

# Tamotsu Zako

## List of Publications by Year in descending order

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Version: 2024-02-01

82  
papers

1,991  
citations

304368

22  
h-index

264894

42  
g-index

83  
all docs

83  
docs citations

83  
times ranked

2961  
citing authors

#	ARTICLE	IF	CITATIONS
1	Recent advances in research on biointerfaces: From cell surfaces to artificial interfaces. <i>Journal of Bioscience and Bioengineering</i> , 2022, , .	1.1	6
2	Insulin-derived amyloidosis (insulin ball) and skin-related complications of insulin therapy. <i>Proceedings for Annual Meeting of the Japanese Pharmacological Society</i> , 2022, 95, 3-S34-3.	0.0	0
3	Colorimetric detection of thrombin based on signal amplification by transcription-reverse transcription concerted reaction using non-crosslinking aggregation of gold nanoparticles. <i>Analytical Sciences</i> , 2022, 38, 3-7.	0.8	5
4	Differences in interaction lead to the formation of different types of insulin amyloid. <i>Scientific Reports</i> , 2022, 12, .	1.6	4
5	Insulin amyloid fibrils interact directly with the NLRP3, resulting in inflammasome activation and pyroptotic cell death. <i>International Journal of Immunopathology and Pharmacology</i> , 2021, 35, 205873842110383.	1.0	4
6	Molecular detection using aptamer-modified gold nanoparticles with an immobilized DNA brush for the prevention of non-specific aggregation. <i>RSC Advances</i> , 2021, 11, 11984-11991.	1.7	10
7	Protein-Functionalized Gold Nanoparticles for Antibody Detection Using the Darkfield Microscopic Observation of Nanoparticle Aggregation. <i>Analytical Sciences</i> , 2021, 37, 507-511.	0.8	8
8	Degradation of insulin amyloid by antibiotic minocycline and formation of toxic intermediates. <i>Scientific Reports</i> , 2021, 11, 6857.	1.6	9
9	Transcription-Based Amplified Colorimetric Thrombin Sensor Using Non-Crosslinking Aggregation of DNA-Modified Gold Nanoparticles. <i>Sensors</i> , 2021, 21, 4318.	2.1	9
10	Inhibition of amyloid formation of amyloid $\beta$ (1-42), amylin and insulin by 1,5-diazacyclooctanes, a spermine-acrolein conjugate. <i>Bioorganic and Medicinal Chemistry</i> , 2021, 46, 116391.	1.4	3
11	Signal-amplified Colorimetric Biosensors Using Gold Nanoparticles. <i>Bunseki Kagaku</i> , 2021, 70, 661-670.	0.1	1
12	Insulin-derived amyloidosis without a palpable mass at the insulin injection site: A report of two cases. <i>Journal of Diabetes Investigation</i> , 2020, 11, 1002-1005.	1.1	18
13	Insulin amyloid polymorphs: implications for iatrogenic cytotoxicity. <i>RSC Advances</i> , 2020, 10, 37721-37727.	1.7	12
14	Clinical and MRI characteristics and follow-up studies of insulin-derived amyloidosis. <i>Amyloid: the International Journal of Experimental and Clinical Investigation: the Official Journal of the International Society of Amyloidosis</i> , 2019, 26, 156-157.	1.4	4
15	Toxicity of insulin-derived amyloidosis: a case report. <i>BMC Endocrine Disorders</i> , 2019, 19, 61.	0.9	40
16	Detection of Gold Nanoparticles Aggregation Using Light Scattering for Molecular Sensing. <i>Analytical Sciences</i> , 2019, 35, 685-690.	0.8	16
17	Molecular chaperone prefoldin-assisted biosynthesis of gold nanoparticles with improved size distribution and dispersion. <i>Biomaterials Science</i> , 2019, 7, 1801-1804.	2.6	5
18	Analysis of the degradation of amyloid beta fibrils after separation via the combination of non-denaturing agarose electrophoresis and Congo red dye staining. <i>Separation Science Plus</i> , 2019, 2, 322-328.	0.3	3

