

P Fernandez

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.

121
papers

1,810
citations

23
h-index

35
g-index

132
ext. papers

1,987
ext. citations

3.1
avg, IF

4.57
L-index

#	Paper	IF	Citations
121	Characterization of Nb ₂ O ₅ microrods grown from niobium oxide powders recovered from mine tailings. <i>Ceramics International</i> , 2021 , 47, 13859-13864	5.1	1
120	ZnO Nanoparticles with Controllable Ce Content for Efficient Photocatalytic Degradation of MB Synthesized by the Polyol Method. <i>Catalysts</i> , 2021 , 11, 71	4	2
119	Niobium Oxide and Tantalum Oxide Micro- and Nanostructures Grown Using Material Recovered from Mining Tailings. <i>Materials Proceedings</i> , 2021 , 3, 1	0.3	
118	Formation of vacancy point-defects in hydroxyapatite nanobelts by selective incorporation of Fe ³⁺ ions in Ca(II) sites. A CL and XPS study. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2021 , 271, 115308	3.1	4
117	Vapor-solid growth ZnO:ZrO ₂ micro and nanocomposites. <i>Journal of Alloys and Compounds</i> , 2021 , 877, 160219	5.7	3
116	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> , 2020 , 139, 109354	3.9	5
115	Preferential Growth of ZnO Micro- and Nanostructure Assemblies on Fs-Laser-Induced Periodic Structures. <i>Nanomaterials</i> , 2020 , 10,	5.4	4
114	Study of the influence of the precursors on the sensing properties of ZnO:Cu system. <i>Ceramics International</i> , 2020 , 46, 8358-8367	5.1	1
113	Growth and characterisation of ZnO micro/nanostructures doped with cerium for photocatalytic degradation applications. <i>Journal of Alloys and Compounds</i> , 2020 , 820, 153146	5.7	9
112	Evolution of Whispering Gallery Modes in Li-Doped ZnO Hexagonal Micro- and Nanostructures. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 8602	2.6	0
111	New photocatalytic materials obtained from the recycling of alkaline and Zn/C spent batteries. <i>Journal of Materials Research and Technology</i> , 2019 , 8, 2809-2818	5.5	11
110	Enhanced UV emission of Li ⁺ co-doped ZnO thin films via spray pyrolysis. <i>Journal of Alloys and Compounds</i> , 2019 , 808, 151710	5.7	7
109	Dysprosium Removal from Water Using Active Carbons Obtained from Spent Coffee Ground. <i>Nanomaterials</i> , 2019 , 9,	5.4	19
108	Correlative study of structural and optical properties of ZnSe under severe plastic deformation. <i>Journal of Applied Physics</i> , 2019 , 126, 225702	2.5	3
107	Influence of yttrium doping on the structural, morphological and optical properties of nanostructured ZnO thin films grown by spray pyrolysis. <i>Ceramics International</i> , 2019 , 45, 6842-6852	5.1	27
106	Luminescence and cathodoluminescence properties of MIPr(PO ₃) ₄ (MI=Na, Li, K) and PrP5O14. <i>Physica B: Condensed Matter</i> , 2019 , 554, 121-125	2.8	3
105	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> , 2018 , 744, 421-425	5.7	

