Anwar Sunna

List of Publications by Year
in descending order

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76	3,376	172207	149479
papers	citations	29 h-index	56 g-index

80	80	80	4544
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Bioremediation of Industrial Pollutants by Insects Expressing a Fungal Laccase. ACS Synthetic Biology, 2022, 11, 308-316.	1.9	16
2	Smartphone technology facilitates point-of-care nucleic acid diagnosis: a beginnerâ€™s guide. Critical Reviews in Clinical Laboratory Sciences, 2021, 58, 77-100.	2.7	13
3	Bioengineering a Light-Responsive Encapsulin Nanoreactor: A Potential Tool for In Vitro Photodynamic Therapy. ACS Applied Materials & Interfaces, 2021, 13, 7977-7986.	4.0	19
4	Universal Enzyme-Based Field Workflow for Rapid and Sensitive Quantification of Water Pathogens. Microorganisms, 2021, 9, 2367.	1.6	4
5	A novel framework for the cell-free enzymatic production of glucaric acid. Metabolic Engineering, 2020, 57, 162-173.	3.6	22
6	Proteomic response of Euglena gracilis to heavy metal exposure â€“ Identification of key proteins involved in heavy metal tolerance and accumulation. Algal Research, 2020, 45, 101764.	2.4	59
7	Elucidating the Binding Mechanism of a Novel Silica-Binding Peptide. Biomolecules, 2020, 10, 4.	1.8	4
8	Editorial Catalysts: Special Issue on Novel Enzyme and Whole-Cell Biocatalysts. Catalysts, 2020, 10, 1088.	1.6	1
9	Alternative carbohydrate pathways â€“ enzymes, functions and engineering. Critical Reviews in Biotechnology, 2020, 40, 895-912.	5.1	13
10	Molecular tools and applications of Euglena gracilis: From biorefineries to bioremediation. Biotechnology and Bioengineering, 2020, 117, 3952-3967.	1.7	20
11	Cell-Free Biocatalysis for the Production of Platform Chemicals. Frontiers in Energy Research, 2020, 8, .	1.2	31
12	Enzymology of Alternative Carbohydrate Catabolic Pathways. Catalysts, 2020, 10, 1231.	1.6	6
13	Rapid and specific duplex detection of methicillin-resistant Staphylococcus aureus genes by surface-enhanced Raman spectroscopy. Analyst, The, 2020, 145, 2789-2794.	1.7	18
14	The Effect of Oligomerization on A Solid-Binding Peptide Binding to Silica-Based Materials. Nanomaterials, 2020, 10, 1070.	1.9	4
15	Probing the Role of the Chloroplasts in Heavy Metal Tolerance and Accumulation in Euglena gracilis. Microorganisms, 2020, 8, 115.	1.6	23
16	Comparative proteomics investigation of central carbon metabolism in Euglena gracilis grown under predominantly phototrophic, mixotrophic and heterotrophic cultivations. Algal Research, 2019, 43, 101638.	2.4	21
17	Smartphone detection of antibiotic resistance using convective PCR and a lateral flow assay. Sensors and Actuators B: Chemical, 2019, 298, 126849.	4.0	40
18	Developing Protein-Based Nanoparticles as Versatile Delivery Systems for Cancer Therapy and Imaging. Nanomaterials, 2019, 9, 1329.	1.9	44

