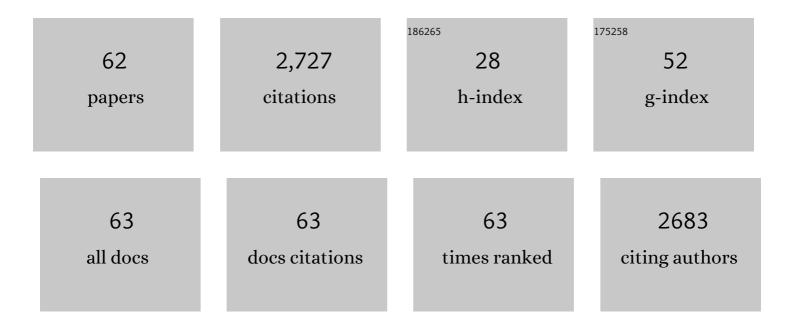
Joan Vila-Comamala

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/3134372/publications.pdf Version: 2024-02-01



| # | Article | IF | CITATIONS |
|----|---|------|-----------|
| 1 | An achromatic X-ray lens. Nature Communications, 2022, 13, 1305. | 12.8 | 19 |
| 2 | Fabrication of X-ray Gratings for Interferometric Imaging by Conformal Seedless Gold Electroplating. Micromachines, 2021, 12, 517. | 2.9 | 14 |
| 3 | Laboratory X-ray interferometry imaging with a fan-shaped source grating. Optics Letters, 2021, 46, 3693. | 3.3 | 9 |
| 4 | High sensitivity X-ray phase contrast imaging by laboratory grating-based interferometry at high Talbot order geometry. Optics Express, 2021, 29, 2049. | 3.4 | 35 |
| 5 | Generation of highly mutually coherent hard-x-ray pulse pairs with an amplitude-splitting delay line. Physical Review Research, 2021, 3, . | 3.6 | 7 |
| 6 | Highâ€Aspectâ€Ratio Grating Microfabrication by Platinumâ€Assisted Chemical Etching and Gold Electroplating. Advanced Engineering Materials, 2020, 22, 2000258. | 3.5 | 32 |
| 7 | Metal assisted chemical etching of silicon in the gas phase: a nanofabrication platform for X-ray optics. Nanoscale Horizons, 2020, 5, 869-879. | 8.0 | 50 |
| 8 | Pushing the Limits of Bottom-Up Gold Filling for X-ray Grating Interferometry. Journal of the Electrochemical Society, 2020, 167, 132504. | 2.9 | 20 |
| 9 | X-ray phase tomography with near-field speckles for three-dimensional virtual histology. Optica, 2020, 7, 1221. | 9.3 | 37 |
| 10 | Light Yield Enhancement of 157-Gadolinium Oxysulfide Scintillator Screens for the High-Resolution Neutron Imaging. MethodsX, 2019, 6, 107-114. | 1.6 | 18 |
| 11 | Towards sub-micrometer high aspect ratio X-ray gratings by atomic layer deposition of iridium. Microelectronic Engineering, 2018, 192, 19-24. | 2.4 | 39 |
| 12 | Tunable X-ray speckle-based phase-contrast and dark-field imaging using the unified modulated pattern analysis approach. Journal of Instrumentation, 2018, 13, C05005-C05005. | 1.2 | 8 |
| 13 | Advanced X-ray phase-contrast and dark-field imaging with the unified modulated pattern analysis (UMPA). Microscopy and Microanalysis, 2018, 24, 22-23. | 0.4 | 1 |
| 14 | Development of Laboratory Grating-based X-ray Phase Contrast Microtomography for Improved Pathology. Microscopy and Microanalysis, 2018, 24, 192-193. | 0.4 | 6 |
| 15 | High aspect ratio metal microcasting by hot embossing for X-ray optics fabrication. Microelectronic Engineering, 2017, 176, 6-10. | 2.4 | 27 |
| 16 | Systematic efficiency study of line-doubled zone plates. Microelectronic Engineering, 2017, 177, 25-29. | 2.4 | 25 |
| 17 | Effect of isopropanol on gold assisted chemical etching of silicon microstructures. Microelectronic Engineering, 2017, 177, 59-65. | 2.4 | 35 |
| 18 | High-aspect ratio silicon structures by displacement Talbot lithography and Bosch etching. Proceedings of SPIE, 2017, , . | 0.8 | 18 |

