Lina Ruiz

List of Publications by Year
in descending order

38 papers	1,219 citations	361296 20 h-index	395590 33 g-index
40 all docs	40 docs citations	40 times ranked	1369 citing authors

#	Article	IF	Citations
1	Role of Copper on Mitochondrial Function and Metabolism. Frontiers in Molecular Biosciences, 2021, 8, 711227.	1.6	189
2	AHL signaling molecules with a large acyl chain enhance biofilm formation on sulfur and metal sulfides by the bioleaching bacterium Acidithiobacillus ferrooxidans. Applied Microbiology and Biotechnology, 2013, 97, 3729-3737.	1.7	94
3	AHL communication is a widespread phenomenon in biomining bacteria and seems to be involved in mineral-adhesion efficiency. Hydrometallurgy, 2008, 94, 133-137.	1.8	61
4	In vivo binding of the Cry11Bb toxin of Bacillus thuringiensis subsp. medellin to the midgut of mosquito larvae (Diptera: Culicidae). Memorias Do Instituto Oswaldo Cruz, 2004, 99, 73-79.	0.8	59
5	Proposal of a simple and effective local reactivity descriptor through a topological analysis of an orbitalâ€weighted fukui function. Journal of Computational Chemistry, 2017, 38, 481-488.	1.5	58
6	The extremophile Acidithiobacillus ferrooxidans possesses a c-di-GMP signalling pathway that could play a significant role during bioleaching of minerals. Letters in Applied Microbiology, 2012, 54, 133-139.	1.0	56
7	Which NICS method is most consistent with ring current analysis? Assessment in simple monocycles. RSC Advances, 2018, 8, 13446-13453.	1.7	56
8	Theoretical Study of the Antioxidant Activity of Quercetin Oxidation Products. Frontiers in Chemistry, 2019, 7, 818.	1.8	48
9	Non-cytotoxic copper overload boosts mitochondrial energy metabolism to modulate cell proliferation and differentiation in the human erythroleukemic cell line K562. Mitochondrion, 2016, 29, 18-30.	1.6	45
10	Dexamethasone inhibits apoptosis of human neutrophils induced by reactive oxygen species. Inflammation, 2002, 26, 215-222.	1.7	38
11	Why is quercetin a better antioxidant than taxifolin? Theoretical study of mechanisms involving activated forms. Journal of Molecular Modeling, 2013, 19, 2165-2172.	0.8	38
12	Diguanylate Cyclase Null Mutant Reveals That C-Di-GMP Pathway Regulates the Motility and Adherence of the Extremophile Bacterium Acidithiobacillus caldus. PLoS ONE, 2015, 10, e0116399.	1.1	37
13	The Interplay among PINK1/PARKIN/Dj-1 Network during Mitochondrial Quality Control in Cancer Biology: Protein Interaction Analysis. Cells, 2018, 7, 154.	1.8	37
14	The Injection of Plasmid DNA in Mouse Muscle Results in Lifelong Persistence of DNA, Gene Expression, and Humoral Response. Molecular Biotechnology, 2004, 27, 109-118.	1.3	36
15	Revisiting Aromaticity and Chemical Bonding of Fluorinated Benzene Derivatives. ChemistryOpen, 2015, 4, 302-307.	0.9	33
16	Carbon rings decorated with group 14 elements: new aromatic clusters containing planar tetracoordinate carbon. New Journal of Chemistry, 2019, 43, 6781-6785.	1.4	31
17	Aromaticity in heterocyclic analogues of benzene: Dissected NICS and current density analysis. Journal of Physical Organic Chemistry, 2019, 32, e3823.	0.9	30
18	Copper deficiency-induced anemia is caused by a mitochondrial metabolic reprograming in erythropoietic cells. Metallomics, 2019, 11, 282-290.	1.0	28

