Maria Jose Esplandiu

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	From radial to unidirectional water pumping in zeta-potential modulated Nafion nanostructures. Nature Communications, 2022, 13, 2812.	12.8	12
2	Electrophoretic origin of long-range repulsion of colloids near water/Nafion interfaces. Soft Matter, 2020, 16, 3717-3726.	2.7	23
3	Water-mediated photo-induced reduction of platinum films. Journal of Synchrotron Radiation, 2019, 26, 1288-1293.	2.4	4
4	Impact of the <i>in situ</i> rise in hydrogen partial pressure on graphene shape evolution during CVD growth of graphene. RSC Advances, 2018, 8, 8234-8239.	3.6	7
5	Unraveling the Operational Mechanisms of Chemically Propelled Motors with Micropumps. Accounts of Chemical Research, 2018, 51, 1921-1930.	15.6	37
6	Photochemically Activated Motors: From Electrokinetic to Diffusion Motion Control. ACS Applied Materials & Interfaces, 2017, 9, 44948-44953.	8.0	15
7	Key parameters controlling the performance of catalytic motors. Journal of Chemical Physics, 2016, 144, 124702.	3.0	24
8	Water Affinity and Surface Charging at the z-Cut and y-Cut LiNbO ₃ Surfaces: An Ambient Pressure X-ray Photoelectron Spectroscopy Study. Journal of Physical Chemistry C, 2016, 120, 24048-24055.	3.1	21
9	Elucidation of the wettability of graphene through a multi-length-scale investigation approach. RSC Advances, 2015, 5, 39532-39538.	3.6	10
10	Silicon-Based Chemical Motors: An Efficient Pump for Triggering and Guiding Fluid Motion Using Visible Light. ACS Nano, 2015, 9, 11234-11240.	14.6	59
11	Sequential Tasks Performed by Catalytic Pumps for Colloidal Crystallization. Langmuir, 2014, 30, 11841-11845.	3.5	24
12	Synthesis of polydopamine at the femtoliter scale and confined fabrication of Ag nanoparticles on surfaces. Chemical Communications, 2014, 50, 12548-12551.	4.1	21
13	Electrocatalytic tuning of biosensing response through electrostatic or hydrophobic enzyme–graphene oxide interactions. Biosensors and Bioelectronics, 2014, 61, 655-662.	10.1	42
14	Ultrasensitive force detection with a nanotube mechanical resonator. Nature Nanotechnology, 2013, 8, 493-496.	31.5	327
15	Imaging the Proton Concentration and Mapping the Spatial Distribution of the Electric Field of Catalytic Micropumps. Physical Review Letters, 2013, 111, 168301.	7.8	52
16	Real time protein recognition in a liquid-gated carbon nanotube field-effect transistor modified with aptamers. Nanoscale, 2012, 4, 5917.	5.6	23
17	Asymmetric Hybrid Silica Nanomotors for Capture and Cargo Transport: Towards a Novel Motionâ€Based DNA Sensor. Small, 2012, 8, 2053-2059	10.0	86
18	A simple approach for DNA detection on carbon nanotube microelectrode arrays. Sensors and Actuators B: Chemical, 2012, 162, 120-127.	7.8	13

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19	Massive manufacture and characterization of single-walled carbon nanotube field effect transistors. Microelectronic Engineering, 2010, 87, 1554-1556.	2.4	21
20	Strategies for the optimization of carbon nanotube/polymer ratio in composite materials: Applications as voltammetric sensors. Sensors and Actuators B: Chemical, 2010, 146, 353-360.	7.8	43
21	Impedimetric genosensing of DNA polymorphism correlated to cystic fibrosis: A comparison among different protocols and electrode surfaces. Biosensors and Bioelectronics, 2010, 26, 1245-1251.	10.1	26
22	Electrostatic and Hydrophobic Interactions Involved in CNT Biofunctionalization with Short ss-DNA. Journal of Physical Chemistry C, 2010, 114, 4459-4465.	3.1	18
23	Electron Counting Spectroscopy of CdSe Quantum Dots. Physical Review Letters, 2009, 102, 226804.	7.8	13
24	Enhancing the electrochemical response of myoglobin with carbon nanotube electrodes. Nanotechnology, 2009, 20, 355502.	2.6	24
25	Using electron and ion beams on carbon nanotube-based devices. Effects and considerations for nanofabrication. Microelectronic Engineering, 2009, 86, 892-894.	2.4	21
26	Impedimetric genosensors employing COOH-modified carbon nanotube screen-printed electrodes. Biosensors and Bioelectronics, 2009, 24, 2885-2891.	10.1	59
27	Carbon nanotube/polysulfone soft composites: preparation, characterization and application for electrochemical sensing of biomarkers. Physical Chemistry Chemical Physics, 2009, 11, 7721.	2.8	23
28	Electrocatalyzed O ₂ Response of Myoglobin Immobilized on Multi-Walled Carbon Nanotube Forest Electrodes. Journal of Nanoscience and Nanotechnology, 2009, 9, 6132-6138.	0.9	4
29	Electrochemical behavior of rigid carbon nanotube composite electrodes. Journal of Electroanalytical Chemistry, 2008, 619-620, 117-124.	3.8	104
30	Signal amplification for impedimetric genosensing using gold-streptavidin nanoparticles. Electrochimica Acta, 2008, 53, 4022-4029.	5.2	63
31	Mechanical detection and mode shape imaging of vibrational modes of micro and nanomechanical resonators by dynamic force microscopy. Journal of Physics: Conference Series, 2008, 100, 052009.	0.4	3
32	Detecting Individual Electrons Using a Carbon Nanotube Field-Effect Transistor. Nano Letters, 2007, 7, 3766-3769.	9.1	44
33	Local growth of carbon nanotubes by thermal chemical vapor deposition from iron based precursor nanoparticles. , 2007, , .		3
34	Carbon Nanotubes and Electrochemistry. Zeitschrift Fur Physikalische Chemie, 2007, 221, 1161-1173.	2.8	17
35	Mechanical Detection of Carbon Nanotube Resonator Vibrations. Physical Review Letters, 2007, 99, 085501.	7.8	191
36	Simple route for intermatrix synthesis of polymer stabilized core-shell metal nanoparticles for sensor applications. Physica Status Solidi (A) Applications and Materials Science, 2007, 204, 1686-1692.	1.8	17

