MarÃ-a Teresa Cuberes

List of Publications by Year
in descending order

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	Rheological and tribological approaches as a tool for the development of sustainable lubricating greases based on nano-montmorillonite and castor oil. Friction, 2021, 9, 415-428.	6.4	36
2	Studies on the Surface and Wetting Properties of Poly(vinylidene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 707 Td (fluoride)/Poly(acrylonitr Treatment. Journal of Materials Engineering and Performance, 2021, 30, 7343-7353.	2.5	6
3	Nanostructural Arrangements and Surface Morphology on Ureasil-Polyether Films Loaded with Dexamethasone Acetate. Nanomaterials, 2021, 11, 1362.	4.1	6
4	Physicochemical Characterization of Bioactive Compounds in Nanocarriers. Current Pharmaceutical Design, 2020, 26, 4163-4173.	1.9	9
5	Study of triamcinolone release and mucoadhesive properties of macroporous hybrid films for oral disease treatment. Biomedical Physics and Engineering Express, 2018, 4, 035009.	1.2	15
6	Development of Thermal Sensor by Reinforced Graphene Nanoplatelets Thermoplastic Blends. Polymer-Plastics Technology and Engineering, 2018, 57, 380-386.	1.9	6
7	Structure, morphology and electrical properties of graphene oxide: CuBiS reinforced polystyrene hybrid nanocomposites. Journal of Materials Science: Materials in Electronics, 2017, 28, 16415-16425.	2.2	8
8	Chemical and homogeneity changes of a Nafion membrane surface associated to its doping with the cation of the roomâ€temperature ionic liquid AliquatCl. Surface and Interface Analysis, 2016, 48, 561-565.	1.8	3
9	Optimized surface topography of thermoplastics blends modified by graphene. AIP Conference Proceedings, 2016, , .	0.4	1
10	PVA/K2Ti6O13 synthetic composite for dielectric applications. AIP Conference Proceedings, 2016, , .	0.4	1
11	Softwood-based sponge gels. Cellulose, 2016, 23, 3221-3238.	4.9	17
12	Nanoscale Friction and Ultrasonics. Nanoscience and Technology, 2015, , 35-55.	1.5	3
13	Modification of a Nafion membrane by n-dodecyltrimethylammonium cation inclusion for potential application in DMFC. International Journal of Hydrogen Energy, 2014, 39, 4023-4029.	7.1	20
14	Ultrasonic force microscopy on poly(vinyl alcohol)/SrTiO3 nano-perovskites hybrid films. Ultramicroscopy, 2014, 142, 32-39.	1.9	11
15	The DC bias function of electrical characterization of PVA inducted nickel chloride composite film. Ionics, 2013, 19, 947-950.	2.4	17
16	Effect of dopant and DC bias potential on dielectric properties of polyvinyl alcohol (PVA)/PbTiO3 - composite films. Current Applied Physics, 2011, 11, 1322-1325.	2.4	23
17	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. Journal of Polymer Science, Part B: Polymer Physics, 2010, 48, 2403-2412.	2.1	10
18	Intermittent-Contact Heterodyne Force Microscopy. Journal of Nanomaterials, 2009, 2009, 1-5.	2.7	16

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19	Nanoscale Visualization of Elastic Inhomogeneities at TiN Coatings Using Ultrasonic Force Microscopy. Nanoscale Research Letters, 2009, 4, 1493-1501.	5.7	5
20	New hydrogels based on the interpenetration of physical gels of agarose and chemical gels of polyacrylamide. European Polymer Journal, 2009, 45, 932-939.	5.4	14
21	Mechanical Diode-Based Ultrasonic Atomic Force Microscopies. Nanoscience and Technology, 2009, , 39-71.	1.5	4
22	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
23	Manipulation of Gold Nanoparticles:â€‰ Influence of Surface Chemistry, Temperature, and Environment (Vacuum versus Ambient Atmosphere). Langmuir, 2008, 24, 1577-1581.	3.5	62
24	Energy Dissipation in the Mechanical-Diode Jump of a Nanoscale Contact. Materials Research Society Symposia Proceedings, 2008, 1085, 51401.	0.1	2
25	Nanoscale Elastic and Tribological Properties of Poly(Acrylic Acid) Superabsorbent Gels. Materials Research Society Symposia Proceedings, 2008, 1085, 50301.	0.1	0
26	Nanoscale ultrasonics in liquid environment. Journal of Physics: Conference Series, 2008, 100, 052014.	0.4	2
27	Atomic force microscopy manipulation with ultrasonic excitation. Journal of Physics: Conference Series, 2008, 100, 052013.	0.4	7
28	Ultrasonic Machining at the Nanometer Scale. Journal of Physics: Conference Series, 2007, 61, 219-223.	0.4	5
29	Mechanical-Diode Mode Ultrasonic Friction Force Microscopy. Journal of Physics: Conference Series, 2007, 61, 224-228.	0.4	8
30	Ultrasonic Nanofabrication with an AFM. Imaging & Microscopy, 2007, 9, 36-38.	0.1	3
31	Ultrasonic force microscopy on strained antimony nanoparticles. Ultramicroscopy, 2007, 107, 1053-1060.	1.9	12
32	Granular Co/Ag multilayers with crystalline coherence. Journal of Magnetism and Magnetic Materials, 2007, 310, e772-e774.	2.3	0
33	Nanoscale Friction and Ultrasonics. Nanoscience and Technology, 2007, , 49-71.	1.5	11
34	Nonlinear detection of ultrasonic vibration of AFM cantilevers in and out of contact with the sample. Nanotechnology, 2001, 12, 53-59.	2.6	24
35	Hot carrier transport effects in Al[sub 2]O[sub 3]-based metal-oxide-semiconductor structures. Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena, 2000, 18, 2153.	1.6	21
36	Heterodyne force microscopy of PMMA/rubber nanocomposites: nanomapping of viscoelastic response at ultrasonic frequencies. Journal Physics D: Applied Physics, 2000, 33, 2347-2355.	2.8	136

