

# Félix L Martínez

## List of Publications by Year in descending order

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46  
papers

764  
citations

623734

14  
h-index

552781

26  
g-index

46  
all docs

46  
docs citations

46  
times ranked

896  
citing authors

#	ARTICLE	IF	CITATIONS
1	Optical properties and structure of $\text{HfO}_2$ thin films grown by high pressure reactive sputtering. <i>Journal Physics D: Applied Physics</i> , 2007, 40, 5256-5265.	2.8	156
2	A system for ubiquitous fall monitoring at home via a wireless sensor network and a wearable mote. <i>Expert Systems With Applications</i> , 2012, 39, 5566-5575.	7.6	55
3	Influence of rapid thermal annealing processes on the properties of $\text{SiN:H}$ films deposited by the electron cyclotron resonance method. <i>Journal of Non-Crystalline Solids</i> , 1998, 227-230, 523-527.	3.1	41
4	Composition and optical properties of silicon oxynitride films deposited by electron cyclotron resonance. <i>Vacuum</i> , 2002, 67, 507-512.	3.5	40
5	Molecular models and activation energies for bonding rearrangement in plasma-deposited $\text{SiN}_x\text{H}$ dielectric thin films treated by rapid thermal annealing. <i>Physical Review B</i> , 2001, 63, .	3.2	38
6	High-pressure reactively sputtered $\text{HfO}_2$ : Composition, morphology, and optical properties. <i>Journal of Applied Physics</i> , 2007, 102, .	2.5	33
7	Bonding structure and hydrogen content in silicon nitride thin films deposited by the electron cyclotron resonance plasma method. <i>Thin Solid Films</i> , 2004, 459, 203-207.	1.8	27
8	Defect structure of $\text{SiN}_x\text{H}$ films and its evolution with annealing temperature. <i>Journal of Applied Physics</i> , 2000, 88, 2149-2151.	2.5	21
9	Optical and structural properties of $\text{SiO}_x\text{NyHz}$ films deposited by electron cyclotron resonance and their correlation with composition. <i>Journal of Applied Physics</i> , 2003, 93, 8930-8938.	2.5	21
10	Substrate Integrated Waveguide (SIW) With Koch Fractal Electromagnetic Bandgap Structures (KFEBG) for Bandpass Filter Design. <i>IEEE Microwave and Wireless Components Letters</i> , 2015, 25, 160-162.	3.2	21
11	Novel Compact Wide-Band EBG Structure Based on Tapered 1-D Koch Fractal Patterns. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2011, 10, 1104-1107.	4.0	20
12	Characterization of nitrogen-rich silicon nitride films grown by the electron cyclotron resonance plasma technique. <i>Semiconductor Science and Technology</i> , 2003, 18, 633-641.	2.0	17
13	Dielectric constant tunability at microwave frequencies and pyroelectric behavior of lead-free submicrometer-structured $(\text{Bi}_{0.5}\text{Na}_{0.5})_{1-x}\text{Ba}_x\text{TiO}_3$ ferroelectric ceramics. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2013, 60, 1595-1602.	3.0	17
14	Effect of substrate temperature in $\text{SiO}_x\text{Ny}$ films deposited by electron cyclotron resonance. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 1999, 17, 1263-1268.	2.1	15
15	Temperature effects on the electrical properties and structure of interfacial and bulk defects in $\text{Al/SiN}_x\text{H/Si}$ devices. <i>Journal of Applied Physics</i> , 2001, 90, 1573-1581.	2.5	15
16	Compact Bandstop Half-Mode Substrate Integrated Waveguide Filter Based on a Broadside-Coupled Open Split-Ring Resonator. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2018, 66, 3001-3010.	4.6	15
17	Rapid thermally annealed plasma deposited $\text{SiN}_x\text{H}$ thin films: Application to metal-insulator-semiconductor structures with Si, $\text{In}_{0.53}\text{Ga}_{0.47}\text{As}$ , and $\text{InP}$ . <i>Journal of Applied Physics</i> , 2003, 94, 2642-2653.	2.5	14
18	Low-Frequency CMOS Bandpass Filter for PIR Sensors in Wireless Sensor Nodes. <i>IEEE Sensors Journal</i> , 2014, 14, 4085-4094.	4.7	14

