

# Anwar Sunna

## List of Publications by Year in descending order

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76  
papers

3,376  
citations

172207

29  
h-index

149479

56  
g-index

80  
all docs

80  
docs citations

80  
times ranked

4544  
citing authors

#	ARTICLE	IF	CITATIONS
1	Tunable lifetime multiplexing using luminescent nanocrystals. <i>Nature Photonics</i> , 2014, 8, 32-36.	15.6	652
2	Xylanolytic Enzymes from Fungi and Bacteria. <i>Critical Reviews in Biotechnology</i> , 1997, 17, 39-67.	5.1	482
3	Solid-binding peptides: smart tools for nanobiotechnology. <i>Trends in Biotechnology</i> , 2015, 33, 259-268.	4.9	148
4	Glycosyl hydrolases from hyperthermophiles. <i>Extremophiles</i> , 1997, 1, 2-13.	0.9	142
5	Prospecting for novel lipase genes using PCR a The GenBank accession number for the sequence reported in this paper is AF421484.. <i>Microbiology (United Kingdom)</i> , 2002, 148, 2283-2291.	0.7	113
6	Bioproducts From <i>Euglena gracilis</i> : Synthesis and Applications. <i>Frontiers in Bioengineering and Biotechnology</i> , 2019, 7, 108.	2.0	109
7	Facile Assembly of Functional Upconversion Nanoparticles for Targeted Cancer Imaging and Photodynamic Therapy. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 11945-11953.	4.0	86
8	A gene encoding a novel extremely thermostable 1,4- $\beta$ -xylanase isolated directly from an environmental DNA sample. <i>Extremophiles</i> , 2003, 7, 63-70.	0.9	81
9	<i>Alicyclobacillus hesperidum</i> sp. nov. and a related genomic species from solfataric soils of S�o Miguel in the Azores.. <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2000, 50, 451-457.	0.8	79
10	Bioengineering Strategies for Protein-Based Nanoparticles. <i>Genes</i> , 2018, 9, 370.	1.0	78
11	Proteomic response of <i>Euglena gracilis</i> to heavy metal exposure – Identification of key proteins involved in heavy metal tolerance and accumulation. <i>Algal Research</i> , 2020, 45, 101764.	2.4	59
12	Identification of <i>Bacillus kaustophilus</i> , <i>Bacillus thermocatenuatus</i> and <i>Bacillus</i> Strain HSR as Members of <i>Bacillus thermoleovorans</i> . <i>Systematic and Applied Microbiology</i> , 1997, 20, 232-237.	1.2	56
13	<i>Pseudomonas aeruginosa</i> inhibits the growth of <i>Scedosporium aurantiacum</i> , an opportunistic fungal pathogen isolated from the lungs of cystic fibrosis patients. <i>Frontiers in Microbiology</i> , 2015, 6, 866.	1.5	52
14	A Gene Encoding a Novel Multidomain $\beta$ -1,4-Mannanase from <i>Caldibacillus cellulovorans</i> and Action of the Recombinant Enzyme on Kraft Pulp. <i>Applied and Environmental Microbiology</i> , 2000, 66, 664-670.	1.4	48
15	Characterization of the xylanases from the new isolated thermophilic xylan-degrading <i>Bacillus thermoleovorans</i> strain K-3d and <i>Bacillus flavothermus</i> strain LB3A. <i>FEMS Microbiology Letters</i> , 2006, 148, 209-216.	0.7	47
16	A novel thermostable multidomain 1,4- $\beta$ -xylanase from “ <i>Caldibacillus cellulovorans</i> ”™ and effect of its xylan-binding domain on enzyme activity. <i>Microbiology (United Kingdom)</i> , 2000, 146, 2947-2955.	0.7	46
17	Developing Protein-Based Nanoparticles as Versatile Delivery Systems for Cancer Therapy and Imaging. <i>Nanomaterials</i> , 2019, 9, 1329.	1.9	44
18	The thermostabilizing domain, XynA, of <i>Caldibacillus cellulovorans</i> xylanase is a xylan binding domain. <i>Biochemical Journal</i> , 2000, 346, 583-586.	1.7	42

