

Bermudez

List of Publications by Year in descending order

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1,235
citations

430874

18
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414414

32
g-index

67
all docs

67
docs citations

67
times ranked

1353
citing authors

#	ARTICLE	IF	CITATIONS
1	Influencing intramolecular motion with an alternating electric field. <i>Nature</i> , 2000, 406, 608-611.	27.8	223
2	All Solution-Processed Chalcogenide Solar Cells " from Single Functional Layers Towards a 13.8% Efficient CIGS Device. <i>Advanced Functional Materials</i> , 2015, 25, 12-27.	14.9	84
3	Raman microprobe characterization of electrodeposited S-rich $\text{CuIn}(\text{S},\text{Se})_2$ for photovoltaic applications: Microstructural analysis. <i>Journal of Applied Physics</i> , 2007, 101, 103517.	2.5	66
4	Process monitoring of chalcopyrite photovoltaic technologies by Raman spectroscopy: an application to low cost electrodeposition based processes. <i>New Journal of Chemistry</i> , 2011, 35, 453-460.	2.8	52
5	Growth and second harmonic generation characterization of Er^{3+} doped bulk periodically poled LiNbO_3 . <i>Applied Physics Letters</i> , 1998, 73, 593-595.	3.3	47
6	Determination of the Li/Nb ratio in LiNbO_3 crystals grown by Czochralski method with K_2O added to the melt. <i>Journal of Crystal Growth</i> , 2000, 210, 670-676.	1.5	41
7	Properties of In_2S_3 thin films deposited onto ITO/glass substrates by chemical bath deposition. <i>Journal of Physics and Chemistry of Solids</i> , 2010, 71, 1629-1633.	4.0	37
8	Bulk periodic poled lithium niobate crystals doped with Er and Yb. <i>Journal of Crystal Growth</i> , 1999, 200, 185-190.	1.5	35
9	Analysis of S-rich $\text{CuIn}(\text{S},\text{Se})_2$ layers for photovoltaic applications: Influence of the sulfurization temperature on the crystalline properties of electrodeposited and sulfurized CuInSe_2 precursors. <i>Journal of Applied Physics</i> , 2008, 103, 123109.	2.5	34
10	Photoluminescence and photoconductivity in CdTe crystals doped with Bi. <i>Journal of Applied Physics</i> , 2006, 100, 104901.	2.5	33
11	Key role of Cu^{2+}Se binary phases in electrodeposited CuInSe_2 precursors on final distribution of Cu^{2+}S phases in $\text{CuIn}(\text{S},\text{Se})_2$ absorbers. <i>Thin Solid Films</i> , 2009, 517, 2268-2271.	1.8	29
12	Compositional engineering of chemical bath deposited $(\text{Zn},\text{Cd})\text{S}$ buffer layers for electrodeposited $\text{CuIn}(\text{S},\text{Se})_2$ and coevaporated $\text{Cu}(\text{In},\text{Ga})\text{Se}_2$ solar cells. <i>Progress in Photovoltaics: Research and Applications</i> , 2009, 17, 1-9.	8.1	28
13	Simulation of global heat transfer in the Czochralski process for BGO sillenite crystals. <i>Journal of Crystal Growth</i> , 2004, 266, 103-108.	1.5	25
14	Continuous-wave self-pumped optical parametric oscillator based on Yb^{3+} -doped bulk periodically poled LiNbO_3 (MgO). <i>Applied Physics Letters</i> , 2001, 79, 293-295.	3.3	23
15	Bulk periodically poled lithium niobate doped with Yb^{3+} ions: Growth and characterization. <i>Applied Physics Letters</i> , 1999, 74, 1534-1536.	3.3	22
16	Phase separation during the melting of oxide borates $\text{LnCa}_4\text{O}(\text{BO}_3)_3$ ($\text{Ln}=\text{Y}, \text{Gd}$). <i>Materials Research Bulletin</i> , 2002, 37, 1737-1747.	5.2	21
17	Transparent conducting oxides as selective filters in thermophotovoltaic devices. <i>Journal of Physics Condensed Matter</i> , 2005, 17, 6377-6384.	1.8	21
18	Electrodeposition based synthesis of S-rich $\text{CuIn}(\text{S},\text{Se})_2$ layers for photovoltaic applications: Raman scattering analysis of electrodeposited CuInSe_2 precursors. <i>Thin Solid Films</i> , 2009, 517, 2163-2166.	1.8	21

