

Hironobu Naiki

List of Publications by Year in descending order

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65
papers

2,592
citations

236925

25
h-index

189892

50
g-index

71
all docs

71
docs citations

71
times ranked

2888
citing authors

#	ARTICLE	IF	CITATIONS
1	ThT 101: a primer on the use of thioflavin T to investigate amyloid formation. <i>Amyloid: the International Journal of Experimental and Clinical Investigation: the Official Journal of the International Society of Amyloidosis</i> , 2017, 24, 1-16.	3.0	257
2	Distinguishing crystal-like amyloid fibrils and glass-like amorphous aggregates from their kinetics of formation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 14446-14451.	7.1	256
3	Establishment of a kinetic model of dialysis-related amyloid fibril extension <i>in vitro</i> . <i>Amyloid: the International Journal of Experimental and Clinical Investigation: the Official Journal of the International Society of Amyloidosis</i> , 1997, 4, 223-232.	3.0	187
4	Critical Balance of Electrostatic and Hydrophobic Interactions Is Required for β 2-Microglobulin Amyloid Fibril Growth and Stability. <i>Biochemistry</i> , 2005, 44, 1288-1299.	2.5	162
5	Ultrasonication-induced Amyloid Fibril Formation of β 2-Microglobulin. <i>Journal of Biological Chemistry</i> , 2005, 280, 32843-32848.	3.4	153
6	Direct Measurement of the Thermodynamic Parameters of Amyloid Formation by Isothermal Titration Calorimetry. <i>Journal of Biological Chemistry</i> , 2004, 279, 55308-55314.	3.4	131
7	Investigation of a Peptide Responsible for Amyloid Fibril Formation of β 2-Microglobulin by <i>Achromobacter</i> Protease I. <i>Journal of Biological Chemistry</i> , 2002, 277, 1310-1315.	3.4	116
8	Amyloid Fibril Formation in the Context of Full-length Protein. <i>Journal of Biological Chemistry</i> , 2003, 278, 47016-47024.	3.4	112
9	Heat-induced Conversion of β 2-Microglobulin and Hen Egg-white Lysozyme into Amyloid Fibrils. <i>Journal of Molecular Biology</i> , 2007, 372, 981-991.	4.2	93
10	The Intrachain Disulfide Bond of β 2-Microglobulin Is Not Essential for the Immunoglobulin Fold at Neutral pH, but Is Essential for Amyloid Fibril Formation at Acidic pH. <i>Journal of Biochemistry</i> , 2002, 131, 45-52.	1.7	86
11	Heat of supersaturation-limited amyloid burst directly monitored by isothermal titration calorimetry. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 6654-6659.	7.1	82
12	Ultrasonication-Dependent Acceleration of Amyloid Fibril Formation. <i>Journal of Molecular Biology</i> , 2011, 412, 568-577.	4.2	66
13	Critical role of interfaces and agitation on the nucleation of β 2 amyloid fibrils at low concentrations of β 2 monomers. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2010, 1804, 986-995.	2.3	64
14	Seeding-dependent Maturation of β 2-Microglobulin Amyloid Fibrils at Neutral pH. <i>Journal of Biological Chemistry</i> , 2005, 280, 12012-12018.	3.4	62
15	Amyloid Nucleation Triggered by Agitation of β 2-Microglobulin under Acidic and Neutral pH Conditions. <i>Biochemistry</i> , 2008, 47, 2650-2660.	2.5	61
16	Significant association of cadaveric dura mater grafting with subpial β 2 deposition and meningeal amyloid angiopathy. <i>Acta Neuropathologica</i> , 2016, 132, 313-315.	7.7	59
17	Reversible Heat-Induced Dissociation of β 2-Microglobulin Amyloid Fibrils. <i>Biochemistry</i> , 2011, 50, 3211-3220.	2.5	52
18	Molecular Pathogenesis of Protein Misfolding Diseases: Pathological Molecular Environments Versus Quality Control Systems Against Misfolded Proteins. <i>Journal of Biochemistry</i> , 2009, 146, 751-756.	1.7	50

