

István Nagy

List of Publications by Year in descending order

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79
papers

2,756
citations

218677

26
h-index

197818

49
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79
all docs

79
docs citations

79
times ranked

3703
citing authors

#	ARTICLE	IF	CITATIONS
1	Genome-wide analysis captures the determinants of the antibiotic cross-resistance interaction network. <i>Nature Communications</i> , 2014, 5, 4352.	12.8	195
2	A highly precise and portable genome engineering method allows comparison of mutational effects across bacterial species. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 2502-2507.	7.1	190
3	Proteasomes and other self-compartmentalizing proteases in prokaryotes. <i>Trends in Microbiology</i> , 1999, 7, 88-92.	7.7	154
4	The proteasomal subunit Rpn6 is a molecular clamp holding the core and regulatory subcomplexes together. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 149-154.	7.1	136
5	Crystal structure of the proteasomal deubiquitylation module Rpn8-Rpn11. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 2984-2989.	7.1	120
6	Insights into the molecular architecture of the 26S proteasome. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 11943-11947.	7.1	116
7	Localization of the proteasomal ubiquitin receptors Rpn10 and Rpn13 by electron cryomicroscopy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 1479-1484.	7.1	114
8	Expanded Coverage of the 26S Proteasome Conformational Landscape Reveals Mechanisms of Peptidase Gating. <i>Cell Reports</i> , 2018, 24, 1301-1315.e5.	6.4	108
9	Characterization of ARC, a divergent member of the AAA ATPase family from <i>Rhodococcus erythropolis</i> . <i>Journal of Molecular Biology</i> , 1998, 277, 13-25.	4.2	107
10	High-resolution structure and biophysical characterization of the nucleocapsid phosphoprotein dimerization domain from the Covid-19 severe acute respiratory syndrome coronavirus 2. <i>Biochemical and Biophysical Research Communications</i> , 2021, 538, 54-62.	2.1	100
11	Crystal Structures of the <i>Rhodococcus</i> Proteasome with and without its Pro-peptides: Implications for the Role of the Pro-peptide in Proteasome Assembly. <i>Journal of Molecular Biology</i> , 2004, 335, 233-245.	4.2	80
12	Applied aspects of <i>Rhodococcus</i> genetics. <i>Antonie Van Leeuwenhoek</i> , 1998, 74, 133-153.	1.7	74
13	Structural analysis of the 6 kb cryptic plasmid pFAJ2600 from <i>Rhodococcus erythropolis</i> NI86/21 and construction of <i>Escherichia coli</i> - <i>Rhodococcus</i> shuttle vectors. <i>Microbiology (United Kingdom)</i> , 1997, 143, 3137-3147.	1.8	73
14	Cryo-EM structures of the archaeal PAN-proteasome reveal an around-the-ring ATPase cycle. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 534-539.	7.1	65
15	Subunit topology of the <i>Rhodococcus</i> proteasome. <i>FEBS Letters</i> , 1997, 400, 83-90.	2.8	61
16	Small extracellular vesicles convey the stress-induced adaptive responses of melanoma cells. <i>Scientific Reports</i> , 2019, 9, 15329.	3.3	57
17	Cloning and Heterologous Expression of a β -d-Mannosidase (EC 3.2.1.25)-Encoding Gene from <i>Thermobifida fusca</i> TM51. <i>Applied and Environmental Microbiology</i> , 2003, 69, 1944-1952.	3.1	52
18	Multiplex Touchdown PCR for Rapid Typing of the Opportunistic Pathogen <i>Propionibacterium acnes</i> . <i>Journal of Clinical Microbiology</i> , 2015, 53, 1149-1155.	3.9	51

