

# P Fernandez

## List of Publications by Citations

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121  
papers

1,810  
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132  
ext. papers

1,987  
ext. citations

3.1  
avg, IF

4.57  
L-index

#	Paper	IF	Citations
121	Deep energy levels in CdTe and CdZnTe. <i>Journal of Applied Physics</i> , <b>1998</b> , 83, 2121-2126	2.5	236
120	Luminescence properties of mechanically milled and laser irradiated ZnO. <i>Nanotechnology</i> , <b>2003</b> , 14, 794-798	3.4	53
119	Comparison of electrical and luminescence data for the A center in CdTe. <i>Applied Physics Letters</i> , <b>1996</b> , 69, 3510-3512	3.4	53
118	Ion migration assisted inscription of high refractive index contrast waveguides by femtosecond laser pulses in phosphate glass. <i>Optics Letters</i> , <b>2013</b> , 38, 5248-51	3	47
117	Growth and spatially resolved luminescence of low dimensional structures in sintered ZnO. <i>Nanotechnology</i> , <b>2005</b> , 16, 931-935	3.4	42
116	Growth and luminescence of oriented nanoplate arrays in tin doped ZnO. <i>Nanotechnology</i> , <b>2007</b> , 18, 115606	3.4	40
115	Cathodoluminescence microscopy of hydrothermal and flux grown ZnO single crystals. <i>Journal Physics D: Applied Physics</i> , <b>2001</b> , 34, 2945-2949	3	38
114	Effect of thermal annealing on Te precipitates in CdTe wafers studied by Raman scattering and cathodoluminescence. <i>Journal of Applied Physics</i> , <b>1995</b> , 77, 2806-2808	2.5	37
113	Cathodoluminescence characterization of Ge-doped CdTe crystals. <i>Journal of Applied Physics</i> , <b>1995</b> , 78, 1992-1995	2.5	35
112	Cathodoluminescence and photoinduced current spectroscopy studies of defects in Cd <sub>0.8</sub> Zn <sub>0.2</sub> Te. <i>Physical Review B</i> , <b>1996</b> , 54, 7622-7625	3.3	34
111	Raman spectra of structures with CdTe-, ZnTe-, and CdSe-based quantum dots and their relation to the fabrication technology. <i>Physics of the Solid State</i> , <b>2008</b> , 50, 164-167	0.8	32
110	Effect of laser irradiation on the luminescence of Mg and Si-doped GaN films. <i>Journal of Applied Physics</i> , <b>1999</b> , 85, 1120-1123	2.5	32
109	Role of ion migrations in ultrafast laser written tellurite glass waveguides. <i>Optics Express</i> , <b>2014</b> , 22, 15293-15304	3.3	31
108	Fe solubility, growth mechanism, and luminescence of Fe doped ZnO nanowires and nanorods grown by evaporation-deposition. <i>Journal of Applied Physics</i> , <b>2011</b> , 110, 014317	2.5	31
107	Indium-zinc-oxide nanobelts with superlattice structure. <i>Applied Physics Letters</i> , <b>2009</b> , 95, 013111	3.4	29
106	Midgap traps related to compensation processes in CdTe alloys. <i>Physical Review B</i> , <b>1997</b> , 56, 14897-14900	3.3	29
105	Influence of deformation on the luminescence of GaN epitaxial films. <i>Semiconductor Science and Technology</i> , <b>1998</b> , 13, 900-905	1.8	29