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37	Local transport and trapping issues in Al2O3 gate oxide structures. Applied Physics Letters, 2000, 76, 2886-2888.	3.3	106
38	Manipulation of C 60 molecules on Cu(111) surfaces using a scanning tunneling microscope. Applied Physics A: Materials Science and Processing, 1998, 66, S669-S673.	2.3	19
39	Supramolecular assembly of individual C 60 molecules on a monolayer of 4,4 â€² -dimethylbianthrone molecules. Applied Physics A: Materials Science and Processing, 1998, 66, S745-S748.	2.3	6
40	Room temperature supramolecular repositioning at molecular interfaces using a scanning tunneling microscope. Surface Science, 1997, 371, L231-L234.	1.9	29
41	A scanning tunneling microscopy investigation of 4,4â€²-dimethylbianthrone molecules adsorbed on Cu(111). Surface Science, 1997, 383, 37-49.	1.9	6
42	Scanning tunneling microscopy of individual molecules: beyond imaging. Surface Science, 1997, 386, 101-114.	1.9	88
43	Fundamental considerations in the manipulation of a single C60 molecule on a surface with an STM. Surface Science, 1997, 386, 115-123.	1.9	51
44	Roomâ€temperature repositioning of individual C60 molecules at Cu steps: Operation of a molecular counting device. Applied Physics Letters, 1996, 69, 3016-3018.	3.3	204
45	Morphology of thin Sb layers grown on Si(111)7Ã—7 at room temperature. Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena, 1996, 14, 1655.	1.6	10
46	Order at the boundaries of phase-shifted domains on Si(111). Journal of Physics Condensed Matter, 1996, 8, 8743-8751.	1.8	0
47	Thermal annealing of the epitaxial Al/Si(111)7Ã—7 interface: Al clustering, interfacial reaction, and Alâ€induced p+ doping. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 1995, 13, 2399-2406.	2.1	24
48	p+ doping of Si by Al diffusion upon annealing Al/nâ€Si(111)7Ã—7. Applied Physics Letters, 1995, 66, 3010-3012.	3.3	4
49	Probing the CaF2 density of states at Au/CaF2/n-Si(111) interfaces with photoelectron spectroscopy and ballistic-electron emission microscopy. Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena, 1994, 12, 2646.	1.6	24
50	Ballistic-electron emission microscopy on the Au/n-Si(111)7Ã—7 interface. Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena, 1994, 12, 2422.	1.6	34
51	Ballisticâ€electron emission microscopy study of the Au/Si(111)7Ã—7 and Au/CaF2/Si(111)7Ã—7 interfaces. Applied Physics Letters, 1994, 64, 2300-2302.	3.3	22
52	Thermal effects on the growth of SiO2 on GaAs(100) by reduction of native oxides. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 1993, 11, 1028-1032.	2.1	7
53	Quantitative study of electron transport in ballistic-electron-emission microscopy. Physical Review Letters, 1993, 71, 149-152.	7.8	43
54	Ballistic-electron emission microscopy at metal/GaP(110) interfaces: Electron transport and Schottky-barrier heights. Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena, 1993, 11, 1584.	1.6	13

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55	The chemistry of O in reduction processes of the GaAs native oxides. Surface Science, 1992, 269-270, 929-933.	1.9	1
56	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
57	Characterization of GaAs(100) surfaces by AES and LEED. Surface Science, 1991, 251-252, 145-149.	1.9	17
58	Initial stages of heterojunction formation: Si on GaAs(100). Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 1991, 9, 939-943.	2.1	10
59	Xâ€ray photoelectron spectroscopy study of the interfacial reactivity of Si with the oxidized GaAsâ€‰(100) surface. Applied Physics Letters, 1990, 57, 2794-2796.	3.3	6