

# Sandro Donato

## List of Publications by Year in descending order

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Version: 2024-02-01

45  
papers

658  
citations

623574

14  
h-index

610775

24  
g-index

46  
all docs

46  
docs citations

46  
times ranked

829  
citing authors

#	ARTICLE	IF	CITATIONS
1	Magnetic reconnection as an element of turbulence. <i>Nonlinear Processes in Geophysics</i> , 2011, 18, 675-695.	0.6	96
2	Advancements towards the implementation of clinical phase-contrast breast computed tomography at Elettra. <i>Journal of Synchrotron Radiation</i> , 2019, 26, 1343-1353.	1.0	47
3	Phase-contrast breast CT: the effect of propagation distance. <i>Physics in Medicine and Biology</i> , 2018, 63, 24NT03.	1.6	42
4	Reconnection events in two-dimensional Hall magnetohydrodynamic turbulence. <i>Physics of Plasmas</i> , 2012, 19, .	0.7	35
5	Large-area single-photon-counting CdTe detector for synchrotron radiation computed tomography: a dedicated pre-processing procedure. <i>Journal of Synchrotron Radiation</i> , 2018, 25, 1068-1077.	1.0	33
6	Quantitative characterization of breast tissues with dedicated CT imaging. <i>Physics in Medicine and Biology</i> , 2019, 64, 155011.	1.6	30
7	Nanostructures to Engineer 3D Neural Interfaces: Directing Axonal Navigation toward Successful Bridging of Spinal Segments. <i>Advanced Functional Materials</i> , 2018, 28, 1700550.	7.8	26
8	Observations of Langmuir ponderomotive effects using the Solar Terrestrial Relations Observatory spacecraft as a density probe. <i>Physics of Plasmas</i> , 2011, 18, 082308.	0.7	25
9	Image quality comparison between a phase-contrast synchrotron radiation breast CT and a clinical breast CT: a phantom based study. <i>Scientific Reports</i> , 2019, 9, 17778.	1.6	24
10	Optimization of the equalization procedure for a single-photon counting CdTe detector used for CT. <i>Journal of Instrumentation</i> , 2017, 12, C11014-C11014.	0.5	23
11	Monochromatic breast computed tomography with synchrotron radiation: phase-contrast and phase-retrieved image comparison and full-volume reconstruction. <i>Journal of Medical Imaging</i> , 2018, 6, 1.	0.8	23
12	Synthesis and Characterization of High-Performing Sulfur-Free Tannin Foams. <i>Polymers</i> , 2020, 12, 564.	2.0	21
13	First 3D imaging characterization of Pele's hair from Kilauea volcano (Hawaii). <i>Scientific Reports</i> , 2019, 9, 1711.	1.6	18
14	Analysis of Intracellular Magnesium and Mineral Depositions during Osteogenic Commitment of 3D Cultured Saos2 Cells. <i>International Journal of Molecular Sciences</i> , 2020, 21, 2368.	1.8	16
15	Green, grey and black: A comparative study of Sierra de las Navajas (Mexico) and Lipari (Italy) obsidians. <i>Quaternary International</i> , 2018, 467, 369-390.	0.7	13
16	Experimental optimization of the energy for breast-CT with synchrotron radiation. <i>Scientific Reports</i> , 2020, 10, 17430.	1.6	13
17	Synchrotron X-ray phase contrast micro tomography to explore the morphology of abdominal organs in <i>Pterostichus melas italicus</i> Dejean, 1828 (Coleoptera, Carabidae). <i>Arthropod Structure and Development</i> , 2021, 62, 101044.	0.8	13
18	THE NONLINEAR AND NONLOCAL LINK BETWEEN MACROSCOPIC ALFVÉN AND MICROSCOPIC ELECTROSTATIC SCALES IN THE SOLAR WIND. <i>Astrophysical Journal Letters</i> , 2014, 788, L16.	3.0	12