104	Growth and luminescence properties of micro- and nanoneedles in sintered CdSe. <i>Applied Physics Letters</i> , <b>2004</b> , 85, 5968-5970	3.4	28
103	Influence of yttrium doping on the structural, morphological and optical properties of nanostructured ZnO thin films grown by spray pyrolysis. <i>Ceramics International</i> , <b>2019</b> , 45, 6842-6852	5.1	27
102	Controlling plasma distributions as driving forces for ion migration during fs laser writing. <i>Journal Physics D: Applied Physics</i> , <b>2015</b> , 48, 155101	3	26
101	ZnO Nanostructured Microspheres and Elongated Structures Grown by Thermal Treatment of ZnS Powder. <i>Crystal Growth and Design</i> , <b>2007</b> , 7, 836-839	3.5	26
100	Local distribution of deep centers in GaP studied by infrared cathodoluminescence. <i>Applied Physics Letters</i> , <b>1991</b> , 58, 257-259	3.4	26
99	Study of structure and luminescence of CdSe Nanocrystals obtained by ball milling. <i>Journal of Applied Physics</i> , <b>2004</b> , 96, 2210-2213	2.5	25
98	Synthesis and microstructural properties of zinc oxide nanoparticles prepared by selective leaching of zinc from spent alkaline batteries using ammoniacal ammonium carbonate. <i>Journal of Cleaner Production</i> , <b>2017</b> , 148, 795-803	10.3	23
97	Self-assembled tin-doped ZnO nanowire and nanoplate structures grown by thermal treatment of ZnS powder. <i>Journal of Crystal Growth</i> , <b>2009</b> , 311, 3231-3234	1.6	23
96	. <i>IEEE Photonics Technology Letters</i> , <b>2015</b> , 27, 1068-1071	2.2	21
95	Study of defects in GaN films by cross-sectional cathodoluminescence. <i>Journal of Applied Physics</i> , <b>1998</b> , 83, 2796-2799	2.5	21
94	Al doped ZnO nanoplate arrays and microbox structures grown by thermal deposition. <i>Journal of Applied Physics</i> , <b>2009</b> , 105, 054315	2.5	20
93	Dysprosium Removal from Water Using Active Carbons Obtained from Spent Coffee Ground. <i>Nanomaterials</i> , <b>2019</b> , 9,	5.4	19
92	Luminescence and waveguiding behavior in Tb doped ZnO micro and nanostructures. <i>Journal of Alloys and Compounds</i> , <b>2014</b> , 610, 416-421	5.7	19
91	Elimination of Te precipitates from CdTe wafers. <i>Semiconductor Science and Technology</i> , <b>1995</b> , 10, 870-875	1.5	19
90	Nanowires and stacks of nanoplates of Mn doped ZnO synthesized by thermal evaporation-deposition. <i>Materials Chemistry and Physics</i> , <b>2012</b> , 132, 1119-1124	4.4	18
89	Control of waveguide properties by tuning femtosecond laser induced compositional changes. <i>Applied Physics Letters</i> , <b>2014</b> , 105, 131101	3.4	18
88	Growth and cathodoluminescence of Eu doped ZnO nanoneedles and branched nanoneedle structures. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2010</b> , 10, 502-7	1.3	18
87	Luminescence from growth topographic features in GaN:Si films. <i>Journal of Applied Physics</i> , <b>1998</b> , 83, 462-465	2.5	17