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19	Construction of Quenchbodies to detect and image amyloid $\beta$ oligomers. <i>Analytical Biochemistry</i> , 2018, 550, 61-67.	1.1	15
20	Prefoldin, a jellyfish-like molecular chaperone: functional cooperation with a group II chaperonin and beyond. <i>Biophysical Reviews</i> , 2018, 10, 339-345.	1.5	25
21	IAPP/amylin deposition, which is correlated with expressions of ASC and IL-1 $\beta$ in $\beta$ -cells of Langerhans $\beta$ ™ islets, directly initiates NLRP3 inflammasome activation. <i>International Journal of Immunopathology and Pharmacology</i> , 2018, 32, 205873841878874.	1.0	23
22	Dark field microscopic analysis of discrete Au nanostructures: Understanding the correlation of scattering with stoichiometry. <i>Chemical Physics Letters</i> , 2017, 684, 310-315.	1.2	6
23	Contribution of the C-Terminal Region of a Group II Chaperonin to its Interaction with Prefoldin and Substrate Transfer. <i>Journal of Molecular Biology</i> , 2016, 428, 2405-2417.	2.0	9
24	Amorphous protein aggregation monitored using fluorescence self-quenching. <i>FEBS Letters</i> , 2016, 590, 3501-3509.	1.3	15
25	Dark Field Microscopic Sensitive Detection of Amyloid Fibrils Using Gold Nanoparticles Modified with Antibody. <i>Analytical Sciences</i> , 2016, 32, 307-311.	0.8	12
26	Inhibition of Amyloid $\beta$ Protein Fibrillation via Carboxypeptidase Y after Protein Trapping Using Immunoaffinity Membranes. <i>Chemistry Letters</i> , 2016, 45, 1241-1243.	0.7	3
27	1,5-Diazacyclooctanes, as Exclusive Oxidative Polyamine Metabolites, Inhibit Amyloid $\beta$ (1-40) Fibrillization. <i>Advanced Science</i> , 2016, 3, 1600082.	5.6	16
28	Oxidative Stress: 1,5-Diazacyclooctanes, as Exclusive Oxidative Polyamine Metabolites, Inhibit Amyloid- $\beta$ (1-40) Fibrillization (Adv. Sci. 10/2016). <i>Advanced Science</i> , 2016, 3, .	5.6	0
29	Extra-luminal detection of assumed colonic tumor site by near-infrared laparoscopy. <i>Surgical Endoscopy and Other Interventional Techniques</i> , 2016, 30, 4153-4159.	1.3	11
30	Adsorption and separation of amyloid beta aggregates using ferromagnetic nanoparticles coated with charged polymer brushes. <i>Journal of Materials Chemistry B</i> , 2015, 3, 3351-3357.	2.9	7
31	NADH oxidase and alkyl hydroperoxide reductase subunit C (peroxiredoxin) from <i>Amphibacillus xylanus</i> form an oligomeric assembly. <i>FEBS Open Bio</i> , 2015, 5, 124-131.	1.0	6
32	Cancer-targeted near infrared imaging using rare earth ion-doped ceramic nanoparticles. <i>Biomaterials Science</i> , 2015, 3, 59-64.	2.6	46
33	Cysteine inhibits amyloid fibrillation of lysozyme and directs the formation of small worm-like aggregates through non-covalent interactions. <i>Biotechnology Progress</i> , 2014, 30, 470-478.	1.3	17
34	Degeneration of amyloid- $\beta$ fibrils caused by exposure to low-temperature atmospheric-pressure plasma in aqueous solution. <i>Applied Physics Letters</i> , 2014, 104, .	1.5	18
35	Cysteine inhibits the fibrillisation and cytotoxicity of amyloid- $\beta$ 40 and 42: implications for the contribution of the thiophilic interaction. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 3566.	1.3	10
36	Application of biomaterials for the detection of amyloid aggregates. <i>Biomaterials Science</i> , 2014, 2, 951-955.	2.6	12

