

Arturo Mendoza Galvn

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

83
papers

1,599
citations

23
h-index

37
g-index

85
ext. papers

1,754
ext. citations

2.7
avg, IF

4.6
L-index

#	Paper	IF	Citations
83	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	2.3	
82	Optical Chirality Determined from Mueller Matrices. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 6742	2.6	2
81	Effective absorption coefficient and effective thickness in attenuated total reflection spectroscopy. <i>Optics Letters</i> , 2021 , 46, 872-875	3	2
80	Quantification of Optical Chirality in Cellulose Nanocrystal Films Prepared by Shear-Coating. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 6191	2.6	3
79	Shear-Coated Linear Birefringent and Chiral Cellulose Nanocrystal Films Prepared from Non-Sonicated Suspensions with Different Storage Time. <i>Nanomaterials</i> , 2021 , 11,	5.4	5
78	Transmission Mueller-matrix characterization of transparent ramie films. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2020 , 38, 014008	1.3	3
77	Effect of annealing temperature on the structural, morphological and optical properties of ThO ₂ thin films grown by photochemical metal-organic deposition. <i>Polyhedron</i> , 2019 , 171, 374-381	2.7	3
76	Graded circular Bragg reflectors: a semi-analytical retrieval of approximate pitch profiles from Mueller-matrix data. <i>Journal of Optics (United Kingdom)</i> , 2019 , 21, 125401	1.7	1
75	Mueller-matrix modeling of the architecture in the cuticle of the beetle <i>Chrysina resplendens</i> . <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2019 , 37, 062904	1.3	4
74	Mueller matrix spectroscopic ellipsometry study of chiral nanocrystalline cellulose films. <i>Journal of Optics (United Kingdom)</i> , 2018 , 20, 024001	1.7	21
73	Extinction coefficient of free-standing chitosan films determined from partially coherent transmittance spectra. <i>Optical Materials</i> , 2018 , 84, 564-571	3.3	5
72	Graded pitch profile for the helicoidal broadband reflector and left-handed circularly polarizing cuticle of the scarab beetle <i>Chrysina chrysargyrea</i> . <i>Scientific Reports</i> , 2018 , 8, 6456	4.9	12
71	Linear Birefringent Films of Cellulose Nanocrystals Produced by Dip-Coating. <i>Nanomaterials</i> , 2018 , 9,	5.4	16
70	FTIR spectroscopy studies on the spontaneous neutralization of chitosan acetate films by moisture conditioning. <i>Vibrational Spectroscopy</i> , 2018 , 94, 1-6	2.1	75
69	Pitch profile across the cuticle of the scarab beetle determined by analysis of Mueller matrix measurements. <i>Royal Society Open Science</i> , 2018 , 5, 181096	3.3	6
68	Properties of sputtered ZnS and ZnS:A (A = Er, Yb) films grown at low substrate temperatures. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2017 , 35, 031505	2.9	3
67	Cuprous oxide thin films obtained by dip-coating method using rapid thermal annealing treatments. <i>Materials Science in Semiconductor Processing</i> , 2017 , 68, 133-139	4.3	18

66	Exposing different in-depth pitches in the cuticle of the scarab beetle <i>Cotinis mutabilis</i> . <i>Materials Today: Proceedings</i> , 2017 , 4, 4969-4978	1.4	3
65	On the polarization of light reflected from beetle cuticle. <i>Materials Today: Proceedings</i> , 2017 , 4, 4933-4944	1.4	1
64	Structural circular birefringence and dichroism quantified by differential decomposition of spectroscopic transmission Mueller matrices from <i>Cetonia aurata</i> . <i>Optics Letters</i> , 2016 , 41, 3293-6	3	19
63	Birefringence of nanocrystalline chitin films studied by Mueller-matrix spectroscopic ellipsometry. <i>Optical Materials Express</i> , 2016 , 6, 671	2.6	7
62	Structure and refractive index of thin alumina films grown by atomic layer deposition. <i>Journal of Materials Science: Materials in Electronics</i> , 2015 , 26, 5546-5552	2.1	21
61	Optical properties of CuCdTeO thin films sputtered from CdTe-CuO composite targets. <i>Thin Solid Films</i> , 2014 , 571, 706-711	2.2	6
60	Growth and characterization of CuCdTeO thin films sputtered from CdTe-CuO composite targets. <i>Vacuum</i> , 2014 , 101, 130-135	3.7	5
59	Symmetries and relationships between elements of the Mueller matrix spectra of the cuticle of the beetle <i>Cotinis mutabilis</i> . <i>Thin Solid Films</i> , 2014 , 571, 660-665	2.2	14
58	Exploring Optics of Beetle Cuticles with Mueller-matrix Ellipsometry. <i>Materials Today: Proceedings</i> , 2014 , 1, 155-160	1.4	4
57	Electrochromic Properties of Nanoporous and Nickel Hydroxide Thin Films Obtained by Chemical Bath Deposition. <i>Journal of Nano Research</i> , 2014 , 28, 63-72	1	4
56	Evidence for a dispersion relation of optical modes in the cuticle of the scarab beetle <i>Cotinis mutabilis</i> . <i>Optical Materials Express</i> , 2014 , 4, 2484	2.6	15
55	Polymer States and Properties 2013 , 15-39		2
54	Adjustable structural, optical and dielectric characteristics in sol-gel PMMA/SiO ₂ hybrid films. <i>Journal of Non-Crystalline Solids</i> , 2013 , 362, 124-135	3.9	54
53	Effect of a temperature gradient on ellipsometry measurements in supercritical CO ₂ . <i>Journal of Supercritical Fluids</i> , 2012 , 64, 25-31	4.2	7
52	Fano interference in supported gold nanosandwiches with weakly coupled nanodisks. <i>Optics Express</i> , 2012 , 20, 29646-58	3.3	4
51	Spectroscopic ellipsometry study on the dielectric function of bulk Ti ₂ AlN, Ti ₂ AlC, Nb ₂ AlC, (Ti _{0.5} Nb _{0.5}) ₂ AlC, and Ti ₃ GeC ₂ MAX-phases. <i>Journal of Applied Physics</i> , 2011 , 109, 013530	2.5	12
50	Optical response of supported gold nanodisks. <i>Optics Express</i> , 2011 , 19, 12093-107	3.3	26
49	Structural and electrical properties of Germanium-doped Sb ₇₀ Te ₃₀ eutectic thin films. <i>Journal of Non-Crystalline Solids</i> , 2011 , 357, 1610-1614	3.9	4

