

Miguel Jose Yacaman

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

31
papers

10,224
citations

20
h-index

31
g-index

31
ext. papers

11,289
ext. citations

7.5
avg, IF

5.66
L-index

#	Paper	IF	Citations
31	The bactericidal effect of silver nanoparticles. <i>Nanotechnology</i> , 2005 , 16, 2346-53	3.4	4660
30	Synthesis of borophenes: Anisotropic, two-dimensional boron polymorphs. <i>Science</i> , 2015 , 350, 1513-6	33.3	1479
29	Atomic cobalt on nitrogen-doped graphene for hydrogen generation. <i>Nature Communications</i> , 2015 , 6, 8668	17.4	1077
28	Interaction of silver nanoparticles with HIV-1. <i>Journal of Nanobiotechnology</i> , 2005 , 3, 6	9.4	1020
27	The role of twinning in shape evolution of anisotropic noble metal nanostructures. <i>Journal of Materials Chemistry</i> , 2006 , 16, 3906		432
26	Corrosion at the Nanoscale: The Case of Silver Nanowires and Nanoparticles. <i>Chemistry of Materials</i> , 2005 , 17, 6042-6052	9.6	359
25	Exceptional oxidation activity with size-controlled supported gold clusters of low atomicity. <i>Nature Chemistry</i> , 2013 , 5, 775-81	17.6	322
24	The single-layered morphology of supported MoS ₂ -based catalysts: The role of the cobalt promoter and its effects in the hydrodesulfurization of dibenzothiophene. <i>Applied Catalysis A: General</i> , 2008 , 345, 80-88	5.1	118
23	The Role of Structural Carbon in Transition Metal Sulfides Hydrotreating Catalysts. <i>Journal of Catalysis</i> , 2001 , 198, 9-19	7.3	100
22	Thickness sorting of two-dimensional transition metal dichalcogenides via copolymer-assisted density gradient ultracentrifugation. <i>Nature Communications</i> , 2014 , 5, 5478	17.4	95
21	MicroED Structure of Au(p-MBA) at Subatomic Resolution Reveals a Twinned FCC Cluster. <i>Journal of Physical Chemistry Letters</i> , 2017 , 8, 5523-5530	6.4	81
20	Structural studies of catalytically stabilized model and industrial-supported hydrodesulfurization catalysts. <i>Journal of Catalysis</i> , 2004 , 225, 288-299	7.3	74
19	FePt Icosahedra with Magnetic Cores and Catalytic Shells. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 4395-4400	3.8	70
18	Manganese deception on graphene and implications in catalysis. <i>Carbon</i> , 2018 , 132, 623-631	10.4	48
17	Ultrastructural changes in methicillin-resistant <i>Staphylococcus aureus</i> induced by positively charged silver nanoparticles. <i>Beilstein Journal of Nanotechnology</i> , 2015 , 6, 2396-405	3	42
16	Inhibition of Biofilm Formation on Medical and Environmental Surfaces by Silver Nanoparticles. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 21183-21191	9.5	39
15	High-Concentration Aqueous Dispersions of Nanoscale 2D Materials Using Nonionic, Biocompatible Block Copolymers. <i>Small</i> , 2016 , 12, 294-300	11	39

14	Faceted MoS ₂ nanotubes and nanoflowers. <i>Materials Chemistry and Physics</i> , 2009 , 118, 392-397	4.4	29
13	Structure and catalytic properties of molybdenum sulfide nanoplatelets. <i>Applied Catalysis A: General</i> , 2007 , 328, 88-97	5.1	26
12	Tetrahedral () Closed-Shell Cluster of 29 Silver Atoms & 12 Lipoate Ligands, [Ag(R-LA)]: Antibacterial and Antifungal Activity. <i>ACS Applied Nano Materials</i> , 2018 , 1, 1595-1602	5.6	22
11	Characterization of low dimensional molybdenum sulfide nanostructures. <i>Materials Characterization</i> , 2008 , 59, 204-212	3.9	19
10	Synthesis, Mass Spectrometry, and Atomic Structural Analysis of Au~2000(SR)~290 Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 26733-26738	3.8	16
9	Ultra-small rhenium clusters supported on graphene. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 7898-7906	3.06	15
8	The Evolution of Growth, Crystal Orientation, and Grain Boundaries Disorientation Distribution in Gold Thin Films. <i>Crystal Research and Technology</i> , 2018 , 53, 1800038	1.3	14
7	Fivefold annealing twin in nanocrystalline Au/Pd film. <i>Materials Letters</i> , 2019 , 244, 88-91	3.3	8
6	Advances in the electron diffraction characterization of atomic clusters and nanoparticles. <i>Nanoscale Advances</i> , 2021 , 3, 311-325	5.1	7
5	Misorientation dependence grain boundary complexions in symmetric tilt Al grain boundaries. <i>Acta Materialia</i> , 2019 , 181, 216-227	8.4	5
4	Structural analysis of the epitaxial interface Ag/ZnO in hierarchical nanoantennas. <i>Applied Physics Letters</i> , 2016 , 109, 153104	3.4	4
3	A Direct Observation of Ordered Structures Induced by Cu Segregation at Grain Boundaries of Al 7075 Alloys. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2018 , 215, 1800240	1.6	2
2	Alloying and Annealing Effects on Grain Boundary Character Evolution of Al-alloy 7075 Thin Films: An ACOM-TEM Analysis. <i>Minerals, Metals and Materials Series</i> , 2019 , 109-119	0.3	1
1	Transmission Electron Microscopy of Multimetallic Nanoparticles 2020 , 33-74		1