

M Carmen LÃ³pez-Santos

List of Publications by Year in descending order

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times ranked

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#	ARTICLE	IF	CITATIONS
1	Plasma engineering of microstructured piezo-triboelectric hybrid nanogenerators for wide bandwidth vibration energy harvesting. <i>Nano Energy</i> , 2022, 91, 106673.	8.2	12
2	Highly Anisotropic Organometal Halide Perovskite Nanowalls Grown by Glancing-Angle Deposition. <i>Advanced Materials</i> , 2022, 34, e2107739.	11.1	5
3	Electron Beam Evaporated vs. Magnetron Sputtered Nanocolumnar Porous Stainless Steel: Corrosion Resistance, Wetting Behavior and Anti-bacterial Activity. <i>Materials Today Communications</i> , 2022, 31, 103266.	0.9	7
4	Highly Anisotropic Organometal Halide Perovskite Nanowalls Grown by Glancing-Angle Deposition (Adv. Mater. 18/2022). <i>Advanced Materials</i> , 2022, 34, .	11.1	1
5	Comparative analysis of the germination of barley seeds subjected to drying, hydrogen peroxide, or oxidative air plasma treatments. <i>Plasma Processes and Polymers</i> , 2022, 19, .	1.6	4
6	Anisotropic Resistivity Surfaces Produced in ITO Films by Laser-Induced Nanoscale Self-Organization. <i>Advanced Optical Materials</i> , 2021, 9, 2001086.	3.6	24
7	Form Birefringence in Resonant Transducers for the Selective Monitoring of VOCs under Ambient Conditions. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 19148-19158.	4.0	1
8	Factors triggering germination in plasma-activated cotton seeds: water imbibition vs. reactive species formation. <i>Journal Physics D: Applied Physics</i> , 2021, 54, 325205.	1.3	4
9	Anisotropic Resistivity ITO Surfaces produced by Laser-induced Self-organization at the Nanoscale. , 2021, , .		0
10	Mechanically Switchable Wetting Petal Effect in Self-Patterned Nanocolumnar Films on Poly(dimethylsiloxane). <i>Nanomaterials</i> , 2021, 11, 2566.	1.9	2
11	Plasma-Assisted Deposition of TiO ₂ 3D Nanomembranes: Selective Wetting, Superomniphobicity, and Self-Cleaning. <i>Advanced Materials Interfaces</i> , 2021, 8, 2100767.	1.9	6
12	Plasma-Assisted Deposition of TiO ₂ 3D Nanomembranes: Selective Wetting, Superomniphobicity, and Self-Cleaning (Adv. Mater. Interfaces 21/2021). <i>Advanced Materials Interfaces</i> , 2021, 8, 2170122.	1.9	0
13	Enhanced Stability of Perovskite Solar Cells Incorporating Dopant-Free Crystalline Spiro-OMeTAD Layers by Vacuum Sublimation. <i>Advanced Energy Materials</i> , 2020, 10, 1901524.	10.2	30
14	Robust anti-icing superhydrophobic aluminum alloy surfaces by grafting fluorocarbon molecular chains. <i>Applied Materials Today</i> , 2020, 21, 100815.	2.3	37
15	Plasma-Enabled Amorphous TiO ₂ Nanotubes as Hydrophobic Support for Molecular Sensing by SERS. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 50721-50733.	4.0	35
16	Optofluidic liquid sensing on electromicrofluidic devices. <i>Materials Research Express</i> , 2020, 7, 036407.	0.8	2
17	Plasma Enabled Conformal and Damage Free Encapsulation of Fragile Molecular Matter: from Surface-Supported to On-Device Nanostructures. <i>Advanced Functional Materials</i> , 2019, 29, 1903535.	7.8	13
18	Influence of Titanium Oxide Pillar Array Nanometric Structures and Ultraviolet Irradiation on the Properties of the Surface of Dental Implants—A Pilot Study. <i>Nanomaterials</i> , 2019, 9, 1458.	1.9	10

