

# Luis F Fonseca

## List of Publications by Year in descending order

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68  
papers

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citations

567281

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h-index

610901

24  
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docs citations

69  
times ranked

1027  
citing authors

#	ARTICLE	IF	CITATIONS
1	Fluorinated Iron and Cobalt Phthalocyanine Nanowire Chemiresistors for Environmental Gas Monitoring at Parts-per-Billion Levels. ACS Applied Nano Materials, 2022, 5, 4688-4699.	5.0	10
2	Thermoelectric properties of antimony selenide hexagonal nanotubes. Nanotechnology, 2021, 32, 095705.	2.6	5
3	Palladium/cobalt nanowires with improved hydrogen sensing stability at ultra-low temperatures. Nanoscale, 2019, 11, 21074-21080.	5.6	24
4	Single nanowire measurements of room temperature ferromagnetism in FeSi nanowires and the effects of Mn-doping. Nanotechnology, 2019, 30, 014001.	2.6	2
5	High Curie temperature CoSi nanowires by Mn-doping. Journal of Applied Physics, 2018, 124, .	2.5	1
6	Thermoelectric properties of SnSe nanowires with different diameters. Scientific Reports, 2018, 8, 11966.	3.3	34
7	Thermoelectric properties and thermal tolerance of indium tin oxide nanowires. Nanotechnology, 2018, 29, 364001.	2.6	10
8	Surface morphology-controlled fabrication of Na <sub>2</sub> WO <sub>4</sub> films with high structural stability. Chemical Physics Letters, 2016, 653, 73-77.	2.6	5
9	Single-Crystal <sup>13</sup> MnS Nanowires Conformally Coated with Carbon. ACS Applied Materials & Interfaces, 2014, 6, 1180-1186.	8.0	68
10	Shape-controlled synthesis of palladium and copper superlattice nanowires for high-stability hydrogen sensors. Scientific Reports, 2014, 4, 3773.	3.3	31
11	A comprehensive study of thermoelectric and transport properties of <sup>12</sup> -silicon carbide nanowires. Journal of Applied Physics, 2013, 114, .	2.5	36
12	Synthesis and transport properties of La <sub>0.67</sub> Sr <sub>0.33</sub> MnO <sub>3</sub> conformally-coated on carbon nanotubes. Carbon, 2013, 65, 252-260.	10.3	15
13	Colorimetric Sensors: Temperature-Activated Reverse Sensing Behavior of Pd Nanowire Hydrogen Sensors (Small 2/2013). Small, 2013, 9, 187-187.	10.0	0
14	Wet-Chemical Approaches to Porous Nanowires with Linear, Spiral, and Meshy Topologies. Nano Letters, 2013, 13, 5642-5646.	9.1	28
15	Temperature-Activated Reverse Sensing Behavior of Pd Nanowire Hydrogen Sensors. Small, 2013, 9, 188-192.	10.0	32
16	Mechanical characterization of pristine and hydrogen-exposed palladium nanowires by <i>in situ</i> TEM. Nanotechnology, 2013, 24, 035701.	2.6	12
17	Photoluminescence of Er-doped silicon-rich oxide thin films with high Al concentrations. Physics Procedia, 2011, 13, 54-57.	1.2	0
18	SiN/bamboo like carbon nanotube composite electrodes for lithium ion rechargeable batteries. Electrochimica Acta, 2010, 55, 2269-2274.	5.2	17