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19	Bioproducts From Euglena gracilis: Synthesis and Applications. Frontiers in Bioengineering and Biotechnology, 2019, 7, 108.	2.0	109
20	Characterisation of the First Archaeal Mannonate Dehydratase from Thermoplasma acidophilum and Its Potential Role in the Catabolism of D-Mannose. Catalysts, 2019, 9, 234.	1.6	8
21	Linker-protein G mediated functionalization of polystyrene-encapsulated upconversion nanoparticles for rapid gene assay using convective PCR. Mikrochimica Acta, 2019, 186, 346.	2.5	5
22	Mixed-mode liquid chromatography for the rapid analysis of biocatalytic glucaric acid reaction pathways. Analytica Chimica Acta, 2019, 1066, 136-145.	2.6	4
23	Experimental and theoretical tools to elucidate the binding mechanisms of solid-binding peptides. New Biotechnology, 2019, 52, 9-18.	2.4	13
24	A portable nucleic acid detection system using natural convection combined with a smartphone. Biosensors and Bioelectronics, 2019, 134, 68-75.	5.3	35
25	Development of screening strategies for the identification of paramylon-degrading enzymes. Journal of Industrial Microbiology and Biotechnology, 2019, 46, 769-781.	1.4	1
26	Cell-Free Enzymatic Conversion of Spent Coffee Grounds Into the Platform Chemical Lactic Acid. Frontiers in Bioengineering and Biotechnology, 2019, 7, 389.	2.0	8
27	Functionalized Upconversion Nanoparticles for Targeted Labelling of Bladder Cancer Cells. Biomolecules, 2019, 9, 820.	1.8	13
28	Nuclear transformation of the versatile microalga Euglena gracilis. Algal Research, 2019, 37, 178-185.	2.4	22
29	Tools and strategies for constructing cell-free enzyme pathways. Biotechnology Advances, 2019, 37, 91-108.	6.0	40
30	Versatile Platform for Nanoparticle Surface Bioengineering Based on SiO₂-Binding Peptide and Proteinaceous Barnase*Barstar Interface. ACS Applied Materials & Interfaces, 2018, 10, 17437-17447.	4.0	40
31	Engineering protein nanocages for targeted photodynamic therapy. New Biotechnology, 2018, 44, S10.	2.4	0
32	A platform technology for the bioconjugation of nanoparticles in cancer theranostics. New Biotechnology, 2018, 44, S56.	2.4	0
33	Microwave pretreatment of paramylon enhances the enzymatic production of soluble Î²-1,3-glucans with immunostimulatory activity. Carbohydrate Polymers, 2018, 196, 339-347.	5.1	14
34	Bioengineering Strategies for Protein-Based Nanoparticles. Genes, 2018, 9, 370.	1.0	78
35	Solid-binding peptides for immobilisation of thermostable enzymes to hydrolyse biomass polysaccharides. Biotechnology for Biofuels, 2017, 10, 29.	6.2	29
36	An innovative approach to bioremediation of mercury contaminated soils from industrial mining operations. Chemosphere, 2017, 184, 694-699.	4.2	35

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37	Solid-Binding Peptides in Biomedicine. Advances in Experimental Medicine and Biology, 2017, 1030, 21-36.	0.8	7
38	A comprehensive assessment of the biosynthetic pathways of ascorbate, Î±-tocopherol and free amino acids in Euglena gracilis var. saccharophila. Algal Research, 2017, 27, 140-151.	2.4	28
39	Multifunctional luminescent nanofibres from Eu3+-doped La2O2SO4 with enhanced oxygen storage capability. Journal of Alloys and Compounds, 2017, 695, 202-207.	2.8	12
40	A Novel Universal Detection Agent for Time-Gated Luminescence Bioimaging. Scientific Reports, 2016, 6, 27564.	1.6	12
41	Solid-Binding Peptides: Immobilisation Strategies for Extremophile Biocatalysis in Biotechnology. Grand Challenges in Biology and Biotechnology, 2016, , 637-674.	2.4	1
42	Facile Assembly of Functional Upconversion Nanoparticles for Targeted Cancer Imaging and Photodynamic Therapy. ACS Applied Materials & Interfaces, 2016, 8, 11945-11953.	4.0	86
43	Optical Biosensors Based on Nitrogenâ€Doped Graphene Functionalized with Magnetic Nanoparticles. Advanced Materials Interfaces, 2016, 3, 1600590.	1.9	40
44	Pseudomonas aeruginosa inhibits the growth of Scedosporium aurantiacum, an opportunistic fungal pathogen isolated from the lungs of cystic fibrosis patients. Frontiers in Microbiology, 2015, 6, 866.	1.5	52
45	Solid-binding peptides: smart tools for nanobiotechnology. Trends in Biotechnology, 2015, 33, 259-268.	4.9	148
46	Survival in Sterile Soil and Atrazine Degradation ofPseudomonassp. Strain ADP Immobilized on Zeolite. Bioremediation Journal, 2014, 18, 309-316.	1.0	20
47	Tunable lifetime multiplexing using luminescent nanocrystals. Nature Photonics, 2014, 8, 32-36.	15.6	652
48	Effect of Trichoderma reesei Proteinases on the Affinity of an Inorganic-Binding Peptide. Applied Biochemistry and Biotechnology, 2014, 173, 2225-2240.	1.4	9
49	Biofunctionalization of silica-coated magnetic particles mediated by a peptide. Journal of Nanoparticle Research, 2014, 16, 1.	0.8	14
50	Efficient capture of pathogens with a zeolite matrix. Parasitology Research, 2013, 112, 2441-2452.	0.6	11
51	Application of an ELISA-type screen printed electrode-based potentiometric assay to the detection of Cryptosporidium parvum oocysts. Journal of Microbiological Methods, 2013, 95, 182-185.	0.7	16
52	A linker peptide with high affinity towards silica-containing materials. New Biotechnology, 2013, 30, 485-492.	2.4	30
53	Facile Production and Rapid Purification of Functional Recombinant QÎ² Replicase Heterotetramer Complex. Applied Biochemistry and Biotechnology, 2013, 169, 651-659.	1.4	0
54	Immobilization of Pseudomonas sp. strain ADP: A stable inoculant for the bioremediation of atrazine. Applied Clay Science, 2012, 64, 90-93.	2.6	26

