

Krzysztof Grasa

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85
papers

684
citations

14
h-index

21
g-index

89
ext. papers

755
ext. citations

1.7
avg, IF

3.16
L-index

#	Paper	IF	Citations
85	Demonstration of room-temperature laser action at 2.5 μm from Cr(2+):Cd(0.85)Mn(0.15)Te. <i>Optics Letters</i> , 1997 , 22, 1180-2	3	89
84	A novel method of crystal growth by physical vapour transport and its application to CdTe. <i>Journal of Crystal Growth</i> , 1992 , 123, 519-528	1.6	41
83	Observation of Zn vacancies in ZnO grown by chemical vapor transport. <i>Physica Status Solidi (B): Basic Research</i> , 2006 , 243, 794-798	1.3	33
82	Antiferromagnetic interlayer exchange coupling in all-semiconducting EuS/PbS/EuS trilayers. <i>Physical Review B</i> , 2004 , 69,	3.3	28
81	Magnetic properties of Fe doped SiC crystals. <i>Physica Status Solidi (B): Basic Research</i> , 2007 , 244, 1743-1746	1.3	20
80	Seeded growth of bulk ZnO by chemical vapor transport. <i>Physica Status Solidi (B): Basic Research</i> , 2010 , 247, 1457-1459	1.3	17
79	Methods of dislocation distribution analysis and inclusion identification with application to CdTe and (Cd, Zn)Te. <i>Journal Physics D: Applied Physics</i> , 1998 , 31, 1009-1016	3	16
78	Initial stages of SiC crystal growth by PVT method. <i>Crystal Research and Technology</i> , 2007 , 42, 1232-1236	1.3	16
77	Vacancy defects in (Zn, Mn)O. <i>Superlattices and Microstructures</i> , 2007 , 42, 218-221	2.8	16
76	Characterization of cadmium telluride crystals grown by different techniques from the vapour phase. <i>Journal of Crystal Growth</i> , 1995 , 146, 125-129	1.6	16
75	Contactless CVT growth of ZnO crystals. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2005 , 2, 1115-1118		15
74	Exciton magnetic polarons in (100)- and (120)-oriented semimagnetic digital alloys (Cd,Mn)Te. <i>Physical Review B</i> , 1998 , 58, 4785-4792	3.3	15
73	Bulk vapour growth of CdTe. <i>Journal of Crystal Growth</i> , 1995 , 146, 65-68	1.6	15
72	Growth of cadmium-zinc telluride crystals by controlled seeding contactless physical vapor transport. <i>Journal of Crystal Growth</i> , 1996 , 169, 20-26	1.6	14
71	Competing exchange interactions in Co-doped ZnO: Departure from the superexchange picture. <i>Physical Review B</i> , 2012 , 86,	3.3	13
70	Hall effect in hopping regime. <i>Physica B: Condensed Matter</i> , 2016 , 483, 13-18	2.8	12
69	Low supersaturation nucleation and contactless growth of photorefractive ZnTe crystals. <i>Journal of Crystal Growth</i> , 1997 , 174, 719-725	1.6	12

