

# Wataru Aoki

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3888985/publications.pdf>

Version: 2024-02-01

84  
papers

1,617  
citations

361045

20  
h-index

344852

36  
g-index

90  
all docs

90  
docs citations

90  
times ranked

2519  
citing authors

#	ARTICLE	IF	CITATIONS
1	Production of Single-Domain Antibodies in <i>Pichia pastoris</i> . <i>Methods in Molecular Biology</i> , 2022, 2446, 181-203.	0.4	2
2	A critical role of an oxygen-responsive gene for aerobic nitrogenase activity in <i>Azotobacter vinelandii</i> and its application to <i>Escherichia coli</i> . <i>Scientific Reports</i> , 2022, 12, 4182.	1.6	7
3	Characterization of xanthine oxidase from <i>Cellulosimicrobium funkei</i> possessing hypoxanthineâ€metabolizing activity. <i>Journal of Applied Microbiology</i> , 2021, 130, 2132-2140.	1.4	0
4	Identification of a Putative Sensor Protein Involved in Regulation of Vesicle Production by a Hypervesiculating Bacterium, <i>Shewanella vesiculosa</i> HM13. <i>Frontiers in Microbiology</i> , 2021, 12, 629023.	1.5	3
5	Peptide barcoding for multiplex evaluation of affinities of nanobody libraries. <i>FASEB Journal</i> , 2021, 35, .	0.2	0
6	Development of a yeast cell surface display method using the SpyTag/SpyCatcher system. <i>Scientific Reports</i> , 2021, 11, 11059.	1.6	11
7	Selected Reaction Monitoring Method for The Quantification of <i>Escherichia coli</i> Ribosomal Proteins. <i>FASEB Journal</i> , 2021, 35, .	0.2	0
8	Sustainable Biological Ammonia Production towards a Carbon-Free Society. <i>Sustainability</i> , 2021, 13, 9496.	1.6	6
9	Specific chemical modification explores dynamic structure of the NqrB subunit in Na <sup>+</sup> -pumping NADH-ubiquinone oxidoreductase from <i>Vibrio cholerae</i> . <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2021, 1862, 148432.	0.5	4
10	A three-component monooxygenase from <i>Rhodococcus wratislaviensis</i> may expand industrial applications of bacterial enzymes. <i>Communications Biology</i> , 2021, 4, 16.	2.0	6
11	Improved ammonia production from soybean residues by cell surface-displayed <scp> </scp>-amino acid oxidase on yeast. <i>Bioscience, Biotechnology and Biochemistry</i> , 2021, 85, 972-980.	0.6	7
12	Peptide barcoding for one-pot evaluation of sequenceâ€function relationships of nanobodies. <i>Scientific Reports</i> , 2021, 11, 21516.	1.6	1
13	Enzyme systems involved in glucosinolate metabolism in <i>Companilactobacillus farciminis</i> KB1089. <i>Scientific Reports</i> , 2021, 11, 23715.	1.6	8
14	YAP1 mediates survival of ALK-rearranged lung cancer cells treated with alectinib via pro-apoptotic protein regulation. <i>Nature Communications</i> , 2020, 11, 74.	5.8	49
15	Neuronal subclass-selective proteomic analysis in <i>Caenorhabditis elegans</i> . <i>Scientific Reports</i> , 2020, 10, 13840.	1.6	6
16	Dramatic dietary shift maintains sequestered toxins in chemically defended snakes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 5964-5969.	3.3	21
17	A Zeaxanthin-Producing Bacterium Isolated from the Algal Phycosphere Protects Coral Endosymbionts from Environmental Stress. <i>MBio</i> , 2020, 11, .	1.8	49
18	Evaluation of the yeast surface display system for screening of functional nanobodies. <i>AMB Express</i> , 2020, 10, 51.	1.4	14