104	Luminescence and gas-sensing properties of ZnO obtained from the recycling of alkaline batteries. <i>Journal of Materials Science</i> , 2018 , 53, 2026-2033	4.3	3
103	Growth by Vapor-Solid Method and Luminescence Characterization of Zn-Chalcogenides Micro- and Nanostructures. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2018 , 215, 1800219	1.6	1
102	Optical spectroscopy study of nano- and microstructures fabricated by femtosecond laser pulses on ZnO based systems. <i>CrystEngComm</i> , 2018 , 20, 2952-2960	3.3	7
101	Femtosecond laser writing of photonic devices in borate glasses compositionally designed to be laser writable. <i>Optics Letters</i> , 2018 , 43, 2523-2526	3	8
100	Luminescence and light guiding properties of Er and Li codoped ZnO nanostructures. <i>Journal of Luminescence</i> , 2018 , 195, 396-401	3.8	16
99	From spent alkaline batteries to Zn Mn O by a hydrometallurgical route: synthesis and characterization.. <i>RSC Advances</i> , 2018 , 8, 33496-33505	3.7	8
98	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> , 2018 , 215, 1800258	1.6	4
97	Fast growth of undoped and Sn- and Tb-doped ZnO nanowires by Joule heating of Zn. <i>CrystEngComm</i> , 2018 , 20, 4449-4454	3.3	6
96	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> , 2017 , 148, 795-803	10.3	23
95	High-Efficiency Waveguide Optical Amplifiers and Lasers via FS-Laser Induced Local Modification of the Glass Composition. <i>Journal of Lightwave Technology</i> , 2017 , 35, 2955-2959	4	15
94	Synthesis and characterization of ZnO micro- and nanostructures grown from recovered ZnO from spent alkaline batteries. <i>Journal of Environmental Chemical Engineering</i> , 2017 , 5, 2903-2911	6.8	10
93	Raman spectroscopy of femtosecond laser written low propagation loss optical waveguides in Schott N-SF8 glass. <i>Optical Materials</i> , 2017 , 72, 626-631	3.3	4
92	Characterization and sensing properties of ZnO film prepared by single source chemical vapor deposition. <i>Advanced Powder Technology</i> , 2017 , 28, 23-29	4.6	16
91	Interconfigurational and intraconfigurational transitions of Yb ²⁺ and Yb ³⁺ ions in hydroxyapatite: A cathodoluminescence study. <i>Acta Materialia</i> , 2017 , 135, 35-43	8.4	16
90	Optical spectroscopy characterization of Cu doped ZnO nano- and microstructures grown by vapor-solid method. <i>Journal of Alloys and Compounds</i> , 2016 , 687, 161-167	5.7	6
89	Optical characterization of Ga-doped ZnS micro- and nanostructures. <i>Journal of Materials Science</i> , 2015 , 50, 2103-2112	4.3	5
88	Controlling plasma distributions as driving forces for ion migration during fs laser writing. <i>Journal Physics D: Applied Physics</i> , 2015 , 48, 155101	3	26
87	Growth of ZnO nanostructures by femtosecond laser irradiation of polycrystalline targets. <i>Applied Physics A: Materials Science and Processing</i> , 2015 , 121, 607-617	2.6	1

86	Light guiding and optical resonances in ZnS microstructures doped with Ga or In. <i>Journal of Materials Chemistry C</i> , 2015 , 3, 10981-10989	7.1	10
85	. <i>IEEE Photonics Technology Letters</i> , 2015 , 27, 1068-1071	2.2	21
84	Gallium doped ZnS micro- and nanostructures: thermal synthesis and structural properties. <i>Materials Research Express</i> , 2015 , 2, 035902	1.7	1
83	Growth by thermal evaporation of Al doped ZnS elongated micro- and nanostructures and their cathodoluminescence properties. <i>Journal of Alloys and Compounds</i> , 2014 , 603, 57-64	5.7	8
82	Recombination processes in Te-doped ZnO microstructures. <i>Physica Status Solidi (B): Basic Research</i> , 2014 , 251, 683-688	1.3	9
81	Strong ion migration in high refractive index contrast waveguides formed by femtosecond laser pulses in phosphate glass 2014 ,		2
80	Role of ion migrations in ultrafast laser written tellurite glass waveguides. <i>Optics Express</i> , 2014 , 22, 15298-15304	3.3	31
79	Control of waveguide properties by tuning femtosecond laser induced compositional changes. <i>Applied Physics Letters</i> , 2014 , 105, 131101	3.4	18
78	Luminescence and waveguiding behavior in Tb doped ZnO micro and nanostructures. <i>Journal of Alloys and Compounds</i> , 2014 , 610, 416-421	5.7	19
77	Influence of indium doping on the morphology of ZnS nanostructures grown by a vapor-solid method. <i>CrystEngComm</i> , 2013 , 15, 7080	3.3	13
76	In situ TEM and analytical STEM studies of ZnO nanotubes with Sn cores and Sn nanodrops. <i>Journal Physics D: Applied Physics</i> , 2013 , 46, 395301	3	3
75	Cathodoluminescence of In doped ZnS nanostructures grown by vapor-solid method. <i>Journal of Alloys and Compounds</i> , 2013 , 563, 113-118	5.7	11
74	Luminescence and Raman study of Zn ₄ In ₂ O ₇ nanobelts and plates. <i>Superlattices and Microstructures</i> , 2013 , 56, 1-7	2.8	5
73	Ion migration assisted inscription of high refractive index contrast waveguides by femtosecond laser pulses in phosphate glass. <i>Optics Letters</i> , 2013 , 38, 5248-51	3	47
72	Nanowires and stacks of nanoplates of Mn doped ZnO synthesized by thermal evaporation-deposition. <i>Materials Chemistry and Physics</i> , 2012 , 132, 1119-1124	4.4	18
71	Thermal growth and luminescence of wurtzite ZnS nanowires and nanoribbons. <i>Journal of Crystal Growth</i> , 2012 , 348, 85-90	1.6	10
70	Complex hierarchical arrangements of stacked nanoplates in Al-doped ZnO. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2012 , 209, 1487-1492	1.6	2
69	Fe solubility, growth mechanism, and luminescence of Fe doped ZnO nanowires and nanorods grown by evaporation-deposition. <i>Journal of Applied Physics</i> , 2011 , 110, 014317	2.5	31