68	Analysis of the vibrational properties of Zn _{1-x} CoxO by Raman spectroscopy. <i>Journal of Physics: Conference Series</i> , 2007 , 92, 012149	0.3	12
67	TaBi contacts to n-SiC for high temperatures devices. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2006 , 135, 289-293	3.1	12
66	Surface morphology of vapour phase grown CdTe. <i>Journal of Crystal Growth</i> , 1995 , 151, 261-266	1.6	11
65	Magnetic, optical and electrical characterization of SiC doped with scandium during the PVT growth. <i>Journal of Crystal Growth</i> , 2015 , 413, 86-93	1.6	10
64	X-ray characterisation of a bulk ZnO crystal. <i>Physica Status Solidi (B): Basic Research</i> , 2007 , 244, 1573-1577.	1.3	10
63	ZnO bulk growth in hydrogen atmosphere. <i>Journal of Crystal Growth</i> , 2008 , 310, 1823-1826	1.6	10
62	The effect of the wall contact and post-growth cool-down on defects in CdTe crystals grown by contactless physical vapour transport. <i>Journal of Crystal Growth</i> , 2003 , 254, 316-328	1.6	10
61	Single-ion anisotropy in Mn-doped diluted magnetic semiconductors. <i>Physical Review B</i> , 2009 , 80,	3.3	9
60	Effect of annealing atmosphere on the quality of ZnO crystal surface. <i>Physica Status Solidi (B): Basic Research</i> , 2007 , 244, 1468-1472	1.3	9
59	Metastability of Mn ³⁺ in ZnO driven by strong d(Mn) intrashell Coulomb repulsion: Experiment and theory. <i>Physical Review B</i> , 2016 , 94,	3.3	8
58	Growth of 4H-SiC Single Crystals on 6H-SiC Seeds with an Open Backside by PVT Method. <i>Materials Science Forum</i> , 2009 , 615-617, 15-18	0.4	8
57	Diffusion of cobalt in ion-implanted ZnO. <i>Thin Solid Films</i> , 2010 , 518, 3894-3897	2.2	8
56	ZnO crystals for substrates in micro and optoelectronic applications. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2006 , 3, 793-796		8
55	The optimal temperature profile in crystal growth from the vapour. <i>Journal of Crystal Growth</i> , 1995 , 146, 75-79	1.6	8
54	Stress birefringence in vapour-grown CdTe and its correlation to the growth techniques. <i>Journal of Crystal Growth</i> , 1996 , 161, 34-39	1.6	8
53	Estimation of the optimal conditions for directional crystal growth from the vapour phase with no contact between crystal and ampoule wall. <i>Journal of Crystal Growth</i> , 1993 , 128, 609-612	1.6	8
52	Characterization of cadmium-zinc telluride crystals grown by contactless PVT using synchrotron white beam topography. <i>Journal of Crystal Growth</i> , 1997 , 182, 37-44	1.6	7
51	Growth stability in high temperature vapour growth. <i>Journal of Crystal Growth</i> , 1996 , 162, 173-177	1.6	7

