

Mauro Prasciolu

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/7226346/publications.pdf>

Version: 2024-02-01

34
papers

738
citations

471509

17
h-index

526287

27
g-index

34
all docs

34
docs citations

34
times ranked

858
citing authors

#	ARTICLE	IF	CITATIONS
1	X-ray focusing with efficient high-NA multilayer Laue lenses. <i>Light: Science and Applications</i> , 2018, 7, 17162-17162.	16.6	114
2	High numerical aperture multilayer Laue lenses. <i>Scientific Reports</i> , 2015, 5, 9892.	3.3	89
3	Covalent Assembly and Micropatterning of Functionalized Multiwalled Carbon Nanotubes to Monolayer-Modified Si(111) Surfaces. <i>Langmuir</i> , 2008, 24, 6595-6602.	3.5	54
4	Two-dimensional disorder for broadband, omnidirectional and polarization-insensitive absorption. <i>Optics Express</i> , 2013, 21, A268.	3.4	53
5	An in Situ Synchrotron-Based Soft X-ray Microscopy Investigation of Ni Electrodeposition in a Thin-Layer Cell. <i>Journal of Physical Chemistry C</i> , 2009, 113, 9783-9787.	3.1	38
6	In situ soft X-ray dynamic microscopy of electrochemical processes. <i>Electrochemistry Communications</i> , 2008, 10, 1680-1683.	4.7	34
7	Design, fabrication and evaluation of nanoscale surface topography as a tool in directing differentiation and organisation of embryonic stem-cell-derived neural precursors. <i>Microelectronic Engineering</i> , 2009, 86, 1435-1438.	2.4	28
8	Metallic Plate Corrosion and Uptake of Corrosion Products by Nafion in Polymer Electrolyte Membrane Fuel Cells. <i>ChemSusChem</i> , 2010, 3, 846-850.	6.8	27
9	Thermal stability studies of short period Sc/Cr and Sc/B ₄ C/Cr multilayers. <i>Applied Optics</i> , 2014, 53, 2126.	1.8	27
10	In-situ photoelectron microspectroscopy during the operation of a single-chamber SOFC. <i>Electrochemistry Communications</i> , 2012, 24, 104-107.	4.7	25
11	Multilayer Laue lenses at high X-ray energies: performance and applications. <i>Optics Express</i> , 2019, 27, 7120.	3.4	25
12	Fabrication and Testing of l = 2 Optical Vortex phase masks for Coronagraphy. <i>Optics Express</i> , 2010, 18, 2339.	3.4	23
13	Electrodeposition of manganese oxide from eutectic urea/choline chloride ionic liquid: An in situ study based on soft X-ray spectromicroscopy and visible reflectivity. <i>Journal of Power Sources</i> , 2012, 211, 71-76.	7.8	23
14	Interferential lithography of 1D thin metallic sinusoidal gratings: Accurate control of the profile for azimuthal angular dependent plasmonic effects and applications. <i>Microelectronic Engineering</i> , 2009, 86, 573-576.	2.4	21
15	Corrosion of Ni in 1-butyl-1-methyl-pyrrolidinium bis (trifluoromethylsulfonyl) amide room-temperature ionic liquid: an in situ X-ray imaging and spectromicroscopy study. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 7968.	2.8	19
16	In situ X-ray Spectromicroscopy Investigation of the Material Stability of SOFC Metal Interconnects in Operating Electrochemical Cells. <i>ChemSusChem</i> , 2011, 4, 1099-1103.	6.8	19
17	Development of electrochemical biosensors by e-beam lithography for medical diagnostics. <i>Microelectronic Engineering</i> , 2013, 111, 320-324.	2.4	18
18	In situ X-ray spectromicroscopy study of bipolar plate material stability for nano-fuel-cells with ionic-liquid electrolyte. <i>Microelectronic Engineering</i> , 2011, 88, 2456-2458.	2.4	14

#	ARTICLE	IF	CITATIONS
19	In Situ Electrochemical X-ray Spectromicroscopy Investigation of the Reduction/Reoxidation Dynamics of Ni ⁶⁺ /Cu Solid Oxide Fuel Cell Anodic Material in Contact with a Cr Interconnect in 2 Å–10 ⁶ mbar O ₂ . Journal of Physical Chemistry C, 2012, 116, 7243-7248.	3.1	13
20	Microscale Evolution of Surface Chemistry and Morphology of the Key Components in Operating Hydrocarbon-Fuelled SOFCs. Journal of Physical Chemistry C, 2012, 116, 23188-23193.	3.1	12
21	Analysis of X-ray multilayer Laue lenses made by masked deposition. Optics Express, 2021, 29, 3097.	3.4	11
22	Ptychographic X-ray speckle tracking with multi-layer Laue lens systems. Journal of Applied Crystallography, 2020, 53, 927-936.	4.5	11
23	Extended asymmetric-cut multilayer X-ray gratings. Optics Express, 2015, 23, 15195.	3.4	10
24	On the Properties of WC/SiC Multilayers. Applied Sciences (Switzerland), 2018, 8, 571.	2.5	9
25	Experimental setup for lensless imaging via soft x-ray resonant scattering. Review of Scientific Instruments, 2007, 78, 043702.	1.3	6
26	Microfabrication of sharp blazed gratings by a two-step height amplification process based on soft and deep X-ray lithography. Sensors and Actuators A: Physical, 2014, 205, 111-118.	4.1	6
27	One dimensional focusing with high numerical aperture multilayer Laue lens. AIP Conference Proceedings, 2016, , .	0.4	4
28	Characterizing the focus of a multilayer coated off-axis parabola for FLASH beam at λ = 4.3 nm. Proceedings of SPIE, 2013, , .	0.8	3
29	<title>Wave front engineering by means of diffractive optical elements for applications in microscopy</title>. , 2006, , .		1
30	<i>Precise wavefront characterization of x-ray optical elements using a laboratory source. Review of Scientific Instruments, 2022, 93, 073704.</i>	1.3	1
31	<title>Design and implementation of optical tweezer arrays using diffractive optical elements</title>. , 2004, , .		0
32	Fiber optic trapping of low-refractive-index particles. , 2006, , .		0
33	Diffraction gratings based on asymmetric-cut multilayers. Proceedings of SPIE, 2015, , .	0.8	0
34	Characterization of High Numerical Aperture Multilayer Laue Lenses. Microscopy and Microanalysis, 2018, 24, 282-283.	0.4	0