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19	Kinetically Controlled Thermal Response of β^2 -Microglobulin Amyloid Fibrils. <i>Journal of Molecular Biology</i> , 2005, 352, 700-711.	4.2	49
20	Molecular interactions in the formation and deposition of β^2 -microglobulin-related amyloid fibrils. <i>Amyloid: the International Journal of Experimental and Clinical Investigation: the Official Journal of the International Society of Amyloidosis</i> , 2005, 12, 15-25.	3.0	35
21	Molecular pathogenesis of human amyloidosis: Lessons from β^2 -microglobulin-related amyloidosis. <i>Pathology International</i> , 2016, 66, 193-201.	1.3	35
22	Possible mechanisms of polyphosphate-induced amyloid fibril formation of β^2 -microglobulin. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 12833-12838.	7.1	35
23	Postmortem CT is more accurate than clinical diagnosis for identifying the immediate cause of death in hospitalized patients: a prospective autopsy-based study. <i>Virchows Archiv Fur Pathologische Anatomie Und Physiologie Und Fur Klinische Medizin</i> , 2016, 469, 101-109.	2.8	32
24	Aggregation-phase diagrams of β^2 -microglobulin reveal temperature and salt effects on competitive formation of amyloids versus amorphous aggregates. <i>Journal of Biological Chemistry</i> , 2018, 293, 14775-14785.	3.4	32
25	Heat-Triggered Conversion of Protofibrils into Mature Amyloid Fibrils of β^2 -Microglobulin. <i>Biochemistry</i> , 2007, 46, 3286-3293.	2.5	26
26	Endocytosed β^2 -Microglobulin Amyloid Fibrils Induce Necrosis and Apoptosis of Rabbit Synovial Fibroblasts by Disrupting Endosomal/Lysosomal Membranes: A Novel Mechanism on the Cytotoxicity of Amyloid Fibrils. <i>PLoS ONE</i> , 2015, 10, e0139330.	2.5	25
27	Human amyloidosis, still intractable but becoming curable: The essential role of pathological diagnosis in the selection of type-specific therapeutics. <i>Pathology International</i> , 2020, 70, 191-198.	1.3	24
28	Multifaceted anti-amyloidogenic and pro-amyloidogenic effects of C-reactive protein and serum amyloid P component in vitro. <i>Scientific Reports</i> , 2016, 6, 29077.	3.3	22
29	Heparin-induced amyloid fibrillation of β^2 -microglobulin explained by solubility and a supersaturation-dependent conformational phase diagram. <i>Protein Science</i> , 2017, 26, 1024-1036.	7.6	22
30	Apolipoprotein E and clusterin inhibit the early phase of amyloid- β^2 aggregation in an in vitro model of cerebral amyloid angiopathy. <i>Acta Neuropathologica Communications</i> , 2019, 7, 12.	5.2	22
31	Exothermic Effects Observed upon Heating of β^2 -Microglobulin Monomers in the Presence of Amyloid Seeds. <i>Biochemistry</i> , 2006, 45, 8760-8769.	2.5	21
32	Heating during agitation of β^2 -microglobulin reveals that supersaturation breakdown is required for amyloid fibril formation at neutral pH. <i>Journal of Biological Chemistry</i> , 2019, 294, 15826-15835.	3.4	20
33	C-terminal sequence of amyloid-resistant type F apolipoprotein A-II inhibits amyloid fibril formation of apolipoprotein A-II in mice. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, E836-45.	7.1	15
34	Elevated Levels of Urinary Extracellular Vesicle Fibroblast-Specific Protein 1 in Patients with Active Crescentic Glomerulonephritis. <i>Nephron</i> , 2019, 141, 177-187.	1.8	15
35	Supersaturation-Limited and Unlimited Phase Spaces Compete to Produce Maximal Amyloid Fibrillation near the Critical Micelle Concentration of Sodium Dodecyl Sulfate. <i>Langmuir</i> , 2015, 31, 9973-9982.	3.5	14
36	Thermal Response with Exothermic Effects of β^2 -Microglobulin Amyloid Fibrils and Fibrillation. <i>Journal of Molecular Biology</i> , 2009, 389, 584-594.	4.2	13