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19	Eubacterial proteasomes. <i>Molecular Biology Reports</i> , 1997, 24, 125-131.	2.3	48
20	Emergence and evolution of an international cluster of MDR <i>Bacteroides fragilis</i> isolates. <i>Journal of Antimicrobial Chemotherapy</i> , 2016, 71, 2441-2448.	3.0	47
21	Quantitative Proteome and Transcriptome Analysis of the Archaeon <i>Thermoplasma acidophilum</i> Cultured under Aerobic and Anaerobic Conditions. <i>Journal of Proteome Research</i> , 2010, 9, 4839-4850.	3.7	42
22	Anti-Inflammatory Effect of Recreational Exercise in TNBS-Induced Colitis in Rats: Role of NOS/HO/MPO System. <i>Oxidative Medicine and Cellular Longevity</i> , 2014, 2014, 1-11.	4.0	41
23	Melanoma-Derived Exosomes Induce PD-1 Overexpression and Tumor Progression via Mesenchymal Stem Cell Oncogenic Reprogramming. <i>Frontiers in Immunology</i> , 2019, 10, 2459.	4.8	39
24	Stressors alter intercellular communication and exosome profile of nasopharyngeal carcinoma cells. <i>Journal of Oral Pathology and Medicine</i> , 2017, 46, 259-266.	2.7	38
25	Proteome analysis of <i>Streptomyces coelicolor</i> mutants affected in the proteasome system reveals changes in stress-responsive proteins. <i>Archives of Microbiology</i> , 2007, 188, 257-271.	2.2	37
26	Symbiotic Plant Peptides Eliminate <i>Candida albicans</i> Both <i>In Vitro</i> and in an Epithelial Infection Model and Inhibit the Proliferation of Immortalized Human Cells. <i>BioMed Research International</i> , 2014, 2014, 1-9.	1.9	31
27	Characterization of the <i>Rhodococcus</i> sp. NI86/21 gene encoding alcohol: N,N-dimethyl-4-nitrosoaniline oxidoreductase inducible by atrazine and thiocarbamate herbicides. <i>Archives of Microbiology</i> , 1995, 163, 439-446.	2.2	30
28	Chemical-genetic profiling reveals limited cross-resistance between antimicrobial peptides with different modes of action. <i>Nature Communications</i> , 2019, 10, 5731.	12.8	29
29	Localization of the regulatory particle subunit Sem1 in the 26S proteasome. <i>Biochemical and Biophysical Research Communications</i> , 2013, 435, 250-254.	2.1	28
30	Exploring the fitness benefits of genome reduction in <i>Escherichia coli</i> by a selection-driven approach. <i>Scientific Reports</i> , 2020, 10, 7345.	3.3	27
31	Structures of Ebola and Reston Virus VP35 Oligomerization Domains and Comparative Biophysical Characterization in All Ebolavirus Species. <i>Structure</i> , 2019, 27, 39-54.e6.	3.3	26
32	<i>Thermobifida cellulolytica</i> sp. nov., a novel lignocellulose-decomposing actinomycete. <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2002, 52, 1193-1199.	1.7	26
33	Biofungicidal Potential of <i>Neosartorya (Aspergillus) Fischeri</i> Antifungal Protein NFAP and Novel Synthetic $\hat{3}$ -Core Peptides. <i>Frontiers in Microbiology</i> , 2020, 11, 820.	3.5	19
34	<i>De Novo</i> Genome Project of <i>Cupriavidus basilensis</i> OR16. <i>Journal of Bacteriology</i> , 2012, 194, 2109-2110.	2.2	18
35	Proteomics Analysis of <i>Thermoplasma acidophilum</i> with a Focus on Protein Complexes. <i>Molecular and Cellular Proteomics</i> , 2007, 6, 492-502.	3.8	16
36	De Novo Genome Project for the Aromatic Degradar <i>Rhodococcus pyridinivorans</i> Strain AK37. <i>Journal of Bacteriology</i> , 2012, 194, 1247-1248.	2.2	16

