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Mixing on ROY Polymorphism Reprinted from: Crystals 2022, 12, 577, doi:10.3390/cryst12050577 57 -- Benjamin Radel, Marco Gleiß and Hermann Nirschl Crystal Breakage Due to Combined Normal and Shear Loading Reprinted from: Crystals 2022, 12, 644, doi:10.3390/cryst12050644 69 -- Marta Kubiak, Ingo Kampen and Carsten Schilde Structure-Based Modeling of the Mechanical Behavior of Cross-Linked Enzyme Crystals Reprinted from: Crystals 2022, 12, 441, doi:10.3390/cryst12040441 83 -- Abigail R. Ward, Sara Dmytriw, Ananya Vajapayajula and Christopher D. Snow Stabilizing DNA-Protein Co-Crystals via Intra-Crystal Chemical Ligation of the DNA Reprinted from: Crystals 2021, 12, 49, doi:10.3390/cryst12010049 . 99 -- Sergio Martinez-Rodríguez, Rafael Contreras-Montoya, Jesús M. Torres, Luis Alvarez de Cienfuegos and Jose Antonio Gavira A New L-Proline Amide Hydrolase with Potential Application within the Amidase Process Reprinted from: Crystals 2021, 12, 18, doi:10.3390/cryst12010018 . 121 -- Zoran Radić Shifts in Backbone Conformation of Acetylcholinesterases upon Binding of Covalent Inhibitors, Reversible Ligands and Substrates Reprinted from: Crystals 2021, 11, 1557, doi: 10.3390/cryst11121557 137.

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### Sommario/riassunto

This reprint focuses on different techniques and strategies to obtain high-quality crystalline structures of biological macromolecules via X-ray diffraction and synchrotron radiation. Contributions cover various aspects ranging from the fundamentals of crystal growth of biomolecules with biomedical applications and materials science through to the biotechnological applications of crystals.

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