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19	Microtomographic studies as a tool in the identification of a new ceramic class: The metal-imitating pottery as grave goods among Brettians and Lucanians. <i>Microchemical Journal</i> , 2016, 126, 138-148.	2.3	12
20	A proposal for a quality control protocol in breast CT with synchrotron radiation. <i>Radiology and Oncology</i> , 2018, 52, 329-336.	0.6	12
21	How to identify reconnecting current sheets in incompressible Hall MHD turbulence. <i>Journal of Geophysical Research: Space Physics</i> , 2013, 118, 4033-4038.	0.8	11
22	X-ray computed microtomography of Late Copper Age decorated bowls with cross-shaped foots from central Slovenia and the Trieste Karst (North-Eastern Italy): technology and paste characterisation. <i>Archaeological and Anthropological Sciences</i> , 2019, 11, 4711-4728.	0.7	11
23	Optimization of pixel size and propagation distance in X-ray phase-contrast virtual histology. <i>Journal of Instrumentation</i> , 2022, 17, C05021.	0.5	10
24	Phase-Contrast Breast-CT: Optimization of Experimental Parameters and Reconstruction Algorithms. <i>IFMBE Proceedings</i> , 2019, , 109-115.	0.2	8
25	Motion artifacts assessment and correction using optical tracking in synchrotron radiation breast CT. <i>Medical Physics</i> , 2021, 48, 5343-5355.	1.6	8
26	Post-reconstruction 3D single-distance phase retrieval for multi-stage phase-contrast tomography with photon-counting detectors. <i>Journal of Synchrotron Radiation</i> , 2019, 26, 510-516.	1.0	8
27	The Skaros effusive sequence at Santorini (Greece): Petrological and geochemical constraints on an interplinian cycle. <i>Lithos</i> , 2020, 362-363, 105504.	0.6	7
28	Study of the Spatio-Chemical Heterogeneity of Tannin-Furanic Foams: From 1D FTIR Spectroscopy to 3D FTIR Micro-Computed Tomography. <i>International Journal of Molecular Sciences</i> , 2021, 22, 12869.	1.8	7
29	Meniscal Ossicles as micro-CT Imaging Biomarker in a Rodent Model of Antigen-Induced Arthritis: a Synchrotron-Based X-ray Pilot Study. <i>Scientific Reports</i> , 2017, 7, 7544.	1.6	6
30	Combining chemical and X-Ray microtomography investigations on crustal xenoliths at Mount Etna: evidence of volcanic gas fluxing. <i>Annals of Geophysics</i> , 2018, 61, .	0.5	6
31	Electrostatic fluctuations in the solar wind: An evidence of the link between Alfvénic and electrostatic scales. <i>Journal of Geophysical Research: Space Physics</i> , 2014, 119, 7012-7024.	0.8	5
32	Radiochromic film dosimetry in synchrotron radiation breast computed tomography: a phantom study. <i>Journal of Synchrotron Radiation</i> , 2020, 27, 762-771.	1.0	5
33	Influence of Chemical Composition and Microvesiculation on the Chromatic Features of the Obsidian of Sierra de las Navajas (Hidalgo, Mexico). <i>Minerals (Basel, Switzerland)</i> , 2022, 12, 177.	0.8	5
34	Optimization of a customized simultaneous algebraic reconstruction technique algorithm for phase-contrast breast computed tomography. <i>Physics in Medicine and Biology</i> , 2022, 67, 095012.	1.6	5
35	Virtual sections and 3D reconstructions of female reproductive system in a carabid beetle using synchrotron X-ray phase-contrast microtomography. <i>Zoologischer Anzeiger</i> , 2022, 298, 123-130.	0.4	4
36	MAGNETIC FIELD REVERSALS OF THE EARTH: A TWO-DISK RIKITAKE DYNAMO MODEL. <i>International Journal of Modern Physics B</i> , 2009, 23, 5492-5503.	1.0	3

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37	Optimization of a customized Simultaneous Algebraic Reconstruction Technique algorithm for breast CT. , 2019, , .		3
38	Exploring Compound Eyes in Adults of Four Coleopteran Species Using Synchrotron X-ray Phase-Contrast Microtomography (SR-PhC Micro-CT). Life, 2022, 12, 741.	1.1	3
39	Flattening filter for Gaussian-shaped monochromatic X-ray beams: an application to breast computed tomography. Journal of Synchrotron Radiation, 2020, 27, 503-506.	1.0	2
40	Monochromatic breast CT: absorption and phase-retrieved images. , 2018, , .		2
41	Lesion visibility in phase-contrast breast CT: comparison with histological images. , 2020, , .		2
42	PERCIVAL: possible applications in X-ray micro-tomography. Journal of Instrumentation, 2020, 15, C02007-C02007.	0.5	1
43	Overview on numerical studies of reconnection and dissipation in the solar wind. , 2013, , .		0
44	A novel approach to separate absorption, refraction and scattering in analyzer based lung imaging. Journal of Instrumentation, 2020, 15, C05069-C05069.	0.5	0
45	On the origin of surface and interface defects associated with the growth of Al-coated thermoplastic heterostacks. Surface and Interface Analysis, 2021, 53, 350-358.	0.8	0