

Lakhdar Guerbous

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Annealing effects on structural and luminescence properties of red Eu ³⁺ -doped Y ₂ O ₃ nanophosphors prepared by sol-gel method. <i>Journal of Luminescence</i> , 2014, 145, 148-153.	1.5	91
2	Structural, optical and photocurrent properties of undoped and Al-doped ZnO thin films deposited by sol-gel spin coating technique. <i>Materials Letters</i> , 2014, 134, 248-251.	1.3	78
3	Structural, morphological and photoluminescence properties of W-doped ZnO nanostructures. <i>Applied Surface Science</i> , 2009, 255, 7314-7318.	3.1	47
4	Structural, morphological and optical properties of undoped and Co-doped ZnO thin films prepared by sol-gel process. <i>Journal of Materials Science: Materials in Electronics</i> , 2014, 25, 4967-4974.	1.1	46
5	Ce-doped YAG phosphors prepared via sol-gel method: Effect of some modular parameters. <i>Journal of Alloys and Compounds</i> , 2014, 614, 383-388.	2.8	45
6	Photoluminescence and energy transfer of Tm ³⁺ doped LiIn (WO ₄) ₂ blue phosphors. <i>Journal of Luminescence</i> , 2010, 130, 2469-2475.	1.5	33
7	Long-time stabilization of porous silicon photoluminescence by surface modification. <i>Journal of Luminescence</i> , 2007, 127, 534-540.	1.5	30
8	Photoluminescence and electron-vibrational interaction in 4f ⁿ -5d states of Ce ³⁺ or Pr ³⁺ ions doped LnBO ₃ (Ln=Lu, Y, La) orthoborates materials. <i>Journal of Luminescence</i> , 2013, 134, 165-173.	1.5	27
9	The 4f-5d luminescence transitions in cerium-doped LuF ₃ . <i>Journal of Modern Optics</i> , 2006, 53, 2043-2053.	0.6	26
10	Investigation of the structural and photoluminescence properties of Ce ³⁺ -doped LuAG nanopowders prepared via sol-gel method. <i>Optical Materials</i> , 2015, 40, 14-19.	1.7	26
11	Synthesis and Characterization of Electrospun Poly(ethylene oxide)/Europium-Doped Yttrium Orthovanadate (PEO/YVO ₄ :Eu ³⁺) Hybrid Nanofibers. <i>International Journal of Polymeric Materials and Polymeric Biomaterials</i> , 2010, 59, 863-872.	1.8	25
12	Synthesis and optical properties of Tb ³⁺ doped CdF ₂ single crystals. <i>Journal of Alloys and Compounds</i> , 2013, 575, 339-343.	2.8	25
13	Relationship between crystal morphology and photoluminescence in polynanocrystalline lead sulfide thin films. <i>Journal of Luminescence</i> , 2010, 130, 1849-1856.	1.5	20
14	Effect of different annealing atmospheres on the structural and luminescence properties of Ce ³⁺ -doped YAG phosphors synthesized by sol-gel method. <i>Optik</i> , 2016, 127, 5235-5239.	1.4	20
15	Photoluminescence response of gas sensor based on CHx/porous silicon-Effect of annealing treatment. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2007, 138, 293-297.	1.7	18
16	Preparation and room temperature photoluminescence characterization of PbS/Si(100) thin films. <i>Thin Solid Films</i> , 2011, 520, 79-82.	0.8	17
17	Silicon carbide thin films with different processing growth as an alternative for energetic application. <i>Optical Materials</i> , 2017, 65, 117-123.	1.7	15
18	Effect of anodization time on photoluminescence of porous thin SiC layer grown onto silicon. <i>Journal of Luminescence</i> , 2007, 126, 561-565.	1.5	14

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19	Investigation of nc-PbS/a-Si _{1-x} Cx:H/pSi(100) heterostructures for LED applications. Optical Materials, 2012, 35, 1-4.	1.7	13
20	Effect of Y ³⁺ substitution on structural and photoluminescence properties of solid solutions [(Lu _{1-y} Y _y) ₂ O ₃] (0 < y < 1). Optics Communications, 2010, 283, 3355-3360.	2.0	13
21	Luminescence of Ce ³⁺ traces in Pr ³⁺ -doped LuBO ₃ and YBO ₃ orthoborates. Radiation Effects and Defects in Solids, 2006, 161, 199-206.	0.4	12
22	Structural and optical properties of a-Si _{1-x} Cx:H films synthesized by dc magnetron sputtering technique. Applied Surface Science, 2010, 256, 4591-4595.	3.1	12
23	Structure, optical and photoluminescence properties of LiGd _{1-x} Er _x (WO ₄) ₂ green luminescence phosphor. Optical Materials, 2017, 65, 137-141.	1.7	12
24	Structural and optical properties of thin films porous amorphous silicon carbide formed by Ag-assisted photochemical etching. Applied Surface Science, 2010, 256, 5592-5595.	3.1	11
25	Bi-assisted chemical etching of silicon in HF/Co(NO ₃) ₂ solution. Journal of Luminescence, 2009, 129, 221-225.	1.5	10
26	Synthesis and study of spectroscopic properties of CdF ₂ crystals codoped with luminescent rare earth ions (Ho ³⁺ /Yb ³⁺). Journal of Alloys and Compounds, 2014, 606, 73-80.	2.8	10
27	DFT based study of Au _n (4 ≤ n ≤ 7) clusters: new stabilized geometries. Physica Scripta, 2007, 75, 411-413.	1.2	9
28	Optical properties of silicon microcolumn grown by nanosecond pulsed laser irradiation. Optics Communications, 2011, 284, 3308-3310.	1.0	9
29	Ab-initio simulations at the atomic scale of an exceptional experimental photoluminescence signal observed in Ce ³⁺ -doped Y ₂ O ₃ sesquioxide system. Optik, 2016, 127, 10561-10568.	1.4	9
30	Structural and morphological study of ZnO thin films electrodeposited on n-type silicon. Applied Surface Science, 2010, 256, 7442-7445.	3.1	8
31	CdTe aggregates in KBr crystalline matrix. Journal of Luminescence, 2009, 129, 948-951.	1.5	7
32	Influence of polyethylene glycol-300 addition on nanostructured lead sulfide thin films properties. Optics Communications, 2010, 283, 3355-3360.	1.0	7
33	INVESTIGATION PROPERTIES OF a-Si _{1-x} Cx:H FILMS ELABORATED BY CO-SPUTTERING OF Si AND 6H-SiC. Modern Physics Letters B, 2010, 24, 2101-2112.	1.0	7
34	Comparative study of porous amorphous a-Si _{1-x} Cx films and a-Si _{1-x} Cx membranes on structural and luminescence properties. Journal of Luminescence, 2011, 131, 1184-1188.	1.5	7
35	Structural, morphological and photoluminescence characterizations of Sm ³⁺ doped Y ₂ O ₃ nano-sized phosphors synthesized by ultrasound assisted sol-gel method. Journal of Rare Earths, 2023, 41, 51-59.	2.5	7
36	Photoluminescence activity of Yang and Secco etched multicrystalline silicon material. Applied Surface Science, 2006, 252, 8337-8340.	3.1	6