#	ARTICLE	IF	CITATIONS
19	Construction of engineered yeast producing ammonia from glutamine and soybean residues (okara). <i>AMB Express</i> , 2020, 10, 70.	1.4	10
20	Efficient ammonia production from food by-products by engineered <i>Escherichia coli</i> . <i>AMB Express</i> , 2020, 10, 150.	1.4	10
21	Development and improvement of "functional neural cellomics"™ to elucidate the structure-function relationships of neural networks of <i>Caenorhabditis elegans</i> . <i>FASEB Journal</i> , 2020, 34, 1-1.	0.2	0
22	Selected reaction monitoring for the quantification of <i>Escherichia coli</i> ribosomal proteins. <i>PLoS ONE</i> , 2020, 15, e0236850.	1.1	1
23	Prompt and Convenient Preparation of Oral Vaccines Using Yeast Cell Surface Display. <i>Fungal Biology</i> , 2020, , 127-136.	0.3	0
24	Peptide barcoding for high-throughput functional evaluation of antibodies without immobilization. <i>FASEB Journal</i> , 2020, 34, 1-1.	0.2	0
25	Evaluation of meter-long monolithic columns for selected reaction monitoring mass spectrometry. <i>Journal of Bioscience and Bioengineering</i> , 2019, 128, 379-383.	1.1	3
26	High-throughput identification of peptide agonists against GPCRs by co-culture of mammalian reporter cells and peptide-secreting yeast cells using droplet microfluidics. <i>Scientific Reports</i> , 2019, 9, 10920.	1.6	16
27	Domain swapping of complementarity-determining region in nanobodies produced by <i>Pichia pastoris</i> . <i>AMB Express</i> , 2019, 9, 107.	1.4	2
28	Pentenediol-Type Compounds Specifically Bind to Voltage-Dependent Anion Channel 1 in <i>Saccharomyces cerevisiae</i> Mitochondria. <i>Biochemistry</i> , 2019, 58, 1141-1154.	1.2	4
29	Temporal proteome dynamics of <i>Clostridium cellulovorans</i> cultured with major plant cell wall polysaccharides. <i>BMC Microbiology</i> , 2019, 19, 118.	1.3	9
30	Peptide barcoding for establishment of new types of genotype-phenotype linkages. <i>PLoS ONE</i> , 2019, 14, e0215993.	1.1	9
31	Engineering Antibodies and Alternative Binders for Therapeutic Uses. , 2019, , 123-147.		2
32	Comparative Proteomic Analysis of <i>Lithospermum erythrorhizon</i> Reveals Regulation of a Variety of Metabolic Enzymes Leading to Comprehensive Understanding of the Shikonin Biosynthetic Pathway. <i>Plant and Cell Physiology</i> , 2019, 60, 19-28.	1.5	35
33	Alectinib Resistance in ALK-Rearranged Lung Cancer by Dual Salvage Signaling in a Clinically Paired Resistance Model. <i>Molecular Cancer Research</i> , 2019, 17, 212-224.	1.5	41
34	<i>Ruegeria</i> sp. Strains Isolated from the Reef-Building Coral <i>Galaxea fascicularis</i> Inhibit Growth of the Temperature-Dependent Pathogen <i>Vibrio coralliilyticus</i> . <i>Marine Biotechnology</i> , 2019, 21, 1-8.	1.1	53
35	Analysis of neural networks of <i>Caenorhabditis elegans</i> by functional cellomics. <i>FASEB Journal</i> , 2019, 33, 791.21.	0.2	0
36	Reconstruction of biological subsystems using bottom-up genetics. <i>FASEB Journal</i> , 2019, 33, 641.1.	0.2	0