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19	Copper deficiency alters cell bioenergetics and induces mitochondrial fusion through up-regulation of MFN2 and OPA1 in erythropoietic cells. Biochemical and Biophysical Research Communications, 2013, 437, 426-432.	1.0	27
20	Quercetin Affects Erythropoiesis and Heart Mitochondrial Function in Mice. Oxidative Medicine and Cellular Longevity, 2015, 2015, 1-12.	1.9	24
21	Adaptive Responses of Mitochondria to Mild Copper Deprivation Involve Changes in Morphology, OXPHOS Remodeling and Bioenergetics. Journal of Cellular Physiology, 2014, 229, 607-619.	2.0	19
22	The OXPHOS supercomplex assembly factor HIG2A responds to changes in energetic metabolism and cell cycle. Journal of Cellular Physiology, 2019, 234, 17405-17419.	2.0	18
23	Erythroid Differentiation and Heme Biosynthesis Are Dependent on a Shift in the Balance of Mitochondrial Fusion and Fission Dynamics. Frontiers in Cell and Developmental Biology, 2020, 8, 592035.	1.8	16
24	A theoretical analysis of codon adaptation index of the Boophilus microplus bm86 gene directed to the optimization of a DNA vaccine. Journal of Theoretical Biology, 2006, 239, 445-449.	0.8	15
25	Alterations of Mitochondrial Biology in the Oral Mucosa of Chilean Children with Autism Spectrum Disorder (ASD). Cells, 2019, 8, 367.	1.8	15
26	C-di-GMP Pathway in Biomining Bacteria. Advanced Materials Research, 0, 71-73, 223-226.	0.3	14
27	Li₇(BH)₅⁺: a new thermodynamically favored star-shaped molecule. Physical Chemistry Chemical Physics, 2015, 17, 19602-19606.	1.3	14
28	Seco-Taondiol, an Unusual Meroterpenoid from the Chilean Seaweed Stypopodium flabelliforme and Its Gastroprotective Effect in Mouse Model. Marine Drugs, 2015, 13, 1726-1738.	2.2	13
29	A Fukui functionâ€guided genetic algorithm. Assessment on structural prediction of Si_n (nâ€‰=â€‰12â€“20) clusters. Journal of Computational Chemistry, 2017, 38, 1668-1677.	1.5	11
30	Assessment of elliptic flame front propagation characteristics of hydrogen in an optically accessible spark ignition engine. International Journal of Hydrogen Energy, 2013, 38, 15452-15468.	3.8	10
31	Immune response in mice and cattle after immunization with a Boophilus microplus DNA vaccine containing bm86 gene. Veterinary Parasitology, 2007, 144, 138-145.	0.7	9
32	Interpreting Aromaticity and Antiaromaticity through Bifurcation Analysis of the Induced Magnetic Field. ChemistryOpen, 2019, 8, 321-326.	0.9	9
33	Gastroprotective activity of ent-beyerene derivatives in mice: Effects on gastric secretion, endogenous prostaglandins and non-protein sulfhydryls. Bioorganic and Medicinal Chemistry Letters, 2015, 25, 2813-2817.	1.0	8
34	Biosystem Analysis of the Hypoxia Inducible Domain Family Member 2A: Implications in Cancer Biology. Genes, 2020, 11, 206.	1.0	7
35	C-di-GMP Pathway in <i>Acidithiobacillus ferrooxidans</i>: Analysis of Putative Diguanylate Cyclases (DGCs) and Phosphodiesterases (PDEs) Bifunctional Proteins. Advanced Materials Research, 2007, 20-21, 551-555.	0.3	5
36	Structureâ€“antioxidant activity relationships in boldine and glaucine: a DFT study. New Journal of Chemistry, 2021, 45, 590-596.	1.4	2

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37	Dynamic Distribution of HIG2A between the Mitochondria and the Nucleus in Response to Hypoxia and Oxidative Stress. International Journal of Molecular Sciences, 2022, 23, 389.	1.8	2
38	Is the Quorum Sensing Type AI-1 System of <i>Acidithiobacillus ferrooxidans</i> Involved in its Attachment to Mineral Surfaces?. Advanced Materials Research, 0, 20-21, 345-349.	0.3	1