

Jaime Colchero

List of Publications by Year in descending order

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papers

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36
all docs

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docs citations

36
times ranked

878
citing authors

#	ARTICLE	IF	CITATIONS
1	Rose petal effect: A subtle combination of nano-scale roughness and chemical variability. Nano Select, 2022, 3, 977-989.	1.9	17
2	Kelvin Probe Microscopy Investigation of Poly-Octylthiophene Aggregates. Materials, 2022, 15, 1212.	1.3	0
3	Fine defect engineering of graphene friction. Carbon, 2021, 182, 735-741.	5.4	14
4	Photoinduced Charge Transfer and Trapping on Single Gold Metal Nanoparticles on TiO ₂ . ACS Applied Materials & Interfaces, 2021, 13, 50531-50538.	4.0	12
5	Nanoscale Charge Density and Dynamics in Graphene Oxide. , 2021, 3, 1826-1831.		3
6	A method to simulate the optical image from far-field scattering numerical data and its application to the total internal reflection microscopy of metallic nanowires. Journal of Microscopy, 2019, 276, 21-26.	0.8	0
7	Nanoscale J-aggregates of poly(3-hexylthiophene): key to electronic interface interactions with graphene oxide as revealed by KPFM. Nanoscale, 2019, 11, 11202-11208.	2.8	4
8	Neutron reflectometry and hard X-ray photoelectron spectroscopy study of the vertical segregation of PCBM in organic solar cells. Solar Energy Materials and Solar Cells, 2019, 191, 62-70.	3.0	8
9	In situ characterization of nanoscale contaminations adsorbed in air using atomic force microscopy. Beilstein Journal of Nanotechnology, 2018, 9, 2925-2935.	1.5	4
10	A Dual Interaction Between the 5' and 3'-Ends of the Melon Necrotic Spot Virus (MNSV) RNA Genome Is Required for Efficient Cap-Independent Translation. Frontiers in Plant Science, 2018, 9, 625.	1.7	3
11	True non-contact atomic force microscopy imaging of heterogeneous biological samples in liquids: topography and material contrast. Nanoscale, 2017, 9, 2903-2915.	2.8	14
12	Nanophotoactivity of Porphyrin Functionalized Polycrystalline ZnO Films. ACS Applied Materials & Interfaces, 2016, 8, 16783-16790.	4.0	7
13	Conducting polymers as electron glasses: surface charge domains and slow relaxation. Scientific Reports, 2016, 6, 21647.	1.6	10
14	Flatten plus™: a recent implementation in WSxM for biological research. Bioinformatics, 2015, 31, 2918-2920.	1.8	19
15	Structural characterization of selective area growth GaN nanowires by non-destructive optical and electrical techniques. Journal Physics D: Applied Physics, 2015, 48, 305301.	1.3	3
16	The influence of AlN buffer over the polarity and the nucleation of self-organized GaN nanowires. Journal of Applied Physics, 2015, 117, .	1.1	55
17	Conductivity and nanoscale morphology of thin films prepared from indolo[2,3-a]carbazole and 11,12-dioctylindolo[2,3-a]carbazole. Journal of Materials Science: Materials in Electronics, 2014, 25, 5452-5461.	1.1	2
18	Metal-conducting polymer interface studied by Kelvin probe microscopy: Au and Al on poly(3-octylthiophene). Journal of Polymer Science, Part B: Polymer Physics, 2014, 52, 1083-1093.	2.4	2

#	ARTICLE	IF	CITATIONS
19	Calibration of oscillation amplitude in dynamic scanning force microscopy. <i>Nanotechnology</i> , 2013, 24, 185701.	1.3	4
20	Note: Submicrometer-precision sample holder for accurate re-positioning of samples in scanning force microscopy. <i>Review of Scientific Instruments</i> , 2013, 84, 046101.	0.6	3
21	Photobleaching of MEH-PPV thin films: Correlation between optical properties and the nanoscale surface photovoltage. <i>Solar Energy Materials and Solar Cells</i> , 2013, 117, 15-21.	3.0	8
22	Nanoscale Electro-Optical Properties of Organic Semiconducting Thin Films: From Individual Materials to the Blend. <i>Journal of Physical Chemistry C</i> , 2012, 116, 17919-17927.	1.5	7
23	Nanoscale measurement of the power spectral density of surface roughness: how to solve a difficult experimental challenge. <i>Nanoscale Research Letters</i> , 2012, 7, 174.	3.1	58
24	Molecular structure of poly(3-alkyl-thiophenes) investigated by calorimetry and grazing incidence X-ray scattering. <i>Solar Energy Materials and Solar Cells</i> , 2012, 97, 109-118.	3.0	26
25	Synthesis and electro-optical characterization of new conducting PEDOT/Au nanorods nanocomposites. <i>Polymers for Advanced Technologies</i> , 2011, 22, 1665-1672.	1.6	5
26	The influence of UV radiation and ozone exposure on the electronic properties of poly-3-octyl-thiophene thin films. <i>Solar Energy Materials and Solar Cells</i> , 2011, 95, 1326-1332.	3.0	15
27	Layered self-organized structures on poly(3-octylthiophene) thin films studied by scanning probe microscopy. <i>European Polymer Journal</i> , 2008, 44, 2506-2515.	2.6	14
28	Formation and Rupture of Schottky Nanocontacts on ZnO Nanocolumns. <i>Nano Letters</i> , 2007, 7, 1505-1511.	4.5	54
29	Nanogoniometry with Scanning Force Microscopy: A Model Study of CdTe Thin Films. <i>Small</i> , 2007, 3, 474-480.	5.2	5
30	Nanoscale Characterization of the Morphology and Electrostatic Properties of Poly(3-octylthiophene)/Graphite-Nanoparticle Blends. <i>Advanced Functional Materials</i> , 2006, 16, 1975-1984.	7.8	25
31	Quantitative analysis of tip-sample interaction in non-contact scanning force spectroscopy. <i>Nanotechnology</i> , 2006, 17, 5491-5500.	1.3	19
32	Polarity Effects on ZnO Films Grown along the Nonpolar $[11\bar{2}0]$ Direction. <i>Physical Review Letters</i> , 2005, 95, 226105.	2.9	63
33	Imaging and Mapping Protein-Binding Sites on DNA Regulatory Regions with Atomic Force Microscopy. <i>Biochemical and Biophysical Research Communications</i> , 2001, 280, 151-157.	1.0	31
34	Characterization by atomic force microscopy and cryoelectron microscopy of tau polymers assembled in Alzheimer's disease ¹ . <i>Journal of Alzheimer's Disease</i> , 2001, 3, 443-451.	1.2	14
35	Investigation of the Na,K-ATPase by SFM. , 1993, , 275-308.		2
36	Na, K-ATPase in crystalline form investigated by scanning force microscopy. <i>Ultramicroscopy</i> , 1992, 42-44, 1133-1140.	0.8	11