

Felipe Caballero-Briones

List of Publications by Year in descending order

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67
papers

1,578
citations

430874

18
h-index

315739

38
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all docs

70
docs citations

70
times ranked

2214
citing authors

#	ARTICLE	IF	CITATIONS
1	Formation of magnetic nanoscrolls and nanoribbons in iron oxide-decorated graphene oxide. <i>Materials Letters</i> , 2022, 309, 131321.	2.6	3
2	Structural damage in graphene oxide coatings onto Nb substrates upon laser irradiation. <i>Surface and Coatings Technology</i> , 2022, 431, 128013.	4.8	3
3	Tunable, Wideband X-Band Microwave Absorbers Using Variable Chessboard Surfaces. <i>IEEE Letters on EMC Practice and Applications</i> , 2022, 4, 44-46.	1.1	3
4	Structure, morphology, and local photoelectrical characterization of PbS films grown by SILAR. <i>Materials Letters</i> , 2022, 314, 131844.	2.6	2
5	Cesium-decorated reduced graphene oxide for photocatalytic hydrogen generation. <i>Materials Letters</i> , 2022, 314, 131864.	2.6	3
6	Automated Instrument for the Deposition of Thin Films Using Successive Ionic Layer Adsorption and Reaction. <i>Processes</i> , 2022, 10, 492.	2.8	3
7	Carbon-based radar absorbing materials: A critical review. <i>Journal of Science: Advanced Materials and Devices</i> , 2022, 7, 100454.	3.1	33
8	Structural and rheological changes of texturized mung bean protein induced by feed moisture during extrusion. <i>Food Chemistry</i> , 2021, 344, 128643.	8.2	49
9	Structure and mechanical properties of graphene oxide-reinforced polycarbonate. <i>Materials Chemistry and Physics</i> , 2021, 261, 124180.	4.0	19
10	One-step, low temperature synthesis of reduced graphene oxide decorated with ZnO nanocrystals using galvanized iron steel scrap. <i>Materials Research Express</i> , 2021, 8, 065010.	1.6	9
11	FTIR studies of the thermo-reversible sol-gel transition of a titanium butoxide solution modified by nitrate ions. <i>Journal of Sol-Gel Science and Technology</i> , 2021, 99, 315-325.	2.4	4
12	Low resistance, high mobility reduced graphene oxide films prepared with commercial antioxidant supplements. <i>Materials Letters</i> , 2020, 276, 128176.	2.6	6
13	Local hardening of Raman phonons in Ba _x Sr _{1-x} TiO ₃ thin films deposited by r.f. sputtering. <i>Materials Research Express</i> , 2020, 7, 046402.	1.6	1
14	The role of redox states and junctions in photocatalytic hydrogen generation of MoS ₂ -TiO ₂ -rGO and CeO ₂ -Ce ₂ Ti ₃ O ₈ .7-TiO ₂ -rGO composites. <i>Materials Science in Semiconductor Processing</i> , 2020, 118, 105185.	4.0	16
15	Experimental and DFT studies on the ultrasonic energy-assisted extraction of the phytochemicals of <i>Catharanthus roseus</i> as green corrosion inhibitors for mild steel in NaCl medium. <i>RSC Advances</i> , 2020, 10, 5399-5411.	3.6	31
16	Two Dimensional-Based Materials for Photocatalysis Applications. <i>Environmental Chemistry for A Sustainable World</i> , 2020, , 275-293.	0.5	0
17	Hybrid Carbon Nanochromium Composites Prepared from Chrome-Tanned Leather Shavings for Dye Adsorption. <i>Water, Air, and Soil Pollution</i> , 2019, 230, 1.	2.4	21
18	Influence of pulse frequency on the morphology, structure and optical properties of ZnO films prepared by pulsed electrodeposition. <i>Materials Research Express</i> , 2019, 6, 086464.	1.6	6