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19	Laser frequency converter for continuous-wave tunable Ti:sapphire lasers based on aperiodically poled LiNbO ₃ :Nd ³⁺ . Applied Physics Letters, 2001, 79, 1751-1753.	3.3	17
20	Physical properties of Bi doped CdTe thin films grown by CSVT and their influence on the CdS/CdTe solar cells PV-properties. Thin Solid Films, 2007, 515, 5819-5823.	1.8	17
21	On the compositional nature of bulk doped periodic poled lithium niobate crystals. Solid State Communications, 2000, 114, 555-559.	1.9	16
22	Combined Raman scattering/photoluminescence analysis of Cu(In,Ga)Se ₂ electrodeposited layers. Solar Energy, 2014, 103, 89-95.	6.1	16
23	Temperature effects in proton exchanged LiNbO ₃ waveguides. Applied Physics B: Lasers and Optics, 2004, 79, 845-849.	2.2	15
24	Er incorporation into congruent LiNbO ₃ crystals. Solid State Communications, 1999, 112, 699-703.	1.9	13
25	Compositional study of LiNbO ₃ thin films grown by liquid phase epitaxy. Journal of Crystal Growth, 2001, 226, 488-492.	1.5	13
26	Passivation properties of CdS thin films grown by chemical bath deposition on GaSb: the influence of the S/Cd ratio in the solution and of the CdS layer thickness on the surface recombination velocity. Semiconductor Science and Technology, 2006, 21, 76-80.	2.0	13
27	Phase evolution during CuInSe ₂ electrodeposition on polycrystalline Mo. Thin Solid Films, 2010, 518, 3674-3679.	1.8	13
28	Opposite domain formation in Er-doped LiNbO ₃ bulk crystals grown by the off-centered Czochralski technique. Journal of Crystal Growth, 1999, 203, 179-185.	1.5	12
29	Rotaxanes – novel photonic molecules. Optical Materials, 2003, 21, 39-44.	3.6	12
30	Effect of Yb concentration on the resistivity and lifetime of CdTe:Ge:Yb codoped crystals. Applied Physics Letters, 2007, 91, .	3.3	12
31	Hexagonal CdTe-Like Rods Prompted from Bi ₂ Te ₃ Droplets. Journal of Physical Chemistry C, 2007, 111, 5588-5591.	3.1	12
32	Continuous-Wave Yellow Laser Based on Nd-Doped Periodically Poled Lithium Niobate. IEEE Journal of Selected Topics in Quantum Electronics, 2007, 13, 750-755.	2.9	12
33	Raman scattering microcrystalline assessment and device quality control of electrodeposited CuIn(S,Se) ₂ based solar cells. Thin Solid Films, 2008, 516, 7021-7025.	1.8	12
34	Analysis of sulphurisation processes of electrodeposited S-rich CuIn(S,Se) ₂ layers for photovoltaic applications. Thin Solid Films, 2009, 517, 2264-2267.	1.8	12
35	Influence of stoichiometry on phase transition pressure of LiNbO ₃ . Applied Physics Letters, 2006, 89, 261908.	3.3	11
36	Determination of Li and Nb in Congruent Lithium Niobate by ICP-MS. Chemistry of Materials, 2004, 16, 3593-3596.	6.7	10

