

# Roberto Arreguin

## List of Publications by Year in descending order

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83  
papers

1,824  
citations

331670

21  
h-index

302126

39  
g-index

84  
all docs

84  
docs citations

84  
times ranked

2678  
citing authors

#	ARTICLE	IF	CITATIONS
1	The Role of Mass Spectrometry in the Discovery of Antibiotics and Bacterial Resistance Mechanisms: Proteomics and Metabolomics Approaches. <i>Current Medicinal Chemistry</i> , 2023, 30, 30-58.	2.4	1
2	Kinetic and Molecular Docking Studies to Determine the Effect of Inhibitors on the Activity and Structure of Fused G6PD::6PGL Protein from <i>Trichomonas vaginalis</i> . <i>Molecules</i> , 2022, 27, 1174.	3.8	5
3	Chemical structure of three basic Asp-49 phospholipases A2 isolated from <i>Crotalus molossus nigrescens</i> venom with cytotoxic activity against cancer cells. <i>Toxicon</i> , 2022, 210, 25-31.	1.6	4
4	A Sea Anemone <i>Lebrunia neglecta</i> Venom Fraction Decreases Boar Sperm Cells Capacitation: Possible Involvement of HVA Calcium Channels. <i>Toxins</i> , 2022, 14, 261.	3.4	0
5	Biochemical and Kinetic Characterization of the Glucose-6-Phosphate Dehydrogenase from <i>Helicobacter pylori</i> Strain 29CaP. <i>Microorganisms</i> , 2022, 10, 1359.	3.6	2
6	Novel inhibitors of human glucose-6-phosphate dehydrogenase (HsG6PD) affect the activity and stability of the protein. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2021, 1865, 129828.	2.4	6
7	The Influence of Silicateins on the Shape and Crystalline Habit of Silica Carbonate Biomorphs of Alkaline Earth Metals (Ca, Ba, Sr). <i>Crystals</i> , 2021, 11, 438.	2.2	4
8	Glucose-6-Phosphate Dehydrogenase::6-Phosphogluconolactonase from the Parasite <i>Giardia lamblia</i> . A Molecular and Biochemical Perspective of a Fused Enzyme. <i>Microorganisms</i> , 2021, 9, 1678.	3.6	5
9	Effects of High Dietary Carbohydrate and Lipid Intake on the Lifespan of <i>C. elegans</i> . <i>Cells</i> , 2021, 10, 2359.	4.1	20
10	Genetic variability and population structure of Mexican chickpea ( <i>Cicer arietinum</i> L.) germplasm accessions revealed by microsatellite markers. <i>Journal of Plant Biochemistry and Biotechnology</i> , 2020, 29, 357-367.	1.7	3
11	Quantification and Stereochemical Composition of R-( $\hat{\sim}$ ) and S-(+)-Clenbuterol Enantiomers in Bovine Urine by Liquid Chromatography-Tandem Mass Spectrometry. <i>Journal of Analytical Toxicology</i> , 2020, 44, 237-244.	2.8	7
12	Identification of the NADP <sup>+</sup> Structural Binding Site and Coenzyme Effect on the Fused G6PD::6PGL Protein from <i>Giardia lamblia</i> . <i>Biomolecules</i> , 2020, 10, 46.	4.0	6
13	Gene Cloning, Recombinant Expression, Characterization, and Molecular Modeling of the Glycolytic Enzyme Triosephosphate Isomerase from <i>Fusarium oxysporum</i> . <i>Microorganisms</i> , 2020, 8, 40.	3.6	5
14	Characterizing the Fused TvG6PD::6PGL Protein from the Protozoan <i>Trichomonas vaginalis</i> , and Effects of the NADP <sup>+</sup> Molecule on Enzyme Stability. <i>International Journal of Molecular Sciences</i> , 2020, 21, 4831.	4.1	6
15	Enhanced Antigiardial Effect of Omeprazole Analog Benzimidazole Compounds. <i>Molecules</i> , 2020, 25, 3979.	3.8	9
16	Effects of Single and Double Mutants in Human Glucose-6-Phosphate Dehydrogenase Variants Present in the Mexican Population: Biochemical and Structural Analysis. <i>International Journal of Molecular Sciences</i> , 2020, 21, 2732.	4.1	12
17	Identification of $\hat{\pm}$ -Glucosidase Inhibitors from <i>Ipomoea alba</i> by Affinity-Directed Fractionation-Mass Spectrometry. <i>Revista Brasileira De Farmacognosia</i> , 2020, 30, 336-345.	1.4	9
18	Glucose-6-Phosphatase and $\hat{\pm}$ -Glucosidase Inhibitors from <i>Smilax moranensis</i> Roots Identified by Affinity-Directed Fractionation. <i>Revista Brasileira De Farmacognosia</i> , 2020, 30, 832-837.	1.4	5