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19	Sputtering configurations and the luminescence of rare earth-doped silicon rich oxide thin films. <i>Optical Materials</i> , 2010, 32, 576-581.	3.6	4
20	<i>In-situ</i> TEM-STM Observations of SWCNT Ropes/tubular Transformations. <i>Materials Research Society Symposia Proceedings</i> , 2009, 1204, 1.	0.1	3
21	Growth and characterization of branched carbon nanostructures arrays in nano-patterned surfaces from porous silicon substrates. <i>Micron</i> , 2009, 40, 80-84.	2.2	9
22	The influence of roughness on the mechanical spectroscopy of SiO <sub>2</sub> nanorods grown by e-beam irradiation. <i>Superlattices and Microstructures</i> , 2009, 45, 458-468.	3.1	2
23	Luminescence of Er-doped silicon oxide-zirconia thin films. <i>Journal of Luminescence</i> , 2009, 129, 696-703.	3.1	4
24	Synthesis of diamond nanocrystals on polyimide film. <i>Diamond and Related Materials</i> , 2009, 18, 113-116.	3.9	10
25	Porous silicon for field emission display applications. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2008, 5, 3479-3483.	0.8	0
26	Tuning the cathodoluminescence of porous silicon films. <i>Journal of Luminescence</i> , 2008, 128, 321-327.	3.1	9
27	Photoluminescence of Er-doped Si-SiO <sub>2</sub> and Al-Si-SiO <sub>2</sub> sputtered thin films. <i>Journal of Luminescence</i> , 2008, 128, 897-900.	3.1	5
28	Luminescence of rare earth-doped Si-ZrO <sub>2</sub> co-sputtered films. <i>Journal of Luminescence</i> , 2008, 128, 1197-1204.	3.1	22
29	Comparative study of the luminescence properties of Er-, Nd- and Tm-doped Si-ZrO <sub>2</sub> CO-sputtered films. <i>Journal of Physics Condensed Matter</i> , 2008, 20, 315003.	1.8	6
30	Electron beam induced growth of silica nanorods and heterostructures in porous silicon. <i>Nanotechnology</i> , 2007, 18, 405308.	2.6	17
31	Electron-Beam Induced Growth of Silica Nanowires and Silica/Carbon Heterostructures. <i>Materials Research Society Symposia Proceedings</i> , 2007, 1017, 116.	0.1	2
32	Growth of Branched Carbon Nanostructures in Nanopatterned Surfaces Created by Focused Ion Beam. <i>Materials Research Society Symposia Proceedings</i> , 2007, 1059, 1.	0.1	1
33	Characterization of annealing effect on the surface, interface and bulk of AlN grown on SiC. <i>International Journal of Refractory Metals and Hard Materials</i> , 2006, 24, 55-60.	3.8	1
34	Enhancement of the photoluminescence properties of porous silicon by silica gel coating. <i>Journal of Applied Physics</i> , 2006, 99, 114313.	2.5	9
35	Cathodoluminescence of modified porous silicon for field emission displays applications. , 2005, , .		0
36	Electron-beam-induced growth of silicon multibranch nanostructures. <i>Applied Physics Letters</i> , 2005, 87, 113111.	3.3	9