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37	Urea impedimetric biosensor based on polymer degradation onto interdigitated electrodes. Sensors and Actuators B: Chemical, 2006, 118, 84-89.	7.8	19
38	Electrochemical STM investigation of 1,8-octanedithiol monolayers on Au(111) Surface Science, 2006, 600, 155-172.	1.9	65
39	Impedimetric genosensors for the detection of DNA hybridization. Analytical and Bioanalytical Chemistry, 2006, 385, 1195-1201.	3.7	67
40	Reactivity of 1,8-octanedithiol monolayers on Au(111): Experimental and theoretical investigation. Journal of Electroanalytical Chemistry, 2005, 579, 13-23.	3.8	49
41	Mechanisms of Single-Walled Carbon Nanotube Probeâ	2.6	25
42	Influence of Elastic Deformation on Single-Wall Carbon Nanotube Atomic Force Microscopy Probe Resolution. Journal of Physical Chemistry B, 2004, 108, 13613-13618.	2.6	37
43	Nanoelectrode Scanning Probes from Fluorocarbon-Coated Single-Walled Carbon Nanotubes. Nano Letters, 2004, 4, 1873-1879.	9.1	45
44	Functionalized self-assembled monolayers and their influence on silver electrodeposition. Solid State Ionics, 2002, 150, 39-52.	2.7	38
45	XPS investigations on the interactions of 1,6-hexanedithiol/Au(1 1 1) layers with metallic and ionic silver species. Applied Surface Science, 2002, 199, 166-182.	6.1	43
46	4-Nitrothiophenol SAM on Au(111) Investigated by in Situ STM, Electrochemistry, and XPS. Langmuir, 2001, 17, 3454-3459.	3.5	64
47	Functionalized Self-Assembled Alkanethiol Monolayers on Au(111) Electrodes:  2. Silver Electrodeposition. Langmuir, 2001, 17, 839-848.	3.5	53
48	Functionalized Self-Assembled Alkanethiol Monolayers on Au(111) Electrodes:  1. Surface Structure and Electrochemistry. Langmuir, 2001, 17, 828-838.	3.5	178
49	Electrolytic metal deposition onto chemically modified electrodes. Applied Physics A: Materials Science and Processing, 1999, 69, 537-551.	2.3	46
50	Ellipsometric Study of Bovine Serum Albumin Adsorbed onto Ti/TiO2 Electrodes. Journal of Colloid and Interface Science, 1999, 218, 404-411.	9.4	78
51	An in situ scanning tunneling microscopy study of Ag electrodeposition on Au(111). Physical Chemistry Chemical Physics, 1999, 1, 4847-4854.	2.8	106
52	The oxygen and chlorine evolution reactions at titanium oxide electrodes modified with platinum. Electrochimica Acta, 1998, 43, 1785-1794.	5.2	43
53	Title is missing!. Journal of Applied Electrochemistry, 1998, 28, 1213-1219.	2.9	62
54	Ellipsometric investigation of anodic hafnium oxide films. Electrochimica Acta, 1997, 42, 1315-1324.	5.2	15

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55	Characterization of hafnium anodic oxide films: An AC impedance investigation. Electrochimica Acta, 1995, 40, 809-815.	5.2	62
56	Characterization of hafnium oxide films modified by Pt doping. Electrochimica Acta, 1995, 40, 2587-2593.	5.2	20
57	Influence of the forming electrolyte on the electrical properties of anodic hafnium oxide films: an ac impedance investigation. Journal of Electroanalytical Chemistry, 1993, 353, 161-176.	3.8	16