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37	Enhancement of the porous silicon photoluminescence by surface modification using a hydrocarbon layer. <i>Thin Solid Films</i> , 2008, 516, 8707-8711.	0.8	6
38	Optical and structural characterization of KBr crystals doped cadmium bromide (CdBr ₂). <i>Journal of Luminescence</i> , 2010, 130, 688-691.	1.5	6
39	Monophase domain, fibers single crystals grown by the micro-pulling down technique and optical characterisation of LiGd _{1-x} Yb _x (WO ₄) ₂ . <i>Optical Materials</i> , 2011, 33, 1638-1642.	1.7	6
40	Structural, morphological and steady state photoluminescence spectroscopy studies of red Eu ³⁺ doped Y ₂ O ₃ nanophosphors prepared by the sol-gel method. <i>Luminescence</i> , 2015, 30, 1336-1343.	1.5	5
41	Thermal annealing dependence of some optical properties of plasma-modified porous silicon. <i>Applied Surface Science</i> , 2010, 257, 1105-1111.	3.1	4
42	Synthesis and luminescence investigation of Tb ³⁺ Yb ³⁺ codoped CdF ₂ single crystals. <i>Physica B: Condensed Matter</i> , 2014, 436, 227-232.	1.3	4
43	Elaboration and characterization of luminescent porous SiC microparticles/poly vinyl alcohol thin films. <i>Optical Materials</i> , 2017, 64, 75-81.	1.7	4
44	PL investigations of spin coated thin films of porous SiC powder embedded in PVA. <i>Journal of Alloys and Compounds</i> , 2017, 709, 668-676.	2.8	4
45	Effect of the vanadium concentration on structural and photoluminescence of YP _{1-x} V _x O ₄ : 1At. % Tb ³⁺ nanophosphors. <i>Optical Materials</i> , 2017, 65, 129-136.	1.7	4
46	Non-linear emissions of MOVPE ZnSe epilayers. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2006, 131, 177-180.	1.7	3
47	Deposition temperature effects on optical and structural properties of amorphous silicon carbide films. <i>International Journal of Nanotechnology</i> , 2013, 10, 587.	0.1	3
48	Photoluminescence, time-resolved emission and photoresponse of plasma-modified porous silicon thin films. <i>Thin Solid Films</i> , 2013, 540, 155-161.	0.8	3
49	EVOLUTION OF LUMINESCENCE SPECTRA OF Ce ³⁺ -ION IN THE SOLID SOLUTIONS Ca _{1-x} Sr _x S. <i>Modern Physics Letters B</i> , 2006, 20, 1405-1416.	1.0	2
50	Optical properties of Er ³⁺ -Yb ³⁺ codoped CdF ₂ single crystals. <i>Journal of Alloys and Compounds</i> , 2017, 693, 48-54.	2.8	2
51	Preparation and luminescence properties of novel K ₂ ZnP ₂ O ₇ : Mn ²⁺ green phosphor. <i>Journal of Materials Science: Materials in Electronics</i> , 2021, 32, 27475.	1.1	2
52	Influence of crystalline damage on morphological and optical properties of silicon nanowires. <i>Optical Materials</i> , 2010, 32, 768-771.	1.7	1
53	Effect of metal diffusion into polycrystalline 6H-SiC prior to its anodization on luminescence response. <i>Superlattices and Microstructures</i> , 2012, 51, 563-570.	1.4	1
54	Surface modification of a-SiO ₂ .60CO ₂ .40:H films by Al-assisted photochemical etching: humidity sensing application. <i>Microsystem Technologies</i> , 2016, 22, 935-941.	1.2	1

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55	Structural, Morphological and Photoluminescence Spectroscopy Studies of Intense Blue Ce ^{3+} -doped Lutetium Oxyorthosilicate Scintillator Nanomaterials. , 2021, 8, 95-112.		0