JOAN VILA-COMAMALA

| # | Article | IF | CITATIONS |
|----|---|------|-----------|
| 19 | Hot embossing of Au- and Pb-based alloys for x-ray grating fabrication. Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics, 2017, 35, . | 1.2 | 14 |
| 20 | Dynamic Pore-scale Reservoir-condition Imaging of Reaction in Carbonates Using Synchrotron Fast Tomography. Journal of Visualized Experiments, 2017, , . | 0.3 | 3 |
| 21 | X-ray phase microtomography with a single grating for high-throughput investigations of biological tissue. Biomedical Optics Express, 2017, 8, 1257. | 2.9 | 19 |
| 22 | High resolution beam profiling of X-ray free electron laser radiation by polymer imprint development. Optics Express, 2017, 25, 30686. | 3.4 | 23 |
| 23 | Transmission x-ray microscopy at Diamond-Manchester I13 Imaging Branchline. AIP Conference Proceedings, 2016, , . | 0.4 | 3 |
| 24 | Phase retrieval by coherent modulation imaging. Nature Communications, 2016, 7, 13367. | 12.8 | 125 |
| 25 | <i>In Situ</i> Heater Design for Nanoscale Synchrotron-Based Full-Field Transmission X-Ray Microscopy. Microscopy and Microanalysis, 2015, 21, 290-297. | 0.4 | 5 |
| 26 | The Effect of Nitrate on Salt Layers in Pitting Corrosion of 304L Stainless Steel. Journal of the Electrochemical Society, 2015, 162, C457-C464. | 2.9 | 24 |
| 27 | Three-dimensional characterization of electrodeposited lithium microstructures using synchrotron X-ray phase contrast imaging. Chemical Communications, 2015, 51, 266-268. | 4.1 | 133 |
| 28 | Full-field X-ray reflection microscopy of epitaxial thin-films. Journal of Synchrotron Radiation, 2014, 21, 1252-1261. | 2.4 | 41 |
| 29 | Fresnel zone plate stacking in the intermediate field for high efficiency focusing in the hard X-ray regime. Optics Express, 2014, 22, 28142. | 3.4 | 35 |
| 30 | Characterization of x-ray phase vortices by ptychographic coherent diffractive imaging. Optics Letters, 2014, 39, 5281. | 3.3 | 40 |
| 31 | Coherent X-Ray Imaging of Collagen Fibril Distributions within Intact Tendons. Biophysical Journal, 2014, 106, 459-466. | 0.5 | 12 |
| 32 | Three-Dimensional Microstructural Imaging of Sulfur Poisoning-Induced Degradation in a Ni-YSZ Anode of Solid Oxide Fuel Cells. Scientific Reports, 2014, 4, 5246. | 3.3 | 33 |
| 33 | X-ray computed tomography of the anterior cruciate ligament and patellar tendon. Muscles, Ligaments and Tendons Journal, 2014, 4, 238-44. | 0.3 | 17 |
| 34 | Ion beam lithography for Fresnel zone plates in X-ray microscopy. Optics Express, 2013, 21, 11747. | 3.4 | 35 |
| 35 | Angular spectrum simulation of X-ray focusing by Fresnel zone plates. Journal of Synchrotron Radiation, 2013, 20, 397-404. | 2.4 | 38 |
| 36 | Translation position determination in ptychographic coherent diffraction imaging. Optics Express, 2013, 21, 13592. | 3.4 | 242 |

