

Celestino Padeste, PSI: List of Publications, updated: 04/04/2019

1. M. Ł. Górzny, N.L. Opara, V.A. Guzenko, V.J. Cadarso, H. Schiff, X.D. Li, C. Padeste, "Microfabricated silicon chip as lipid membrane sample holder for serial protein crystallography", *Micro and Nano Engineering* 3 (2019) 31-36, doi: 10.1016/j.mne.2019.03.002.
2. Mina Moradi, Nadia L. Opara, Ludovico G. Tulli, Christian Wäckerlin, Scott J. Dalgarno, Simon J. Teat, Milos Baljovic, Olha Popova, Eric van Genderen, Armin Kleibert, Henning Stahlberg, Jan Pieter Abrahams, Celestino Padeste, Thomas A. Jung, Patrick Shahgaldian, "Supramolecular Architectures of Molecularly Thin Yet Robust Free-Standing Layers", *Sci. Adv.* 2019, 5, eaav4489; doi: 10.1126/sciadv.aav4489
3. Cecilia M. Casadei, Karol Nass, Anton Barty, Mark S. Hunter, Celestino Padeste, Ching-Ju Tsai, Sébastien Boutet, Marc Messerschmidt, Leonardo Sala, Garth J. Williams, Dmitry Ozerov, Matthew Coleman, Xiao-Dan Li, Matthias Frank and Bill Pedrini, "Structure-factor amplitude reconstruction from serial femtosecond crystallography of two-dimensional membrane-protein crystals", *IUCrJ* 2019, 6 (1), doi: 10.1107/S2052252518014641.
4. Wojciech Szmyt, Laurent Marot, Michel Calame, Celestino Padeste, and Clemens Dransfeld, "Carbon fibre-carbon nanotube multiscale composites - nanoengineering of the fibre surface for protection in extreme processing conditions.", *Proceedings of ECCM18 - 18th European Conference on Composite Materials*, 2018.
5. S. Ranamukhaarachchi, C. Padeste, U. Häfeli, B. Stoeber, V. Cadarso, "Design considerations of a hollow microneedle-optofluidic biosensing platform incorporating enzyme-linked assays", *Journal of Micromechanics and Microengineering*, *J. Micromech. Microeng.* 28 (2018) 024002. doi: 10.1088/1361-6439/aa9c9c.
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7. Nadia L. Opara, Istvan Mohacsi, Mikako Makita, Daniel Castano-Diez, Ana Diaz, Pavle Juranić, May Marsh, Alke Meents, Christopher J. Milne, Aldo Mozzanica, Celestino Padeste, Valérie Panneels, Marcin Sikorski, Sanghoon Song, Henning Stahlberg, Ismo Vartiainen, Laura Vera, Meitian Wang, Philip R. Willmott, and Christian David "Demonstration of femtosecond X-ray pump X-ray probe diffraction on protein crystals" *Structural Dynamics*, (2018), 5, 054303; doi: 10.1063/1.5050618.
8. Cecilia Casadei, Ching-Ju Tsai, Anton Barty, Mark Hunter, Nadia Zatsepin, Celestino Padeste, Guido Capitani, Henry Benner, Sebastien Boutet, Stefan Hau-Riege, Christopher Kupitz, Marc Messerschmidt, John Ogren, Tom Pardini, Kenneth Rothschild, Leonardo Sala, Brent Segelke, Garth Williams, James Evans, Xiao-Dan Li, Matthew Coleman, Bill Pedrini and Matthias Frank, "Resolution extension by image summing in serial femtosecond crystallography of two-dimensional membrane protein crystals", *IUCrJ*, (2018) 5, 103–117; doi: 10.1107/S2052252517017043.
9. Sahan Ranamukhaarachchi, Celestino Padeste, Urs Häfeli, Boris Stoeber, Victor Cadarso, "Design considerations of a hollow microneedle-optofluidic biosensing platform incorporating enzyme-linked assays", *Journal of Micromechanics and Microengineering*, *J. Micromech. Microeng.* 28 (2018) 024002. doi: 10.1088/1361-6439/aa9c9c.
10. Nadia Opara, Isabelle Martiel, Stefan A. Arnold, Thomas Braun, Henning Stahlberg, Mikako Makita, Christian David and Celestino Padeste, "Direct protein crystallization on ultrathin membranes for diffraction measurements at X-ray free electron lasers", *J. Appl. Cryst.* (2017) 50, 909-918. doi: 10.1107/S1600576717005799.
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12. Matthias Dübner, Maria-Eleni Naoum, Nicholas D. Spencer, Celestino Padeste, "From pH- to Light-Response: Post-Polymerization Modification of Polymer Brushes Grafted onto Microporous Polymeric Membranes", *ACS Omega*, 2, 2017, 455-461. doi: 10.1021/acsomega.6b00394

13. Katarzyna Gajos, Vitaliy A. Guzenko, Matthias Dübner, Jakub Haberko, Andrzej Budkowski, Celestino Padeste, Electron-beam lithographic grafting of functional polymer structures from fluoropolymer substrates, *Langmuir* 32(41), 2016, 10641–10650. doi: 10.1021/acs.langmuir.6b02808
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