

# Miguel Jose Yacaman

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/10477693/publications.pdf>

Version: 2024-02-01

31  
papers

12,483  
citations

361045

20  
h-index

454577

30  
g-index

31  
all docs

31  
docs citations

31  
times ranked

20153  
citing authors

#	ARTICLE	IF	CITATIONS
1	The bactericidal effect of silver nanoparticles. <i>Nanotechnology</i> , 2005, 16, 2346-2353.	1.3	5,457
2	Synthesis of borophenes: Anisotropic, two-dimensional boron polymorphs. <i>Science</i> , 2015, 350, 1513-1516.	6.0	2,047
3	Atomic cobalt on nitrogen-doped graphene for hydrogen generation. <i>Nature Communications</i> , 2015, 6, 8668.	5.8	1,356
4	Interaction of silver nanoparticles with HIV-1. <i>Journal of Nanobiotechnology</i> , 2005, 3, 6.	4.2	1,271
5	The role of twinning in shape evolution of anisotropic noble metal nanostructures. <i>Journal of Materials Chemistry</i> , 2006, 16, 3906.	6.7	455
6	Corrosion at the Nanoscale: The Case of Silver Nanowires and Nanoparticles. <i>Chemistry of Materials</i> , 2005, 17, 6042-6052.	3.2	411
7	Exceptional oxidation activity with size-controlled supported gold clusters of low atomicity. <i>Nature Chemistry</i> , 2013, 5, 775-781.	6.6	394
8	The single-layered morphology of supported MoS <sub>2</sub> -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.	2.2	134
9	Thickness sorting of two-dimensional transition metal dichalcogenides via copolymer-assisted density gradient ultracentrifugation. <i>Nature Communications</i> , 2014, 5, 5478.	5.8	126
10	The Role of Structural Carbon in Transition Metal Sulfides Hydrotreating Catalysts. <i>Journal of Catalysis</i> , 2001, 198, 9-19.	3.1	115
11	MicroED Structure of Au <sub>146</sub> (p-MBA) <sub>57</sub> at Subatomic Resolution Reveals a Twinned FCC Cluster. <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 5523-5530.	2.1	100
12	Structural studies of catalytically stabilized model and industrial-supported hydrodesulfurization catalysts. <i>Journal of Catalysis</i> , 2004, 225, 288-299.	3.1	89
13	Inhibition of <i>Candida auris</i> Biofilm Formation on Medical and Environmental Surfaces by Silver Nanoparticles. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 21183-21191.	4.0	76
14	FePt Icosahedra with Magnetic Cores and Catalytic Shells. <i>Journal of Physical Chemistry C</i> , 2009, 113, 4395-4400.	1.5	74
15	Ultrastructural changes in methicillin-resistant <i>Staphylococcus aureus</i> induced by positively charged silver nanoparticles. <i>Beilstein Journal of Nanotechnology</i> , 2015, 6, 2396-2405.	1.5	57
16	Manganese deception on graphene and implications in catalysis. <i>Carbon</i> , 2018, 132, 623-631.	5.4	54
17	High-Concentration Aqueous Dispersions of Nanoscale 2D Materials Using Nonionic, Biocompatible Block Copolymers. <i>Small</i> , 2016, 12, 294-300.	5.2	47
18	Faceted MoS <sub>2</sub> nanotubes and nanoflowers. <i>Materials Chemistry and Physics</i> , 2009, 118, 392-397.	2.0	31

#	ARTICLE	IF	CITATIONS
19	Structure and catalytic properties of molybdenum sulfide nanoplatelets. Applied Catalysis A: General, 2007, 328, 88-97.	2.2	28
20	Tetrahedral (<i>T</i>) Closed-Shell Cluster of 29 Silver Atoms & 12 Lipoate Ligands, [Ag<sub>29</sub>(R- $\dot{L}$ -LA)<sub>12</sub>] <sup>(3<math>\dot{A}</math>)</sup> : Antibacterial and Antifungal Activity. ACS Applied Nano Materials, 2018, 1, 1595-1602.	2.4	28
21	Characterization of low dimensional molybdenum sulfide nanostructures. Materials Characterization, 2008, 59, 204-212.	1.9	21
22	Ultra-small rhenium clusters supported on graphene. Physical Chemistry Chemical Physics, 2015, 17, 7898-7906.	1.3	21
23	Synthesis, Mass Spectrometry, and Atomic Structural Analysis of Au<sub> $\dot{A}$ 2000</sub>(SR)<sub> $\dot{A}$ 290</sub> Nanoparticles. Journal of Physical Chemistry C, 2018, 122, 26733-26738.	1.5	20
24	The Evolution of Growth, Crystal Orientation, and Grain Boundaries Disorientation Distribution in Gold Thin Films. Crystal Research and Technology, 2018, 53, 1800038.	0.6	16
25	Fivefold annealing twin in nanocrystalline Au/Pd film. Materials Letters, 2019, 244, 88-91.	1.3	14
26	Advances in the electron diffraction characterization of atomic clusters and nanoparticles. Nanoscale Advances, 2021, 3, 311-325.	2.2	13
27	Structural analysis of the epitaxial interface Ag/ZnO in hierarchical nanoantennas. Applied Physics Letters, 2016, 109, 153104.	1.5	12
28	Misorientation dependence grain boundary complexions in <math>\langle 111 \rangle</math> symmetric tilt Al grain boundaries. Acta Materialia, 2019, 181, 216-227.	3.8	11
29	A Direct Observation of Ordered Structures Induced by Cu Segregation at Grain Boundaries of Al 7075 Alloys. Physica Status Solidi (A) Applications and Materials Science, 2018, 215, 1800240.	0.8	3
30	Alloying and Annealing Effects on Grain Boundary Character Evolution of Al-alloy 7075 Thin Films: An ACOM-TEM Analysis. Minerals, Metals and Materials Series, 2019, , 109-119.	0.3	1
31	Transmission Electron Microscopy of Multimetallic Nanoparticles. , 2020, , 33-74.		1