

Michele Nacucchi

List of Publications by Year in descending order

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Version: 2024-02-01

30
papers

452
citations

623734

14
h-index

713466

21
g-index

30
all docs

30
docs citations

30
times ranked

558
citing authors

#	ARTICLE	IF	CITATIONS
1	The Determination of the Efficiency of Energy Dispersive X-Ray Spectrometers by a New Reference Material. <i>Microscopy and Microanalysis</i> , 2006, 12, 406-415.	0.4	46
2	Compression of polystyrene and polypropylene foams for energy absorption applications: A combined mechanical and microstructural study. <i>Journal of Cellular Plastics</i> , 2019, 55, 49-72.	2.4	40
3	High resolution X-ray computed tomography: A versatile non-destructive tool to characterize CFRP-based aircraft composite elements. <i>Composites Science and Technology</i> , 2020, 192, 108093.	7.8	35
4	Uniformly dispersed Pr+3 doped silica glass by the sol-gel process. <i>Journal of Non-Crystalline Solids</i> , 1996, 201, 153-158.	3.1	31
5	Resolution of superlattice structures with backscattered electrons in a scanning electron microscope. <i>Ultramicroscopy</i> , 1993, 50, 83-93.	1.9	26
6	MicroCT X-ray comparison of aligner gap and thickness of six brands of aligners: an in-vitro study. <i>Progress in Orthodontics</i> , 2020, 21, 12.	3.5	26
7	On the resolution of semiconductor multilayers with a scanning electron microscope. <i>Ultramicroscopy</i> , 1995, 60, 229-239.	1.9	25
8	On the degradation mechanisms of Mg hydride pellets for hydrogen storage in tanks. <i>International Journal of Hydrogen Energy</i> , 2016, 41, 9834-9840.	7.1	24
9	Effect of cobalt and silver nanoparticles and ions on <i>Lumbricus rubellus</i> health and on microbial community of earthworm faeces and soil. <i>Applied Soil Ecology</i> , 2016, 108, 62-71.	4.3	22
10	Correlation between elastic properties and morphology in short fiber composites by X-ray computed micro-tomography. <i>Composites Part A: Applied Science and Manufacturing</i> , 2021, 140, 106169.	7.6	22
11	Water absorption in rubber-cement composites: 3D structure investigation by X-ray computed-tomography. <i>Construction and Building Materials</i> , 2019, 228, 116602.	7.2	19
12	Comparison of spatial resolutions obtained with different signal components in scanning electron microscopy. <i>Ultramicroscopy</i> , 1996, 65, 23-30.	1.9	18
13	Scanning Small- and Wide-Angle X-ray Scattering Microscopy Selectively Probes HA Content in Gelatin/Hydroxyapatite Scaffolds for Osteochondral Defect Repair. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 8728-8736.	8.0	18
14	Micro-computed tomography evaluation of general trends in aligner thickness and gap width after thermoforming procedures involving six commercial clear aligners: An <i>in vitro</i> study. <i>Korean Journal of Orthodontics</i> , 2021, 51, 135-141.	2.3	16
15	Structural analysis of advanced polymeric foams by means of high resolution X-ray computed tomography. <i>AIP Conference Proceedings</i> , 2016, , .	0.4	13
16	Relationship between the anisotropy tensor calculated through global and object measurements in high-resolution X-ray tomography on cellular and composite materials. <i>Journal of Microscopy</i> , 2019, 273, 65-80.	1.8	12
17	Active Polymer Nanocomposites: Application in Thermoplastic Polymers and in Polymer Foams. <i>IEEE Nanotechnology Magazine</i> , 2016, 15, 896-903.	2.0	10
18	Quantitative characterisation of low-density, high performance polymeric foams using high resolution X-ray computed tomography and laser confocal microscopy. <i>NDT and E International</i> , 2016, 83, 123-133.	3.7	10

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19	Structure refinement of Ba-based infinite-layer superlattices. <i>Physical Review B</i> , 1999, 59, 14074-14079.	3.2	9
20	Inspection of Carbon Fibre Reinforced Polymers: 3D identification and quantification of components by X-ray CT. <i>Applied Composite Materials</i> , 2022, 29, 497-513.	2.5	6
21	Quantitative EDS analysis in transmission electron microscopy using unconventional reference materials. <i>IOP Conference Series: Materials Science and Engineering</i> , 2010, 7, 012020.	0.6	5
22	An image-based approach for structure investigation and 3D numerical modelling of polymeric foams. <i>Journal of Polymer Research</i> , 2021, 28, 1.	2.4	5
23	Theoretical simulation of backscattered electron images of Si/SixGe1-x structures with a scanning electron microscope. <i>Mikrochimica Acta</i> , 1994, 114-115, 261-266.	5.0	4
24	Volume orientation: a practical solution to analyse the orientation of fibres in composite materials. <i>Journal of Microscopy</i> , 2019, 276, 27-38.	1.8	4
25	Resolution of Semiconductor Multilayers using Backscattered Electrons in Scanning Electron Microscopy. <i>Microscopy Microanalysis Microstructures</i> , 1995, 6, 499-504.	0.4	3
26	Experimental check of the use of unconventional reference materials for EDS analysis in a TEM by extrapolation method based on pure elements. <i>IOP Conference Series: Materials Science and Engineering</i> , 2012, 32, 012017.	0.6	2
27	Chemical composition of InxGa1-xAs epilayers grown simultaneously on differently oriented GaAs substrates. <i>Journal of Crystal Growth</i> , 2001, 223, 494-502.	1.5	1
28	Observation of Semiconductor Superstructures With Backscattered Electrons in a Scanning Electron Microscope. <i>Materials Research Society Symposia Proceedings</i> , 1994, 354, 443.	0.1	0
29	New approach in Auger elemental relative sensitive factor calculation by using TEM-EDS analysis based on bi-layers of pure elements. <i>Ultramicroscopy</i> , 2018, 193, 143-150.	1.9	0
30	Stereological analysis of short basalt fiber composites. <i>AIP Conference Proceedings</i> , 2019, , .	0.4	0