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19	Sequencing and Expression of a $\beta$ -Mannanase Gene from the Extreme Thermophile <i>Dictyoglomus thermophilum</i> Rt46B.1, and Characteristics of the Recombinant Enzyme. <i>Current Microbiology</i> , 1999, 39, 351-357.	1.0	41
20	Optical Biosensors Based on Nitrogen-Doped Graphene Functionalized with Magnetic Nanoparticles. <i>Advanced Materials Interfaces</i> , 2016, 3, 1600590.	1.9	40
21	Versatile Platform for Nanoparticle Surface Bioengineering Based on SiO <sub>2</sub> -Binding Peptide and Proteinaceous Barnase*Barstar Interface. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 17437-17447.	4.0	40
22	Smartphone detection of antibiotic resistance using convective PCR and a lateral flow assay. <i>Sensors and Actuators B: Chemical</i> , 2019, 298, 126849.	4.0	40
23	Tools and strategies for constructing cell-free enzyme pathways. <i>Biotechnology Advances</i> , 2019, 37, 91-108.	6.0	40
24	Identification of novel $\beta$ -mannan- and $\beta$ -glucan-binding modules: evidence for a superfamily of carbohydrate-binding modules. <i>Biochemical Journal</i> , 2001, 356, 791-798.	1.7	39
25	An innovative approach to bioremediation of mercury contaminated soils from industrial mining operations. <i>Chemosphere</i> , 2017, 184, 694-699.	4.2	35
26	A portable nucleic acid detection system using natural convection combined with a smartphone. <i>Biosensors and Bioelectronics</i> , 2019, 134, 68-75.	5.3	35
27	Cell-Free Biocatalysis for the Production of Platform Chemicals. <i>Frontiers in Energy Research</i> , 2020, 8, .	1.2	31
28	Growth and production of xylanolytic enzymes by the extreme thermophilic anaerobic bacterium <i>Thermotoga thermarum</i> . <i>Applied Microbiology and Biotechnology</i> , 1996, 45, 671-676.	1.7	30
29	Biochemical characterization of a recombinant thermoalkalophilic lipase and assessment of its substrate enantioselectivity. <i>Enzyme and Microbial Technology</i> , 2002, 31, 472-476.	1.6	30
30	A linker peptide with high affinity towards silica-containing materials. <i>New Biotechnology</i> , 2013, 30, 485-492.	2.4	30
31	Solid-binding peptides for immobilisation of thermostable enzymes to hydrolyse biomass polysaccharides. <i>Biotechnology for Biofuels</i> , 2017, 10, 29.	6.2	29
32	A comprehensive assessment of the biosynthetic pathways of ascorbate, $\alpha$ -tocopherol and free amino acids in <i>Euglena gracilis</i> var. <i>saccharophila</i> . <i>Algal Research</i> , 2017, 27, 140-151.	2.4	28
33	Identification of novel $\beta$ -mannan- and $\beta$ -glucan-binding modules: evidence for a superfamily of carbohydrate-binding modules. <i>Biochemical Journal</i> , 2001, 356, 791.	1.7	27
34	Immobilization of <i>Pseudomonas</i> sp. strain ADP: A stable inoculant for the bioremediation of atrazine. <i>Applied Clay Science</i> , 2012, 64, 90-93.	2.6	26
35	Modular organisation and functional analysis of dissected modular $\beta$ -mannanase CsMan26 from <i>Caldicellulosiruptor</i> Rt8B.4. <i>Applied Microbiology and Biotechnology</i> , 2010, 86, 189-200.	1.7	23
36	Probing the Role of the Chloroplasts in Heavy Metal Tolerance and Accumulation in <i>Euglena gracilis</i> . <i>Microorganisms</i> , 2020, 8, 115.	1.6	23

