# Joaquin Oton

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/3446651/publications.pdf

Version: 2024-02-01

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|---|---|---|---|
| 47 papers | 2,640 citations | 361413 20 h-index | 315739 38 g-index |
| 49 all docs | 49 docs citations | 49 times ranked | 4627 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | ScipionTomo: Towards cryo-electron tomography software integration, reproducibility, and validation. Journal of Structural Biology, 2022, 214, 107872. | 2.8 | 19 |
| 2 | Measurement of local resolution in electron tomography. Journal of Structural Biology: X, 2020, 4, 100016. | 1.3 | 10 |
| 3 | Structures and distributions of SARS-CoV-2 spike proteins on intact virions. Nature, 2020, 588, 498-502. | 27.8 | 918 |
| 4 | The chaperonin CCT controls T cell receptorâ€“driven 3D configuration of centrioles. Science Advances, 2020, 6, . | 10.3 | 23 |
| 5 | Development of basic building blocks for cryo-EM: the emcore and emvis software libraries. Acta Crystallographica Section D: Structural Biology, 2020, 76, 350-356. | 2.3 | 0 |
| 6 | Frozenâ€hydrated chromatin from metaphase chromosomes has an interdigitated multilayer structure. EMBO Journal, 2019, 38, . | 7.8 | 27 |
| 7 | Validation of electron microscopy initial models via small angle X-ray scattering curves. Bioinformatics, 2019, 35, 2427-2433. | 4.1 | 7 |
| 8 | MonoRes: Automatic and Accurate Estimation of Local Resolution for Electron Microscopy Maps. Structure, 2018, 26, 337-344.e4. | 3.3 | 179 |
| 9 | Blind estimation of DED camera gain in Electron Microscopy. Journal of Structural Biology, 2018, 203, 90-93. | 2.8 | 7 |
| 10 | XTEND: Extending the depth of field in cryo soft X-ray tomography. Scientific Reports, 2017, 7, 45808. | 3.3 | 24 |
| 11 | Near-Edge Absorption Soft X-ray Nanotomography of Cells Incubated with Nanoparticles. Microscopy and Microanalysis, 2017, 23, 992-993. | 0.4 | 0 |
| 12 | A review of resolution measures and related aspects in 3D Electron Microscopy. Progress in Biophysics and Molecular Biology, 2017, 124, 1-30. | 2.9 | 30 |
| 13 | High Resolution Soft X-ray Tomography of Large Samples by Focal Series Projections. Microscopy and Microanalysis, 2017, 23, 980-981. | 0.4 | 0 |
| 14 | A Survey of the Use of Iterative Reconstruction Algorithms in Electron Microscopy. BioMed Research International, 2017, 2017, 1-17. | 1.9 | 29 |
| 15 | Characterization of transfer function, resolution and depth of field of a soft X-ray microscope applied to tomography enhancement by Wiener deconvolution. Biomedical Optics Express, 2016, 7, 5092. | 2.9 | 53 |
| 16 | Intracellular nanoparticles mass quantification by near-edge absorption soft X-ray nanotomography. Scientific Reports, 2016, 6, 22354. | 3.3 | 29 |
| 17 | Local analysis of strains and rotations for macromolecular electron microscopy maps. Journal of Structural Biology, 2016, 195, 123-128. | 2.8 | 9 |
| 18 | Particle alignment reliability in single particle electron cryomicroscopy: a general approach. Scientific Reports, 2016, 6, 21626. | 3.3 | 21 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Scipion: A software framework toward integration, reproducibility and validation in 3D electron microscopy. Journal of Structural Biology, 2016, 195, 93-99. | 2.8 | 474 |
| 20 | Cryo-EM and the elucidation of new macromolecular structures: Random Conical Tilt revisited. Scientific Reports, 2015, 5, 14290. | 3.3 | 16 |
| 21 | A statistical approach to the initial volume problem in Single Particle Analysis by Electron Microscopy. Journal of Structural Biology, 2015, 189, 213-219. | 2.8 | 27 |
| 22 | Measurement of the modulation transfer function of an X-ray microscope based on multiple Fourier orders analysis of a Siemens star. Optics Express, 2015, 23, 9567. | 3.4 | 21 |
| 23 | Three-dimensional reconstruction methods in Single Particle Analysis from transmission electron microscopy data. Archives of Biochemistry and Biophysics, 2015, 581, 39-48. | 3.0 | 19 |
| 24 | Fast and accurate conversion of atomic models into electron density maps. AIMS Biophysics, 2015, 2, 8-20. | 0.6 | 42 |
| 25 | The soft x-ray transform. Inverse Problems, 2014, 30, 125015. | 2.0 | 7 |
| 26 | An image processing approach to the simulation of electron microscopy volumes of atomic structures. , 2014, , . | | 0 |
| 27 | Interchanging Geometry Conventions in 3DEM: Mathematical Context for the Development of Standards. Applied and Numerical Harmonic Analysis, 2014, , 7-42. | 0.3 | 8 |
| 28 | Soft X-Ray Tomography Imaging for Biological Samples. Applied and Numerical Harmonic Analysis, 2014, , 187-220. | 0.3 | 2 |
| 29 | FASTDEF: Fast defocus and astigmatism estimation for high-throughput transmission electron microscopy. Journal of Structural Biology, 2013, 181, 136-148. | 2.8 | 31 |
| 30 | Xmipp 3.0: An improved software suite for image processing in electron microscopy. Journal of Structural Biology, 2013, 184, 321-328. | 2.8 | 261 |
| 31 | Semiautomatic, High-Throughput, High-Resolution Protocol for Three-Dimensional Reconstruction of Single Particles in Electron Microscopy. Methods in Molecular Biology, 2013, 950, 171-193. | 0.9 | 25 |
| 32 | A pattern matching approach to the automatic selection of particles from low-contrast electron micrographs. Bioinformatics, 2013, 29, 2460-2468. | 4.1 | 73 |
| 33 | Image processing for Cellular tomography using soft X-rays. , 2012, , . | | 0 |
| 34 | Image formation in cellular X-ray microscopy. Journal of Structural Biology, 2012, 178, 29-37. | 2.8 | 30 |
| 35 | Dynamic calibration for improving the speed of a parallel-aligned liquid-crystal-on-silicon display. Applied Optics, 2009, 48, 4616. | 2.1 | 11 |
| 36 | Advances in LCoS SLM characterization for improved optical performance in image processing. Proceedings of SPIE, 2008, , . | 0.8 | 7 |

