

# Mauro Prasciolu

## List of Publications by Year in descending order

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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  | Precise wavefront characterization of x-ray optical elements using a laboratory source. Review of Scientific Instruments, 2022, 93, 073704.   | 1.3  | 1         |
| 2  | Analysis of X-ray multilayer Laue lenses made by masked deposition. Optics Express, 2021, 29, 3097.   | 3.4  | 11        |
| 3  | Ptychographic X-ray speckle tracking with multi-layer Laue lens systems. Journal of Applied Crystallography, 2020, 53, 927-936.   | 4.5  | 11        |
| 4  | Multilayer Laue lenses at high X-ray energies: performance and applications. Optics Express, 2019, 27, 7120.  | 3.4  | 25        |
| 5  | On the Properties of WC/SiC Multilayers. Applied Sciences (Switzerland), 2018, 8, 571.  | 2.5  | 9         |
| 6  | X-ray focusing with efficient high-NA multilayer Laue lenses. Light: Science and Applications, 2018, 7, 17162-17162.  | 16.6 | 114       |
| 7  | Characterization of High Numerical Aperture Multilayer Laue Lenses. Microscopy and Microanalysis, 2018, 24, 282-283.  | 0.4  | 0         |
| 8  | One dimensional focusing with high numerical aperture multilayer Laue lens. AIP Conference Proceedings, 2016, , .   | 0.4  | 4         |
| 9  | Diffraction gratings based on asymmetric-cut multilayers. Proceedings of SPIE, 2015, , .  | 0.8  | 0         |
| 10 | High numerical aperture multilayer Laue lenses. Scientific Reports, 2015, 5, 9892.  | 3.3  | 89        |
| 11 | Extended asymmetric-cut multilayer X-ray gratings. Optics Express, 2015, 23, 15195.   | 3.4  | 10        |
| 12 | Thermal stability studies of short period Sc/Cr and Sc/B <sub>4</sub> C/Cr multilayers. Applied Optics, 2014, 53, 2126.   | 1.8  | 27        |
| 13 | 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         |
| 14 | Development of electrochemical biosensors by e-beam lithography for medical diagnostics. Microelectronic Engineering, 2013, 111, 320-324.   | 2.4  | 18        |
| 15 | Characterizing the focus of a multilayer coated off-axis parabola for FLASH beam at $\lambda = 4.3$ nm. Proceedings of SPIE, 2013, , .  | 0.8  | 3         |
| 16 | Two-dimensional disorder for broadband, omnidirectional and polarization-insensitive absorption. Optics Express, 2013, 21, A268.  | 3.4  | 53        |
| 17 | In-situ photoelectron microspectroscopy during the operation of a single-chamber SOFC. Electrochemistry Communications, 2012, 24, 104-107.  | 4.7  | 25        |
| 18 | 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        |

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 19 | In Situ Electrochemical X-ray Spectromicroscopy Investigation of the Reduction/Reoxidation Dynamics of Ni <sub>2</sub> Cu Solid Oxide Fuel Cell Anodic Material in Contact with a Cr Interconnect in 2 × 10 <sup>-6</sup> mbar O <sub>2</sub> . Journal of Physical Chemistry C, 2012, 116, 7243-7248. | 3.1 | 13        |
| 20 | Electrodeposition of manganese oxide from eutectic urea/choline chloride ionic liquid: An in situ study based on soft X-ray spectromicroscopy and visible reflectivity. Journal of Power Sources, 2012, 211, 71-76.  | 7.8 | 23        |
| 21 | 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. Physical Chemistry Chemical Physics, 2011, 13, 7968.  | 2.8 | 19        |
| 22 | In Situ X-ray Spectromicroscopy Investigation of the Material Stability of SOFC Metal Interconnects in Operating Electrochemical Cells. ChemSusChem, 2011, 4, 1099-1103.   | 6.8 | 19        |
| 23 | In situ X-ray spectromicroscopy study of bipolar plate material stability for nano-fuel-cells with ionic-liquid electrolyte. Microelectronic Engineering, 2011, 88, 2456-2458.   | 2.4 | 14        |
| 24 | Metallic Plate Corrosion and Uptake of Corrosion Products by Nafion in Polymer Electrolyte Membrane Fuel Cells. ChemSusChem, 2010, 3, 846-850.   | 6.8 | 27        |
| 25 | Fabrication and Testing of l = 2 Optical Vortex phase masks for Coronagraphy. Optics Express, 2010, 18, 2339.  | 3.4 | 23        |
| 26 | Interferential lithography of 1D thin metallic sinusoidal gratings: Accurate control of the profile for azimuthal angular dependent plasmonic effects and applications. Microelectronic Engineering, 2009, 86, 573-576.  | 2.4 | 21        |
| 27 | Design, fabrication and evaluation of nanoscale surface topography as a tool in directing differentiation and organisation of embryonic stem-cell-derived neural precursors. Microelectronic Engineering, 2009, 86, 1435-1438.   | 2.4 | 28        |
| 28 | An in Situ Synchrotron-Based Soft X-ray Microscopy Investigation of Ni Electrodeposition in a Thin-Layer Cell. Journal of Physical Chemistry C, 2009, 113, 9783-9787.  | 3.1 | 38        |
| 29 | In situ soft X-ray dynamic microscopy of electrochemical processes. Electrochemistry Communications, 2008, 10, 1680-1683.  | 4.7 | 34        |
| 30 | Covalent Assembly and Micropatterning of Functionalized Multiwalled Carbon Nanotubes to Monolayer-Modified Si(111) Surfaces. Langmuir, 2008, 24, 6595-6602.  | 3.5 | 54        |
| 31 | Experimental setup for lensless imaging via soft x-ray resonant scattering. Review of Scientific Instruments, 2007, 78, 043702.  | 1.3 | 6         |
| 32 | <title>Wave front engineering by means of diffractive optical elements for applications in microscopy</title>. , 2006, , .   |     | 1         |
| 33 | Fiber optic trapping of low-refractive-index particles. , 2006, , .  |     | 0         |
| 34 | <title>Design and implementation of optical tweezer arrays using diffractive optical elements</title>. , 2004, , .   |     | 0         |