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37	Nuclear transformation of the versatile microalga <i>Euglena gracilis</i> . <i>Algal Research</i> , 2019, 37, 178-185.	2.4	22
38	A novel framework for the cell-free enzymatic production of glucaric acid. <i>Metabolic Engineering</i> , 2020, 57, 162-173.	3.6	22
39	Comparative proteomics investigation of central carbon metabolism in <i>Euglena gracilis</i> grown under predominantly phototrophic, mixotrophic and heterotrophic cultivations. <i>Algal Research</i> , 2019, 43, 101638.	2.4	21
40	Characterization of the xylanolytic enzyme system of the extreme thermophilic anaerobic bacteria <i>Thermotoga maritima</i> , <i>T. neapolitana</i> , and <i>T. thermarum</i> . <i>Comparative Biochemistry and Physiology A, Comparative Physiology</i> , 1997, 118, 453-461.	0.7	20
41	Survival in Sterile Soil and Atrazine Degradation of <i>Pseudomonas</i> sp. Strain ADP Immobilized on Zeolite. <i>Bioremediation Journal</i> , 2014, 18, 309-316.	1.0	20
42	Molecular tools and applications of <i>Euglena gracilis</i> : From biorefineries to bioremediation. <i>Biotechnology and Bioengineering</i> , 2020, 117, 3952-3967.	1.7	20
43	Bioengineering a Light-Responsive Encapsulin Nanoreactor: A Potential Tool for <i>In Vitro</i> Photodynamic Therapy. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 7977-7986.	4.0	19
44	Rapid and specific duplex detection of methicillin-resistant <i>Staphylococcus aureus</i> genes by surface-enhanced Raman spectroscopy. <i>Analyst, The</i> , 2020, 145, 2789-2794.	1.7	18
45	High-resolution Crystal Structures of <i>Caldicellulosiruptor</i> Strain Rt8B.4 Carbohydrate-binding Module CBM27-1 and its Complex with MannoHexAase. <i>Journal of Molecular Biology</i> , 2004, 340, 543-554.	2.0	17
46	Application of an ELISA-type screen printed electrode-based potentiometric assay to the detection of <i>Cryptosporidium parvum</i> oocysts. <i>Journal of Microbiological Methods</i> , 2013, 95, 182-185.	0.7	16
47	Bioremediation of Industrial Pollutants by Insects Expressing a Fungal Laccase. <i>ACS Synthetic Biology</i> , 2022, 11, 308-316.	1.9	16
48	Biofunctionalization of silica-coated magnetic particles mediated by a peptide. <i>Journal of Nanoparticle Research</i> , 2014, 16, 1.	0.8	14
49	Microwave pretreatment of paramylon enhances the enzymatic production of soluble $\beta$ -1,3-glucans with immunostimulatory activity. <i>Carbohydrate Polymers</i> , 2018, 196, 339-347.	5.1	14
50	Experimental and theoretical tools to elucidate the binding mechanisms of solid-binding peptides. <i>New Biotechnology</i> , 2019, 52, 9-18.	2.4	13
51	Functionalized Upconversion Nanoparticles for Targeted Labelling of Bladder Cancer Cells. <i>Biomolecules</i> , 2019, 9, 820.	1.8	13
52	Alternative carbohydrate pathways – enzymes, functions and engineering. <i>Critical Reviews in Biotechnology</i> , 2020, 40, 895-912.	5.1	13
53	Smartphone technology facilitates point-of-care nucleic acid diagnosis: a beginner's guide. <i>Critical Reviews in Clinical Laboratory Sciences</i> , 2021, 58, 77-100.	2.7	13
54	The thermostabilizing domain, XynA, of <i>Caldibacillus cellulovorans</i> xylanase is a xylan binding domain. <i>Biochemical Journal</i> , 2000, 346, 583.	1.7	12