68	Growth and characterization of Er-doped ZnO elongated nanostructures. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2011 , 208, 868-873	1.6	8
67	Self-assembled three-dimensional Al-doped ZnO nanorod networks. <i>Semiconductor Science and Technology</i> , 2011 , 26, 085035	1.8	6
66	Voids, nanochannels and formation of nanotubes with mobile Sn fillings in Sn doped ZnO nanorods. <i>Nanotechnology</i> , 2010 , 21, 225604	3.4	10
65	Growth and cathodoluminescence of Eu doped ZnO nanoneedles and branched nanoneedle structures. <i>Journal of Nanoscience and Nanotechnology</i> , 2010 , 10, 502-7	1.3	18
64	Dense vertical nanoplates arrays and nanobelts of indium doped ZnO grown by thermal treatment of ZnS _{1-x} Te _x O ₃ powders. <i>Journal of Crystal Growth</i> , 2010 , 312, 3117-3121	1.6	15
63	Raman spectra of structures with CdTe-, ZnTe-, and CdSe-based quantum dots and their relation to the fabrication technology 2010 , 50, 164		
62	Al doped ZnO nanoplate arrays and microbox structures grown by thermal deposition. <i>Journal of Applied Physics</i> , 2009 , 105, 054315	2.5	20
61	Growth and Luminescence of Nanowires and Oriented Nanoplate Arrays of Mg Doped ZnO. <i>Journal of Nano Research</i> , 2009 , 4, 27-32	1	8
60	Self-assembled tin-doped ZnO nanowire and nanoplate structures grown by thermal treatment of ZnS powder. <i>Journal of Crystal Growth</i> , 2009 , 311, 3231-3234	1.6	23
59	Thermal growth and cathodoluminescence of Bi doped ZnO nanowires and rods. <i>Journal Physics D: Applied Physics</i> , 2009 , 42, 225101	3	10
58	Indium-zinc-oxide nanobelts with superlattice structure. <i>Applied Physics Letters</i> , 2009 , 95, 013111	3.4	29
57	Cathodoluminescence study of Te-doped ZnO microstructures grown by a vapour-solid process. <i>Journal of Materials Science</i> , 2008 , 43, 2844-2848	4.3	15
56	Cathodoluminescence study of semiconductor oxide micro- and nanostructures grown by vapor deposition. <i>Scanning</i> , 2008 , 30, 354-7	1.6	3
55	Cathodoluminescence characterization of ZnO:Te microstructures obtained with ZnTe and TeO ₂ doping precursors. <i>Superlattices and Microstructures</i> , 2008 , 43, 600-604	2.8	13
54	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> , 2008 , 50, 164-167	0.8	32
53	ZnO Nanostructured Microspheres and Elongated Structures Grown by Thermal Treatment of ZnS Powder. <i>Crystal Growth and Design</i> , 2007 , 7, 836-839	3.5	26
52	Growth and luminescence of oriented nanoplate arrays in tin doped ZnO. <i>Nanotechnology</i> , 2007 , 18, 115606	3.4	40
51	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> , 2006 , 3, 1066-1069		