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19	Optimisation of chirped and tapered microstrip Koch fractal electromagnetic bandgap structures for improved low-pass filter design. IET Microwaves, Antennas and Propagation, 2015, 9, 889-897.	1.4	14
20	Compositional analysis of amorphous SiNx: H films by ERDA and infrared spectroscopy. Surface and Interface Analysis, 2000, 30, 534-537.	1.8	13
21	Fabrication and characterisation of thin low-temperature MBE-compatible silicon oxides of different stoichiometry. Thin Solid Films, 1999, 349, 135-146.	1.8	11
22	Physical properties of plasma deposited SiOx thin films. Vacuum, 2002, 67, 525-529.	3.5	11
23	Physical properties of high pressure reactively sputtered hafnium oxide. Vacuum, 2008, 82, 1391-1394.	3.5	11
24	1D Koch fractal electromagnetic bandgap microstrip structures with $r/a$ ratios higher than 0.5. Microwave and Optical Technology Letters, 2011, 53, 646-649.	1.4	11
25	Ambient assisted living system with capacitive occupancy sensor. Expert Systems, 2014, 31, 378-388.	4.5	11
26	Design of high-performance microstrip and coplanar low-pass filters based on electromagnetic bandgap (EBG) structures. AEU - International Journal of Electronics and Communications, 2020, 123, 153311.	2.9	11
27	Rapid thermal annealing effects on plasma deposited SiOx:H films. Vacuum, 2002, 67, 531-536.	3.5	10
28	Microstructural modifications induced by rapid thermal annealing in plasma deposited SiOxNyHz films. Journal of Applied Physics, 2003, 94, 1019-1029.	2.5	9
29	Rapid thermal annealing effects on the electrical behavior of plasma oxidized silicon/silicon nitride stacks gate insulators. Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena, 2003, 21, 1306.	1.6	9
30	Electrical properties of rapid thermally annealed SiNx:H/Si structures characterized by capacitance-voltage and surface photovoltage spectroscopy. Semiconductor Science and Technology, 2001, 16, 534-542.	2.0	8
31	EMFi-based low-power occupancy sensor. Sensors and Actuators A: Physical, 2013, 191, 78-88.	4.1	8
32	An energy efficient middleware for an ad-hoc AAL wireless sensor network. Ad Hoc Networks, 2013, 11, 907-925.	5.5	8
33	Lattice recovery by rapid thermal annealing in Mg+-implanted InP assessed by Raman spectroscopy. Nuclear Instruments & Methods in Physics Research B, 2001, 175-177, 252-256.	1.4	6
34	Reconfigurable Coplanar Waveguide (CPW) and Half-Mode Substrate Integrated Waveguide (HMSIW) Band-Stop Filters Using a Varactor-Loaded Metamaterial-Inspired Open Resonator. Materials, 2018, 11, 39.	2.9	6
35	Compact Double Notch Coplanar and Microstrip Bandstop Filters Using Metamaterial-Inspired Open Ring Resonators. Electronics (Switzerland), 2021, 10, 330.	3.1	5
36	Compositional analysis of polycrystalline hafnium oxide thin films by heavy-ion elastic recoil detection analysis. Thin Solid Films, 2006, 515, 695-699.	1.8	4

#	ARTICLE	IF	CITATIONS
37	Modified split-ring resonator for microstrip dual-band notch filter. , 2015, , .		4
38	Electronically tunable microstrip bandstop filters using a varactor-loaded open ring resonator (VLORR). Applied Physics A: Materials Science and Processing, 2017, 123, 1.	2.3	4
39	Optical absorption in amorphous hydrogenated silicon nitride thin films deposited by the electron cyclotron resonance plasma method and subjected to rapid thermal annealing. Thin Solid Films, 1999, 343-344, 433-436.	1.8	2
40	A fourth order CMOS band pass filter for PIR sensors. , 2012, , .		2
41	A flat-passband and wide-stopband low-pass filter based on tapered Cauchy microstrip Koch fractal EBG structure. , 2014, , .		2
42	Pyroelectric and dielectric properties of ferroelectric ceramics for microwave tunable devices and infrared detector applications. , 2012, , .		1
43	Half mode substrate integrated waveguide (HMSIW) notch filters using open ring resonators. , 2017, , .		1
44	Tunable ferroelectrics for frequency agile microwave and THz devices. , 2018, , 251-264.		1
45	Teaching-learning model for the science of electronics. Journal of Technology and Science Education, 2020, 10, 87.	1.2	1
46	Photovoltage effects under sinusoidal illumination. Journal of Applied Physics, 1999, 86, 3469-3471.	2.5	0