50	Optical properties of Cr ²⁺ ions in Cd _{0.85} Mn _{0.15} Te. <i>Journal of Luminescence</i> , 1997 , 72-74, 281-283	3.8	6
49	Growth by molecular beam epitaxy and magneto-optical studies of (100)- and (120)-oriented digital magnetic quantum well structures. <i>Thin Solid Films</i> , 1997 , 306, 283-290	2.2	6
48	Photoluminescence of CdTe crystals grown by physical-vapor transport. <i>Journal of Electronic Materials</i> , 2003 , 32, 747-751	1.9	6
47	Thermochemical model and experimental studies on physical vapor transport of lead telluride-selenide. <i>Journal of Crystal Growth</i> , 2000 , 216, 283-292	1.6	6
46	Some Aspects of PVT Low-Supersaturation Nucleation and Contactless Crystal Growth. <i>Crystal Research and Technology</i> , 1999 , 34, 565-571	1.3	6
45	Magnetic and Structural Properties of EuS-PbS Multilayers Grown on n-PbS (100) Substrates. <i>Acta Physica Polonica A</i> , 2002 , 102, 609-615	0.6	6
44	Growth of SiC by PVT method with different sources for doping by a cerium impurity, CeO ₂ or CeSi ₂ . <i>Journal of Crystal Growth</i> , 2014 , 401, 677-680	1.6	5
43	Experimental study of low supersaturation nucleation in crystal growth by contactless physical vapor transport. <i>Journal of Crystal Growth</i> , 1999 , 207, 179-187	1.6	5
42	Study of melt dynamics in crystal growth of Pb _{1-x} Sn _x Te by the inverted Bridgman method. <i>Journal of Crystal Growth</i> , 1991 , 110, 867-877	1.6	5
41	Temperature field computations in Pb _{1-x} Sn _x Te crystal grown by inverted Bridgman method. <i>Journal of Crystal Growth</i> , 1992 , 116, 139-150	1.6	5
40	Experimental investigation of the typical activation energy and distance of hopping electron transport in ZnO. <i>Physica B: Condensed Matter</i> , 2019 , 562, 94-99	2.8	4
39	Growth of SiC by PVT method in the presence of cerium dopant. <i>Journal of Crystal Growth</i> , 2013 , 377, 88-95	1.6	4
38	Effect of temperature field on growth stability. <i>Journal of Crystal Growth</i> , 1995 , 146, 69-74	1.6	4
37	Raman Piezospectroscopy of Phonons in Bulk 6H-SiC. <i>Acta Physica Polonica A</i> , 2009 , 116, 947-949	0.6	4
36	(120)-Oriented CdTe/CdMnTe Quantum Well Structures Grown by Molecular Beam Epitaxy. <i>Acta Physica Polonica A</i> , 1996 , 90, 879-882	0.6	4
35	Growth of 4H-SiC Crystals on the 8° Off-Axis 6H-SiC Seed by PVT Method. <i>Materials Science Forum</i> , 2010 , 645-648, 17-20	0.4	3
34	Effect of Nitrogen Doping on the Growth of 4H Polytype on the 6H-SiC Seed by PVT Method. <i>Materials Science Forum</i> , 2012 , 717-720, 29-32	0.4	3
33	Characterization of 6H-SiC Single Crystals Grown by PVT Method Using Different Source Materials and Open or Closed Seed Backside. <i>Materials Science Forum</i> , 2009 , 615-617, 19-22	0.4	3

32	Nucleation Mechanism of 6H-SiC Polytype Inclusions Inside 15R-SiC Crystals. <i>Journal of Electronic Materials</i> , 2010 , 39, 799-804	1.9	3
31	Broad Band Optical Power Limiting in Vanadium Doped Cd _{0.55} Mn _{0.45} Te Crystals. <i>Materials Research Society Symposia Proceedings</i> , 1997 , 479, 179		3
30	Optimal thermal conditions for growth of Cd _{1-x} MnxTe(:Cr) (:Cl) (:In) (:V) single crystals using the Bridgman-Stockbarger configuration. <i>Journal of Crystal Growth</i> , 1997 , 174, 263-266	1.6	3
29	Application of 6H to 4H Polytype Conversion to Effective Reduction of Micropipes in 4H SiC Crystals. <i>Materials Science Forum</i> , 2008 , 600-603, 31-34	0.4	3
28	Active Thermal Interaction of Source and Crystal Surfaces in PVT SiC Crystal Growth. <i>Materials Science Forum</i> , 2006 , 527-529, 87-90	0.4	3
27	Search for Spin Filtering by Electron Tunneling Through Ferromagnetic EuS Barriers in PbS. <i>Journal of Superconductivity and Novel Magnetism</i> , 2003 , 16, 183-185		3
26	Temperature Study of Photoluminescence from Deep CdTe/Cd _{1-x} MnxTe Quantum Wells. <i>Acta Physica Polonica A</i> , 1995 , 87, 500-504	0.6	3
25	Characterization of Vanadium Doped 4H- and 6H-SiC Grown by PVT Method Using the Open Seed Backside. <i>Materials Science Forum</i> , 2010 , 645-648, 21-24	0.4	2
24	Effect of electron irradiation on defect structure of 6H-SiC grown by PVT method. <i>Superlattices and Microstructures</i> , 2009 , 45, 402-406	2.8	2
23	Computational modeling of the low supersaturation nucleation in crystal growth by contactless physical vapor transport. <i>Journal of Crystal Growth</i> , 1998 , 193, 426-429	1.6	2
22	A stability diagram for crystal growth from the vapor: a review. <i>Crystal Research and Technology</i> , 2007 , 42, 1202-1206	1.3	2
21	Thermal annealing of ZnO substrates. <i>Superlattices and Microstructures</i> , 2007 , 42, 290-293	2.8	2
20	Modeling interlayer exchange coupling in EuS/PbS/EuS trilayers. <i>Journal of Applied Physics</i> , 2004 , 95, 7169-7171	2.5	2
19	Morphological instabilities in CdTe crystal growth from the vapor phase. <i>Journal of Crystal Growth</i> , 1999 , 203, 371-375	1.6	2
18	Vertical Electron Transport through PbS-EuS Structures. <i>Acta Physica Polonica A</i> , 2003 , 103, 629-635	0.6	2
17	Magneto-Luminescence Study of Silicon-Vacancy in 6H-SiC. <i>Acta Physica Polonica A</i> , 2006 , 110, 437-442	0.6	2
16	Systemic consequences of disorder in magnetically self-organized topological MnBi ₂ Te ₄ /(Bi ₂ Te ₃) _n superlattices. <i>2D Materials</i> ,	5.9	2
15	Homogeneous versus composite Cd _{1-x-y-z} MnxZnySnAs ₂ crystals: Magnetic interactions and transport properties. <i>Physical Review B</i> , 2017 , 95,	3.3	1