50	Growth and spatially resolved luminescence of low dimensional structures in sintered ZnO. <i>Nanotechnology</i> , 2005 , 16, 931-935	3.4	42
49	Growth and luminescence properties of micro- and nanoneedles in sintered CdSe. <i>Applied Physics Letters</i> , 2004 , 85, 5968-5970	3.4	28
48	Luminescence properties of mechanically milled ZnSe. <i>Physica Status Solidi A</i> , 2004 , 201, 3183-3187		7
47	Study of structure and luminescence of CdSe Nanocrystals obtained by ball milling. <i>Journal of Applied Physics</i> , 2004 , 96, 2210-2213	2.5	25
46	Porosity-induced gain of luminescence in CdSe. <i>Semiconductor Science and Technology</i> , 2004 , 19, L121-L128		11
45	Luminescence properties of mechanically milled and laser irradiated ZnO. <i>Nanotechnology</i> , 2003 , 14, 794-798	3.4	53
44	Scanning tunneling microscopy study of the surface electrical properties of ZnO films grown by pulsed laser deposition. <i>Physica Status Solidi A</i> , 2003 , 195, 183-187		1
43	Cathodoluminescence and scanning tunnelling spectroscopy of ZnO single crystals. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2002 , 91-92, 345-348	3.1	13
42	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> , 2001 , 80, 130-133	3.1	3
41	Cathodoluminescence and photoluminescence study of plastically deformed ZnTe bulk single crystals. <i>Semiconductor Science and Technology</i> , 2001 , 16, 289-292	1.8	3
40	Cathodoluminescence microscopy of hydrothermal and flux grown ZnO single crystals. <i>Journal Physics D: Applied Physics</i> , 2001 , 34, 2945-2949	3	38
39	Scanning tunnelling spectroscopy characterization of ZnO single crystals. <i>Semiconductor Science and Technology</i> , 2001 , 16, 589-593	1.8	10
38	Study of growth hillocks in GaN:Si films by electron beam induced current imaging. <i>Journal of Applied Physics</i> , 2001 , 90, 1058-1060	2.5	5
37	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> , 2000 , 78, 105-108	3.1	16
36	Deformation-induced defect levels in ZnSe crystals. <i>Semiconductor Science and Technology</i> , 1999 , 14, 430-434	1.8	12
35	Effect of laser irradiation on the luminescence of Mg and Si-doped GaN films. <i>Journal of Applied Physics</i> , 1999 , 85, 1120-1123	2.5	32
34	Influence of deformation on the luminescence of GaN epitaxial films. <i>Semiconductor Science and Technology</i> , 1998 , 13, 900-905	1.8	29
33	Deep energy levels in CdTe and CdZnTe. <i>Journal of Applied Physics</i> , 1998 , 83, 2121-2126	2.5	236