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19	Chemical Bonding and Electronic Structure in CdS/GO and CdSSe/GO Multilayer Films. Journal of Physical Chemistry C, 2019, 123, 13918-13924.	3.1	8
20	Electricity generation from Nopal biogas effluent using a surface modified clay cup (cantarito) microbial fuel cell. Heliyon, 2019, 5, e01506.	3.2	15
21	Neodymium-decorated graphene oxide as a corrosion barrier layer on Ti6Al4V alloy in acidic medium. RSC Advances, 2019, 9, 8537-8545.	3.6	13
22	$\text{Cu}_2\text{ZnSnS}_4$ thin films prepared with a Joule-heated graphite closed-space sulfurization system. Applied Physics A: Materials Science and Processing, 2019, 125, 1.	2.3	4
23	Phase control in selenium electrodeposition with bath temperature and deposition potential. Materials Research Express, 2019, 6, 066412.	1.6	9
24	Deposit of AlN thin films by nitrogen reactive pulsed laser ablation using an Al target. Revista Mexicana De Física, 2019, 65, 345-350.	0.4	4
25	Influence of texture on the electrical properties of Al-doped ZnO films prepared by ultrasonic spray pyrolysis. Journal of Materials Science: Materials in Electronics, 2018, 29, 2016-2025.	2.2	6
26	Effect of calcination temperature on structure and thermoelectric properties of CuAlO ₂ powders. Journal of Materials Science, 2018, 53, 1646-1657.	3.7	18
27	Praseodymium-decorated graphene oxide as a corrosion inhibitor in acidic media for the magnesium AZ31 alloy. RSC Advances, 2018, 8, 34275-34286.	3.6	23
28	Temperature-Dependent Power Simultaneous Effect on Physical Properties of Ba _x Sr _{1-x} TiO ₃ Thin Films Deposited by RF Magnetron Cosputtering for 0 ≤ x ≤ 1. Coatings, 2018, 8, 362.	2.6	3
29	Influence of laser pulse regime on the structure and optical properties of TiO ₂ nanolayers. Materials Research Express, 2018, 5, 125022.	1.6	5
30	Optical and electrical properties of graphene oxide and reduced graphene oxide films deposited onto glass and Ecoflex® substrates towards organic solar cells. Advanced Materials Letters, 2018, 9, 58-65.	0.6	15
31	Electrochemical and photocurrent characterization of polymer solar cells with improved performance after GO addition to the PEDOT:PSS hole transporting layer. Solar Energy, 2017, 146, 230-242.	6.1	25
32	Local atomic structure and analysis of secondary phases in non-stoichiometric Cu ₂ ZnSnS ₄ using X-ray absorption fine structure spectroscopy. Journal of Alloys and Compounds, 2017, 714, 381-389.	5.5	15
33	Graphene oxide influence on selected properties of polymer fuel cells based on Nafion. International Journal of Hydrogen Energy, 2017, 42, 15359-15369.	7.1	14
34	Stoichiometry Calculation in Ba _x Sr _{1-x} TiO ₃ Solid Solution Thin Films, Prepared by RF Cosputtering, Using X-Ray Diffraction Peak Positions and Boltzmann Sigmoidal Modelling. Journal of Nanomaterials, 2017, 2017, 1-8.	2.7	3
35	Photoluminescence Response in Carbon Films Deposited by Pulsed Laser Deposition onto GaAs Substrates at Low Vacuum. Journal of Nanotechnology, 2016, 2016, 1-6.	3.4	2
36	Local Electrical Response in Alkaline-Doped Electrodeposited CuInSe ₂ /Cu Films. Coatings, 2016, 6, 71.	2.6	2

