# Eri Chatani

List of Publications by Year
in descending order



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|---|---|---|---|
| 32 papers | 1,158 citations | 430442 18 h-index | 454577 30 g-index |
| 35 all docs | 35 docs citations | 35 times ranked | 1421 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Critical Balance of Electrostatic and Hydrophobic Interactions Is Required for Î²2-Microglobulin Amyloid Fibril Growth and Stability. Biochemistry, 2005, 44, 1288-1299. | 1.2 | 162 |
| 2 | Ultrasonication-dependent production and breakdown lead to minimum-sized amyloid fibrils. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 11119-11124. | 3.3 | 117 |
| 3 | Recent progress on understanding the mechanisms of amyloid nucleation. Biophysical Reviews, 2018, 10, 527-534. | 1.5 | 108 |
| 4 | Conformational stability of amyloid fibrils of Î²2 -microglobulin probed by guanidine-hydrochloride-induced unfolding. FEBS Letters, 2004, 576, 313-319. | 1.3 | 62 |
| 5 | Seeding-dependent Maturation of Î²2-Microglobulin Amyloid Fibrils at Neutral pH. Journal of Biological Chemistry, 2005, 280, 12012-12018. | 1.6 | 62 |
| 6 | Stepwise Organization of the Î²-Structure Identifies Key Regions Essential for the Propagation and Cytotoxicity of Insulin Amyloid Fibrils. Journal of Biological Chemistry, 2014, 289, 10399-10410. | 1.6 | 58 |
| 7 | Water Molecular System Dynamics Associated with Amyloidogenic Nucleation as Revealed by Real Time Near Infrared Spectroscopy and Aquaphotomics. PLoS ONE, 2014, 9, e101997. | 1.1 | 57 |
| 8 | Main-chain Dominated Amyloid Structures Demonstrated by the Effect of High Pressure. Journal of Molecular Biology, 2005, 352, 941-951. | 2.0 | 55 |
| 9 | A Comprehensive Model for Packing and Hydration for Amyloid Fibrils of Î²2-Microglobulin. Journal of Biological Chemistry, 2009, 284, 2169-2175. | 1.6 | 52 |
| 10 | Early aggregation preceding the nucleation of insulin amyloid fibrils as monitored by small angle X-ray scattering. Scientific Reports, 2015, 5, 15485. | 1.6 | 51 |
| 11 | Conformation of Amyloid Fibrils of Î²2-Microglobulin Probed by Tryptophan Mutagenesis. Journal of Biological Chemistry, 2006, 281, 31061-31069. | 1.6 | 47 |
| 12 | Polymorphism of Î²2-Microglobulin Amyloid Fibrils Manifested by Ultrasonication-enhanced Fibril Formation in Trifluoroethanol. Journal of Biological Chemistry, 2012, 287, 22827-22837. | 1.6 | 40 |
| 13 | Breakdown of supersaturation barrier links protein folding to amyloid formation. Communications Biology, 2021, 4, 120. | 2.0 | 39 |
| 14 | Heparin-dependent aggregation of hen egg white lysozyme reveals two distinct mechanisms of amyloid fibrillation. Journal of Biological Chemistry, 2017, 292, 21219-21230. | 1.6 | 33 |
| 15 | Current Understanding of the Structure, Stability and Dynamic Properties of Amyloid Fibrils. International Journal of Molecular Sciences, 2021, 22, 4349. | 1.8 | 33 |
| 16 | Structural stability of amyloid fibrils of Î²2-microglobulin in comparison with its native fold. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2005, 1753, 64-75. | 1.1 | 30 |
| 17 | Pre-Steady-State Kinetic Analysis of the Elongation of Amyloid Fibrils of Î²2-Microglobulin with Tryptophan Mutagenesis. Journal of Molecular Biology, 2010, 400, 1057-1066. | 2.0 | 27 |
| 18 | A specific form of prefibrillar aggregates that functions as a precursor of amyloid nucleation. Scientific Reports, 2018, 8, 62. | 1.6 | 21 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Kinetic Intermediates of Î²2-Microglobulin Fibril Elongation Probed by Pulse-Labeling H/D Exchange Combined with NMR Analysis. Journal of Molecular Biology, 2011, 405, 851-862. | 2.0 | 19 |
| 20 | Theoretical Modeling of Electronic Structures of Polyiodide Species Included in Î±-Cyclodextrin. Journal of Physical Chemistry B, 2020, 124, 4089-4096. | 1.2 | 13 |
| 21 | 9-Aryl-3-aminocarbazole as an Environment- and Stimuli-Sensitive Fluorogen and Applications in Lipid Droplet Imaging. Journal of Organic Chemistry, 2019, 84, 5535-5547. | 1.7 | 12 |
| 22 | Exploration of Insulin Amyloid Polymorphism Using Raman Spectroscopy and Imaging. Biophysical Journal, 2020, 118, 2997-3007. | 0.2 | 12 |
| 23 | Structural Insights into the Inhibition of Amyloid Fibril Formation by Fibrinogen via Interaction with Prefibrillar Intermediates. Biochemistry, 2019, 58, 2769-2781. | 1.2 | 10 |
| 24 | Femtosecond-Laser-Enhanced Amyloid Fibril Formation of Insulin. Langmuir, 2017, 33, 8311-8318. | 1.6 | 9 |
| 25 | Iodine staining as a useful probe for distinguishing insulin amyloid polymorphs. Scientific Reports, 2020, 10, 16741. | 1.6 | 8 |
| 26 | Cooperative Optical Trapping of Polystyrene Microparticle and Protein Forming a Submillimeter Linear Assembly of Microparticle. Journal of Physical Chemistry C, 2021, 125, 18988-18999. | 1.5 | 8 |
| 27 | Multistep Changes in Amyloid Structure Induced by Cross-Seeding on a Rugged Energy Landscape. Biophysical Journal, 2021, 120, 284-295. | 0.2 | 5 |
| 28 | Pathway Dependence of the Formation and Development of Prefibrillar Aggregates in Insulin B Chain. Molecules, 2022, 27, 3964. | 1.7 | 2 |
| 29 | Functional Assembly of Caenorhabditis elegans Cytochrome b-2 (Cecytb-2) into Phospholipid Bilayer Nanodisc with Enhanced Iron Reductase Activity. Biomolecules, 2021, 11, 96. | 1.8 | 1 |
| 30 | Multistep growth of amyloid intermediates and its inhibition toward exploring therapeutic way: A case study using insulin B chain and fibrinogen. Biophysics and Physicobiology, 2022, 19, . | 0.5 | 1 |
| 31 | 1D1612 Mechanism of amyloid fibril formation as revealed by small angle X-ray scattering(Protein:) Tj ETQq1 1 0.784314 rgBT /Overlock | 0.0 | 0 |
| 32 | Observing Development of Amyloid Prefibrillar Intermediates and their Interaction with Chaperones for Inhibiting the Fibril Formation. Seibutsu Butsuri, 2021, 61, 236-239. | 0.0 | 0 |