Joshua Sakon

List of Publications by Year
in descending order

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47	1,984	304368 22	276539 41
papers	citations	h-index	g-index

48	48	48	2151
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Structure and mechanism of endo/exocellulase E4 from Thermomonospora fusca. Nature Structural Biology, 1997, 4, 810-818.	9.7	349
2	Crystal Structure of Thermostable Family 5 Endocellulase E1 fromAcidothermus cellulolyticusin Complex with Cellotetraoseâ€‚â€¡. Biochemistry, 1996, 35, 10648-10660.	1.2	236
3	Roles of the Catalytic Domain and Two Cellulose Binding Domains of Thermomonospora fusca E4 in Cellulose Hydrolysis. Journal of Bacteriology, 1998, 180, 1709-1714.	1.0	195
4	Cell Wall-targeting Domain of Glycylglycine Endopeptidase Distinguishes among Peptidoglycan Cross-bridges. Journal of Biological Chemistry, 2006, 281, 549-558.	1.6	125
5	Increasing the thermostability of staphylococcal nuclease: implications for the origin of protein thermostability. Journal of Molecular Biology, 2000, 303, 125-130.	2.0	118
6	Molecular structure of kanamycin nucleotidyltransferase determined to 3.0-.ANG. resolution. Biochemistry, 1993, 32, 11977-11984.	1.2	100
7	A bacterial collagen-binding domain with novel calcium-binding motif controls domain orientation. EMBO Journal, 2003, 22, 1743-1752.	3.5	91
8	Structural and Biological Identification of Residues on the Surface of NS3 Helicase Required for Optimal Replication of the Hepatitis C Virus. Journal of Biological Chemistry, 2006, 281, 3528-3535.	1.6	61
9	Maximizing production of cellulose nanocrystals and nanofibers from pre-extracted loblolly pine kraft pulp: a response surface approach. Bioresources and Bioprocessing, 2020, 7, .	2.0	55
10	Treating osteoporosis by targeting parathyroid hormone to bone. Drug Discovery Today, 2014, 19, 204-208.	3.2	53
11	Catalytically Enhanced Endocellulase Cel5A from <I>Acidothermus cellulolyticus</I>. Applied Biochemistry and Biotechnology, 2005, 121, 0129-0148.	1.4	49
12	Regulation of the GTPase Cycle in Post-translational Signal Recognition Particle-based Protein Targeting Involves cpSRP43. Journal of Biological Chemistry, 2004, 279, 43077-43084.	1.6	46
13	Characterization of metal affinity of green fluorescent protein and its purification through salt promoted, immobilized metal affinity chromatography. Journal of Chromatography A, 2001, 909, 183-190.	1.8	45
14	Hepatitis C Virus NS3 Helicase Forms Oligomeric Structures That Exhibit Optimal DNA Unwinding Activity in Vitro. Journal of Biological Chemistry, 2008, 283, 11516-11525.	1.6	37
15	Investigating the effects of hemicellulose pre-extraction on the production and characterization of loblolly pine nanocellulose. Cellulose, 2020, 27, 3693-3706.	2.4	33
16	ATP Stimulates Signal Recognition Particle (SRP)/FtsY-supported Protein Integration in Chloroplasts. Journal of Biological Chemistry, 2002, 277, 32400-32404.	1.6	29
17	Monthly Administration of a Novel PTH-Collagen Binding Domain Fusion Protein is Anabolic in Mice. Calcified Tissue International, 2011, 88, 511-520.	1.5	27
18	Structural Comparison of ColH and ColG Collagen-Binding Domains from Clostridium histolyticum. Journal of Bacteriology, 2013, 195, 318-327.	1.0	27

