in Physics Research B, 2018, 422, 31-40.	1.4	11
8	Protocol for lapis lazuli provenance determination: evidence for an Afghan origin of the stones used for ancient carved artefacts kept at the Egyptian Museum of Florence (Italy). Archaeological and Anthropological Sciences, 2017, 9, 637-651.	1.8	20
9	Refractive index variation in a free-standing diamond thin film induced by irradiation with fully transmitted high-energy protons. Scientific Reports, 2017, 7, 385.	3.3	15
10	Preliminary results on time-resolved ion beam induced luminescence applied to the provenance study of lapis lazuli. Nuclear Instruments & Methods in Physics Research B, 2016, 371, 336-339.	1.4	9
11	Imaging study of Raffaello's "La Muta" by a portable XRF spectrometer. Microchemical Journal, 2016, 126, 63-69.	4.5	51
12	Robust luminescence of the silicon-vacancy center in diamond at high temperatures. AIP Advances, 2015, 5, .	1.3	31
13	Ion Beam Analysis for the provenance attribution of lapis lazuli used in glyptic art: The case of the "Collezione Medicea". Nuclear Instruments & Methods in Physics Research B, 2015, 348, 278-284.	1.4	23
14	Wide area scanning system and carbon microbeams at the external microbeam facility of the INFN LABEC laboratory in Florence. Nuclear Instruments & Methods in Physics Research B, 2015, 348, 14-17.	1.4	7
15	The set-up for forward scattered particle detection at the external microbeam facility of the INFN-LABEC laboratory in Florence. Nuclear Instruments & Methods in Physics Research B, 2015, 348, 8-13.	1.4	3
16	Micro-beam and pulsed laser beam techniques for the micro-fabrication of diamond surface and bulk structures. Nuclear Instruments & Methods in Physics Research B, 2015, 348, 191-198.	1.4	3
17	New markers to identify the provenance of lapis lazuli: trace elements in pyrite by means of micro-PIXE. Applied Physics A: Materials Science and Processing, 2013, 111, 69-74.	2.3	28
18	Ants as bioaccumulators of metals from soils: Body content and tissue-specific distribution of metals in the ant Crematogaster scutellaris. European Journal of Soil Biology, 2013, 58, 24-31.	3.2	26

#	ARTICLE	IF	CITATIONS
19	Complex refractive index variation in proton-damaged diamond. <i>Optics Express</i> , 2012, 20, 19382.	3.4	23
20	In-air broad beam ionoluminescence microscopy as a tool for rocks and stone artworks characterisation. <i>Analytical and Bioanalytical Chemistry</i> , 2012, 404, 277-281.	3.7	16
21	Lapis lazuli provenance study by means of micro-PIXE. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2011, 269, 2373-2377.	1.4	38
22	Analysis of metal deposit distribution in ants (<i>Crematogaster scutellaris</i>) at the Florence external scanning microbeam. <i>X-Ray Spectrometry</i> , 2011, 40, 186-190.	1.4	8
23	Finite element analysis of ion-implanted diamond surface swelling. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2010, 268, 2991-2995.	1.4	32
24	Luminescence centers in proton irradiated single crystal CVD diamond. <i>Diamond and Related Materials</i> , 2010, 19, 854-860.	3.9	18
25	Controlled variation of the refractive index in ion-damaged diamond. <i>Diamond and Related Materials</i> , 2010, 19, 428-431.	3.9	28
26	Evidence of Light Guiding in Ion-Implanted Diamond. <i>Physical Review Letters</i> , 2010, 105, 233903.	7.8	49
27	Multitechnique characterization of lapis lazuli for provenance study. <i>Analytical and Bioanalytical Chemistry</i> , 2009, 395, 2211-2217.	3.7	42
28	IBIC analysis of CdTe/CdS solar cells. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2009, 267, 2181-2184.	1.4	19
29	The ionoluminescence apparatus at the LABEC external microbeam facility. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2008, 266, 2306-2310.	1.4	30
30	Micro-PIXE determination of Zr in rutile: an application to geothermometry of high- P rocks from the western Alps (Italy). <i>X-Ray Spectrometry</i> , 2008, 37, 146-150.	1.4	5
31	Recent developments of ion beam induced luminescence at the external scanning microbeam facility of the LABEC laboratory in Florence. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2008, 266, 1527-1532.	1.4	24
32	External micro-PIXE analysis of fluid inclusions: Test of the LABEC facility on samples of quartz veins from Apuan Alps (Italy). <i>Nuclear Instruments & Methods in Physics Research B</i> , 2008, 266, 2371-2374.	1.4	2
33	Analysis of ancient embroideries by IBA techniques. <i>Surface Engineering</i> , 2008, 24, 98-102.	2.2	1
34	Advantages of scanning-mode ion beam analysis for the study of Cultural Heritage. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2007, 256, 712-718.	1.4	38
35	The external scanning proton microprobe of Firenze: A comprehensive description. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2007, 576, 266-273.	1.6	61
36	Yttrium Geothermometry Applied to Garnets from Different Metamorphic Grades Analysed by EPMA and μ -PIXE Techniques. <i>Mikrochimica Acta</i> , 2006, 155, 105-112.	5.0	3

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37	External Micro-PIXE Measurements: Preliminary Results on Volcanic Rocks from Nyiragongo Volcano. <i>Mikrochimica Acta</i> , 2006, 155, 263-267.	5.0	2
38	Micro-PIXE Analysis of Monazite from the Dora Maira Massif, Western Italian Alps. <i>Mikrochimica Acta</i> , 2006, 155, 305-311.	5.0	21
39	Combined micro-PIXE facility and monochromatic cathodoluminescence spectroscopy applied to colored minerals of natural stones: an example from amazonite. <i>X-Ray Spectrometry</i> , 2005, 34, 345-349.	1.4	12
40	Finite-size effects on the static properties of a single-chain magnet. <i>Physical Review B</i> , 2005, 72, .	3.2	74
41	Characterisation of early medieval frescoes by ^{14}C -PIXE, SEM and Raman spectroscopy. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2004, 219-220, 20-25.	1.4	19
42	Use of micro-PIXE analysis for the identification of contaminants in the metal deposition on a CMS pitch adapter. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2004, 219-220, 722-726.	1.4	3
43	Chemical Investigation of Coloured Minerals in Natural Stones of Commercial Interest. <i>Mikrochimica Acta</i> , 2004, 145, 249-254.	5.0	7
44	Finite-Size Effects in Single Chain Magnets: An Experimental and Theoretical Study. <i>Physical Review Letters</i> , 2004, 92, 207204.	7.8	131
45	The external beam microprobe facility in Florence: Set-up and performance. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2002, 190, 276-282.	1.4	32