

# MarÃ-a Teresa Cuberes

## List of Publications by Year in descending order

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59  
papers

1,254  
citations

430874

18  
h-index

377865

34  
g-index

59  
all docs

59  
docs citations

59  
times ranked

1108  
citing authors

#	ARTICLE	IF	CITATIONS
1	Room-temperature repositioning of individual C60 molecules at Cu steps: Operation of a molecular counting device. <i>Applied Physics Letters</i> , 1996, 69, 3016-3018.	3.3	204
2	Heterodyne force microscopy of PMMA/rubber nanocomposites: nanomapping of viscoelastic response at ultrasonic frequencies. <i>Journal Physics D: Applied Physics</i> , 2000, 33, 2347-2355.	2.8	136
3	Local transport and trapping issues in Al <sub>2</sub> O <sub>3</sub> gate oxide structures. <i>Applied Physics Letters</i> , 2000, 76, 2886-2888.	3.3	106
4	Scanning tunneling microscopy of individual molecules: beyond imaging. <i>Surface Science</i> , 1997, 386, 101-114.	1.9	88
5	Manipulation of Gold Nanoparticles: Influence of Surface Chemistry, Temperature, and Environment (Vacuum versus Ambient Atmosphere). <i>Langmuir</i> , 2008, 24, 1577-1581.	3.5	62
6	Fundamental considerations in the manipulation of a single C60 molecule on a surface with an STM. <i>Surface Science</i> , 1997, 386, 115-123.	1.9	51
7	Quantitative study of electron transport in ballistic-electron-emission microscopy. <i>Physical Review Letters</i> , 1993, 71, 149-152.	7.8	43
8	Rheological and tribological approaches as a tool for the development of sustainable lubricating greases based on nano-montmorillonite and castor oil. <i>Friction</i> , 2021, 9, 415-428.	6.4	36
9	Ballistic-electron emission microscopy on the Au/n-Si(111)7 $\times$ 7 interface. <i>Journal of Vacuum Science &amp; Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , 1994, 12, 2422.	1.6	34
10	Room temperature supramolecular repositioning at molecular interfaces using a scanning tunneling microscope. <i>Surface Science</i> , 1997, 371, L231-L234.	1.9	29
11	Probing the CaF <sub>2</sub> density of states at Au/CaF <sub>2</sub> /n-Si(111) interfaces with photoelectron spectroscopy and ballistic-electron emission microscopy. <i>Journal of Vacuum Science &amp; Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , 1994, 12, 2646.	1.6	24
12	Thermal annealing of the epitaxial Al/Si(111)7 $\times$ 7 interface: Al clustering, interfacial reaction, and Al-induced p+ doping. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 1995, 13, 2399-2406.	2.1	24
13	Nonlinear detection of ultrasonic vibration of AFM cantilevers in and out of contact with the sample. <i>Nanotechnology</i> , 2001, 12, 53-59.	2.6	24
14	Effect of dopant and DC bias potential on dielectric properties of polyvinyl alcohol (PVA)/PbTiO <sub>3</sub> - composite films. <i>Current Applied Physics</i> , 2011, 11, 1322-1325.	2.4	23
15	Ballistic-electron emission microscopy study of the Au/Si(111)7 $\times$ 7 and Au/CaF <sub>2</sub> /Si(111)7 $\times$ 7 interfaces. <i>Applied Physics Letters</i> , 1994, 64, 2300-2302.	3.3	22
16	Hot carrier transport effects in Al <sub>2</sub> O <sub>3</sub> -based metal-oxide-semiconductor structures. <i>Journal of Vacuum Science &amp; Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , 2000, 18, 2153.	1.6	21
17	Modification of a Nafion membrane by n-dodecyltrimethylammonium cation inclusion for potential application in DMFC. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 4023-4029.	7.1	20
18	Manipulation of C 60 molecules on Cu(111) surfaces using a scanning tunneling microscope. <i>Applied Physics A: Materials Science and Processing</i> , 1998, 66, S669-S673.	2.3	19

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19	Characterization of GaAs(100) surfaces by AES and LEED. <i>Surface Science</i> , 1991, 251-252, 145-149.	1.9	17
20	The DC bias function of electrical characterization of PVA induced nickel chloride composite film. <i>Ionics</i> , 2013, 19, 947-950.	2.4	17
21	Softwood-based sponge gels. <i>Cellulose</i> , 2016, 23, 3221-3238.	4.9	17
22	Intermittent-Contact Heterodyne Force Microscopy. <i>Journal of Nanomaterials</i> , 2009, 2009, 1-5.	2.7	16
23	Study of triamcinolone release and mucoadhesive properties of macroporous hybrid films for oral disease treatment. <i>Biomedical Physics and Engineering Express</i> , 2018, 4, 035009.	1.2	15
24	New hydrogels based on the interpenetration of physical gels of agarose and chemical gels of polyacrylamide. <i>European Polymer Journal</i> , 2009, 45, 932-939.	5.4	14
25	Ballistic-electron emission microscopy at metal/GaP(110) interfaces: Electron transport and Schottky-barrier heights. <i>Journal of Vacuum Science &amp; Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , 1993, 11, 1584.	1.6	13
26	Ultrasonic force microscopy on strained antimony nanoparticles. <i>Ultramicroscopy</i> , 2007, 107, 1053-1060.	1.9	12
27	Ultrasonic force microscopy on poly(vinyl alcohol)/SrTiO <sub>3</sub> nano-perovskites hybrid films. <i>Ultramicroscopy</i> , 2014, 142, 32-39.	1.9	11
28	Nanoscale Friction and Ultrasonics. <i>Nanoscience and Technology</i> , 2007, , 49-71.	1.5	11
29	Initial stages of heterojunction formation: Si on GaAs(100). <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 1991, 9, 939-943.	2.1	10
30	Morphology of thin Sb layers grown on Si(111)7 $\times$ 7 at room temperature. <i>Journal of Vacuum Science &amp; Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , 1996, 14, 1655.	1.6	10
31	New hydrogels from interpenetrated physical gels of agarose and chemical gels of polyacrylamide: Effect of relative concentration and crosslinking degree on the viscoelastic and thermal properties. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2010, 48, 2403-2412.	2.1	10
32	Physicochemical Characterization of Bioactive Compounds in Nanocarriers. <i>Current Pharmaceutical Design</i> , 2020, 26, 4163-4173.	1.9	9
33	Mechanical-Diode Mode Ultrasonic Friction Force Microscopy. <i>Journal of Physics: Conference Series</i> , 2007, 61, 224-228.	0.4	8
34	Structure, morphology and electrical properties of graphene oxide: CuBiS reinforced polystyrene hybrid nanocomposites. <i>Journal of Materials Science: Materials in Electronics</i> , 2017, 28, 16415-16425.	2.2	8
35	Thermal effects on the growth of SiO <sub>2</sub> on GaAs(100) by reduction of native oxides. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 1993, 11, 1028-1032.	2.1	7
36	Atomic force microscopy manipulation with ultrasonic excitation. <i>Journal of Physics: Conference Series</i> , 2008, 100, 052013.	0.4	7