| # | Article | IF | Citations |
|---|---|---|---|
| 37 | Compensation of inherent wavefront distortion in zero-twist LCoS spatial light modulators. AIP Conference Proceedings, 2008, , . | 0.4 | 0 |
| 38 | Multiplexing schemes for an achromatic programmable diffractive lens. Journal of Physics: Conference Series, 2008, 139, 012016. | 0.4 | 0 |
| 39 | Spatial Light Modulators For Information Processing: Applications And Overview. AIP Conference Proceedings, 2007, , . | 0.4 | 3 |
| 40 | Multipoint phase calibration for improved compensation of inherent wavefront distortion in parallel aligned liquid crystal on silicon displays. Applied Optics, 2007, 46, 5667. | 2.1 | 83 |
| 41 | Chromatic compensation of programmable Fresnel lenses. Optics Express, 2006, 14, 6226. | 3.4 | 32 |
| 42 | Dynamic compensation of chromatic aberration in a programmable diffractive lens. Optics Express, 2006, 14, 9103. | 3.4 | 48 |
| 43 | Imaging Characteristics Of Programmable Lenses Generated By SLM. AIP Conference Proceedings, 2006, , . | 0.4 | 2 |
| 44 | Phase joint transform sequential correlator for nonlinear binary correlations. Optics Communications, 2005, 245, 113-124. | 2.1 | 1 |
| 45 | Nonlinear pattern recognition correlators based on color-encoding single-channel systems. Applied Optics, 2004, 43, 425. | 2.1 | 10 |
| 46 | Nonlinear optical time sequential correlations using phase input encoding. , 2004, , . | | 0 |
| 47 | Single-channel nonlinear processor for color optical pattern recognition. , 2003, 5202, 176. | | 0 |