JosÃ© RubÃ©n Morones RamÃ-rez

List of Publications by Year
in descending order

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41	8,938	393982	288905
papers	citations	19 h-index	40 g-index

44	44	44	13972
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	The bactericidal effect of silver nanoparticles. Nanotechnology, 2005, 16, 2346-2353.	1.3	5,457
2	Interaction of silver nanoparticles with HIV-1. Journal of Nanobiotechnology, 2005, 3, 6.	4.2	1,271
3	Silver Enhances Antibiotic Activity Against Gram-Negative Bacteria. Science Translational Medicine, 2013, 5, 190ra81.	5.8	574
4	Bactericidal Antibiotics Induce Mitochondrial Dysfunction and Oxidative Damage in Mammalian Cells. Science Translational Medicine, 2013, 5, 192ra85.	5.8	391
5	Biomass and lipid induction strategies in microalgae for biofuel production and other applications. Microbial Cell Factories, 2019, 18, 178.	1.9	246
6	The Demand for New Antibiotics: Antimicrobial Peptides, Nanoparticles, and Combinatorial Therapies as Future Strategies in Antibacterial Agent Design. Frontiers in Microbiology, 2020, 11, 1669.	1.5	163
7	In vivo antimicrobial activity of silver nanoparticles produced via a green chemistry synthesis using Acacia rigidula as a reducing and capping agent. International Journal of Nanomedicine, 2018, Volume 13, 2349-2363.	3.3	117
8	Metabolic Engineering and Synthetic Biology: Synergies, Future, and Challenges. Frontiers in Bioengineering and Biotechnology, 2019, 7, 36.	2.0	78
9	Synergistic Antimicrobial Effects of Silver/Transition-metal Combinatorial Treatments. Scientific Reports, 2017, 7, 903.	1.6	69
10	Environmentally Sensitive Silver Nanoparticles of Controlled Size Synthesized with PNIPAM as a Nucleating and Capping Agent. Langmuir, 2007, 23, 8180-8186.	1.6	67
11	Bacterial Exopolysaccharides as Reducing and/or Stabilizing Agents during Synthesis of Metal Nanoparticles with Biomedical Applications. International Journal of Polymer Science, 2018, 2018, 1-15.	1.2	53
12	Microbial competition between Escherichia coli and Candida albicans reveals a soluble fungicidal factor. Microbial Cell, 2018, 5, 249-255.	1.4	44
13	Antimicrobial activity of a silver-microfibrillated cellulose biocomposite against susceptible and resistant bacteria. Scientific Reports, 2020, 10, 7281.	1.6	41
14	Microbial Competition of Rhodotorula mucilaginosa UANL-001L and E. coli increase biosynthesis of Non-Toxic Exopolysaccharide with Applications as a Wide-Spectrum Antimicrobial. Scientific Reports, 2018, 8, 798.	1.6	39
15	Antimicrobial and antibiofilm activity of biopolymer-Ni, Zn nanoparticle biocomposites synthesized using R. mucilaginosa UANL-001L exopolysaccharide as a capping agent . International Journal of Nanomedicine, 2019, Volume 14, 2557-2571.	3.3	34
16	Silver Nanoparticles Synthesized through Green Methods UsingEscherichia coliTop 10 (Ec-Ts) Growth Culture Medium Exhibit Antimicrobial Properties against Nongrowing Bacterial Strains. Journal of Nanomaterials, 2019, 2019, 1-8.	1.5	33
17	Expression and purification of recombinant proteins in Escherichia coli tagged with a small metal-binding protein from Nitrosomonas europaea. Protein Expression and Purification, 2016, 118, 49-54.	0.6	27
18	Nanomaterial-Based Antifungal Therapies to Combat Fungal Diseases Aspergillosis, Coccidioidomycosis, Mucormycosis, and Candidiasis. Pathogens, 2021, 10, 1303.	1.2	26