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19	Hydrophobicity, Freezing Delay, and Morphology of Laser-Treated Aluminum Surfaces. <i>Langmuir</i> , 2019, 35, 6483-6491.	1.6	29
20	Multifunctional antimicrobial chlorhexidine polymers by remote plasma assisted vacuum deposition. <i>Frontiers of Chemical Science and Engineering</i> , 2019, 13, 330-339.	2.3	8
21	2D compositional self-patterning in magnetron sputtered thin films. <i>Applied Surface Science</i> , 2019, 480, 115-121.	3.1	3
22	3D Organic Nanofabrics: Plasma-Assisted Synthesis and Antifreezing Behavior of Superhydrophobic and Lubricant-Infused Slippery Surfaces. <i>Langmuir</i> , 2019, 35, 16876-16885.	1.6	13
23	Environmentally Tight TiO ₂ â€“SiO ₂ Porous 1Dâ€“Photonic Structures. <i>Advanced Materials Interfaces</i> , 2019, 6, 1801212.	1.9	6
24	Influence of irrigation conditions in the germination of plasma treated Nasturtium seeds. <i>Scientific Reports</i> , 2018, 8, 16442.	1.6	43
25	Nanostructural Analysis of Porous Oblique Angle Deposited (OAD) Multilayer Systems by Grazingâ€“Incidence Smallâ€“Angle Xâ€“Ray Scattering. <i>Advanced Materials Interfaces</i> , 2018, 5, 1800530.	1.9	6
26	In Vitro Comparative Study of Oxygen Plasma Treated Poly(Lacticâ€“Coâ€“Glycolic) (PLGA) Membranes and Supported Nanostructured Oxides for Guided Bone Regeneration Processes. <i>Materials</i> , 2018, 11, 752.	1.3	4
27	Lowâ€“Temperature Plasma Processing of Platinum Porphyrins for the Development of Metal Nanostructured Layers. <i>Advanced Materials Interfaces</i> , 2017, 4, 1601233.	1.9	10
28	Impact of moisture on efficiency-determining electronic processes in perovskite solar cells. <i>Journal of Materials Chemistry A</i> , 2017, 5, 10917-10927.	5.2	95
29	In Situ Determination of the Water Condensation Mechanisms on Superhydrophobic and Superhydrophilic Titanium Dioxide Nanotubes. <i>Langmuir</i> , 2017, 33, 6449-6456.	1.6	23
30	(Invited) Plasma Assisted Oblique Angle Deposition of Transparent and Conductive in-Plane Anisotropic ITO Thin Films. <i>ECS Transactions</i> , 2017, 77, 9-15.	0.3	1
31	Structural control in porous/compact multilayer systems grown by magnetron sputtering. <i>Nanotechnology</i> , 2017, 28, 465605.	1.3	6
32	Micronâ€“scale wedge thin films prepared by plasma enhanced chemical vapor deposition. <i>Plasma Processes and Polymers</i> , 2017, 14, 1700043.	1.6	2
33	Surface chemistry and germination improvement of Quinoa seeds subjected to plasma activation. <i>Scientific Reports</i> , 2017, 7, 5924.	1.6	81
34	Formation of Subsurface W ⁵⁺ Species in Gasochromic Pt/WO ₃ Thin Films Exposed to Hydrogen. <i>Journal of Physical Chemistry C</i> , 2017, 121, 15719-15727.	1.5	40
35	Cholesterol biosensing with a polydopamine-modified nanostructured platinum electrode prepared by oblique angle physical vacuum deposition. <i>Sensors and Actuators B: Chemical</i> , 2017, 240, 37-45.	4.0	38
36	In Vitro and in Vivo Study of Poly(Lacticâ€“Coâ€“Glycolic) (PLGA) Membranes Treated with Oxygen Plasma and Coated with Nanostructured Hydroxyapatite Ultrathin Films for Guided Bone Regeneration Processes. <i>Polymers</i> , 2017, 9, 410.	2.0	7

