Luis F Fonseca

List of Publications by Year
in descending order

68	721	567281 15	610901 24
papers	citations	h-index	g-index

69	69	69	1027
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Chemically Derived Prussian Blue Solâ˜Gel Composite Thin Films. Chemistry of Materials, 1999, 11, 135-140.	6.7	90
2	Single-Crystal Î³-MnS Nanowires Conformally Coated with Carbon. ACS Applied Materials & Interfaces, 2014, 6, 1180-1186.	8.0	68
3	A comprehensive study of thermoelectric and transport properties of Î²-silicon carbide nanowires. Journal of Applied Physics, 2013, 114, .	2.5	36
4	Thermoelectric properties of SnSe nanowires with different diameters. Scientific Reports, 2018, 8, 11966.	3.3	34
5	Temperatureâ€Activated Reverse Sensing Behavior of Pd Nanowire Hydrogen Sensors. Small, 2013, 9, 188-192.	10.0	32
6	Shape-controlled synthesis of palladium and copper superlattice nanowires for high-stability hydrogen sensors. Scientific Reports, 2014, 4, 3773.	3.3	31
7	Wet-Chemical Approaches to Porous Nanowires with Linear, Spiral, and Meshy Topologies. Nano Letters, 2013, 13, 5642-5646.	9.1	28
8	Bipolar phototransport in Ï€-conjugated polymerâ€Š/C60 composites. Applied Physics Letters, 2001, 79, 197-199.	3.3	26
9	Palladium/cobalt nanowires with improved hydrogen sensing stability at ultra-low temperatures. Nanoscale, 2019, 11, 21074-21080.	5.6	24
10	Luminescence of rare earth-doped Siâ€“ZrO2 co-sputtered films. Journal of Luminescence, 2008, 128, 1197-1204.	3.1	22
11	Multiple-scattering theories including correlation effects to obtain the effective dielectric constant of nonhomogeneous thin films. Physical Review B, 1985, 32, 3429-3441.	3.2	20
12	Electron beam induced growth of silica nanorods and heterostructures in porous silicon. Nanotechnology, 2007, 18, 405308.	2.6	17
13	SiN/bamboo like carbon nanotube composite electrodes for lithium ion rechargeable batteries. Electrochimica Acta, 2010, 55, 2269-2274.	5.2	17
14	Resistivity and electrical noise in granular metal composites. Physical Review B, 1993, 48, 14915-14924.	3.2	16
15	Synthesis and transport properties of La0.67Sr0.33MnO3 conformally-coated on carbon nanotubes. Carbon, 2013, 65, 252-260.	10.3	15
16	Theory of tunneling spectroscopy for semiconductors. Physical Review B, 1994, 49, 1981-1988.	3.2	14
17	Optical properties of nanocrystalline silicon within silica gel monoliths. Journal of Applied Physics, 2004, 96, 2240-2243.	2.5	13
18	Mechanical characterization of pristine and hydrogen-exposed palladium nanowires byin situTEM. Nanotechnology, 2013, 24, 035701.	2.6	12

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19	T-matrix approach for the calculation of local fields in the neighborhood of small clusters in the electrodynamic regime. Physical Review B, 1989, 40, 7491-7500.	3.2	10
20	Thermal quenching of the minority-carrier lifetime in a-Si:H. Physical Review B, 1997, 55, R15997-R16000.	3.2	10
21	Sensitization of the minority carrier lifetime in hydrogenated amorphous silicon. Applied Physics Letters, 1998, 72, 103-105.	3.3	10
22	Synthesis of diamond nanocrystals on polyimide film. Diamond and Related Materials, 2009, 18, 113-116.	3.9	10
23	Thermoelectric properties and thermal tolerance of indium tin oxide nanowires. Nanotechnology, 2018, 29, 364001.	2.6	10
24	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
25	Electron-beam-induced growth of silicon multibranched nanostructures. Applied Physics Letters, 2005, 87, 113111.	3.3	9
26	Enhancement of the photoluminescence properties of porous silicon by silica gel coating. Journal of Applied Physics, 2006, 99, 114313.	2.5	9
27	Tuning the cathodoluminescence of porous silicon films. Journal of Luminescence, 2008, 128, 321-327.	3.1	9
28	Growth and characterization of branched carbon nanostructures arrays in nano-patterned surfaces from porous silicon substrates. Micron, 2009, 40, 80-84.	2.2	9
29	T-matrix approach for calculating local fields around clusters of rotated spheroids. Applied Optics, 1993, 32, 2164.	2.1	7
30	Time-independent tunneling current of a tip-sample system in scanning tunneling spectroscopy. Physical Review B, 1995, 51, 2501-2505.	3.2	7
31	Electron-diffraction effects on scanning tunneling spectroscopy. Physical Review B, 1997, 55, 15912-15918.	3.2	7
32	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
33	Comparative analysis of the 1.54 Î¼m emission of Er-doped Si/SiO2 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
34	Observation of picosecond nonlinear optical response from porous silicon. Journal of Luminescence, 1999, 83-84, 37-41.	3.1	6
35	Comparative study of the luminescence properties of Er-, Nd- and Tm-doped Siâ€“ZrO2CO-sputtered films. Journal of Physics Condensed Matter, 2008, 20, 315003.	1.8	6
36	Corrections to the optical properties of cermets. I. Quantum size effects. Ferroelectrics, 1984, 54, 223-226.	0.6	5