86	Effect of ion beam milling on the defect structure of CdTe. <i>Semiconductor Science and Technology</i> , <b>1996</b> , 11, 1354-1357	1.8	17
85	Characterization and sensing properties of ZnO film prepared by single source chemical vapor deposition. <i>Advanced Powder Technology</i> , <b>2017</b> , 28, 23-29	4.6	16
84	Scanning electron microscopy characterization of ZnSe single crystals grown by solid-phase recrystallization. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , <b>2000</b> , 78, 105-108	3.1	16
83	Study of point defects in CdTe and CdTe:V by cathodoluminescence. <i>Journal of Applied Physics</i> , <b>1994</b> , 76, 3720-3723	2.5	16
82	Interconfigurational and intraconfigurational transitions of Yb <sup>2+</sup> and Yb <sup>3+</sup> ions in hydroxyapatite: A cathodoluminescence study. <i>Acta Materialia</i> , <b>2017</b> , 135, 35-43	8.4	16
81	Luminescence and light guiding properties of Er and Li codoped ZnO nanostructures. <i>Journal of Luminescence</i> , <b>2018</b> , 195, 396-401	3.8	16
80	High-Efficiency Waveguide Optical Amplifiers and Lasers via FS-Laser Induced Local Modification of the Glass Composition. <i>Journal of Lightwave Technology</i> , <b>2017</b> , 35, 2955-2959	4	15
79	Dense vertical nanoplates arrays and nanobelts of indium doped ZnO grown by thermal treatment of ZnS <sub>0.9</sub> In <sub>0.1</sub> O <sub>3</sub> powders. <i>Journal of Crystal Growth</i> , <b>2010</b> , 312, 3117-3121	1.6	15
78	Cathodoluminescence study of Te-doped ZnO microstructures grown by a vapour-solid process. <i>Journal of Materials Science</i> , <b>2008</b> , 43, 2844-2848	4.3	15
77	Cathodoluminescence microscopy and photoluminescence of defects in ZnTe. <i>Semiconductor Science and Technology</i> , <b>1998</b> , 13, 410-416	1.8	15
76	Characterization of zirconia/mullite ceramics by cathodoluminescence technique. <i>Applied Physics A: Solids and Surfaces</i> , <b>1987</b> , 44, 299-303		15
75	Luminescence from Bi <sub>2</sub> Sr <sub>2</sub> CaCu <sub>2</sub> O <sub>x</sub> and YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7-<math>\delta</math></sub> films in the scanning electron microscope. <i>Journal of Applied Physics</i> , <b>1992</b> , 71, 2778-2782	2.5	14
74	Study of structural changes in YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7-<math>\delta</math></sub> by cathodoluminescence in the scanning electron microscope. <i>Applied Physics Letters</i> , <b>1990</b> , 57, 2722-2724	3.4	14
73	Universal relations between range and damage profile parameters. <i>Radiation Effects</i> , <b>1987</b> , 103, 89-101		14
72	Influence of indium doping on the morphology of ZnS nanostructures grown by a vapor-solid method. <i>CrystEngComm</i> , <b>2013</b> , 15, 7080	3.3	13
71	Cathodoluminescence characterization of ZnO:Te microstructures obtained with ZnTe and TeO <sub>2</sub> doping precursors. <i>Superlattices and Microstructures</i> , <b>2008</b> , 43, 600-604	2.8	13
70	Cathodoluminescence and scanning tunnelling spectroscopy of ZnO single crystals. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , <b>2002</b> , 91-92, 345-348	3.1	13
69	Deformation-induced defect levels in ZnSe crystals. <i>Semiconductor Science and Technology</i> , <b>1999</b> , 14, 430-434	1.8	12