#	Article	IF	Citations
19	Bioinspired synthesis of optically and thermally responsive nanoporous membranes. NPG Asia Materials, 2013, 5, e52-e52.	3.8	22
20	Metal-Induced Production of a Novel Bioadsorbent Exopolysaccharide in a Native Rhodotorula mucilaginosa from the Mexican Northeastern Region. PLoS ONE, 2016, 11, e0148430.	1.1	19
21	Antibacterial Activity of combinatorial treatments composed of transition-metal/antibiotics against Mycobacterium tuberculosis. Scientific Reports, 2019, 9, 5471.	1.6	18
22	Room temperature synthesis of an optically and thermally responsive hybrid PNIPAMâ€“gold nanoparticle. Journal of Nanoparticle Research, 2010, 12, 1401-1414.	0.8	17
23	Re-sensitizing Ampicillin and Kanamycin-Resistant E. coli and S. aureus Using Synergistic Metal Micronutrients-Antibiotic Combinations. Frontiers in Bioengineering and Biotechnology, 2020, 8, 612.	2.0	16
24	Antibacterial and Antibiofilm Activity of Biosynthesized Silver Nanoparticles Coated With Exopolysaccharides Obtained From Rhodotorula mucilaginosa. IEEE Transactions on Nanobioscience, 2020, 19, 498-503.	2.2	16
25	Expression and purification of recombinant proteins in Escherichia coli tagged with the metal-binding protein CusF. Protein Expression and Purification, 2016, 121, 61-65.	0.6	14
26	Optimizing Periplasmic Expression in Escherichia coli for the Production of Recombinant Proteins Tagged with the Small Metal-Binding Protein SmbP. Molecular Biotechnology, 2019, 61, 451-460.	1.3	13
27	Production of recombinant proteins in Escherichia coli tagged with the fusion protein CusF3H+. Protein Expression and Purification, 2017, 132, 44-49.	0.6	12
28	Engineered small metalâ€binding protein tag improves the production of recombinant human growth hormone in the periplasm of EscherichiaAcoli. FEBS Open Bio, 2020, 10, 546-551.	1.0	8
29	Nanomaterials-Based Combinatorial Therapy as a Strategy to Combat Antibiotic Resistance. Antibiotics, 2022, 11, 794.	1.5	7
30	Development of a Theoretical Model That Predicts Optothermal Energy Conversion of Gold Metallic Nanoparticles. ACS Omega, 2020, 5, 1377-1383.	1.6	6
31	Biofilm formation and molecular analysis of intercellular adhesion gene cluster (icaABCD) among Staphylococcus aureus strains isolated from children with adenoiditis. Iranian Journal of Microbiology, 2021, 13, 458-463.	0.8	5
32	Environmentally responsive polymeric "intelligent" materials: the ideal components of non-mechanical valves that control flow in microfluidic systems. Brazilian Journal of Chemical Engineering, 2010, 27, 1-14.	0.7	5
33	Conversion of banana peel into diverse valuable metabolites using an autochthonous Rhodotorula mucilaginosa strain. Microbial Cell Factories, 2022, 21, .	1.9	5
34	Recombinant protein production data after expression in the bacterium Escherichia coli. Data in Brief, 2016, 7, 502-508.	0.5	4
35	LED control of gene expression in a nanobiosystem composed of metallic nanoparticles and a genetically modified E. coli strain. Journal of Nanobiotechnology, 2021, 19, 190.	4.2	4
36	Application of Extractive Fermentation on the Recuperation of Exopolysaccharide from Rhodotorula mucilaginosa UANL-001L. Fermentation, 2020, 6, 108.	1.4	3

#	Article	IF	Citations
37	Design and in silico analysis of a wholeâ€cell biosensor able to kill methicillinâ€resistant Staphylococcus aureus. Biotechnology and Applied Biochemistry, 2022, 69, 1373-1382.	1.4	3
38	Synthetic Biology Tools for Engineering Microbial Cells to Fight Superbugs. Frontiers in Bioengineering and Biotechnology, 2022, 10, .	2.0	3
39	Organic Waste as Reducing and Capping Agents for Synthesis of Silver Nanoparticles with Various Applications. ChemistrySelect, 2022, 7, .	0.7	2
40	Guest Editorial Special Section on Advances in NanoBioEngineering ICNBE 2018. IEEE Transactions on Nanobioscience, 2019, 18, 519-521.	2.2	0
41	Guest Editorial CINBI 2020 Special Issue. IEEE Transactions on Nanobioscience, 2022, 21, 86-88.	2.2	0