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19	Unidirectional Binding of Clostridial Collagenase to Triple Helical Substrates. Journal of Biological Chemistry, 2009, 284, 10868-10876.	1.6	25
20	Treatment for chemotherapyâ€induced alopecia in mice using parathyroid hormone agonists and antagonists linked to a collagen binding domain. International Journal of Cancer, 2012, 131, E813-21.	2.3	24
21	Exploration of Cellulose Surface-Binding Properties of Acidothermus cellulolyticus Cel5A by Site-Specific Mutagenesis. Applied Biochemistry and Biotechnology, 2002, 98-100, 273-288.	1.4	22
22	Bacterial collagenâ€binding domain targets undertwisted regions of collagen. Protein Science, 2012, 21, 1554-1565.	3.1	22
23	A Single Injection of the Anabolic Bone Agent, Parathyroid Hormoneâ€“Collagen Binding Domain (PTHâ€“CBD), Results in Sustained Increases in Bone Mineral Density for up to 12ÂMonths in Normal Female Mice. Calcified Tissue International, 2012, 91, 196-203.	1.5	21
24	Treatment and prevention of chemotherapy-induced alopecia with PTH-CBD, a collagen-targeted parathyroid hormone analog, in a non-depilated mouse model. Anti-Cancer Drugs, 2014, 25, 30-38.	0.7	20
25	Structures of three polycystic kidney disease-like domains fromClostridium histolyticumcollagenases ColG and ColH. Acta Crystallographica Section D: Biological Crystallography, 2015, 71, 565-577.	2.5	19
26	Ca²⁺â€induced linker transformation leads to a compact and rigid collagenâ€binding domain of Clostridium histolyticum collagenase. FEBS Journal, 2009, 276, 3589-3601.	2.2	18
27	Prevention of chemotherapy-induced osteoporosis by cyclophosphamide with a long-acting form of parathyroid hormone. Journal of Endocrinological Investigation, 2011, 34, e392-7.	1.8	14
28	Polysaccharide hydrolase folds diversity of structure and convergence of function. Applied Biochemistry and Biotechnology, 1997, 63-65, 315-325.	1.4	12
29	Probing the 3-D Structure, Dynamics, and Stability of Bacterial Collagenase Collagen Binding Domain (apo- versus holo-) by Limited Proteolysis MALDI-TOF MS. Journal of the American Society for Mass Spectrometry, 2012, 23, 505-519.	1.2	12
30	Ab Initio Study of the Conformational Dependence of the Nonplanarity of the Peptide Group. Journal of Physical Chemistry A, 2000, 104, 9636-9645.	1.1	11
31	Aqueous-phase synthesis of monodisperse plasmonic gold nanocrystals using shortened single-walled carbon nanotubes. Chemical Communications, 2010, 46, 7142.	2.2	11
32	Expression of a collagenâ€binding domain fusion protein: Effect of amino acid supplementation, inducer type, and culture conditions. Biotechnology Progress, 2015, 31, 503-509.	1.3	10
33	Parathyroid hormone linked to a collagen binding domain promotes hair growth in a mouse model of chemotherapy-induced alopecia in a dose-dependent manner. Anti-Cancer Drugs, 2014, 25, 819-825.	0.7	9
34	Ca²⁺â€induced orientation of tandem collagen binding domains from clostridial collagenase ColG permits two opposing functions of collagen fibril formation and retardation. FEBS Journal, 2018, 285, 3254-3269.	2.2	9
35	1H, 13C and 15N resonance assignments of Ca2+ bound collagen-binding domain derived from a clostridial collagenase. Biomolecular NMR Assignments, 2008, 2, 127-129.	0.4	8
36	Proteins with simplified hydrophobic cores compared to other packing mutants. Biophysical Chemistry, 2004, 110, 239-248.	1.5	7

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37	Pharmacokinetics in Rats of a Long-Acting Human Parathyroid Hormoneâ€“Collagen Binding Domain Peptide Construct. Journal of Pharmaceutical Sciences, 2014, 103, 768-775.	1.6	6
38	Fluorescent ampicillin analogues as multifunctional disguising agents against opsonization. Nanoscale, 2016, 8, 12658-12667.	2.8	6
39	Crystallization and preliminary crystallographic analysis of a thermostable mutant of kanamycin nucleotidyltransferase. Archives of Biochemistry and Biophysics, 1992, 295, 1-4.	1.4	5
40	Catalytically Enhanced Endocellulase Cel5A from Acidothermus cellulolyticus. , 2005, , 129-148.		5
41	Therapy for Alopecia Areata in Mice Using Parathyroid Hormone Agonists and Antagonists, Linked to a Collagen-Binding Domain. Journal of Investigative Dermatology Symposium Proceedings, 2013, 16, S61-S62.	0.8	4
42	Nanoscale Particles and Multifunctional Hybrid Soft Nanomaterials in Bio/Nanomedicine. , 2020, , 1-58.		4
43	Alternate carbohydrate and nontraditional inducer leads to increased productivity of a collagen binding domain fusion protein via fed-batch fermentation. Journal of Biotechnology, 2016, 226, 65-73.	1.9	3
44	Polysaccharide Hydrolase Folds Diversity of Structure and Convergence of Function. , 1997, , 315-325.		1
45	Characterization of the Minimalistic Fgf-D2 Domain Interface. Biophysical Journal, 2010, 98, 32a.	0.2	0
46	Exploration of Cellulose Surface-Binding Properties of Acidothermus cellulolyticus Cel5A by Site-Specific Mutagenesis. , 2002, , 273-287.		0
47	Enhanced Localized Surface Plasmon Resonance of Gold Nanoparticles Synthesized on Cellulose Nanocrystals. , 2021, , .		0