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19	Molecular Cloning and Exploration of the Biochemical and Functional Analysis of Recombinant Glucose-6-Phosphate Dehydrogenase from <i>Gluconoacetobacter diazotrophicus</i> PAL5. <i>International Journal of Molecular Sciences</i> , 2019, 20, 5279.	4.1	4
20	Crystal Growth in Gels from the Mechanisms of Crystal Growth to Control of Polymorphism: New Trends on Theoretical and Experimental Aspects. <i>Crystals</i> , 2019, 9, 443.	2.2	15
21	Recombinant O-mannosylated protein production (PstS-1) from <i>Mycobacterium tuberculosis</i> in <i>Pichia pastoris</i> ( <i>Komagataella phaffii</i> ) as a tool to study tuberculosis infection. <i>Microbial Cell Factories</i> , 2019, 18, 11.	4.0	9
22	A Novel Phospholipase A2 Isolated from <i>Palythoa caribaeorum</i> Possesses Neurotoxic Activity. <i>Toxins</i> , 2019, 11, 89.	3.4	2
23	Rat aorta relaxation induced by the venom of <i>Poecilotheria regalis</i> involves the activation of the NO/cGMP pathway. <i>Toxicon</i> , 2019, 163, 12-18.	1.6	2
24	A peptide derived from enzymatic digestion of globulins from amaranth shows strong affinity binding to the replication origin of Tomato yellow leaf curl virus reducing viral replication in <i>Nicotiana benthamiana</i> . <i>Pesticide Biochemistry and Physiology</i> , 2018, 145, 56-65.	3.6	17
25	A high glucose diet induces autophagy in a HLH-30/TFEB-dependent manner and impairs the normal lifespan of <i>C. elegans</i> . <i>Aging</i> , 2018, 10, 2657-2667.	3.1	16
26	PhcrTx2, a New Crab-Paralyzing Peptide Toxin from the Sea Anemone <i>Phymanthus crucifer</i> . <i>Toxins</i> , 2018, 10, 72.	3.4	7
27	Hemolytic, anticancer and anti-giardial activity of <i>Palythoa caribaeorum</i> venom. <i>Journal of Venomous Animals and Toxins Including Tropical Diseases</i> , 2018, 24, 12.	1.4	15
28	Hyaluronidase-like enzymes are a frequent component of venoms from theraphosid spiders. <i>Toxicon</i> , 2017, 136, 34-43.	1.6	13
29	Electrophysiological activity of a neurotoxic fraction from the venom of box jellyfish <i>Carybdea marsupialis</i> . <i>Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology</i> , 2017, 191, 177-182.	2.6	10
30	A 3D structural model of RsXXVIA, an $\alpha$ -conotoxin. <i>Structural Chemistry</i> , 2017, 28, 901-909.	2.0	2
31	Biochemical Analysis of Two Single Mutants that Give Rise to a Polymorphic G6PD A-Double Mutant. <i>International Journal of Molecular Sciences</i> , 2017, 18, 2244.	4.1	16
32	Glucose-6-Phosphate Dehydrogenase: Update and Analysis of New Mutations around the World. <i>International Journal of Molecular Sciences</i> , 2016, 17, 2069.	4.1	155
33	Stem-Loop RT-qPCR as an Efficient Tool for the Detection and Quantification of Small RNAs in <i>Giardia lamblia</i> . <i>Genes</i> , 2016, 7, 131.	2.4	15
34	Activity of <i>Palythoa caribaeorum</i> Venom on Voltage-Gated Ion Channels in Mammalian Superior Cervical Ganglion Neurons. <i>Toxins</i> , 2016, 8, 135.	3.4	12
35	Functional and Biochemical Characterization of Three Recombinant Human Glucose-6-Phosphate Dehydrogenase Mutants: Zacatecas, Vanua-Lava and Viangchan. <i>International Journal of Molecular Sciences</i> , 2016, 17, 787.	4.1	22
36	Composition and biological activities of the aqueous extracts of three scleractinian corals from the Mexican Caribbean: <i>Pseudodiploria strigosa</i> , <i>Porites astreoides</i> and <i>Siderastrea siderea</i> . <i>Journal of Venomous Animals and Toxins Including Tropical Diseases</i> , 2016, 22, 32.	1.4	13

