# Ashtamurthy S Pawate

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/2730445/publications.pdf

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|---|---|---|---|
| 22 papers | 841 citations | 430874 18 h-index | 677142 22 g-index |
| 22 all docs | 22 docs citations | 22 times ranked | 871 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | A Mutation in Subunit I of Cytochrome Oxidase fromRhodobacter sphaeroidesResults in an Increase in Steady-State Activity but Completely Eliminates Proton Pumpingâ€. Biochemistry, 2002, 41, 13417-13423. | 2.5 | 122 |
| 2 | Controlled uncoupling and recoupling of proton pumping in cytochrome c oxidase. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 317-322. | 7.1 | 89 |
| 3 | Redox-coupled proton translocation in biological systems: Proton shuttling in cytochrome c oxidase. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 15543-15547. | 7.1 | 88 |
| 4 | Transmembrane Charge Separation during the Ferryl-oxo â†' Oxidized Transition in a Nonpumping Mutant of Cytochrome c Oxidase. Journal of Biological Chemistry, 2004, 279, 52558-52565. | 3.4 | 75 |
| 5 | Fabrication of X-ray compatible microfluidic platforms for protein crystallization. Sensors and Actuators B: Chemical, 2012, 174, 1-9. | 7.8 | 59 |
| 6 | Replacing Asn207 by Aspartate at the Neck of the D Channel in the aa3-Type Cytochrome c Oxidase from Rhodobacter sphaeroides Results in Decoupling the Proton Pump. Biochemistry, 2006, 45, 14064-14074. | 2.5 | 44 |
| 7 | A microfluidic approach for protein structure determination at room temperature via on-chip anomalous diffraction. Lab on A Chip, 2013, 13, 3183. | 6.0 | 40 |
| 8 | Chemical Analysis of Drug Biocrystals: A Role for Counterion Transport Pathways in Intracellular Drug Disposition. Molecular Pharmaceutics, 2015, 12, 2528-2536. | 4.6 | 38 |
| 9 | In situserial Laue diffraction on a microfluidic crystallization device. Journal of Applied Crystallography, 2014, 47, 1975-1982. | 4.5 | 29 |
| 10 | X-ray Transparent Microfluidic Chip for Mesophase-Based Crystallization of Membrane Proteins and On-Chip Structure Determination. Crystal Growth and Design, 2014, 14, 4886-4890. | 3.0 | 29 |
| 11 | Crystallization Optimization of Pharmaceutical Solid Forms with X-ray Compatible Microfluidic Platforms. Crystal Growth and Design, 2015, 15, 1201-1209. | 3.0 | 29 |
| 12 | Towards time-resolved serial crystallography in a microfluidic device. Acta Crystallographica Section F, Structural Biology Communications, 2015, 71, 823-830. | 0.8 | 29 |
| 13 | Decoupling Mutations in the D-Channel of the aa3-Type Cytochrome c Oxidase from Rhodobacter sphaeroides Suggest That a Continuous Hydrogen-Bonded Chain of Waters Is Essential for Proton Pumping. Biochemistry, 2010, 49, 4476-4482. | 2.5 | 28 |
| 14 | An X-ray transparent microfluidic platform for screening of the phase behavior of lipidic mesophases. Analyst, The, 2013, 138, 5384. | 3.5 | 25 |
| 15 | Mutations which decouple the proton pump of the cytochromecoxidase fromRhodobacter sphaeroidesperturb the environment of glutamate 286. FEBS Letters, 2006, 580, 4613-4617. | 2.8 | 23 |
| 16 | A Method of Cryoprotection for Protein Crystallography by Using a Microfluidic Chip and Its Application for in Situ X-ray Diffraction Measurements. Analytical Chemistry, 2015, 87, 4194-4200. | 6.5 | 20 |
| 17 | A microfluidic-based protein crystallization method in 10 micrometer-sized crystallization space. CrystEngComm, 2016, 18, 7722-7727. | 2.6 | 19 |
| 18 | X-ray transparent microfluidic platforms for membrane protein crystallization with microseeds. Lab on A Chip, 2018, 18, 944-954. | 6.0 | 19 |

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|---|---|---|---|
| 19 | Flash-Photolysis of Fully Reduced and Mixed-Valence CO-Bound Rhodobacter sphaeroides Cytochrome c Oxidase:â€‰ Heme Spectral Shifts. Biochemistry, 2007, 46, 12568-12578. | 2.5 | 11 |
| 20 | Polymeric microfluidic continuous flow mixer combined with hyperspectral FT-IR imaging for studying rapid biomolecular events. Lab on A Chip, 2019, 19, 2598-2609. | 6.0 | 11 |
| 21 | X-ray transparent microfluidic chips for high-throughput screening and optimization of in meso membrane protein crystallization. Biomicrofluidics, 2017, 11, 024118. | 2.4 | 7 |
| 22 | Nonâ€Aqueous Primary Liâ€“Air Flow Battery and Optimization of its Cathode through Experiment and Modeling. ChemSusChem, 2017, 10, 4198-4206. | 6.8 | 7 |