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55	Modular organisation and functional analysis of dissected modular Î²-mannanase CsMan26 from Caldicellulosiruptor Rt8B.4. Applied Microbiology and Biotechnology, 2010, 86, 189-200.	1.7	23
56	Characterization of the xylanases from the new isolated thermophilic xylan-degrading Bacillus thermoleovorans strain K-3d and Bacillus flavothermus strain LB3A. FEMS Microbiology Letters, 2006, 148, 209-216.	0.7	47
57	A yeast intron as a translational terminator in a plasmid shuttle vector. FEMS Yeast Research, 2004, 4, 573-577.	1.1	8
58	High-resolution Crystal Structures of Caldicellulosiruptor Strain Rt8B.4 Carbohydrate-binding Module CBM27-1 and its Complex with Mannohexaose. Journal of Molecular Biology, 2004, 340, 543-554.	2.0	17
59	A gene encoding a novel extremely thermostable 1,4-Î²-xylanase isolated directly from an environmental DNA sample. Extremophiles, 2003, 7, 63-70.	0.9	81
60	Prospecting for novel lipase genes using PCR a aThe GenBank accession number for the sequence reported in this paper is AF421484.. Microbiology (United Kingdom), 2002, 148, 2283-2291.	0.7	113
61	Biochemical characterization of a recombinant thermoalkalophilic lipase and assessment of its substrate enantioselectivity. Enzyme and Microbial Technology, 2002, 31, 472-476.	1.6	30
62	Identification of novel Î²-mannan- and Î²-glucan-binding modules: evidence for a superfamily of carbohydrate-binding modules. Biochemical Journal, 2001, 356, 791.	1.7	27
63	Identification of novel Î²-mannan- and Î²-glucan-binding modules: evidence for a superfamily of carbohydrate-binding modules. Biochemical Journal, 2001, 356, 791-798.	1.7	39
64	The thermostabilizing domain, XynA, of Caldibacillus cellulovorans xylanase is a xylan binding domain. Biochemical Journal, 2000, 346, 583.	1.7	12
65	The thermostabilizing domain, XynA, of Caldibacillus cellulovorans xylanase is a xylan binding domain. Biochemical Journal, 2000, 346, 583-586.	1.7	42
66	Alicyclobacillus hesperidum sp. nov. and a related genomic species from solfataric soils of SÃ£o Miguel in the Azores.. International Journal of Systematic and Evolutionary Microbiology, 2000, 50, 451-457.	0.8	79
67	A Gene Encoding a Novel Multidomain Î²-1,4-Mannanase from Caldibacillus cellulovorans and Action of the Recombinant Enzyme on Kraft Pulp. Applied and Environmental Microbiology, 2000, 66, 664-670.	1.4	48
68	A novel thermostable multidomain 1,4-Î²-xylanase from â€˜Caldibacillus cellulovoransâ€™ and effect of its xylan-binding domain on enzyme activity. Microbiology (United Kingdom), 2000, 146, 2947-2955.	0.7	46
69	Sequencing and Expression of a Î²-Mannanase Gene from the Extreme Thermophile Dictyoglomus thermophilum Rt46B.1, and Characteristics of the Recombinant Enzyme. Current Microbiology, 1999, 39, 351-357.	1.0	41
70	Xylanolytic Enzymes from Fungi and Bacteria. Critical Reviews in Biotechnology, 1997, 17, 39-67.	5.1	482
71	Characterization of the xylanolytic enzyme system of the extreme thermophilic anaerobic bacteria Thermotoga maritima, T. neapolitana, and T. thermarum. Comparative Biochemistry and Physiology A, Comparative Physiology, 1997, 118, 453-461.	0.7	20
72	Identification of Bacillus kaustophilus, Bacillus thermocatenulatus and Bacillus Strain HSR as Members of Bacillus thermoleovorans. Systematic and Applied Microbiology, 1997, 20, 232-237.	1.2	56

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73	Glycosyl hydrolases from hyperthermophiles. Extremophiles, 1997, 1, 2-13.	0.9	142
74	Growth and production of xylanolytic enzymes by the extreme thermophilic anaerobic bacterium Thermotoga thermarum. Applied Microbiology and Biotechnology, 1996, 45, 671-676.	1.7	30
75	Biodegradation of Polymers at Temperatures up to 130Â°C. Journal of Macromolecular Science - Pure and Applied Chemistry, 1995, 32, 661-669.	1.2	10
76	Thermostable amylase from an aerobic, gram-negative, non-spore forming thermophilic bacterium. Biotechnology Letters, 1990, 12, 433-438.	1.1	6