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37	Increased insulin-like growth factor 1 production by polyploid adipose stem cells promotes growth of breast cancer cells. <i>BMC Cancer</i> , 2018, 18, 872.	2.6	16
38	CRISPR-interference-based modulation of mobile genetic elements in bacteria. <i>Synthetic Biology</i> , 2019, 4, ysz008.	2.2	16
39	The potential use of the <i>Penicillium chrysogenum</i> antifungal protein PAF, the designed variant PAF ^{opt} and its core peptide P1 ^{opt} in plant protection. <i>Microbial Biotechnology</i> , 2020, 13, 1403-1414.	4.2	16
40	Sequence of a <i>Rhodococcus</i> gene cluster encoding the subunits of ethanolamine ammonia-lyase and an APC-like permease. <i>Canadian Journal of Microbiology</i> , 1994, 40, 403-407.	1.7	15
41	Arabidopsis NAP-related proteins (NRPs) contribute to the coordination of plant growth, developmental rate, and age-related pathogen resistance under short days. <i>Plant Science</i> , 2018, 267, 124-134.	3.6	15
42	Further Sequence Analysis of the DNA Regions with the <i>Rhodococcus</i> 20S Proteasome Structural Genes Reveals Extensive Homology with <i>Mycobacterium leprae</i> . <i>DNA Sequence</i> , 1997, 7, 225-228.	0.7	14
43	Sequences of the cobalamin biosynthetic genes cobK, cobL and cobM from <i>Rhodococcus</i> sp. NI86/21. <i>Gene</i> , 1994, 143, 91-93.	2.2	13
44	The expression of inflammatory cytokines, TAM tyrosine kinase receptors and their ligands is upregulated in venous leg ulcer patients: a novel insight into chronic wound immunity. <i>International Wound Journal</i> , 2016, 13, 554-562.	2.9	13
45	The Role of MicroRNAs upon Epithelial-to-Mesenchymal Transition in Inflammatory Bowel Disease. <i>Cells</i> , 2019, 8, 1461.	4.1	13
46	Functional Anatomical Changes in Ulcerative Colitis Patients Determine Their Gut Microbiota Composition and Consequently the Possible Treatment Outcome. <i>Pharmaceuticals</i> , 2020, 13, 346.	3.8	13
47	Myopia-26, the female-limited form of early-onset high myopia, occurring in a European family. <i>Orphanet Journal of Rare Diseases</i> , 2021, 16, 45.	2.7	13
48	Cloning, Expression and Biochemical Characterization of Endomannanases from Thermobifida Species Isolated from Different Niches. <i>PLoS ONE</i> , 2016, 11, e0155769.	2.5	13
49	A novel splice site TM HCN4 Gene mutation, c.1737 + 1 G > T, causes familial bradycardia, reduced heart rate response, impaired chronotropic competence and increased short-term heart rate variability. <i>International Journal of Cardiology</i> , 2017, 241, 364-372.	1.7	12
50	Cryo-EM structure of the cetacean morbillivirus nucleoprotein-RNA complex. <i>Journal of Structural Biology</i> , 2021, 213, 107750.	2.8	12
51	<i>Micrococcoides hystricis</i> gen. nov., sp. nov., a novel member of the family Micrococcaceae, phylum Actinobacteria. <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2017, 67, 2758-2765.	1.7	12
52	Specific Gene- and MicroRNA-Expression Pattern Contributes to the Epithelial to Mesenchymal Transition in a Rat Model of Experimental Colitis. <i>Mediators of Inflammation</i> , 2017, 2017, 1-9.	3.0	11
53	A novel <i>Bacteroides</i> metallo- β -lactamase (MBL) and its gene (<i>crxA</i>) in <i>Bacteroides xylanisolvans</i> revealed by genomic sequencing and functional analysis. <i>Journal of Antimicrobial Chemotherapy</i> , 2022, 77, 1553-1556.	3.0	11
54	Relaxed chromatin induced by histone deacetylase inhibitors improves the oligonucleotide-directed gene editing in plant cells. <i>Journal of Plant Research</i> , 2018, 131, 179-189.	2.4	10