48	Spectroscopic ellipsometry study of CuCdTeO thin films grown by reactive co-sputtering. <i>Thin Solid Films</i> , 2011 , 519, 2899-2902	2.2	5
47	Amorphous Carbon Gold Nanocomposite Thin Films: Structural and Spectro-ellipsometric Analysis. <i>Thin Solid Films</i> , 2011 , 519, 5924-5932	2.2	19
46	Comparison of the optical and structural properties of nickel oxide-based thin films obtained by chemical bath and sputtering. <i>Thin Solid Films</i> , 2009 , 517, 3115-3120	2.2	33
45	Relaxations in chitin: Evidence for a glass transition. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2009 , 47, 932-943	2.6	19
44	Effects of air annealing on the optical, electrical, and structural properties of indium-tin oxide thin films. <i>Thin Solid Films</i> , 2009 , 517, 4615-4620	2.2	19
43	Influence of the Conditions of Zincate on the Electroless Brass Plating of Steel. <i>Industrial & Engineering Chemistry Research</i> , 2009 , 48, 3837-3843	3.9	0
42	Spectroscopic ellipsometry analysis of silicon nanotips obtained by electron cyclotron resonance plasma etching. <i>Applied Optics</i> , 2009 , 48, 4996-5004	0.2	4
41	Optical and structural characterization of nickel oxide-based thin films obtained by chemical bath deposition. <i>Materials Chemistry and Physics</i> , 2008 , 107, 33-38	4.4	50
40	Electrochromic Nickel Oxide-Based Thin Films Deposited by Chemical Bath. <i>Advances in Science and Technology</i> , 2008 , 55, 24-29	0.1	1
39	Electrochromism in nickel oxide-based thin films obtained by chemical bath deposition. <i>Solid State Ionics</i> , 2008 , 179, 2065-2068	3.3	36
38	Thermal behaviour of chitosan and chitin thin films studied by spectroscopic ellipsometry. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2008 , 5, 1434-1437		15
37	Solid-State Electrochromic Devices via Ionic Self-Assembled Multilayers (ISAM) of a Polyviologen. <i>Macromolecular Chemistry and Physics</i> , 2008 , 209, 150-157	2.6	21
36	Optical properties and layer microstructure of CdS films obtained from an ammonia-free chemical bath deposition process. <i>Thin Solid Films</i> , 2007 , 515, 3356-3362	2.2	53
35	Effects of Ge addition on the optical and electrical properties of eutectic Sb ₇₀ Te ₃₀ films. <i>Journal of Non-Crystalline Solids</i> , 2007 , 353, 1870-1874	3.9	15
34	Effect of metal-ion doping on the optical properties of nanocrystalline ZnO thin films. <i>Journal of Applied Physics</i> , 2006 , 99, 014306	2.5	67
33	The oxidation kinetics of nickel thin films studied by spectroscopic ellipsometry. <i>Thin Solid Films</i> , 2006 , 503, 40-44	2.2	28
32	Formation of NiO/BiO ₂ nanocomposite thin films by the sol-gel method. <i>Journal of Non-Crystalline Solids</i> , 2005 , 351, 2029-2035	3.9	31
31	Optical properties of sol-gel SiO ₂ films containing nickel. <i>Thin Solid Films</i> , 2005 , 472, 130-135	2.2	10