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37	Detection of DNA induced gold nanoparticle aggregation with dark field imaging. Chemical Communications, 2013, 49, 7531.	2.2	35
38	Formation of non-toxic A $\beta$ fibrils by small heat shock protein under heat-stress conditions. Biochemical and Biophysical Research Communications, 2013, 430, 1259-1264.	1.0	5
39	Rapid Surface-Biostructure Interaction Analysis Using Strong Metal-Based Nanomagnets. Langmuir, 2013, 29, 14117-14123.	1.6	2
40	Human Prefoldin Inhibits Amyloid- $\beta$ (A $\beta$ ) Fibrillation and Contributes to Formation of Nontoxic A $\beta$ Aggregates. Biochemistry, 2013, 52, 3532-3542.	1.2	43
41	Prefoldin Protects Neuronal Cells from Polyglutamine Toxicity by Preventing Aggregation Formation. Journal of Biological Chemistry, 2013, 288, 19958-19972.	1.6	49
42	A Structure-Toxicity Study of A $\beta$ 42 Reveals a New Anti-Parallel Aggregation Pathway. PLoS ONE, 2013, 8, e80262.	1.1	41
43	Nanoscope and Photonic Ultrastructural Characterization of Two Distinct Insulin Amyloid States. International Journal of Molecular Sciences, 2012, 13, 1461-1480.	1.8	10
44	Naked-eye Detection of Amyloid Aggregates Using Gold Nanoparticles Modified with Amyloid Beta Antibody. Analytical Sciences, 2012, 28, 73-76.	0.8	18
45	DNA-Templating Mass Production of Gold Trimer Rings for Optical Metamaterials. Journal of Physical Chemistry C, 2012, 116, 15028-15033.	1.5	21
46	Amyloid oligomer detection by immobilized molecular chaperone. Biochemical Engineering Journal, 2012, 61, 28-33.	1.8	6
47	Cell Interaction Study of Amyloid by Using Luminescent Conjugated Polythiophene: Implication that Amyloid Cytotoxicity Is Correlated with Prolonged Cellular Binding. ChemBioChem, 2012, 13, 358-363.	1.3	12
48	2C1524 Newly developed photon counting histogram method for amyloid beta oligomer formation (Protein: Function 1, The 48th Annual Meeting of the Biophysical Society of Japan). Seibutsu Butsuri, 2011, 51, S79.	0.0	0
49	Immobilized Insulin Amyloid Enhances Cell Adhesion and Proliferation Due to Interaction with Fibronectin. Chemistry Letters, 2011, 40, 315-317.	0.7	2
50	Nuclear Exportin Receptor CAS Regulates the NPI-Mediated Nuclear Import of HIV-1 Vpr. PLoS ONE, 2011, 6, e27815.	1.1	19
51	1P085 Amyloid beta oligomer studied by photon counting histogram (Protein: Function, The 48th Annual Meeting of the Biophysical Society of Japan). Tj ETQq1 1.0784314 rgBT / Qv	0.0	0
52	Size-selective recognition of gold nanoparticles by a molecular chaperone. Chemical Physics Letters, 2010, 501, 108-112.	1.2	8
53	Amyloid oligomers. FEBS Journal, 2010, 277, 1347-1347.	2.2	2
54	Amyloid oligomers: formation and toxicity of A $\beta$ oligomers. FEBS Journal, 2010, 277, 1348-1358.	2.2	508