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37	Multiple scattering renormalized T matrix theory for the dielectric constant of non-homogeneous thin films. Thin Solid Films, 1985, 125, 243-250.	1.8	5
38	Photoluminescence of Er-doped Si-SiO2 and Alâ€“Si-SiO2 sputtered thin films. Journal of Luminescence, 2008, 128, 897-900.	3.1	5
39	Surface morphology-controlled fabrication of Na2WO4 films with high structural stability. Chemical Physics Letters, 2016, 653, 73-77.	2.6	5
40	Thermoelectric properties of antimony selenide hexagonal nanotubes. Nanotechnology, 2021, 32, 095705.	2.6	5
41	Calculation of the aggregation and electrodynamic effects in granular systems. Physica A: Statistical Mechanics and Its Applications, 1994, 207, 123-130.	2.6	4
42	Luminescence of Er-doped silicon oxideâ€“zirconia thin films. Journal of Luminescence, 2009, 129, 696-703.	3.1	4
43	Sputtering configurations and the luminescence of rare earth-doped silicon rich oxide thin films. Optical Materials, 2010, 32, 576-581.	3.6	4
44	Corrections to the optical properties of cermets. II. Application of the quantum size effects to a real cermet. Ferroelectrics, 1984, 54, 227-230.	0.6	3
45	In-situ TEM-STM Observations of SWCNT Ropes/tubular Transformations. Materials Research Society Symposia Proceedings, 2009, 1204, 1.	0.1	3
46	Corrections to the optical properties of cermets. III. Multiple scattering corrections. Ferroelectrics, Letters Section, 1984, 2, 17-24.	1.0	2
47	A new analysis method to characterize the S-band luminescence decay of porous Si. Journal of Luminescence, 1999, 81, 1-6.	3.1	2
48	Photoluminescence of Eu3+ in Si/SiO2 Nanostructure Films. Materials Research Society Symposia Proceedings, 2000, 609, 1141.	0.1	2
49	Monte Carlo analysis of the surface and size effects in ferroelectric nanocrystals. Integrated Ferroelectrics, 2000, 29, 149-159.	0.7	2
50	OPTICAL AND ELECTRICAL PROPERTIES OF PURE AND RARE-EARTH-DOPED nc-Si/SiO2 COMPOSITES PREPARED BY RF COSPUTTERING. Surface Review and Letters, 2002, 09, 1655-1660.	1.1	2
51	Electron-Beam Induced Growth of Silica Nanowires and Silica/Carbon Heterostructures. Materials Research Society Symposia Proceedings, 2007, 1017, 116.	0.1	2
52	The influence of roughness on the mechanical spectroscopy of SiO2 nanorods grown by e-beam irradiation. Superlattices and Microstructures, 2009, 45, 458-468.	3.1	2
53	Single nanowire measurements of room temperature ferromagnetism in FeSi nanowires and the effects of Mn-doping. Nanotechnology, 2019, 30, 014001.	2.6	2
54	Study of the enhancement effects of composite films on the magneto-optical Kerr effect. Journal of Magnetism and Magnetic Materials, 1996, 161, 379-384.	2.3	1

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55	Characterization of annealing effect on the surface, interface and bulk of AlN grown on SiC. International Journal of Refractory Metals and Hard Materials, 2006, 24, 55-60.	3.8	1
56	Growth of Branched Carbon Nanostructures in Nanopatterned Surfaces Created by Focused Ion Beam. Materials Research Society Symposia Proceedings, 2007, 1059, 1.	0.1	1
57	High Curie temperature CoSi nanowires by Mn-doping. Journal of Applied Physics, 2018, 124, .	2.5	1
58	Calculation of Local Fields for Clusters of Ellipsoids Within the T-Katrix Approach. Materials Research Society Symposia Proceedings, 1990, 195, 109.	0.1	0
59	Silicon-Based UV Detector Prototypes Using Luminescent Poroussilicon Films. Materials Research Society Symposia Proceedings, 1998, 536, 123.	0.1	0
60	Surface and Size Effects in TGS, NaNO2, and DKDP Nanocrystals. Materials Research Society Symposia Proceedings, 2000, 655, 42.	0.1	0
61	Development of Silicon-Based UV-Photodetector Prototypes using Photoluminescent Nanocrystalline Silicon Overlayers. Materials Research Society Symposia Proceedings, 2000, 638, 1.	0.1	0
62	Monte Carlo Results for the Ferroelectric Phase Transitions of TGS, NaNO 2 , and DKDP Ultra Thin Films. Integrated Ferroelectrics, 2002, 42, 385-395.	0.7	0
63	Cathodoluminescence of modified porous silicon for field emission displays applications. , 2005, , .		0
64	Combinatorial Fabrication and Study of Luminescent Nanocrystalline Si Particles Embedded in a SiO2 Matrix. Materials Research Society Symposia Proceedings, 2005, 894, 1.	0.1	0
65	Porous silicon for field emission display applications. Physica Status Solidi C: Current Topics in Solid State Physics, 2008, 5, 3479-3483.	0.8	0
66	Photoluminescence of Er-doped silicon-rich oxide thin films with high Al concentrations. Physics Procedia, 2011, 13, 54-57.	1.2	0
67	Colorimetric Sensors: Temperature-Activated Reverse Sensing Behavior of Pd Nanowire Hydrogen Sensors (Small 2/2013). Small, 2013, 9, 187-187.	10.0	0
68	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