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37	X-ray photoelectron spectroscopy study of the interfacial reactivity of Si with the oxidized GaAs(100) surface. Applied Physics Letters, 1990, 57, 2794-2796.	3.3	6
38	A scanning tunneling microscopy investigation of 4,4-dimethylbianthrone molecules adsorbed on Cu(111). Surface Science, 1997, 383, 37-49.	1.9	6
39	Supramolecular assembly of individual C 60 molecules on a monolayer of 4,4 -dimethylbianthrone molecules. Applied Physics A: Materials Science and Processing, 1998, 66, S745-S748.	2.3	6
40	Development of Thermal Sensor by Reinforced Graphene Nanoplatelets Thermoplastic Blends. Polymer-Plastics Technology and Engineering, 2018, 57, 380-386.	1.9	6
41	Studies on the Surface and Wetting Properties of Poly(vinylidene Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 587 Td (fluoride)/Pol Treatment. Journal of Materials Engineering and Performance, 2021, 30, 7343-7353.	2.5	6
42	Nanostructural Arrangements and Surface Morphology on Ureasil-Polyether Films Loaded with Dexamethasone Acetate. Nanomaterials, 2021, 11, 1362.	4.1	6
43	Ultrasonic Machining at the Nanometer Scale. Journal of Physics: Conference Series, 2007, 61, 219-223.	0.4	5
44	Nanoscale Visualization of Elastic Inhomogeneities at TiN Coatings Using Ultrasonic Force Microscopy. Nanoscale Research Letters, 2009, 4, 1493-1501.	5.7	5
45	p+ doping of Si by Al diffusion upon annealing Al/n-Si(111)7Å-7. Applied Physics Letters, 1995, 66, 3010-3012.	3.3	4
46	Mechanical Diode-Based Ultrasonic Atomic Force Microscopies. Nanoscience and Technology, 2009, , 39-71.	1.5	4
47	Characterization of a New Scaffold Formed of Polyelectrolyte Complexes Using Atomic Force and Ultrasonic Force Microscopy. Journal of Biomedical Nanotechnology, 2009, 5, 716-721.	1.1	4
48	Ultrasonic Nanofabrication with an AFM. Imaging & Microscopy, 2007, 9, 36-38.	0.1	3
49	Chemical and homogeneity changes of a Nafion membrane surface associated to its doping with the cation of the room-temperature ionic liquid AliquatCl. Surface and Interface Analysis, 2016, 48, 561-565.	1.8	3
50	Nanoscale Friction and Ultrasonics. Nanoscience and Technology, 2015, , 35-55.	1.5	3
51	SiO2 growth on GaAs as a result of chemical reactions between Si and GaAs oxides. Surface Science, 1991, 251-252, 92-96.	1.9	2
52	Energy Dissipation in the Mechanical-Diode Jump of a Nanoscale Contact. Materials Research Society Symposia Proceedings, 2008, 1085, 51401.	0.1	2
53	Nanoscale ultrasonics in liquid environment. Journal of Physics: Conference Series, 2008, 100, 052014.	0.4	2
54	The chemistry of O in reduction processes of the GaAs native oxides. Surface Science, 1992, 269-270, 929-933.	1.9	1

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55	Optimized surface topography of thermoplastics blends modified by graphene. AIP Conference Proceedings, 2016, , .	0.4	1
56	PVA/K <sub>2</sub> Ti <sub>6</sub> O <sub>13</sub> synthetic composite for dielectric applications. AIP Conference Proceedings, 2016, , .	0.4	1
57	Order at the boundaries of phase-shifted domains on Si(111). Journal of Physics Condensed Matter, 1996, 8, 8743-8751.	1.8	0
58	Granular Co/Ag multilayers with crystalline coherence. Journal of Magnetism and Magnetic Materials, 2007, 310, e772-e774.	2.3	0
59	Nanoscale Elastic and Tribological Properties of Poly(Acrylic Acid) Superabsorbent Gels. Materials Research Society Symposia Proceedings, 2008, 1085, 50301.	0.1	0