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55	Thermodynamic Characterization of the Interaction between Prefoldin and Group II Chaperonin. <i>Journal of Molecular Biology</i> , 2010, 399, 628-636.	2.0	16
56	Hyperthermophilic archaeal prefoldin shows refolding activity at low temperature. <i>Biochemical and Biophysical Research Communications</i> , 2010, 391, 467-470.	1.0	7
57	A facile method towards cyclic assembly of gold nanoparticles using DNA template alone. <i>Chemical Communications</i> , 2010, 46, 6132.	2.2	24
58	Bio-supramolecular photochirogenesis with molecular chaperone: enantiodifferentiating photocyclodimerization of 2-anthracenecarboxylate mediated by prefoldin. <i>Photochemical and Photobiological Sciences</i> , 2010, 9, 655-660.	1.6	21
59	Cyclic RGD peptide-labeled upconversion nanophosphors for tumor cell-targeted imaging. <i>Biochemical and Biophysical Research Communications</i> , 2009, 381, 54-58.	1.0	104
60	Bovine Insulin Filaments Induced by Reducing Disulfide Bonds Show a Different Morphology, Secondary Structure, and Cell Toxicity from Intact Insulin Amyloid Fibrils. <i>Biophysical Journal</i> , 2009, 96, 3331-3340.	0.2	111
61	Dynamics of group II chaperonin and prefoldin probed by <sup>13</sup> C NMR spectroscopy. <i>Proteins: Structure, Function and Bioinformatics</i> , 2008, 70, 1257-1263.	1.5	8
62	Improvement of dispersion stability and characterization of upconversion nanophosphors covalently modified with PEG as a fluorescence bioimaging probe. <i>Journal of Materials Science</i> , 2008, 43, 5325-5330.	1.7	47
63	Formation of highly toxic soluble amyloid beta oligomers by the molecular chaperone prefoldin. <i>FEBS Journal</i> , 2008, 275, 5982-5993.	2.2	55
64	Measuring Adsorption of a Hydrophobic Probe with a Surface Plasmon Resonance Sensor to Monitor Conformational Changes in Immobilized Proteins. <i>Biotechnology Progress</i> , 2008, 19, 1348-1354.	1.3	19
65	Effect of the C-terminal Truncation on the Functional Cycle of Chaperonin GroEL. <i>Journal of Biological Chemistry</i> , 2008, 283, 23931-23939.	1.6	30
66	3P-O33 Analysis of Ab oligomer formation by photon counting histogram (PCH) and fluorescence correlation spectroscopy (FCS)(The 46th Annual Meeting of the Biophysical Society of Japan). <i>Seibutsu Butsuri</i> , 2008, 48, S132.	0.0	0
67	Selectivity improvement in protein nanopatterning with a hydroxy-terminated self-assembled monolayer template. <i>Nanotechnology</i> , 2007, 18, 305304.	1.3	16
68	3P314 Single-molecule analysis of the complex formed between molecular chaperone prefoldin and amyloid beta(Bioimaging,Poster Presentations). <i>Seibutsu Butsuri</i> , 2007, 47, S281.	0.0	0
69	Complex formation of CdSe/ZnS/TOPO nanocrystal vs. molecular chaperone in aqueous solution by hydrophobic interaction. <i>Journal of Luminescence</i> , 2007, 127, 192-197.	1.5	6
70	Localization of Prefoldin Interaction Sites in the Hyperthermophilic Group II Chaperonin and Correlations between Binding Rate and Protein Transfer Rate. <i>Journal of Molecular Biology</i> , 2006, 364, 110-120.	2.0	42
71	2P103 Characterization of flexible insulin fibrils induced by reducing agent(31. Protein folding and) Tj ETQq1 1 0.784314 rgBT /Overl 2006, 46, S321.	0.0	0
72	Contribution of the C-terminal region to the thermostability of the archaeal group II chaperonin from <i>Thermococcus</i> sp. strain KS-1. <i>Extremophiles</i> , 2006, 10, 451-459.	0.9	20

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73	Characterization of Archaeal Group II Chaperonin-ADP-Metal Fluoride Complexes. <i>Journal of Biological Chemistry</i> , 2005, 280, 40375-40383.	1.6	29
74	Interaction of a Small Heat Shock Protein of the Fission Yeast, <i>Schizosaccharomyces pombe</i> , with a Denatured Protein at Elevated Temperature. <i>Journal of Biological Chemistry</i> , 2005, 280, 32586-32593.	1.6	19
75	Micropatterning Oligonucleotides on Single-Crystal Diamond Surface by Photolithography. <i>Japanese Journal of Applied Physics</i> , 2005, 44, L295-L298.	0.8	8
76	Facilitated release of substrate protein from prefoldin by chaperonin. <i>FEBS Letters</i> , 2005, 579, 3718-3724.	1.3	44
77	The role of firefly luciferase C-terminal domain in efficient coupling of adenylation and oxidative steps. <i>FEBS Letters</i> , 2005, 579, 4389-4394.	1.3	22
78	Role of the Helical Protrusion in the Conformational Change and Molecular Chaperone Activity of the Archaeal Group II Chaperonin. <i>Journal of Biological Chemistry</i> , 2004, 279, 18834-18839.	1.6	41
79	Kinetics and Binding Sites for Interaction of the Prefoldin with a Group II Chaperonin. <i>Journal of Biological Chemistry</i> , 2004, 279, 31788-31795.	1.6	53
80	The immobilization of DNA on microstructured patterns fabricated by maskless lithography. <i>Sensors and Actuators B: Chemical</i> , 2004, 97, 243-248.	4.0	29
81	Preferential immobilization of biomolecules on silicon microstructure array by means of electron beam lithography on organosilane self-assembled monolayer resist. <i>Applied Surface Science</i> , 2004, 234, 102-106.	3.1	24
82	Refolding of Firefly Luciferase Immobilized on Agarose Beads. <i>Journal of Biochemistry</i> , 2000, 127, 351-354.	0.9	7