30	Structural, electric and kinetic parameters of ternary alloys of GeSbTe. <i>Thin Solid Films</i> , 2005 , 471, 243-247	4.7	83
29	Red colored transparent PMMA/SiO ₂ hybrid films. <i>Journal of Physics and Chemistry of Solids</i> , 2005 , 66, 1660-1667	3.9	19
28	Characterization of SnO ₂ , In ₂ O ₃ , and ITO films prepared by thermal oxidation of DC-sputtered Sn, In and In/Sn films. <i>Vacuum</i> , 2004 , 76, 177-180	3.7	19
27	Optical band gap tuning and study of strain in CdS thin films. <i>Vacuum</i> , 2004 , 76, 181-184	3.7	61
26	Chemically deposited CdS films in an ammonia-free cadmium/sodium citrate system. <i>Thin Solid Films</i> , 2004 , 457, 278-284	2.2	55
25	Impedance spectroscopy studies on SnO ₂ films prepared by the sol-gel process. <i>Journal of Physics and Chemistry of Solids</i> , 2003 , 64, 1037-1042	3.9	34
24	Highly oriented CdS films deposited by an ammonia-free chemical bath method. <i>Thin Solid Films</i> , 2003 , 429, 34-39	2.2	50
23	Optical properties of PbS thin films chemically deposited at different temperatures. <i>Thin Solid Films</i> , 2003 , 441, 104-110	2.2	90
22	Study of the formation of Co ₃ O ₄ thin films using sol-gel method. <i>Journal of Physics and Chemistry of Solids</i> , 2003 , 64, 975-980	3.9	23
21	Electrical characterization of sputtered Ge:Sb:Te films using impedance measurements. <i>Vacuum</i> , 2002 , 69, 361-364	3.7	10
20	The effect of the viscosity in the precursor solution on the structure of sol-gel derived silica films containing cobalt. <i>Journal of Materials Science</i> , 2002 , 37, 4211-4216	4.3	3
19	Determination of the glass transition and nucleation temperatures in Ge ₂ Sb ₂ Te ₅ sputtered films. <i>Journal of Applied Physics</i> , 2002 , 91, 697-702	2.5	42
18	Qualitative evaluation of sol-gel SiO ₂ as a protective layer for soft surfaces. <i>Surface and Coatings Technology</i> , 2001 , 148, 1-7	4.4	9
17	Chaotic classical scattering and dynamics in oscillating 1-D potential wells. <i>Chaos, Solitons and Fractals</i> , 2001 , 12, 349-363	9.3	29
16	Spectroscopic ellipsometry characterization of Er ³⁺ -doped titania thin films prepared by the sol-gel method. <i>Optik</i> , 2001 , 112, 316-320	2.5	2
15	Optical and structural properties of sol-gel SiO ₂ layers containing cobalt. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2001 , 19, 1600-1605	2.9	8
14	Mechanism of the isothermic amorphous-to-crystalline phase transition in Ge:Sb:Te ternary alloys. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2001 , 19, 1623-1629	2.9	7
13	Formation of a Co ₃ O ₄ Top Layer in SiO ₂ Cobalt Containing Coatings Sol-gel Obtained. <i>Materials Research Society Symposia Proceedings</i> , 2001 , 672, 1		

12	Structural, optical and electrical characterization of In/CdS/glass thermally annealed system. <i>Thin Solid Films</i> , 2000 , 373, 10-14	2.2	23
11	Structural, optical and electrical characterization of amorphous $\text{Se}_x\text{Te}_{1-x}$ thin film alloys. <i>Microelectronic Engineering</i> , 2000 , 51-52, 677-687	2.5	36
10	The Mechanism of the Amorphous-to-Crystalline Transition in $\text{Ge}_2\text{Sb}_2\text{Te}_5$ Ternary Alloys1. <i>Inorganic Materials</i> , 2000 , 36, 1219-1227	0.9	1
9	Dielectric properties of SiO_2 thin films prepared by the sol-gel technique. <i>Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , 2000 , 18, 288		4
8	Drude-like behavior of Ge:Sb:Te alloys in the infrared. <i>Journal of Applied Physics</i> , 2000 , 87, 760-765	2.5	54
7	Optical properties of Ge:Sb:Te ternary alloys. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 1999 , 17, 1805-1810	2.9	47
6	Optical and structural characterization of copper-based colloidal particles in SiO_2 coatings. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 1999 , 17, 1103-1108	2.9	8
5	Influence of annealing temperature on the formation and characteristics of sol-gel prepared ZnO films. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 1999 , 17, 1811-1816	2.9	40
4	Optical characterization of titania thin films produced by the solgel method and doped with Co^{2+} at different concentrations. <i>Applied Optics</i> , 1998 , 37, 1867-72	1.7	7
3	Microstructural effects of thermal annealing on CdS films. <i>Journal of Applied Physics</i> , 1996 , 80, 3333-3337	1.5	13
2	Optical Properties of Titania-Cobalt Nitrate Composite Thin Films. <i>Advanced Composites Letters</i> , 1996 , 5, 096369359600500	1.2	
1	Effective dielectric function modeling of inhomogeneous and anisotropic silver films. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1994 , 207, 365-371	3.3	9