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55	Cyclophilin D-dependent mitochondrial permeability transition amplifies inflammatory reprogramming in endotoxemia. <i>FEBS Open Bio</i> , 2021, 11, 684-704.	2.3	10
56	Characterization of a Novel Intracellular Endopeptidase of the $\hat{I}\pm/\hat{I}^2$ Hydrolase Family from <i>Streptomyces coelicolor</i> A3(2). <i>Journal of Bacteriology</i> , 2003, 185, 496-503.	2.2	9
57	Size distribution of native cytosolic proteins of <i>Thermoplasma acidophilum</i> . <i>Proteomics</i> , 2009, 9, 3783-3786.	2.2	9
58	Elevated Expression of <i>AXL</i> May Contribute to the Epithelial-to-Mesenchymal Transition in Inflammatory Bowel Disease Patients. <i>Mediators of Inflammation</i> , 2018, 2018, 1-11.	3.0	9
59	A self-compartmentalizing protease in <i>Rhodococcus</i> : the 20S proteasome. <i>Antonie Van Leeuwenhoek</i> , 1998, 74, 83-87.	1.7	8
60	Sequence of the <i>cobA</i> gene encoding : uroporphyrinogen III methyltransferase of <i>Pseudomonas fluorescens</i> . <i>Gene</i> , 1994, 150, 199-200.	2.2	6
61	<i>Cellvibrio polysaccharolyticus</i> sp. nov., a cellulolytic bacterium isolated from agricultural soil. <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2021, 71, .	1.7	6
62	Characterization of the <i>Rhodococcus</i> sp. NI86/21 gene encoding alcohol: N,N?-dimethyl-4-nitrosoaniline oxidoreductase inducible by atrazine and thiocarbamate herbicides. <i>Archives of Microbiology</i> , 1995, 163, 439-446.	2.2	6
63	Identification of a <i>Rhodococcus</i> Gene Cluster Encoding a Homolog of the 17-kDa Antigen of <i>Brucella</i> and a Putative Regulatory Protein of the <i>AsnC-Lrp</i> Family. <i>Current Microbiology</i> , 1996, 33, 26-30.	2.2	5
64	Sequence of a <i>Rhodococcus</i> gene encoding a protein with extensive homology to the mammalian propionyl-CoA carboxylase beta chain. <i>Gene</i> , 1992, 122, 199-202.	2.2	4
65	Lipoprotein-like particles in a prokaryote: quinone droplets of <i>Thermoplasma acidophilum</i> . <i>FEMS Microbiology Letters</i> , 2016, 363, fnw169.	1.8	4
66	Transcriptome Based Profiling of the Immune Cell Gene Signature in Rat Experimental Colitis and Human IBD Tissue Samples. <i>Biomolecules</i> , 2020, 10, 974.	4.0	4
67	In planta test system for targeted cellular mutagenesis by injection of oligonucleotides to apical meristem of maize seedlings. <i>Acta Physiologiae Plantarum</i> , 2021, 43, 1.	2.1	4
68	<i>Bradyrhizobium diazoefficiens</i> USDA110 Nodulation of <i>Aeschynomene afraspera</i> Is Associated with Atypical Terminal Bacteroid Differentiation and Suboptimal Symbiotic Efficiency. <i>MSystems</i> , 2021, 6, .	3.8	4
69	Sequence Analysis of the Oxidase/Reductase Genes Upstream of the <i>Rhodococcus erythropolis</i> Aldehyde Dehydrogenase Gene <i>thcA</i> Reveals a Gene Organisation Different from <i>Mycobacterium tuberculosis</i> . <i>DNA Sequence</i> , 1999, 10, 61-66.	0.7	3
70	Protein complex purification from <i>Thermoplasma acidophilum</i> using a phage display library. <i>Journal of Microbiological Methods</i> , 2014, 98, 15-22.	1.6	3
71	Identification and functional characterisation of a novel <i>KCNJ2</i> mutation, Val302del, causing Andersen-Tawil syndrome. <i>Canadian Journal of Physiology and Pharmacology</i> , 2015, 93, 569-575.	1.4	3
72	Enhancing recombinant protein solubility with ubiquitin-like small archeal modifying protein fusion partners. <i>Journal of Microbiological Methods</i> , 2015, 118, 113-122.	1.6	3

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73	The first transformation method for the thermo-acidophilic archaeon <i>Thermoplasma acidophilum</i> . <i>Journal of Microbiological Methods</i> , 2013, 95, 145-148.	1.6	2
74	The Absence of N-Acetyl-D-glucosamine Causes Attenuation of Virulence of <i>Candida albicans</i> upon Interaction with Vaginal Epithelial Cells <i>In Vitro</i> . <i>BioMed Research International</i> , 2015, 2015, 1-13.	1.9	2
75	Impaired cytoplasmic domain interactions cause co-assembly defect and loss of function in the p.Glu293Lys KNCJ2 variant isolated from an Andersen-Tawil syndrome patient. <i>Cardiovascular Research</i> , 2020, 117, 1923-1934.	3.8	2
76	Proteomics Analysis of <i>Thermoplasma</i> Quinone Droplets. <i>Proteomics</i> , 2019, 19, 1800317.	2.2	1
77	Crystal structure of the <i>Thermoplasma acidophilum</i> protein Ta1207. <i>Acta Crystallographica Section F, Structural Biology Communications</i> , 2017, 73, 328-335.	0.8	0
78	Draft Genome Sequence of <i>Propionibacterium acnes</i> subsp. <i>elongatum</i> Strain Asn12. <i>Microbiology Resource Announcements</i> , 2018, 7, .	0.6	0
79	Expanded Coverage of the 26S Proteasome Conformational Landscape Reveals Mechanisms of Peptidase Gating. <i>FASEB Journal</i> , 2019, 33, .	0.5	0