Mirko Massi

List of Publications by Year
in descending order

45 papers	1,056 citations	361413 20 h-index	414414 32 g-index
45 all docs	45 docs citations	45 times ranked	1007 citing authors

#	Article	IF	Citations
1	Finite-Size Effects in Single Chain Magnets: An Experimental and Theoretical Study. Physical Review Letters, 2004, 92, 207204.	7.8	131
2	Finite-size effects on the static properties of a single-chain magnet. Physical Review B, 2005, 72, .	3.2	74
3	The external scanning proton microprobe of Firenze: A comprehensive description. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2007, 576, 266-273.	1.6	61
4	Imaging study of Raffaello's â€œLa Mutaâ€•by a portable XRF spectrometer. Microchemical Journal, 2016, 126, 63-69.	4.5	51
5	Evidence of Light Guiding in Ion-Implanted Diamond. Physical Review Letters, 2010, 105, 233903.	7.8	49
6	Multitechnique characterization of lapis lazuli for provenance study. Analytical and Bioanalytical Chemistry, 2009, 395, 2211-2217.	3.7	42
7	Advantages of scanning-mode ion beam analysis for the study of Cultural Heritage. Nuclear Instruments & Methods in Physics Research B, 2007, 256, 712-718.	1.4	38
8	Lapis lazuli provenance study by means of micro-PIXE. Nuclear Instruments & Methods in Physics Research B, 2011, 269, 2373-2377.	1.4	38
9	The external beam microprobe facility in Florence: Set-up and performance. Nuclear Instruments & Methods in Physics Research B, 2002, 190, 276-282.	1.4	32
10	Finite element analysis of ion-implanted diamond surface swelling. Nuclear Instruments & Methods in Physics Research B, 2010, 268, 2991-2995.	1.4	32
11	Robust luminescence of the silicon-vacancy center in diamond at high temperatures. AIP Advances, 2015, 5, .	1.3	31
12	The ionoluminescence apparatus at the LABEC external microbeam facility. Nuclear Instruments & Methods in Physics Research B, 2008, 266, 2306-2310.	1.4	30
13	Controlled variation of the refractive index in ion-damaged diamond. Diamond and Related Materials, 2010, 19, 428-431.	3.9	28
14	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
15	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
16	Detectors and Cultural Heritage: The INFN-CHNet Experience. Applied Sciences (Switzerland), 2021, 11, 3462.	2.5	26
17	Recent developments of ion beam induced luminescence at the external scanning microbeam facility of the LABEC laboratory in Florence. Nuclear Instruments & Methods in Physics Research B, 2008, 266, 1527-1532.	1.4	24
18	Complex refractive index variation in proton-damaged diamond. Optics Express, 2012, 20, 19382.	3.4	23

#	Article	IF	Citations
19	Ion Beam Analysis for the provenance attribution of lapis lazuli used in glyptic art: The case of the â€œCollezione Mediceaâ€• Nuclear Instruments & Methods in Physics Research B, 2015, 348, 278-284.	1.4	23
20	Micro-PIXE Analysis of Monazite from the Dora Maira Massif, Western Italian Alps. Mikrochimica Acta, 2006, 155, 305-311.	5.0	21
21	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
22	Creation of Silicon-Vacancy Color Centers in Diamond by Ion Implantation. Frontiers in Physics, 2021, 8, .	2.1	20
23	Characterisation of early medieval frescoes by Î¼-PIXE, SEM and Raman spectroscopy. Nuclear Instruments & Methods in Physics Research B, 2004, 219-220, 20-25.	1.4	19
24	IBIC analysis of CdTe/CdS solar cells. Nuclear Instruments & Methods in Physics Research B, 2009, 267, 2181-2184.	1.4	19
25	LABEC, the INFN ion beam laboratory of nuclear techniques for environment and cultural heritage. European Physical Journal Plus, 2021, 136, 472.	2.6	19
26	Luminescence centers in proton irradiated single crystal CVD diamond. Diamond and Related Materials, 2010, 19, 854-860.	3.9	18
27	In-air broad beam ionoluminescence microscopy as a tool for rocks and stone artworks characterisation. Analytical and Bioanalytical Chemistry, 2012, 404, 277-281.	3.7	16
28	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
29	The Importance of Being Versatile: INFN-CHNet MA-XRF Scanner on Furniture at the CCR â€œLa Venaria Realeâ€• Applied Sciences (Switzerland), 2021, 11, 1197.	2.5	13
30	Combined micro-PIXE facility and monochromatic cathodoluminescence spectroscopy applied to colored minerals of natural stones: an example from amazonite. X-Ray Spectrometry, 2005, 34, 345-349.	1.4	12
31	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
32	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
33	The Role of PIXE and XRF in Heritage Science: The INFN-CHNet LABEC Experience. Applied Sciences (Switzerland), 2022, 12, 6585.	2.5	9
34	Analysis of metal deposit distribution in ants (Crematogaster scutellaris) at the Florence external scanning microbeam. X-Ray Spectrometry, 2011, 40, 186-190.	1.4	8
35	Chemical Investigation of Coloured Minerals in Natural Stones of Commercial Interest. Mikrochimica Acta, 2004, 145, 249-254.	5.0	7
36	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

#	Article	IF	Citations
37	Microâ€PIXE determination of Zr in rutile: an application to geothermometry of highâ€P rocks from the western Alps (Italy). X-Ray Spectrometry, 2008, 37, 146-150.	1.4	5
38	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
39	Use of micro-PIXE analysis for the identification of contaminants in the metal deposition on a CMS pitch adapter. Nuclear Instruments & Methods in Physics Research B, 2004, 219-220, 722-726.	1.4	3
40	Yttrium Geothermometry Applied to Garnets from Different Metamorphic Grades Analysed by EPMA and Âµ-PIXE Techniques. Mikrochimica Acta, 2006, 155, 105-112.	5.0	3
41	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
42	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
43	External Micro-PIXE Measurements: Preliminary Results on Volcanic Rocks from Nyiragongo Volcano. Mikrochimica Acta, 2006, 155, 263-267.	5.0	2
44	External micro-PIXE analysis of fluid inclusions: Test of the LABEC facility on samples of quartz veins from Apuan Alps (Italy). Nuclear Instruments & Methods in Physics Research B, 2008, 266, 2371-2374.	1.4	2
45	Analysis of ancient embroideries by IBA techniques. Surface Engineering, 2008, 24, 98-102.	2.2	1