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37	Method to estimate crystallinity in nixtamalized corn pericarp from sequential extractions and X-ray diffraction. <i>Journal of Cereal Science</i> , 2015, 64, 11-15.	3.7	2
38	Graphene oxide powders with different oxidation degree, prepared by synthesis variations of the Hummers method. <i>Materials Chemistry and Physics</i> , 2015, 153, 209-220.	4.0	516
39	Calcium content and speciation in alkaline-cooked corn studied by synchrotron Ca K-edge X-ray absorption spectroscopy. <i>Journal of Cereal Science</i> , 2014, 60, 7-10.	3.7	2
40	Growth of ordered anodic SnO ₂ nanochannel layers and their use for H ₂ gas sensing. <i>Journal of Materials Chemistry A</i> , 2014, 2, 915-920.	10.3	60
41	Study and improvement of aluminium doped ZnO thin films: Limits and advantages. <i>Electrochimica Acta</i> , 2013, 109, 117-124.	5.2	51
42	A climatological estimate of incident solar energy in Tamaulipas, northeastern Mexico. <i>Renewable Energy</i> , 2013, 60, 293-301.	8.9	13
43	Tin passivation in alkaline media: Formation of SnO microcrystals as hydroxyl etching product. <i>Electrochimica Acta</i> , 2013, 111, 837-845.	5.2	45
44	Disruption of the Chemical Environment and Electronic Structure in p-Type Cu ₂ O Films by Alkaline Doping. <i>Journal of Physical Chemistry C</i> , 2012, 116, 13524-13535.	3.1	18
45	CuInSe ₂ films prepared by three step pulsed electrodeposition. Deposition mechanisms, optical and photoelectrochemical studies. <i>Electrochimica Acta</i> , 2011, 56, 9556-9567.	5.2	22
46	Enhancement in as-grown CuInSe ₂ film microstructure by a three potential pulsed electrodeposition method. <i>Electrochemistry Communications</i> , 2010, 12, 1025-1029.	4.7	18
47	Evidence and analysis of parallel growth mechanisms in Cu ₂ O films prepared by Cu anodization. <i>Electrochimica Acta</i> , 2010, 55, 4353-4358.	5.2	40
48	Physical properties of transparent conducting CdTeInO thin films. <i>Thin Solid Films</i> , 2009, 518, 413-418.	1.8	8
49	Direct Observation of the Valence Band Edge by in Situ ECSTM-ECTS in p-Type Cu ₂ O Layers Prepared by Copper Anodization. <i>Journal of Physical Chemistry C</i> , 2009, 113, 1028-1036.	3.1	99
50	Chemical and microstructural study in radio frequency sputtered CdTe oxide films prepared at different N ₂ O pressures. Oxygen incorporation and film resputtering. <i>Thin Solid Films</i> , 2008, 516, 8289-8294.	1.8	5
51	Phase tailored, potentiodynamically grown p-Cu _{2-x} Te/Cu layers. <i>Electrochemistry Communications</i> , 2008, 10, 1684-1687.	4.7	16
52	Structural analysis of CdTeO films prepared by RF reactive sputtering. <i>Journal of Non-Crystalline Solids</i> , 2008, 354, 3756-3761.	3.1	8
53	X-ray study of tin oxide films obtained by reactive DC sputtering from a metallic tin target in pure oxygen plasma. <i>Surface and Coatings Technology</i> , 2007, 201, 4659-4665.	4.8	12
54	Effect of annealing temperature on the crystalline quality and phase transformation of Chemically Deposited CdSe films. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2005, 2, 3742-3745.	0.8	7

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55	Chemical bath deposited CdS films using magnetic treated solutions. <i>Physica Status Solidi (B): Basic Research</i> , 2005, 242, 1933-1936.	1.5	2
56	X-Ray photoelectron spectroscopy study of CdTe oxide films grown by rf sputtering with an Ar+NH ₃ plasma. <i>Surface and Coatings Technology</i> , 2002, 155, 16-20.	4.8	31
57	Chemical and phase composition of SnO _x :F films grown by DC reactive sputtering. <i>Surface and Coatings Technology</i> , 2001, 148, 103-109.	4.8	22
58	CHEMICAL COMPOSITION AND CRYSTALLINE PHASES IN F-DOPED TIN OXIDE FILMS GROWN BY DC REACTIVE SPUTTERING. <i>Modern Physics Letters B</i> , 2001, 15, 634-638.	1.9	2
59	COMPOSITION MIXTURE PROBABILISTIC MODEL IN THE FORMATION OF SEMICONDUCTOR MATERIALS OBTAINED BY RANDOM GROWTH TECHNIQUES. <i>Modern Physics Letters B</i> , 2001, 15, 643-646.	1.9	6
60	Depth Profiling Study of the CdTe/CdS/ITO/Glass Heterostructure with AES and GIXRD. <i>Physica Status Solidi (B): Basic Research</i> , 2000, 220, 261-267.	1.5	12
61	Strain gradients in polycrystalline CdS thin films. <i>Thin Solid Films</i> , 2000, 373, 6-9.	1.8	14
62	Effect of indium tin oxide substrate roughness on the morphology, structural and optical properties of CdS thin films. <i>Applied Surface Science</i> , 2000, 161, 340-346.	6.1	49
63	Experimental evidence of compositional mixture in CdTeO films grown by radio-frequency sputtering. <i>Journal of Applied Physics</i> , 1999, 86, 4688-4690.	2.5	19
64	Optical and structural evidence of the grain-boundary influence on the disorder of polycrystalline CdTe films. <i>Applied Physics Letters</i> , 1999, 74, 2957-2959.	3.3	23
65	Discharge diagnosis and controlled deposition of SnO _x :F films by DC-reactive sputtering from a metallic tin target. <i>Surface and Coatings Technology</i> , 1999, 122, 136-142.	4.8	16
66	First stages of growth of CdS films on different substrates. <i>Applied Surface Science</i> , 1999, 148, 42-49.	6.1	34
67	S diffusion at the CdTe/CdS interface grown by rf magnetron sputtering. <i>Materials Letters</i> , 1998, 37, 281-284.	2.6	10