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55	A Novel Universal Detection Agent for Time-Gated Luminescence Bioimaging. <i>Scientific Reports</i> , 2016, 6, 27564.	1.6	12
56	Multifunctional luminescent nanofibres from Eu <sup>3+</sup> -doped La <sub>2</sub> O <sub>2</sub> SO <sub>4</sub> with enhanced oxygen storage capability. <i>Journal of Alloys and Compounds</i> , 2017, 695, 202-207.	2.8	12
57	Efficient capture of pathogens with a zeolite matrix. <i>Parasitology Research</i> , 2013, 112, 2441-2452.	0.6	11
58	Biodegradation of Polymers at Temperatures up to 130Å°C. <i>Journal of Macromolecular Science - Pure and Applied Chemistry</i> , 1995, 32, 661-669.	1.2	10
59	Effect of <i>Trichoderma reesei</i> Proteinases on the Affinity of an Inorganic-Binding Peptide. <i>Applied Biochemistry and Biotechnology</i> , 2014, 173, 2225-2240.	1.4	9
60	A yeast intron as a translational terminator in a plasmid shuttle vector. <i>FEMS Yeast Research</i> , 2004, 4, 573-577.	1.1	8
61	Characterisation of the First Archaeal Mannonate Dehydratase from <i>Thermoplasma acidophilum</i> and Its Potential Role in the Catabolism of D-Mannose. <i>Catalysts</i> , 2019, 9, 234.	1.6	8
62	Cell-Free Enzymatic Conversion of Spent Coffee Grounds Into the Platform Chemical Lactic Acid. <i>Frontiers in Bioengineering and Biotechnology</i> , 2019, 7, 389.	2.0	8
63	Solid-Binding Peptides in Biomedicine. <i>Advances in Experimental Medicine and Biology</i> , 2017, 1030, 21-36.	0.8	7
64	Thermostable amylase from an aerobic, gram-negative, non-spore forming thermophilic bacterium. <i>Biotechnology Letters</i> , 1990, 12, 433-438.	1.1	6
65	Enzymology of Alternative Carbohydrate Catabolic Pathways. <i>Catalysts</i> , 2020, 10, 1231.	1.6	6
66	Linker-protein G mediated functionalization of polystyrene-encapsulated upconversion nanoparticles for rapid gene assay using convective PCR. <i>Mikrochimica Acta</i> , 2019, 186, 346.	2.5	5
67	Mixed-mode liquid chromatography for the rapid analysis of biocatalytic glucaric acid reaction pathways. <i>Analytica Chimica Acta</i> , 2019, 1066, 136-145.	2.6	4
68	Elucidating the Binding Mechanism of a Novel Silica-Binding Peptide. <i>Biomolecules</i> , 2020, 10, 4.	1.8	4
69	The Effect of Oligomerization on A Solid-Binding Peptide Binding to Silica-Based Materials. <i>Nanomaterials</i> , 2020, 10, 1070.	1.9	4
70	Universal Enzyme-Based Field Workflow for Rapid and Sensitive Quantification of Water Pathogens. <i>Microorganisms</i> , 2021, 9, 2367.	1.6	4
71	Solid-Binding Peptides: Immobilisation Strategies for Extremophile Biocatalysis in Biotechnology. <i>Grand Challenges in Biology and Biotechnology</i> , 2016, , 637-674.	2.4	1
72	Development of screening strategies for the identification of paramylon-degrading enzymes. <i>Journal of Industrial Microbiology and Biotechnology</i> , 2019, 46, 769-781.	1.4	1

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73	Editorial Catalysts: Special Issue on Novel Enzyme and Whole-Cell Biocatalysts. Catalysts, 2020, 10, 1088.	1.6	1
74	Facile Production and Rapid Purification of Functional Recombinant Q $\beta$ Replicase Heterotetramer Complex. Applied Biochemistry and Biotechnology, 2013, 169, 651-659.	1.4	0
75	Engineering protein nanocages for targeted photodynamic therapy. New Biotechnology, 2018, 44, S10.	2.4	0
76	A platform technology for the bioconjugation of nanoparticles in cancer theranostics. New Biotechnology, 2018, 44, S56.	2.4	0