Marcos Flores Carrasco

List of Publications by Year
in descending order

59	968	394421 19	501196 28
papers	citations	h-index	g-index

61	61	61	1490
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Compact four-port circulator based on 2D photonic crystals with a 90Â° rotation of the light wave for photonic integrated circuits applications. Laser Physics, 2019, 29, 066201.	1.2	66
2	Poly(lactic acid) composites based on graphene oxide particles with antibacterial behavior enhanced by electrical stimulus and biocompatibility. Journal of Biomedical Materials Research - Part A, 2018, 106, 1051-1060.	4.0	61
3	Suppressing Bacterial Interaction with Copper Surfaces through Graphene and Hexagonal-Boron Nitride Coatings. ACS Applied Materials & Interfaces, 2015, 7, 6430-6437.	8.0	57
4	Synthesis of salt-stable fluorescent nanoparticles (quantum dots) by polyextremophile halophilic bacteria. Scientific Reports, 2019, 9, 1953.	3.3	48
5	MoirÃ© patterns on STM images of graphite induced by rotations of surface and subsurface layers. Chemical Physics, 2013, 423, 49-54.	1.9	37
6	Characterization of ZnS thin films synthesized through a non-toxic precursors chemical bath. Materials Research Bulletin, 2014, 60, 313-321.	5.2	36
7	A photochemical proposal for the preparation of ZnAl2O4 and MgAl2O4 thin films from Î²-diketonate complex precursors. Materials Research Bulletin, 2016, 77, 212-220.	5.2	32
8	Synthesis of fluorinated graphene oxide by using an easy one-pot deoxyfluorination reaction. Journal of Colloid and Interface Science, 2018, 524, 219-226.	9.4	32
9	Electron grain boundary scattering and the resistivity of nanometric metallic structures. Physical Review B, 2010, 82, .	3.2	30
10	Mechanisms of Cu2+ biosorption on Lessonia nigrescens dead biomass: Functional groups interactions and morphological characterization. Journal of Environmental Chemical Engineering, 2018, 6, 2696-2704.	6.7	28
11	Electron scattering at surfaces and grain boundaries in thin Au films. Applied Surface Science, 2013, 273, 315-323.	6.1	27
12	A cheap mesoporous silica from fly ash as an outstanding adsorbent for sulfate in water. Microporous and Mesoporous Materials, 2018, 272, 184-192.	4.4	27
13	1,4-Benzenedimethanethiol Interaction with Au(110), Ag(111), Cu(100), and Cu(111) Surfaces: Self-Assembly and Dissociation Processes. Journal of Physical Chemistry C, 2014, 118, 26866-26876.	3.1	26
14	Photochemical synthesis of AZrO3â^'X thin films (A=Ba, Ca and Sr) and their characterization. Ceramics International, 2014, 40, 7761-7768.	4.8	24
15	Evidence of Mixed Oxide Formation on the Cu/SiO₂ Interface. Journal of Physical Chemistry C, 2017, 121, 18771-18778.	3.1	24
16	Antibiofouling thin-film composite membranes (TFC) by in situ formation of Cu-(m-phenylenediamine) oligomer complex. Journal of Materials Science, 2018, 53, 6325-6338.	3.7	23
17	High-efficiency silver-halide sensitized gelatin holograms with low absorption and scatter. Journal of Modern Optics, 1998, 45, 1985-1992.	1.3	22
18	Size effects in thin gold films: Discrimination between electron-surface and electron-grain boundary scattering by measuring the Hall effect at 4â€‰K. Applied Physics Letters, 2013, 102, .	3.3	21

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19	Photonic crystal based all-optical half adder: a brief analysis. Laser Physics, 2020, 30, 116205.	1.2	20
20	Pulsed laser deposition of thin carbon films in a neutral gas background. Journal Physics D: Applied Physics, 2013, 46, 215202.	2.8	19
21	Superstructures in arrays of rotated graphene layers: Electronic structure calculations. Physical Review B, 2008, 78, .	3.2	18
22	Size effects on the Hall constant in thin gold films. Journal of Applied Physics, 2010, 108, .	2.5	18
23	Improving the interaction between aluminum surfaces and polymer coatings. Surface and Coatings Technology, 2019, 358, 435-442.	4.8	18
24	Wearable Labelâ€Free Optical Biodetectors: Progress and Perspectives. Advanced Photonics Research, 2021, 2, 2000076.	3.6	18
25	Thermal effects in the size distribution of SiC nanodots on Si(111). Physica Status Solidi A, 2005, 202, 1959-1966.	1.7	14
26	First-principles calculation and scanning tunneling microscopy study of highly oriented pyrolytic graphite (0001). Physical Review B, 2009, 79, .	3.2	14
27	Molecular conductance versus inductive effects of axial ligands on the electrocatalytic activity of self-assembled iron phthalocyanines: The oxygen reduction reaction. Electrochimica Acta, 2019, 327, 134996.	5.2	14
28	Resistivity of thin gold films on mica induced by electronâ€“surface scattering: Application of quantitative scanning tunneling microscopy. Applied Surface Science, 2012, 258, 3393-3404.	6.1	12
29	Asymmetric biphasic hydrophobic/hydrophilic poly(lactic acid)â€“polyvinyl alcohol meshes with moisture control and noncytotoxic effects for wound dressing applications. Journal of Applied Polymer Science, 2019, 136, 47369.	2.6	12
30	A surface functionalized with per-(6-amino-6-deoxy)-Î²-cyclodextrin for potential organic pollutant removal from water. Carbohydrate Polymers, 2020, 233, 115865.	10.2	12
31	Unoccupied Interface and Molecular States in Thiol and Dithiol Monolayers. Langmuir, 2017, 33, 12056-12064.	3.5	12
32	Incorporation of nanosized carbon over hydroxyapatite (HAp) surface using DC glow discharge plasma for biomedical application. Vacuum, 2021, 190, 110300.	3.5	11
33	Potential and kinetic sputtering of alkanethiol self-assembled monolayers by impact of highly charged ions. Physical Review A, 2009, 79, .	2.5	10
34	Morphological and electrical study of gold ultrathin films on mica. Thin Solid Films, 2013, 548, 646-649.	1.8	10
35	Resistivity of thin gold films on mica induced by electron-surface scattering from a self-affine fractal surface. Journal of Applied Physics, 2011, 110, .	2.5	9
36	Alkanethiol self-assembled monolayer on copper polycrystalline thin films: Influence on resistivity. Materials Chemistry and Physics, 2018, 208, 97-102.	4.0	9