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37	Pathological examination of cerebral amyloid angiopathy in patients who underwent removal of lobar hemorrhages. <i>Journal of Neurology</i> , 2018, 265, 567-577.	3.6	12
38	Treatment with Geranylgeranylacetone Induces Heat Shock Protein 70 and Attenuates Neonatal Hyperoxic Lung Injury in a Model of Bronchopulmonary Dysplasia. <i>Lung</i> , 2017, 195, 469-476.	3.3	11
39	Chronic hypoxia exacerbates diabetic glomerulosclerosis through mesangiolysis and podocyte injury in db/db mice. <i>Nephrology Dialysis Transplantation</i> , 2020, 35, 1678-1688.	0.7	11
40	Surface-bound basement membrane components accelerate amyloid- β peptide nucleation in air-free wells: An in vitro model of cerebral amyloid angiopathy. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2013, 1834, 1624-1631.	2.3	7
41	Newly recognized cerebral infarctions on postmortem imaging: a report of three cases with systemic infectious disease. <i>BMC Medical Imaging</i> , 2017, 17, 4.	2.7	7
42	Pathological review of cardiac amyloidosis using autopsy cases in a single Japanese institution. <i>Pathology Research and Practice</i> , 2021, 227, 153635.	2.3	6
43	Autopsy case with concurrent transthyretin and immunoglobulin amyloidosis. <i>Pathology International</i> , 2022, 72, 65-71.	1.3	5
44	Antiamyloidogenic and proamyloidogenic chaperone effects of C-reactive protein and serum amyloid P component. <i>Amyloid: the International Journal of Experimental and Clinical Investigation: the Official Journal of the International Society of Amyloidosis</i> , 2017, 24, 28-29.	3.0	3
45	Amyloid Formation under Complicated Conditions in Which β -Microglobulin Coexists with Its Proteolytic Fragments. <i>Biochemistry</i> , 2019, 58, 4925-4934.	2.5	3
46	Thioflavin T: not an all-rounder, but a trustworthy friend for over 27 years. <i>Amyloid: the International Journal of Experimental and Clinical Investigation: the Official Journal of the International Society of Amyloidosis</i> , 2017, 24, 9-9.	3.0	2
47	Clinical, pathological, and proteomic characteristics of newly diagnosed amyloidosis patients: Experience from a single referral center in Japan. <i>Neurology and Clinical Neuroscience</i> , 2021, 9, 37-44.	0.4	2
48	Development of Myeloperoxidase Anti-neutrophil Cytoplasmic Antibody-positive Necrotizing Crescentic Glomerulonephritis in an Elderly Patient with Immunological Kidney Disease. <i>Internal Medicine</i> , 2021, , .	0.7	2
49	Case With Transthyretin Amyloid Cardiomyopathy Complicated With Rapidly Progressive Aortic Stenosis Possibly Caused by Amyloid Deposition in the Aortic Valve. <i>Circulation: Cardiovascular Imaging</i> , 2021, 14, e013357.	2.6	2
50	Abdominal Fat Pad Fine-Needle Aspiration for Diagnosis of Cardiac Amyloidosis in Patients with Non-Ischemic Cardiomyopathy. <i>International Heart Journal</i> , 2022, 63, 49-55.	1.0	2
51	Subventricular glial nodules in neurofibromatosis 1 with craniofacial dysmorphism and occipital meningoencephalocele. <i>ENeurologicalSci</i> , 2019, 17, 100213.	1.3	1
52	Gastrointestinal AA amyloidosis secondary to chronic pyelonephritis presenting with refractory diarrhea and severe hypoalbuminemia. <i>Clinical Journal of Gastroenterology</i> , 2021, 14, 1642-1648.	0.8	1
53	2P105 Structural polymorphism of β -microglobulin amyloid fibrils induced by the addition of trifluoroethanol(31. Protein folding and misfolding (II),Poster Session,Abstract,Meeting Program of) Tj ETQq1 1 0.784314 rgBT /Overl	0.1	0
54	3P048 Packing density of amyloid-like and amyloid fibrils(Proteins-stability, folding, and other) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 62 T	0.1	0

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55	3P055 Uniforming the Molecular Weigh of Amyloid Fibrils by Ultrasonication(Proteins-stability,) Tj ETQq1 1 0.784314 rgBT /Overlock 10	0.1	0
56	3P-010 Analysis of the amyloid fiber extension mechanism using H/D exchange(The 46th Annual Meeting) Tj ETQq0,0,0 rgBT /Overlock 10	0.1	0
57	2P-048 Analysis of the mechanism of the amyloid fiber extension using H/D exchange(Protein:Property,The 47th Annual Meeting of the Biophysical Society of Japan). Seibutsu Butsurei, 2009, 49, S114.	0.1	0
58	2P-052 Site directed spin labeling - electron spin resonance analysis of the structure of amyloid fibrils(Protein:Property,The 47th Annual Meeting of the Biophysical Society of Japan). Seibutsu Butsurei, 2009, 49, S114-S115.	0.1	0
59	2P051 High Speed Amyloid Fibrilization Induced by Ultrasonication(The 48th Annual Meeting of the) Tj ETQq1 1 0.784314 rgBT /Overlock 10	0.1	0
60	1P064 Analysis of the intermediate state of the formation of the β 2-microglobulin amyloid fibril using paramagnetic relaxation enhancement(Protein:Property,The 48th Annual Meeting of the Biophysical) Tj ETQq0 0 0 rgBT /Overdock 10 Tf	0.0	0
61	2P069 The mechanism of ultrasonication-induced amyloid fibril formation(01C. Protein: Property). Seibutsu Butsurei, 2013, 53, S170.	0.1	0
62	Class I small leucine-rich proteoglycans (SLRPs) colocalise with the $A\beta$ 2M amyloid deposits: implications for the roles of SLRP core proteins in the pathogenesis of dialysis-related amyloidosis. Amyloid: the International Journal of Experimental and Clinical Investigation: the Official Journal of the International Society of Amyloidosis, 2019, 26, 140-141.	3.0	0
63	Flavopiridol inhibits interleukin-6 secretion via degradation of RNA polymerase II in multi-cytokine-producing Th1-6 cells originally established from patient with thymus cancer. Gout and Nucleic Acid Metabolism, 2010, 34, 179-187.	0.0	0
64	A Case of Actinomycosis with Tumor-like Invasion to the Intra and Extra Peritoneal Cavity Involving from the Subhepatic Space to the Right Gluteal Region. Nihon Rinsho Geka Gakkai Zasshi (Journal of) Tj ETQq0 0 0 rgBT /Overdock 10 Tf	0.0	0
65	Elderly onset congenital hepatic fibrosis with portal hypertension diagnosed after recurrent cholangitis: a case report. Clinical Journal of Gastroenterology, 2022, , 1.	0.8	0