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37	Reliability of new poly (lactic-co-glycolic acid) membranes treated with oxygen plasma plus silicon dioxide layers for pre-prosthetic guided bone regeneration processes. Medicina Oral, Patologia Oral Y Cirugia Bucal, 2017, 22, 0-0.	0.7	4
38	Vapor and liquid optical monitoring with sculptured Bragg microcavities. , 2017, , .		0
39	High-Rate Deposition of Stoichiometric Compounds by Reactive Magnetron Sputtering at Oblique Angles. Plasma Processes and Polymers, 2016, 13, 960-964.	1.6	10
40	Nanocolumnar association and domain formation in porous thin films grown by evaporation at oblique angles. Nanotechnology, 2016, 27, 395702.	1.3	23
41	Stoichiometric Control of SiO _x Thin Films Grown by Reactive Magnetron Sputtering at Oblique Angles. Plasma Processes and Polymers, 2016, 13, 1242-1248.	1.6	7
42	Highly Porous ZnO Thin Films and 1D Nanostructures by Remote Plasma Processing of Zn-Phthalocyanine. Plasma Processes and Polymers, 2016, 13, 287-297.	1.6	7
43	Modulating Low Energy Ion Plasma Fluxes for the Growth of Nanoporous Thin Films. Plasma Processes and Polymers, 2015, 12, 719-724.	1.6	9
44	Physiological Degradation Mechanisms of PLGA Membrane Films under Oxygen Plasma Treatment. Journal of Physical Chemistry C, 2015, 119, 20446-20452.	1.5	12
45	Anisotropic In-Plane Conductivity and Dichroic Gold Plasmon Resonance in Plasma-Assisted ITO Thin Films e-Beam-Evaporated at Oblique Angles. ACS Applied Materials & Interfaces, 2015, 7, 10993-11001.	4.0	15
46	Perovskite Solar Cells Based on Nanocolumnar Plasma-Deposited ZnO Thin Films. ChemPhysChem, 2014, 15, 1148-1153.	1.0	59
47	On the Deposition Rates of Magnetron Sputtered Thin Films at Oblique Angles. Plasma Processes and Polymers, 2014, 11, 571-576.	1.6	38
48	Nanocolumnar growth of thin films deposited at oblique angles: Beyond the tangent rule. Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics, 2014, 32, .	0.6	42
49	C ₄ F ₈ Plasmas for the Deposition of Fluorinated Carbon Films. Plasma Processes and Polymers, 2014, 11, 289-299.	1.6	10
50	Effects of plasma surface treatments of diamond-like carbon and polymeric substrata on the cellular behavior of human fibroblasts. Journal of Biomaterials Applications, 2013, 27, 669-683.	1.2	11
51	Enhancement of visible light-induced surface photo-activity of nanostructured Na ⁺ TiO ₂ thin films modified by ion implantation. Chemical Physics Letters, 2013, 582, 95-99.	1.2	12
52	Bioactivity and hemocompatibility study of amorphous hydrogenated carbon coatings produced by pulsed magnetron discharge. Journal of Biomedical Materials Research - Part A, 2013, 101A, 1800-1812.	2.1	10
53	Attenuation lengths of high energy photoelectrons in compact and mesoporous SiO ₂ films. Surface Science, 2012, 606, 820-824.	0.8	1
54	Microstructural characterization of hydrophobic Ti [~] xAl _x N coatings with moth-eye-like surface morphology. Journal of Alloys and Compounds, 2012, 536, S398-S406.	2.8	5

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55	Investigation of the Growth Mechanisms of a-CH _x Coatings Deposited by Pulsed Reactive Magnetron Sputtering. <i>Journal of Physical Chemistry C</i> , 2012, 116, 12017-12026.	1.5	16
56	Lateral and in-depth distribution of functional groups on diamond-like carbon after oxygen plasma treatments. <i>Diamond and Related Materials</i> , 2011, 20, 49-56.	1.8	20
57	Nitrogen plasma functionalization of low density polyethylene. <i>Surface and Coatings Technology</i> , 2011, 205, 3356-3364.	2.2	18
58	Non-destructive depth compositional profiles by XPS peak-shape analysis. <i>Analytical and Bioanalytical Chemistry</i> , 2010, 396, 2757-2768.	1.9	23
59	Tunable In-Plane Optical Anisotropy of Ag Nanoparticles Deposited by DC Sputtering onto SiO ₂ Nanocolumnar Films. <i>Plasmonics</i> , 2010, 5, 241-250.	1.8	18
60	Improved wear performance of ultra high molecular weight polyethylene coated with hydrogenated diamond like carbon. <i>Wear</i> , 2010, 269, 458-465.	1.5	34
61	Effect of surface roughness and sterilization on bacterial adherence to ultra-high molecular weight polyethylene. <i>Clinical Microbiology and Infection</i> , 2010, 16, 1036-1041.	2.8	32
62	Surface Functionalization, Oxygen Depth Profiles, and Wetting Behavior of PET Treated with Different Nitrogen Plasmas. <i>ACS Applied Materials & Interfaces</i> , 2010, 2, 980-990.	4.0	34
63	Formation of Nitrogen Functional Groups on Plasma Treated DLC. <i>Plasma Processes and Polymers</i> , 2009, 6, 555-565.	1.6	17
64	Plasmas and atom beam activation of the surface of polymers. <i>Journal Physics D: Applied Physics</i> , 2008, 41, 225209.	1.3	25
65	Effect of Visible and UV Illumination on the Water Contact Angle of TiO ₂ Thin Films with Incorporated Nitrogen. <i>Journal of Physical Chemistry C</i> , 2007, 111, 1801-1808.	1.5	71
66	Effect of visible light on the water contact angles on illuminated oxide semiconductors other than TiO ₂ . <i>Solar Energy Materials and Solar Cells</i> , 2006, 90, 2944-2949.	3.0	47
67	Experimento docente sobre Dinámica I (Leyes de Newton): una propuesta de innovación tecnológica-práctica. , 0, , 1985-2001.		0
68	Two Step Glancing Angle Deposition of Supported Vertically Aligned Organometallic Halide Perovskite Nanostructures. , 0, , .		0