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37	Combinatorial Fabrication and Study of Luminescent Nanocrystalline Si Particles Embedded in a SiO <sub>2</sub> Matrix. Materials Research Society Symposia Proceedings, 2005, 894, 1.	0.1	0
38	Optical properties of nanocrystalline silicon within silica gel monoliths. Journal of Applied Physics, 2004, 96, 2240-2243.	2.5	13
39	Physicochemical Characterization of Porous Silicon Surfaces Etched in Salt Solutions of Varying Compositions and pH. Materials Research Society Symposia Proceedings, 2003, 762, 17191.	0.1	0
40	OPTICAL AND ELECTRICAL PROPERTIES OF PURE AND RARE-EARTH-DOPED nc-Si/SiO <sub>2</sub> COMPOSITES PREPARED BY RF COSPUTTERING. Surface Review and Letters, 2002, 09, 1655-1660.	1.1	2
41	Monte Carlo Results for the Ferroelectric Phase Transitions of TGS, NaNO <sub>2</sub> , and DKDP Ultra Thin Films. Integrated Ferroelectrics, 2002, 42, 385-395.	0.7	0
42	Bipolar phototransport in $\pi$ -conjugated polymer/C <sub>60</sub> composites. Applied Physics Letters, 2001, 79, 197-199.	3.3	26
43	Photoluminescence of Eu <sup>3+</sup> in Si/SiO <sub>2</sub> Nanostructure Films. Materials Research Society Symposia Proceedings, 2000, 609, 1141.	0.1	2
44	Surface and Size Effects in TGS, NaNO <sub>2</sub> , and DKDP Nanocrystals. Materials Research Society Symposia Proceedings, 2000, 655, 42.	0.1	0
45	Relation between electroluminescence and photoluminescence in porous silicon. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2000, 72, 138-141.	3.5	7
46	Comparative analysis of the 1.54 $\mu$ m emission of Er-doped Si/SiO <sub>2</sub> films and the size distribution of the nanostructure. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2000, 72, 109-112.	3.5	7
47	Development of Silicon-Based UV-Photodetector Prototypes using Photoluminescent Nanocrystalline Silicon Overlayers. Materials Research Society Symposia Proceedings, 2000, 638, 1.	0.1	0
48	Monte Carlo analysis of the surface and size effects in ferroelectric nanocrystals. Integrated Ferroelectrics, 2000, 29, 149-159.	0.7	2
49	A new analysis method to characterize the S-band luminescence decay of porous Si. Journal of Luminescence, 1999, 81, 1-6.	3.1	2
50	Observation of picosecond nonlinear optical response from porous silicon. Journal of Luminescence, 1999, 83-84, 37-41.	3.1	6
51	Chemically Derived Prussian Blue Sol-Gel Composite Thin Films. Chemistry of Materials, 1999, 11, 135-140.	6.7	90
52	Silicon-Based UV Detector Prototypes Using Luminescent Porous Silicon Films. Materials Research Society Symposia Proceedings, 1998, 536, 123.	0.1	0
53	Sensitization of the minority carrier lifetime in hydrogenated amorphous silicon. Applied Physics Letters, 1998, 72, 103-105.	3.3	10
54	Electron-diffraction effects on scanning tunneling spectroscopy. Physical Review B, 1997, 55, 15912-15918.	3.2	7

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55	Thermal quenching of the minority-carrier lifetime in a-Si:H. <i>Physical Review B</i> , 1997, 55, R15997-R16000.	3.2	10
56	Study of the enhancement effects of composite films on the magneto-optical Kerr effect. <i>Journal of Magnetism and Magnetic Materials</i> , 1996, 161, 379-384.	2.3	1
57	Time-independent tunneling current of a tip-sample system in scanning tunneling spectroscopy. <i>Physical Review B</i> , 1995, 51, 2501-2505.	3.2	7
58	Theory of tunneling spectroscopy for semiconductors. <i>Physical Review B</i> , 1994, 49, 1981-1988.	3.2	14
59	Calculation of the aggregation and electrodynamic effects in granular systems. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1994, 207, 123-130.	2.6	4
60	T-matrix approach for calculating local fields around clusters of rotated spheroids. <i>Applied Optics</i> , 1993, 32, 2164.	2.1	7
61	Resistivity and electrical noise in granular metal composites. <i>Physical Review B</i> , 1993, 48, 14915-14924.	3.2	16
62	Calculation of Local Fields for Clusters of Ellipsoids Within the T-Katrix Approach. <i>Materials Research Society Symposia Proceedings</i> , 1990, 195, 109.	0.1	0
63	T-matrix approach for the calculation of local fields in the neighborhood of small clusters in the electrodynamic regime. <i>Physical Review B</i> , 1989, 40, 7491-7500.	3.2	10
64	Multiple scattering renormalized T matrix theory for the dielectric constant of non-homogeneous thin films. <i>Thin Solid Films</i> , 1985, 125, 243-250.	1.8	5
65	Multiple-scattering theories including correlation effects to obtain the effective dielectric constant of nonhomogeneous thin films. <i>Physical Review B</i> , 1985, 32, 3429-3441.	3.2	20
66	Corrections to the optical properties of cermets. III. Multiple scattering corrections. <i>Ferroelectrics, Letters Section</i> , 1984, 2, 17-24.	1.0	2
67	Corrections to the optical properties of cermets. I. Quantum size effects. <i>Ferroelectrics</i> , 1984, 54, 223-226.	0.6	5
68	Corrections to the optical properties of cermets. II. Application of the quantum size effects to a real cermet. <i>Ferroelectrics</i> , 1984, 54, 227-230.	0.6	3