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37	Determination of the Ta and Nb ratio in $\text{LiNb}_{1-x}\text{Ta}_x\text{O}_3$ by total reflection X-ray fluorescence spectrometry. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2005, 60, 231-235.	2.9	10
38	Effect of the shouldering angle on the shape of the solid-liquid interface and temperature fields in sillenite-type crystals growth. <i>Journal of Crystal Growth</i> , 2005, 279, 82-87.	1.5	10
39	Bi doped CdTe: increasing potentialities of CdTe based solar cells. <i>Journal of Physics Condensed Matter</i> , 2006, 18, 7163-7169.	1.8	10
40	On the effect of Li diffusion in Er-doped bulk periodic poled lithium niobate crystals. <i>Journal of Crystal Growth</i> , 1999, 205, 328-332.	1.5	9
41	Surface Enhanced Second Harmonic Generation from Macrocycle, Catenane, and Rotaxane Thin Films: Experiments and Theory. <i>Journal of Physical Chemistry B</i> , 2006, 110, 7648-7652.	2.6	9
42	The effect of native defects on the domain structures of LiNbO_3 :Fe - a case study by means of the addition of MgO and to the congruent melt. <i>Journal of Physics Condensed Matter</i> , 1997, 9, 6097-6101.	1.8	8
43	On the cooling effect in the formation of periodic poled lithium niobate crystals grown by Cz technique. <i>Journal of Crystal Growth</i> , 1999, 207, 303-307.	1.5	8
44	Influence of Hf ions in the formation of periodically poled lithium niobate structures. <i>Journal of Physics Condensed Matter</i> , 2001, 13, 1337-1342.	1.8	8
45	In situ poling of LiNbO_3 bulk crystal below the Curie temperature by application of electric field after growth. <i>Journal of Crystal Growth</i> , 1996, 169, 409-412.	1.5	7
46	Domain walls characterization of the opposite domain lithium niobate structures. <i>Journal of Crystal Growth</i> , 2000, 219, 413-418.	1.5	7
47	Luminescence of the Cr^{3+} R-lines in pure and MgO co-doped near stoichiometric LiNbO_3 :Cr crystals. <i>Chemical Physics Letters</i> , 2003, 369, 519-524.	2.6	7
48	Formation of CdTe columnar structures prompted by In- and Ga-rich nanodots. <i>Journal of Crystal Growth</i> , 2005, 275, e1131-e1135.	1.5	7
49	Analysis of electronic transport properties of thin film $\text{CuIn}(\text{S},\text{Se})_2$ solar cells based on electrodeposition. <i>Thin Solid Films</i> , 2008, 516, 6999-7003.	1.8	7
50	Surface-relief diffraction gratings based on selective etching of periodically poled lithium niobate. <i>Applied Physics Letters</i> , 2003, 83, 5145-5147.	3.3	6
51	Evaluation of diffusion-recombination parameters in electrodeposited $\text{CuIn}(\text{S}, \text{Se})_2$ solar cells by means of electron beam induced current experiments and modelling. <i>Superlattices and Microstructures</i> , 2009, 45, 161-167.	3.1	6
52	Fabrication of Periodically Poled Swift Ion-irradiation Waveguides in LiNbO_3 . <i>Ferroelectrics</i> , 2009, 390, 29-35.	0.6	5
53	Real-Time Raman Scattering Analysis of the Electrochemical Growth of CuInSe_2 Precursors for $\text{CuIn}(\text{S},\text{Se})_2$ Solar Cells. <i>Journal of the Electrochemical Society</i> , 2011, 158, H521.	2.9	5
54	Study of induced structural defects on GaSb films grown on different substrates by the liquid phase epitaxy technique. <i>Journal of Physics Condensed Matter</i> , 2002, 14, 12755-12759.	1.8	3

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55	Domain wall width of lithium niobate poled during growth. Journal Physics D: Applied Physics, 2003, 36, 969-974.	2.8	3
56	Optical bleaching of Cr ³⁺ luminescence in near stoichiometric LiNbO ₃ crystals codoped with MgO. Journal of Luminescence, 2004, 108, 55-58.	3.1	3
57	Comparison between vertical Bridgman and feeding techniques for GaInSb alloy growths. Journal of Crystal Growth, 2005, 275, e537-e542.	1.5	3
58	Rapid thermal processing of $\langle \text{mml:math altimg="si1.gif" display="inline" overflow="scroll" xmlns:xocs="http://www.elsevier.com/xml/xocs/dtd" xmlns:xs="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns="http://www.elsevier.com/xml/ja/dtd" xmlns:ja="http://www.elsevier.com/xml/ja/dtd" xmlns:mml="http://www.w3.org/1998/Math/MathML" xmlns:tb="http://www.elsevier.com/xml/common/table/dtd" xmlns:sb="http://www.elsevier.com/xml/common/struct-bib/dtd" xmlns:ce="http://www.. Energy$	1.8	3
59	Proce Cathodoluminescence study of In _x Ga _{1-x} Sb crystals grown by the Bridgman method. Journal of Crystal Growth, 2004, 268, 52-58.	1.5	2
60	Relationship between photorefractive activity and Raman scattering in lithium niobate crystals. Optical Materials, 2004, 27, 81-84.	3.6	2
61	Characterization of structural and photoinduced defects in pure and doped lithium niobate. Physica Status Solidi C: Current Topics in Solid State Physics, 2005, 2, 159-162.	0.8	2
62	Evolution of the Structural Properties in Ferroelectric LiNb _{1-x} Ta _x O ₃ Compound with Variation in Ta Composition. Ferroelectrics, 2004, 304, 159-162.	0.6	1
63	Cathodoluminescence study of ytterbium doped GaSb. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2005, 121, 108-111.	3.5	1
64	Characterisation of erbium-erbium oxide bilayer structures deposited on GaSb substrates by electron beam evaporation. Applied Surface Science, 2005, 239, 193-200.	6.1	1
65	Engineered periodic-poled lithium niobate structures doped with rare earths for multi-self-frequency conversion. Journal of Crystal Growth, 2008, 310, 1324-1330.	1.5	1
66	Growth and characterization of CdTe:Ge:Yb. Journal of Crystal Growth, 2008, 310, 2076-2079.	1.5	1
67	Study of defects in In _x Ga _{1-x} Sb bulk crystals. Physica Status Solidi C: Current Topics in Solid State Physics, 2005, 2, 1897-1901.	0.8	0