14	Structural and Electrical Properties of SiC Grown by PVT Method in the Presence of the Cerium Vapor. <i>Acta Physica Polonica A</i> , 2013 , 124, 761-764	0.6	1
13	1.4 eV - LUMINESCENCE BAND IN 6H-SiC: SYMMETRY OF THE ASSOCIATED DEFECT. <i>International Journal of Modern Physics B</i> , 2009 , 23, 3019-3023	1.1	1
12	Electrical characterization of 6H-SiC grown by physical vapor transport method. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2009 , 165, 23-27	3.1	1
11	Experimental Verification of a Novel System for the Growth of SiC Single Crystals. <i>Materials Science Forum</i> , 2011 , 679-680, 16-19	0.4	1
10	Melt dynamics in directional solidification of PbSnTe. <i>Journal of Crystal Growth</i> , 1993 , 128, 183-187	1.6	1
9	Deep-Level Defects in Electron Irradiated 6H-SiC. <i>Materials Research Society Symposia Proceedings</i> , 2010 , 1246, 1		
8	Photoemission study of 6H-SiC(0 0 0 1) surface with deposited Mn atoms. <i>Radiation Physics and Chemistry</i> , 2009 , 78, S25-S28	2.5	
7	Growth of 6H-SiC Single Crystals under Quasi-Equilibrium Conditions. <i>Materials Science Forum</i> , 2008 , 600-603, 15-18	0.4	
6	Deep-Level Defects in Nitrogen-Doped 6H-SiC Grown by PVT Method. <i>Materials Research Society Symposia Proceedings</i> , 2008 , 1069, 1		
5	Fabrication and Electrical Characterization of PbS-EuS Ferromagnetic Semiconductor Microstructures. <i>Acta Physica Polonica A</i> , 2004 , 105, 615-620	0.6	
4	Spatial analysis of dislocation distribution as a means of assessing crystal growth processes 2018 , 215-218		
3	Effect of Fluid Flow on the Concentrational Nonuniformities in LiNd _{1-x} Y _x F ₄ Compound. <i>Japanese Journal of Applied Physics</i> , 1993 , 32, 165	1.4	
2	Growth of Ternary and Quaternary ZnSe Compounds with Transition Metals by Chemical Vapor Transport. <i>Acta Physica Polonica A</i> , 1993 , 84, 785-788	0.6	
1	Substrates Grown from the Vapor for ZnO Homoepitaxy. <i>Acta Physica Polonica A</i> , 2008 , 114, 1361-1368	0.6	