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37	Cnidarian Neurotoxic Peptides Affecting Central Nervous System Targets. <i>Central Nervous System Agents in Medicinal Chemistry</i> , 2016, 16, 173-182.	1.1	9
38	Mutations of Glucose-6-Phosphate Dehydrogenase Durham, Santa-Maria and A+ Variants Are Associated with Loss Functional and Structural Stability of the Protein. <i>International Journal of Molecular Sciences</i> , 2015, 16, 28657-28668.	4.1	25
39	The Oxidative Fermentation of Ethanol in <i>Gluconacetobacter diazotrophicus</i> Is a Two-Step Pathway Catalyzed by a Single Enzyme: Alcohol-Aldehyde Dehydrogenase (ADHa). <i>International Journal of Molecular Sciences</i> , 2015, 16, 1293-1311.	4.1	15
40	Biological and taxonomic perspective of triterpenoid glycosides of sea cucumbers of the family Holothuriidae (Echinodermata, Holothuroidea). <i>Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology</i> , 2015, 180, 16-39.	1.6	43
41	LipoproteinN-acyl transferase (Lnt1) is dispensable for proteinO-mannosylation by <i>Streptomyces coelicolor</i> . <i>FEMS Microbiology Letters</i> , 2014, 350, 72-82.	1.8	4
42	X-ray crystal structure of the passenger domain of plasmid encoded toxin(Pet), an autotransporter enterotoxin from enteroaggregative <i>Escherichia coli</i> (EAEC). <i>Biochemical and Biophysical Research Communications</i> , 2014, 445, 439-444.	2.1	22
43	A purified <i>Palythoa</i> venom fraction delays sodium current inactivation in sympathetic neurons. <i>Toxicon</i> , 2014, 82, 112-116.	1.6	12
44	A <i>Conus regularis</i> Conotoxin with a Novel Eight-Cysteine Framework Inhibits CaV2.2 Channels and Displays an Anti-Nociceptive Activity. <i>Marine Drugs</i> , 2013, 11, 1188-1202.	4.6	24
45	Arrhythmogenic effect of a crude extract from sea anemone <i>Condylactis gigantea</i> : Possible involvement of rErg1 channels. <i>Toxicon</i> , 2013, 67, 47-54.	1.6	4
46	An electrically assisted device for protein crystallization in a vapor-diffusion setup. <i>Journal of Applied Crystallography</i> , 2013, 46, 832-834.	4.5	18
47	The 2-oxoglutarate supply exerts significant control on the lysine synthesis flux in <i>Saccharomyces cerevisiae</i> . <i>FEBS Journal</i> , 2013, 280, 5737-5749.	4.7	5
48	Bioactive Peptides from Marine Organisms: A Short Overview. <i>Protein and Peptide Letters</i> , 2012, 19, 700-707.	0.9	36
49	The active (ADHa) and inactive (ADHi) forms of the PQQ-alcohol dehydrogenase from <i>Gluconacetobacter diazotrophicus</i> differ in their respective oligomeric structures and redox state of their corresponding prosthetic groups. <i>FEMS Microbiology Letters</i> , 2012, 328, 106-113.	1.8	11
50	Role of vitamin B12 on methylmalonyl-CoA mutase activity. <i>Journal of Zhejiang University: Science B</i> , 2012, 13, 423-437.	2.8	92
51	Controlling the morphology of silica-carbonate biomorphs using proteins involved in biomineralization. <i>Journal of Materials Science</i> , 2012, 47, 2943-2950.	3.7	21
52	Biochemical Characterization of Recombinant L-Asparaginase (AnsA) from <i>Rhizobium etli</i> , a Member of an Increasing Rhizobial-Type Family of L-Asparaginases. <i>Journal of Microbiology and Biotechnology</i> , 2012, 22, 292-300.	2.1	37
53	The quinohaemoprotein alcohol dehydrogenase from <i>Gluconacetobacter xylinus</i> : molecular and catalytic properties. <i>Archives of Microbiology</i> , 2010, 192, 703-713.	2.2	9
54	<i>Entamoeba histolytica</i> : Expression and localization of Gal/GalNAc lectin in virulent and non-virulent variants from HM1:IMSS strain. <i>Experimental Parasitology</i> , 2010, 125, 244-250.	1.2	5