JOAN VILA-COMAMALA

| # | Article | IF | CITATIONS |
|----|--|-----|-----------|
| 37 | <i>In-situ</i> observation of nickel oxidation using synchrotron based full-field transmission X-ray microscopy. Applied Physics Letters, 2013, 102, . | 3.3 | 14 |
| 38 | Examining Effects of Sulfur Poisoning on Ni/YSZ Solid Oxide Fuel Cell Anodes Using Synchrotron-Based X-Ray Imaging Techniques. , 2013, , . | | 0 |
| 39 | Role of the illumination spatial-frequency spectrum for ptychography. Physical Review B, 2012, 86, . | 3.2 | 93 |
| 40 | Zone-doubled Fresnel zone plates for high-resolution hard X-ray full-field transmission microscopy. Journal of Synchrotron Radiation, 2012, 19, 705-709. | 2.4 | 59 |
| 41 | Ultra-high resolution zone-doubled †diffractive X-ray optics for the multi-keV regime. Optics Express, 2011, 19, 175. | 3.4 | 114 |
| 42 | Characterization of high-resolution diffractive X-ray optics by ptychographic coherent diffractive imaging. Optics Express, 2011, 19, 21333. | 3.4 | 166 |
| 43 | Coherent x-ray diffraction imaging of paint pigment particles by scanning a phase plate modulator. New Journal of Physics, 2011, 13, 103022. | 2.9 | 4 |
| 44 | High-efficiency Fresnel zone plates for hard X-rays by 100â€keV e-beam lithography and electroplating. Journal of Synchrotron Radiation, 2011, 18, 442-446. | 2.4 | 83 |
| 45 | High aspect ratio nanostructuring by high energy electrons and electroplating. Microelectronic Engineering, 2011, 88, 2259-2262. | 2.4 | 25 |
| 46 | Characterization of a 20-nm hard x-ray focus by ptychographic coherent diffractive imaging. Proceedings of SPIE, 2011, , . | 0.8 | 0 |
| 47 | 3D Nanostructuring of hydrogen silsesquioxane resist by 100 keV electron beam lithography. Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics, 2011, 29, 06F301. | 1.2 | 19 |
| 48 | Direct e-beam writing of high aspect ratio nanostructures in PMMA: A tool for diffractive X-ray optics fabrication. Microelectronic Engineering, 2010, 87, 1052-1056. | 2.4 | 28 |
| 49 | Ptychographic characterization of the wavefield in the focus of reflective hard X-ray optics. Ultramicroscopy, 2010, 110, 325-329. | 1.9 | 117 |
| 50 | Scanning transmission X-ray microscopy with a fast framing pixel detector. Ultramicroscopy, 2010, 110, 1143-1147. | 1.9 | 33 |
| 51 | Beam-induced damage on diffractive hard X-ray optics. Journal of Synchrotron Radiation, 2010, 17, 786-790. | 2.4 | 8 |
| 52 | High Spatial Resolution STXM at 6.2 keV Photon Energy. , 2010, , . | | 4 |
| 53 | Direct e-beam writing of dense and high aspect ratio nanostructures in thick layers of PMMA for electroplating. Nanotechnology, 2010, 21, 295303. | 2.6 | 92 |
| 54 | Dense high aspect ratio hydrogen silsesquioxane nanostructures by 100 keV electron beam lithography. Nanotechnology, 2010, 21, 285305. | 2.6 | 42 |

JOAN VILA-COMAMALA

| # | Article | IF | CITATIONS |
|----|--|-----|-----------|
| 55 | Reconstruction of an astigmatic hard X-ray beam and alignment of K-B mirrors from ptychographic coherent diffraction data. Optics Express, 2010, 18, 23420. | 3.4 | 120 |
| 56 | Phase-contrast tomography at the nanoscale using hard x rays. Physical Review B, 2010, 81, . | 3.2 | 115 |
| 57 | Advanced thin film technology for ultrahigh resolution X-ray microscopy. Ultramicroscopy, 2009, 109, 1360-1364. | 1.9 | 111 |
| 58 | Spatially resolved strain within a single SiGe island investigated by Xâ€ray scanning microdiffraction. Physica Status Solidi (A) Applications and Materials Science, 2009, 206, 1829-1832. | 1.8 | 12 |
| 59 | Beam-shaping condenser lenses for full-field transmission X-ray microscopy. Journal of Synchrotron Radiation, 2008, 15, 106-108. | 2.4 | 50 |
| 60 | Silicon Fresnel zone plates for high heat load X-ray microscopy. Microelectronic Engineering, 2008, 85, 1241-1244. | 2.4 | 14 |
| 61 | Zone-Doubling Technique to Produce Ultrahigh-Resolution X-Ray Optics. Physical Review Letters, 2007, 99, 264801. | 7.8 | 154 |
| 62 | Nanofabrication of Fresnel zone plate lenses for X-ray optics. Microelectronic Engineering, 2006, 83, 1355-1359. | 2.4 | 7 |