32	Cathodoluminescence microscopy and photoluminescence of defects in ZnTe. <i>Semiconductor Science and Technology</i> , 1998 , 13, 410-416	1.8	15
31	Effect of Plastic Deformation on the Luminescence of ZnSe Crystals. <i>Solid State Phenomena</i> , 1998 , 63-64, 207-214	0.4	2
30	Luminescence from growth topographic features in GaN:Si films. <i>Journal of Applied Physics</i> , 1998 , 83, 462-465	2.5	17
29	Study of defects in GaN films by cross-sectional cathodoluminescence. <i>Journal of Applied Physics</i> , 1998 , 83, 2796-2799	2.5	21
28	Cathodoluminescence study of laser recrystallized CdTe layers. <i>Applied Physics Letters</i> , 1997 , 71, 3096-3098	3.4	8
27	Midgap traps related to compensation processes in CdTe alloys. <i>Physical Review B</i> , 1997 , 56, 14897-14903	3.3	29
26	Analyses of Compensation Related Defects in II-VI Compounds. <i>Materials Research Society Symposia Proceedings</i> , 1997 , 487, 269		
25	Cross-sectional cathodoluminescence of GaN epitaxial films. <i>Materials Research Society Symposia Proceedings</i> , 1997 , 482, 726		
24	Effect of ion beam milling on the defect structure of CdTe. <i>Semiconductor Science and Technology</i> , 1996 , 11, 1354-1357	1.8	17
23	Investigation of Deep Energy Levels in II-VI Compounds. <i>Materials Research Society Symposia Proceedings</i> , 1996 , 442, 605		
22	Comparison of electrical and luminescence data for the A center in CdTe. <i>Applied Physics Letters</i> , 1996 , 69, 3510-3512	3.4	53
21	Compensation and deep levels in II-VI compounds. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 1996 , 42, 302-305	3.1	8
20	Cathodoluminescence and photoinduced current spectroscopy studies of defects in Cd _{0.8} Zn _{0.2} Te. <i>Physical Review B</i> , 1996 , 54, 7622-7625	3.3	34
19	Deep Level Cathodoluminescence in Deformed CdTe Crystals. <i>Physica Status Solidi A</i> , 1995 , 147, 75-80		6
18	Cathodoluminescence characterization of Ge-doped CdTe crystals. <i>Journal of Applied Physics</i> , 1995 , 78, 1992-1995	2.5	35
17	Effect of thermal annealing on Te precipitates in CdTe wafers studied by Raman scattering and cathodoluminescence. <i>Journal of Applied Physics</i> , 1995 , 77, 2806-2808	2.5	37
16	Elimination of Te precipitates from CdTe wafers. <i>Semiconductor Science and Technology</i> , 1995 , 10, 870-875	3.5	19
15	Study of defects in CdTe: Cl by cathodoluminescence microscopy. <i>Materials Letters</i> , 1995 , 23, 227-230	3.3	9

14	Electrical and Optical Properties of Defects by Complementary Spectroscopies. <i>Materials Research Society Symposia Proceedings</i> , 1995 , 411, 177		
13	Study of point defects in CdTe and CdTe:V by cathodoluminescence. <i>Journal of Applied Physics</i> , 1994 , 76, 3720-3723	2.5	16
12	Scanning electron acoustic microscopy of Bi ₂ Sr ₂ CaCu ₂ O _x . <i>Solid State Communications</i> , 1993 , 87, 843-845	1.6	1
11	Luminescence from Bi ₂ Sr ₂ CaCu ₂ O _x and YBa ₂ Cu ₃ O _{7-x} films in the scanning electron microscope. <i>Journal of Applied Physics</i> , 1992 , 71, 2778-2782	2.5	14
10	Local distribution of deep centers in GaP studied by infrared cathodoluminescence. <i>Applied Physics Letters</i> , 1991 , 58, 257-259	3.4	26
9	Composition dependence of cathodoluminescence emission of Al _x Ga _{1-x} P. <i>Solid State Communications</i> , 1990 , 76, 195-196	1.6	2
8	Study of structural changes in YBa ₂ Cu ₃ O _{7-x} by cathodoluminescence in the scanning electron microscope. <i>Applied Physics Letters</i> , 1990 , 57, 2722-2724	3.4	14
7	A positron study of sintering processes in ZnO-based ceramics. <i>Journal of Physics Condensed Matter</i> , 1989 , 1, 4853-4858	1.8	1
6	Scanning electron acoustic microscopy of ZnO ceramics. <i>Materials Chemistry and Physics</i> , 1989 , 24, 215-218	1.4	3
5	Localized luminescence in ZnO: Mn ceramics. <i>Applied Physics A: Materials Science and Processing</i> , 1988 , 46, 1-3	2.6	6
4	Annealing effects on mechanically damaged ZnO ceramics. <i>Physica Status Solidi A</i> , 1988 , 107, 197-203		6
3	Universal relations between range and damage profile parameters. <i>Radiation Effects</i> , 1987 , 103, 89-101		14
2	Characterization of zirconia/mullite ceramics by cathodoluminescence technique. <i>Applied Physics A: Solids and Surfaces</i> , 1987 , 44, 299-303		15
1	Analytical approximations for range and damage profile parameter predictions on a microcomputer. <i>Nuclear Instruments & Methods in Physics Research B</i> , 1987 , 19-20, 28-31	1.2	9