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55	Molecular and Catalytic Properties of the Aldehyde Dehydrogenase of <i>Gluconacetobacter diazotrophicus</i> , a Quinoheme Protein Containing Pyrroloquinoline Quinone, Cytochrome b, and Cytochrome c. <i>Journal of Bacteriology</i> , 2010, 192, 5718-5724.	2.2	35
56	Glucose exerts a negative effect over a peroxidase from <i>Trichosporon asahii</i> , with carotenoid cleaving activity. <i>Applied Microbiology and Biotechnology</i> , 2009, 84, 499-510.	3.6	9
57	Energetics of protein homodimerization: Effects of water sequestering on the formation of $\beta$ -lactoglobulin dimer. <i>Proteins: Structure, Function and Bioinformatics</i> , 2008, 70, 1475-1487.	2.6	50
58	The effect of sulfhydryl groups and disulphide linkage in the thermal aggregation of Z19 $\beta$ -zein. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2008, 1784, 1028-1036.	2.3	39
59	Effects of salts on aerobic metabolism of <i>Debaryomyces hansenii</i> . <i>FEMS Yeast Research</i> , 2008, 8, 1303-1312.	2.3	19
60	The PQQ-alcohol dehydrogenase of <i>Gluconacetobacter diazotrophicus</i> . <i>International Journal of Food Microbiology</i> , 2008, 125, 71-78.	4.7	29
61	Effect of Alkaline Deamidation on the Structure, Surface Hydrophobicity, and Emulsifying Properties of the Z19 $\beta$ -Zein. <i>Journal of Agricultural and Food Chemistry</i> , 2007, 55, 439-445.	5.2	107
62	Effect of temperature and pH on the secondary structure and processes of oligomerization of 19 kDa $\alpha$ -zein. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2006, 1764, 1110-1118.	2.3	107
63	Novel method for aroma recovery from the bioconversion of lutein to $\beta$ -ionone by <i>Trichosporon asahii</i> using a mesoporous silicate material. <i>Applied Microbiology and Biotechnology</i> , 2006, 71, 568-573.	3.6	12
64	Characterization of a 19 kDa $\beta$ -Zein of High Purity. <i>Journal of Agricultural and Food Chemistry</i> , 2005, 53, 725-729.	5.2	83
65	Biochemical characterization of the glucose kinase from <i>Streptomyces coelicolor</i> compared to <i>Streptomyces peucetius</i> var. <i>caesius</i> . <i>Research in Microbiology</i> , 2005, 156, 361-366.	2.1	25
66	Purification and Characterization of Liver Lectins from a Lizard, <i>Sceloporus spinosus</i> . <i>Preparative Biochemistry and Biotechnology</i> , 2004, 34, 153-168.	1.9	1
67	Purification and structural characterization of lectins from the cnidarian <i>Bunodeopsis antillensis</i> . <i>Toxicon</i> , 2003, 42, 525-532.	1.6	10
68	Inter- and intra-genetic variation of four wild populations of <i>Prosopis</i> using rapid-pcr fingerprints. <i>Biodiversity and Conservation</i> , 2002, 11, 921-930.	2.6	17
69	Overexpression and Purification of <i>Rhizobium etli</i> Glutaminase A by Recombinant and Conventional Procedures. <i>Protein Expression and Purification</i> , 2001, 21, 432-437.	1.3	15
70	Rapid Purification and Biochemical Characterization of Glucose Kinase from <i>Streptomyces peucetius</i> var. <i>caesius</i> . <i>Archives of Biochemistry and Biophysics</i> , 2001, 394, 137-144.	3.0	14
71	PFA, a Novel Mollusk Agglutinin, Is Structurally Related to the Ribosome-Inactivating Protein Superfamily. <i>Archives of Biochemistry and Biophysics</i> , 2001, 394, 151-155.	3.0	15
72	Oxidative reactions of the pentose pathway and the origin of reducing equivalents for the biosynthesis of rubber in <i>Hevea brasiliensis</i> latex. <i>Journal of Chemical Technology and Biotechnology</i> , 2000, 75, 294-298.	3.2	0