#	ARTICLE	IF	CITATIONS
37	Advantages of proteomics using meter-long monolithic columns with small inner diameter. <i>FASEB Journal</i> , 2019, 33, 475.8.	0.2	0
38	One-step nanoimprinted hybrid micro-/nano-structure for in situ protein detection of isolated cell array via localized surface plasmon resonance. <i>Japanese Journal of Applied Physics</i> , 2018, 57, 03EC03.	0.8	7
39	Epoxy-cyclohexenedione-Type Compounds Make Up a New Class of Inhibitors of the Bovine Mitochondrial ADP/ATP Carrier. <i>Biochemistry</i> , 2018, 57, 1031-1044.	1.2	1
40	Protection of Coral Larvae from Thermally Induced Oxidative Stress by Redox Nanoparticles. <i>Marine Biotechnology</i> , 2018, 20, 542-548.	1.1	12
41	Comparative multi-omics analysis reveals diverse latex-based defense strategies against pests among latex-producing organs of the fig tree ( <i>Ficus carica</i> ). <i>Planta</i> , 2018, 247, 1423-1438.	1.6	31
42	Molecular and Physiological Study of <i>Candida albicans</i> by Quantitative Proteome Analysis. <i>Proteomes</i> , 2018, 6, 34.	1.7	4
43	Detection of betacyanin in red-tube spinach ( <i>Spinacia oleracea</i> ) and its biofortification by strategic hydroponics. <i>PLoS ONE</i> , 2018, 13, e0203656.	1.1	6
44	Apoptosis-derived membrane vesicles drive the cGAS-STING pathway and enhance type I IFN production in systemic lupus erythematosus. <i>Annals of the Rheumatic Diseases</i> , 2018, 77, 1507-1515.	0.5	164
45	Cellomics approach for high-throughput functional annotation of <i>Caenorhabditis elegans</i> neural network. <i>Scientific Reports</i> , 2018, 8, 10380.	1.6	8
46	Small RNAs detected in exosomes derived from the MH7A synovial fibroblast cell line with TNF- $\alpha$ stimulation. <i>PLoS ONE</i> , 2018, 13, e0201851.	1.1	25
47	High-throughput evaluation of T7 promoter variants using biased randomization and DNA barcoding. <i>PLoS ONE</i> , 2018, 13, e0196905.	1.1	25
48	Metabolite profiling of the fermentation process of "yamahai-ginjo-shikomi" Japanese sake. <i>PLoS ONE</i> , 2018, 13, e0190040.	1.1	23
49	Folate Biofortification in Hydroponically Cultivated Spinach by the Addition of Phenylalanine. <i>Journal of Agricultural and Food Chemistry</i> , 2017, 65, 4605-4610.	2.4	22
50	Definitive screening design enables optimization of LC-ESI-MS/MS parameters in proteomics. <i>Bioscience, Biotechnology and Biochemistry</i> , 2017, 81, 2237-2243.	0.6	6
51	Pinpoint Chemical Modification of the Quinone-Access Channel of Mitochondrial Complex I via a Two-Step Conjugation Reaction. <i>Biochemistry</i> , 2017, 56, 4279-4287.	1.2	8
52	Ammonia production from amino acid-based biomass-like sources by engineered <i>Escherichia coli</i> . <i>AMB Express</i> , 2017, 7, 83.	1.4	22
53	Molecular changes in appearance of a cancer cell among normal HEK293T cells. <i>Journal of Bioscience and Bioengineering</i> , 2017, 123, 281-286.	1.1	0
54	Aspartic Proteases and Major Cell Wall Components in <i>Candida albicans</i> Trigger the Release of Neutrophil Extracellular Traps. <i>Frontiers in Cellular and Infection Microbiology</i> , 2017, 7, 414.	1.8	70

#	ARTICLE	IF	CITATIONS
55	Inactivation of $\alpha$ 1-proteinase inhibitor by <i>Candida albicans</i> aspartic proteases favors the epithelial and endothelial cell colonization in the presence of neutrophil extracellular traps.. <i>Acta Biochimica Polonica</i> , 2016, 63, 167-175.	0.3	11
56	The action of ten secreted aspartic proteases of pathogenic yeast <i>Candida albicans</i> on major human salivary antimicrobial peptide, histatin 5. <i>Acta Biochimica Polonica</i> , 2016, 63, 403-10.	0.3	17
57	A comparative proteomics study of a synovial cell line stimulated with TNF $\alpha$ . <i>FEBS Open Bio</i> , 2016, 6, 418-424.	1.0	9
58	Transcriptome and proteome analyses provide insight into laticifer's defense of <i>Euphorbia tirucalli</i> against pests. <i>Plant Physiology and Biochemistry</i> , 2016, 108, 434-446.	2.8	16
59	Specific Methylation of Asp160 (49 kDa subunit) Located inside the Quinone Binding Cavity of Bovine Mitochondrial Complex I. <i>Biochemistry</i> , 2016, 55, 3189-3197.	1.2	6
60	Reduction of Synthetic Ubiquinone QT Catalyzed by Bovine Mitochondrial Complex I Is Decoupled from Proton Translocation. <i>Biochemistry</i> , 2016, 55, 470-481.	1.2	7
61	Integrating reductive and synthetic approaches in biology using man-made cell-like compartments. <i>Scientific Reports</i> , 2015, 4, 4722.	1.6	6
62	Kinin release from human kininogen by 10 aspartic proteases produced by pathogenic yeast <i>Candida albicans</i> . <i>BMC Microbiology</i> , 2015, 15, 60.	1.3	19
63	Centrifugal microfluidic platform for single-cell level cardiomyocyte-based drug profiling and screening. <i>Lab on A Chip</i> , 2015, 15, 3572-3580.	3.1	17
64	Inactivation of the Antifungal and Immunomodulatory Properties of Human Cathelicidin LL-37 by Aspartic Proteases Produced by the Pathogenic Yeast <i>Candida albicans</i> . <i>Infection and Immunity</i> , 2015, 83, 2518-2530.	1.0	59
65	Inactivation of human kininogen-derived antimicrobial peptides by secreted aspartic proteases produced by the pathogenic yeast <i>Candida albicans</i> . <i>Biological Chemistry</i> , 2015, 396, 1369-1375.	1.2	14
66	Description of the interaction between <i>Candida albicans</i> and macrophages by mixed and quantitative proteome analysis without isolation. <i>AMB Express</i> , 2015, 5, 127.	1.4	22
67	Single cell trapping and cell-cell interaction monitoring of cardiomyocytes in a designed microfluidic chip. <i>Sensors and Actuators B: Chemical</i> , 2015, 207, 43-50.	4.0	27
68	Oral Immunization Against Candidiasis Using <i>Lactobacillus casei</i> Displaying Enolase 1 from <i>Candida albicans</i> . <i>Scientia Pharmaceutica</i> , 2014, 82, 697-708.	0.7	19
69	Evaluation of Mdh1 Protein as an Antigenic Candidate for a Vaccine against Candidiasis. <i>Biocontrol Science</i> , 2014, 19, 51-55.	0.2	22
70	Mixed proteome analysis for clarification of the mechanism of infectious candidiasis (152.6). <i>FASEB Journal</i> , 2014, 28, 152.6.	0.2	0
71	Elucidation of potentially virulent factors of <i>Candida albicans</i> during serum adaptation by using quantitative time-course proteomics. <i>Journal of Proteomics</i> , 2013, 91, 417-429.	1.2	18
72	An oral vaccine against candidiasis generated by a yeast molecular display system. <i>Pathogens and Disease</i> , 2013, 69, 262-268.	0.8	44