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37	Interface analysis of Ag/nâ€type Si contacts in nâ€type PERT solar cells. Progress in Photovoltaics: Research and Applications, 2020, 28, 358-371.	8.1	9
38	Resistivity and Hall voltage in gold thin films deposited on mica at room temperature. Applied Surface Science, 2015, 332, 694-698.	6.1	8
39	Adsorption of 2-thiophene curcuminoid molecules on a Au(111) surface. Applied Surface Science, 2018, 427, 620-625.	6.1	8
40	Surface roughness of thin gold films and its effects on the proton energy loss straggling. Brazilian Journal of Physics, 2006, 36, 956-959.	1.4	7
41	Production of Biocompatible Protein Functionalized Cellulose Membranes by a Top-Down Approach. ACS Biomaterials Science and Engineering, 2019, 5, 5968-5978.	5.2	7
42	Electronic energy loss and straggling in low energy H⁺ and H₂⁺ interaction with silicon films. Radiation Effects and Defects in Solids, 2021, 176, 73-91.	1.2	7
43	Pulsed laser deposition of carbon nanodot arrays using porous alumina membranes as a mask. Surface and Coatings Technology, 2014, 253, 161-165.	4.8	6
44	The effect of electron-surface scattering and thiol adsorption on the electrical resistivity of gold ultrathin films. Applied Surface Science, 2017, 407, 322-327.	6.1	6
45	Top-down Approach to Produce Protein Functionalized and Highly Thermally Stable Cellulose Fibrils. Biomacromolecules, 2018, 19, 3549-3559.	5.4	6
46	Formation of self-assembled monolayer of curcuminoid molecules on gold surfaces. Applied Surface Science, 2017, 392, 834-840.	6.1	5
47	Photocatalysts for Indoor Air Pollution: A Brief Review. Environmental Chemistry for A Sustainable World, 2020, , 247-274.	0.5	4
48	Synthesis, characterization and spectroscopy of carbon based nanoscale materials. Microelectronics Journal, 2008, 39, 529-533.	2.0	3
49	Secondary-ion emission from GaN(0001) and dodecanethiol/Au(111) surfaces irradiated with Ar^{q+}(q= 4-8). Journal of Physics: Conference Series, 2009, 163, 012080.	0.4	3
50	Pulsed laser deposition of carbon films in low pressure neutral gas background. Journal of Physics: Conference Series, 2012, 370, 012013.	0.4	3
51	Modification of self assembled monolayers by highly charged ions. Nuclear Instruments & Methods in Physics Research B, 2013, 299, 68-70.	1.4	3
52	Study of the early growth stages of chemically deposited ZnS thin films from a non-toxic solution. Materials Research Express, 2018, 5, 076404.	1.6	3
53	High-efficiency silver-halide sensitized gelatin holograms with low absorption and scatter. Journal of Modern Optics, 1998, 45, 1985-1992.	1.3	2
54	Molecular ion emission from alkanethiol-SAMs by HCI bombardment. Physica Scripta, 2011, T144, 014045.	2.5	2

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55	Encapsulation of Iron Oxide Nanoparticles and Oil-in-Water Nanocarriers in Microgels with Biomedical Potential. Journal of Nanoscience and Nanotechnology, 2019, 19, 4938-4945.	0.9	2
56	Magnetic Properties of Co/Cu/Py Antidot Films With Different Pore Diameters. IEEE Transactions on Magnetics, 2014, 50, 1-4.	2.1	1
57	Pulsed laser deposition of carbon nanodots. Journal of Physics: Conference Series, 2015, 591, 012047.	0.4	1
58	Self-assembled monolayer formation of pentamers-like molecules onto FCC(111) surfaces: the case of curcuminoids onto Au(111) surface. Nano Express, 2020, 1, 010025.	2.4	1
59	Determination of the Conformational Preference of para-Aminobenzoic Acid on Vanadium Pentoxide Surface: An XPS and DFT Study. Journal of Physical Chemistry C, 2021, 125, 20450-20459.	3.1	0