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73	Purification and properties of a lipase from <i>Cephaloleia presignis</i> (Coleoptera, Chrysomelidae). <i>Biotechnology and Applied Biochemistry</i> , 2000, 31, 239.	3.1	31
74	Characterization and mapping of sequence-tagged microsatellite sites in the chickpea ( <i>Cicer arietinum</i> ) Tj ETQq0 0.0 rgBT /Overlock 10	2.4	220
75	Isolation and partial characterization of giraffine, a lectin from the Mexican endemic alga <i>Codium giraffa</i> Silva. <i>Botanica Marina</i> , 1999, 42, .	1.2	13
76	Sterol composition and biosynthesis in the sponge <i>Spherospongia vesparia</i> . <i>Journal of Chemical Technology and Biotechnology</i> , 1998, 72, 245-248.	3.2	4
77	Purification and characterization of several digestive proteases from the blue abalone, <i>Haliotis fulgens</i> . <i>Aquaculture</i> , 1998, 159, 203-216.	3.5	24
78	Biochemical properties of hemagglutinins in the mollusk <i>Pomacea flagellata</i> . <i>IUBMB Life</i> , 1997, 43, 1241-1251.	3.4	5
79	Preliminary assessment of protein associated with airborne particles in Mexico City. <i>Aerobiologia</i> , 1995, 11, 81-86.	1.7	9
80	Circular dichroism of stem bromelain: a third spectral class within the family of cysteine proteinases. <i>Biochemical Journal</i> , 1994, 300, 107-110.	3.7	42
81	Isolation and characterization of a protease from the marine sponge <i>Spherospongia vesparia</i> . <i>FEBS Letters</i> , 1993, 320, 235-238.	2.8	7
82	Purification and characterization of multiple forms of Asclepain g from <i>Asclepias glaucescens</i> H.B.K.. <i>Plant Science</i> , 1991, 74, 7-15.	3.6	23
83	Karyotypical studies on <i>Dormitor maculatus</i> Bloch and <i>Gobiomorus dormitor</i> Lacepede (Gobiidae:) Tj ETQq1 1 0.784314 rgBT /Overlock 13	0.6	13