#	ARTICLE	IF	CITATIONS
73	Detection of <i>Candida albicans</i> by using a designed fluorescence-quenched peptide. <i>Journal of Bioscience and Bioengineering</i> , 2013, 116, 573-575.	1.1	4
74	Secreted aspartic peptidases of <i>Candida albicans</i> liberate bactericidal hemocidins from human hemoglobin. <i>Peptides</i> , 2013, 48, 49-58.	1.2	18
75	Characterization of Antimicrobial Peptides toward the Development of Novel Antibiotics. <i>Pharmaceuticals</i> , 2013, 6, 1055-1081.	1.7	202
76	Time-course proteomic profile of <i>Candida albicans</i> during adaptation to a fetal serum. <i>Pathogens and Disease</i> , 2013, 67, 67-75.	0.8	26
77	Design of a Novel Antimicrobial Peptide Activated by Virulent Proteases. <i>Chemical Biology and Drug Design</i> , 2012, 80, 725-733.	1.5	6
78	Next generation of antimicrobial peptides as molecular targeted medicines. <i>Journal of Bioscience and Bioengineering</i> , 2012, 114, 365-370.	1.1	63
79	<i>Candida albicans</i> Possesses Sap7 as a Pepstatin A-Insensitive Secreted Aspartic Protease. <i>PLoS ONE</i> , 2012, 7, e32513.	1.1	26
80	Profiling of adhesive properties of the agglutinin-like sequence (ALS) protein family, a virulent attribute of <i>Candida albicans</i> . <i>FEMS Immunology and Medical Microbiology</i> , 2012, 65, 121-124.	2.7	20
81	<i>Candida albicans</i> exhibits a pepstatin A-insensitive secreted aspartic protease as a virulence factor. <i>FASEB Journal</i> , 2012, 26, 557.1.	0.2	0
82	Comprehensive characterization of secreted aspartic proteases encoded by a virulence gene family in <i>Candida albicans</i> . <i>Journal of Biochemistry</i> , 2011, 150, 431-438.	0.9	75
83	High-throughput screening of improved protease inhibitors using a yeast cell surface display system and a yeast cell chip. <i>Journal of Bioscience and Bioengineering</i> , 2011, 111, 16-18.	1.1	15
84	Cell-surface modification of non-GMO without chemical treatment by novel GMO-coupled and -separated cocultivation method. <i>Applied Microbiology and Biotechnology</i> , 2009, 82, 293-301.	1.7	4