68	New photocatalytic materials obtained from the recycling of alkaline and Zn/C spent batteries. <i>Journal of Materials Research and Technology</i> , <b>2019</b> , 8, 2809-2818	5.5	11
67	Cathodoluminescence of In doped ZnS nanostructures grown by vapor-solid method. <i>Journal of Alloys and Compounds</i> , <b>2013</b> , 563, 113-118	5.7	11
66	Porosity-induced gain of luminescence in CdSe. <i>Semiconductor Science and Technology</i> , <b>2004</b> , 19, L121-L128		11
65	Synthesis and characterization of ZnO micro- and nanostructures grown from recovered ZnO from spent alkaline batteries. <i>Journal of Environmental Chemical Engineering</i> , <b>2017</b> , 5, 2903-2911	6.8	10
64	Light guiding and optical resonances in ZnS microstructures doped with Ga or In. <i>Journal of Materials Chemistry C</i> , <b>2015</b> , 3, 10981-10989	7.1	10
63	Thermal growth and luminescence of wurtzite ZnS nanowires and nanoribbons. <i>Journal of Crystal Growth</i> , <b>2012</b> , 348, 85-90	1.6	10
62	Voids, nanochannels and formation of nanotubes with mobile Sn fillings in Sn doped ZnO nanorods. <i>Nanotechnology</i> , <b>2010</b> , 21, 225604	3.4	10
61	Thermal growth and cathodoluminescence of Bi doped ZnO nanowires and rods. <i>Journal Physics D: Applied Physics</i> , <b>2009</b> , 42, 225101	3	10
60	Scanning tunnelling spectroscopy characterization of ZnO single crystals. <i>Semiconductor Science and Technology</i> , <b>2001</b> , 16, 589-593	1.8	10
59	Recombination processes in Te-doped ZnO microstructures. <i>Physica Status Solidi (B): Basic Research</i> , <b>2014</b> , 251, 683-688	1.3	9
58	Study of defects in CdTe: Cl by cathodoluminescence microscopy. <i>Materials Letters</i> , <b>1995</b> , 23, 227-230	3.3	9
57	Analytical approximations for range and damage profile parameter predictions on a microcomputer. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>1987</b> , 19-20, 28-31	1.2	9
56	Growth and characterisation of ZnO micro/nanostructures doped with cerium for photocatalytic degradation applications. <i>Journal of Alloys and Compounds</i> , <b>2020</b> , 820, 153146	5.7	9
55	Femtosecond laser writing of photonic devices in borate glasses compositionally designed to be laser writable. <i>Optics Letters</i> , <b>2018</b> , 43, 2523-2526	3	8
54	Growth by thermal evaporation of Al doped ZnS elongated micro- and nanostructures and their cathodoluminescence properties. <i>Journal of Alloys and Compounds</i> , <b>2014</b> , 603, 57-64	5.7	8
53	Growth and characterization of Er-doped ZnO elongated nanostructures. <i>Physica Status Solidi (A) Applications and Materials Science</i> , <b>2011</b> , 208, 868-873	1.6	8
52	Growth and Luminescence of Nanowires and Oriented Nanoplate Arrays of Mg Doped ZnO. <i>Journal of Nano Research</i> , <b>2009</b> , 4, 27-32	1	8
51	Cathodoluminescence study of laser recrystallized CdTe layers. <i>Applied Physics Letters</i> , <b>1997</b> , 71, 3096-3098		8

50	Compensation and deep levels in IIIV compounds. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , <b>1996</b> , 42, 302-305	3.1	8
49	From spent alkaline batteries to Zn Mn O by a hydrometallurgical route: synthesis and characterization.. <i>RSC Advances</i> , <b>2018</b> , 8, 33496-33505	3.7	8
48	Optical spectroscopy study of nano- and microstructures fabricated by femtosecond laser pulses on ZnO based systems. <i>CrystEngComm</i> , <b>2018</b> , 20, 2952-2960	3.3	7
47	Enhanced UV emission of Li <sup>+</sup> co-doped ZnO thin films via spray pyrolysis. <i>Journal of Alloys and Compounds</i> , <b>2019</b> , 808, 151710	5.7	7
46	Luminescence properties of mechanically milled ZnSe. <i>Physica Status Solidi A</i> , <b>2004</b> , 201, 3183-3187		7
45	Optical spectroscopy characterization of Cu doped ZnO nano- and microstructures grown by vapor-solid method. <i>Journal of Alloys and Compounds</i> , <b>2016</b> , 687, 161-167	5.7	6
44	Self-assembled three-dimensional Al-doped ZnO nanorod networks. <i>Semiconductor Science and Technology</i> , <b>2011</b> , 26, 085035	1.8	6
43	Deep Level Cathodoluminescence in Deformed CdTe Crystals. <i>Physica Status Solidi A</i> , <b>1995</b> , 147, 75-80		6
42	Localized luminescence in ZnO: Mn ceramics. <i>Applied Physics A: Materials Science and Processing</i> , <b>1988</b> , 46, 1-3	2.6	6
41	Annealing effects on mechanically damaged ZnO ceramics. <i>Physica Status Solidi A</i> , <b>1988</b> , 107, 197-203		6
40	Fast growth of undoped and Sn- and Tb-doped ZnO nanowires by Joule heating of Zn. <i>CrystEngComm</i> , <b>2018</b> , 20, 4449-4454	3.3	6
39	Optical characterization of Ga-doped ZnS micro- and nanostructures. <i>Journal of Materials Science</i> , <b>2015</b> , 50, 2103-2112	4.3	5
38	Study of the influence of dopant precursor on the growth and properties of Li-doped ZnO. <i>Journal of Physics and Chemistry of Solids</i> , <b>2020</b> , 139, 109354	3.9	5
37	Luminescence and Raman study of Zn <sub>4</sub> In <sub>2</sub> O <sub>7</sub> nanobelts and plates. <i>Superlattices and Microstructures</i> , <b>2013</b> , 56, 1-7	2.8	5
36	Study of growth hillocks in GaN:Si films by electron beam induced current imaging. <i>Journal of Applied Physics</i> , <b>2001</b> , 90, 1058-1060	2.5	5
35	Preferential Growth of ZnO Micro- and Nanostructure Assemblies on Fs-Laser-Induced Periodic Structures. <i>Nanomaterials</i> , <b>2020</b> , 10,	5.4	4
34	Raman spectroscopy of femtosecond laser written low propagation loss optical waveguides in Schott N-SF8 glass. <i>Optical Materials</i> , <b>2017</b> , 72, 626-631	3.3	4
33	Imaging Ellipsometry Determination of the Refractive Index Contrast and Dispersion of Channel Waveguides Inscribed by fs-Laser Induced Ion-Migration. <i>Physica Status Solidi (A) Applications and Materials Science</i> , <b>2018</b> , 215, 1800258	1.6	4

32	Formation of vacancy point-defects in hydroxyapatite nanobelts by selective incorporation of Fe <sup>3+</sup> ions in Ca(II) sites. A CL and XPS study. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , <b>2021</b> , 271, 115308	3.1	4
31	Luminescence and gas-sensing properties of ZnO obtained from the recycling of alkaline batteries. <i>Journal of Materials Science</i> , <b>2018</b> , 53, 2026-2033	4.3	3
30	In situ TEM and analytical STEM studies of ZnO nanotubes with Sn cores and Sn nanodrops. <i>Journal Physics D: Applied Physics</i> , <b>2013</b> , 46, 395301	3	3
29	Cathodoluminescence study of semiconductor oxide micro- and nanostructures grown by vapor deposition. <i>Scanning</i> , <b>2008</b> , 30, 354-7	1.6	3
28	Scanning electron microscopy study of twins in ZnSe single crystals grown by solid-phase recrystallization. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , <b>2001</b> , 80, 130-133	3.1	3
27	Cathodoluminescence and photoluminescence study of plastically deformed ZnTe bulk single crystals. <i>Semiconductor Science and Technology</i> , <b>2001</b> , 16, 289-292	1.8	3
26	Scanning electron acoustic microscopy of ZnO ceramics. <i>Materials Chemistry and Physics</i> , <b>1989</b> , 24, 215-218	1.4	3
25	Correlative study of structural and optical properties of ZnSe under severe plastic deformation. <i>Journal of Applied Physics</i> , <b>2019</b> , 126, 225702	2.5	3
24	Luminescence and cathodoluminescence properties of MIPr(PO <sub>3</sub> ) <sub>4</sub> (MI=Na, Li, K) and PrP5O14. <i>Physica B: Condensed Matter</i> , <b>2019</b> , 554, 121-125	2.8	3
23	Vapor-solid growth ZnO:ZrO <sub>2</sub> micro and nanocomposites. <i>Journal of Alloys and Compounds</i> , <b>2021</b> , 877, 160219	5.7	3
22	Strong ion migration in high refractive index contrast waveguides formed by femtosecond laser pulses in phosphate glass <b>2014</b> ,		2
21	Complex hierarchical arrangements of stacked nanoplates in Al-doped ZnO. <i>Physica Status Solidi (A) Applications and Materials Science</i> , <b>2012</b> , 209, 1487-1492	1.6	2
20	Effect of Plastic Deformation on the Luminescence of ZnSe Crystals. <i>Solid State Phenomena</i> , <b>1998</b> , 63-64, 207-214	0.4	2
19	Composition dependence of cathodoluminescence emission of Al <sub>x</sub> Ga <sub>1-x</sub> P. <i>Solid State Communications</i> , <b>1990</b> , 76, 195-196	1.6	2
18	ZnO Nanoparticles with Controllable Ce Content for Efficient Photocatalytic Degradation of MB Synthesized by the Polyol Method. <i>Catalysts</i> , <b>2021</b> , 11, 71	4	2
17	Growth of ZnO nanostructures by femtosecond laser irradiation of polycrystalline targets. <i>Applied Physics A: Materials Science and Processing</i> , <b>2015</b> , 121, 607-617	2.6	1
16	Growth by Vapor-Solid Method and Luminescence Characterization of Zn-Chalcogenides Micro- and Nanostructures. <i>Physica Status Solidi (A) Applications and Materials Science</i> , <b>2018</b> , 215, 1800219	1.6	1
15	Gallium doped ZnS micro- and nanostructures: thermal synthesis and structural properties. <i>Materials Research Express</i> , <b>2015</b> , 2, 035902	1.7	1



14	Scanning tunneling microscopy study of the surface electrical properties of ZnO films grown by pulsed laser deposition. <i>Physica Status Solidi A</i> , <b>2003</b> , 195, 183-187		1
13	Scanning electron acoustic microscopy of Bi <sub>2</sub> Sr <sub>2</sub> CaCu <sub>2</sub> O <sub>x</sub> . <i>Solid State Communications</i> , <b>1993</b> , 87, 843-845.6		1
12	A positron study of sintering processes in ZnO-based ceramics. <i>Journal of Physics Condensed Matter</i> , <b>1989</b> , 1, 4853-4858	1.8	1
11	Study of the influence of the precursors on the sensing properties of ZnO:Cu system. <i>Ceramics International</i> , <b>2020</b> , 46, 8358-8367	5.1	1
10	Characterization of Nb <sub>2</sub> O <sub>5</sub> microrods grown from niobium oxide powders recovered from mine tailings. <i>Ceramics International</i> , <b>2021</b> , 47, 13859-13864	5.1	1
9	Evolution of Whispering Gallery Modes in Li-Doped ZnO Hexagonal Micro- and Nanostructures. <i>Applied Sciences (Switzerland)</i> , <b>2020</b> , 10, 8602	2.6	0
8	In-situ transmission electron microscopy study of melting and diffusion processes at the nanoscale in ZnO nanotubes with Sn cores. <i>Journal of Alloys and Compounds</i> , <b>2018</b> , 744, 421-425	5.7	
7	Analyses of Compensation Related Defects in II-VI Compounds. <i>Materials Research Society Symposia Proceedings</i> , <b>1997</b> , 487, 269		
6	Cross-sectional cathodoluminescence of GaN epitaxial films. <i>Materials Research Society Symposia Proceedings</i> , <b>1997</b> , 482, 726		
5	Fabrication of low dimensional structures of ZnSe and ZnO by thermal and mechanical methods. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , <b>2006</b> , 3, 1066-1069		
4	Investigation of Deep Energy Levels in II-VI Compounds. <i>Materials Research Society Symposia Proceedings</i> , <b>1996</b> , 442, 605		
3	Electrical and Optical Properties of Defects by Complementary Spectroscopies. <i>Materials Research Society Symposia Proceedings</i> , <b>1995</b> , 411, 177		
2	Raman spectra of structures with CdTe-, ZnTe-, and CdSe-based quantum dots and their relation to the fabrication technology <b>2010</b> , 50, 164		
1	Niobium Oxide and Tantalum Oxide Micro- and Nanostructures Grown Using Material Recovered from Mining Tailings. <i>Materials Proceedings</i> , <b>2021</b> , 3, 1	0.3	