

# Krzysztof Grasa

## 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.

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	Experimental investigation of the typical activation energy and distance of hopping electron transport in ZnO. <i>Physica B: Condensed Matter</i> , <b>2019</b> , 562, 94-99	2.8	4
84	Spatial analysis of dislocation distribution as a means of assessing crystal growth processes <b>2018</b> , 215-218		
83	Homogeneous versus composite Cd <sub>1-x</sub> MnxZnySnAs <sub>2</sub> crystals: Magnetic interactions and transport properties. <i>Physical Review B</i> , <b>2017</b> , 95,	3.3	1
82	Metastability of Mn <sup>3+</sup> in ZnO driven by strong d(Mn) intrashell Coulomb repulsion: Experiment and theory. <i>Physical Review B</i> , <b>2016</b> , 94,	3.3	8
81	Hall effect in hopping regime. <i>Physica B: Condensed Matter</i> , <b>2016</b> , 483, 13-18	2.8	12
80	Magnetic, optical and electrical characterization of SiC doped with scandium during the PVT growth. <i>Journal of Crystal Growth</i> , <b>2015</b> , 413, 86-93	1.6	10
79	Growth of SiC by PVT method with different sources for doping by a cerium impurity, CeO <sub>2</sub> or CeSi <sub>2</sub> . <i>Journal of Crystal Growth</i> , <b>2014</b> , 401, 677-680	1.6	5
78	Growth of SiC by PVT method in the presence of cerium dopant. <i>Journal of Crystal Growth</i> , <b>2013</b> , 377, 88-95	1.6	4
77	Structural and Electrical Properties of SiC Grown by PVT Method in the Presence of the Cerium Vapor. <i>Acta Physica Polonica A</i> , <b>2013</b> , 124, 761-764	0.6	1
76	Competing exchange interactions in Co-doped ZnO: Departure from the superexchange picture. <i>Physical Review B</i> , <b>2012</b> , 86,	3.3	13
75	Effect of Nitrogen Doping on the Growth of 4H Polytype on the 6H-SiC Seed by PVT Method. <i>Materials Science Forum</i> , <b>2012</b> , 717-720, 29-32	0.4	3
74	Experimental Verification of a Novel System for the Growth of SiC Single Crystals. <i>Materials Science Forum</i> , <b>2011</b> , 679-680, 16-19	0.4	1
73	Deep-Level Defects in Electron Irradiated 6H-SiC. <i>Materials Research Society Symposia Proceedings</i> , <b>2010</b> , 1246, 1		
72	Characterization of Vanadium Doped 4H- and 6H-SiC Grown by PVT Method Using the Open Seed Backside. <i>Materials Science Forum</i> , <b>2010</b> , 645-648, 21-24	0.4	2
71	Growth of 4H-SiC Crystals on the 8° Off-Axis 6H-SiC Seed by PVT Method. <i>Materials Science Forum</i> , <b>2010</b> , 645-648, 17-20	0.4	3
70	Nucleation Mechanism of 6H-SiC Polytype Inclusions Inside 15R-SiC Crystals. <i>Journal of Electronic Materials</i> , <b>2010</b> , 39, 799-804	1.9	3
69	Diffusion of cobalt in ion-implanted ZnO. <i>Thin Solid Films</i> , <b>2010</b> , 518, 3894-3897	2.2	8

68	Seeded growth of bulk ZnO by chemical vapor transport. <i>Physica Status Solidi (B): Basic Research</i> , <b>2010</b> , 247, 1457-1459	1.3	17
67	Single-ion anisotropy in Mn-doped diluted magnetic semiconductors. <i>Physical Review B</i> , <b>2009</b> , 80,	3.3	9
66	1.4 eV - LUMINESCENCE BAND IN 6H-SiC: SYMMETRY OF THE ASSOCIATED DEFECT. <i>International Journal of Modern Physics B</i> , <b>2009</b> , 23, 3019-3023	1.1	1
65	Photoemission study of 6H-SiC(0 0 0 1) surface with deposited Mn atoms. <i>Radiation Physics and Chemistry</i> , <b>2009</b> , 78, S25-S28	2.5	
64	Electrical characterization of 6H-SiC grown by physical vapor transport method. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , <b>2009</b> , 165, 23-27	3.1	1
63	Effect of electron irradiation on defect structure of 6H-SiC grown by PVT method. <i>Superlattices and Microstructures</i> , <b>2009</b> , 45, 402-406	2.8	2
62	Growth of 4H-SiC Single Crystals on 6H-SiC Seeds with an Open Backside by PVT Method. <i>Materials Science Forum</i> , <b>2009</b> , 615-617, 15-18	0.4	8
61	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> , <b>2009</b> , 615-617, 19-22	0.4	3
60	Raman Piezospectroscopy of Phonons in Bulk 6H-SiC. <i>Acta Physica Polonica A</i> , <b>2009</b> , 116, 947-949	0.6	4
59	Application of 6H to 4H Polytype Conversion to Effective Reduction of Micropipes in 4H SiC Crystals. <i>Materials Science Forum</i> , <b>2008</b> , 600-603, 31-34	0.4	3
58	Growth of 6H-SiC Single Crystals under Quasi-Equilibrium Conditions. <i>Materials Science Forum</i> , <b>2008</b> , 600-603, 15-18	0.4	
57	Deep-Level Defects in Nitrogen-Doped 6H-SiC Grown by PVT Method. <i>Materials Research Society Symposia Proceedings</i> , <b>2008</b> , 1069, 1		
56	ZnO bulk growth in hydrogen atmosphere. <i>Journal of Crystal Growth</i> , <b>2008</b> , 310, 1823-1826	1.6	10
55	Substrates Grown from the Vapor for ZnO Homoepitaxy. <i>Acta Physica Polonica A</i> , <b>2008</b> , 114, 1361-1368	0.6	
54	A stability diagram for crystal growth from the vapor: a review. <i>Crystal Research and Technology</i> , <b>2007</b> , 42, 1202-1206	1.3	2
53	Initial stages of SiC crystal growth by PVT method. <i>Crystal Research and Technology</i> , <b>2007</b> , 42, 1232-1236	1.3	16
52	Thermal annealing of ZnO substrates. <i>Superlattices and Microstructures</i> , <b>2007</b> , 42, 290-293	2.8	2
51	Effect of annealing atmosphere on the quality of ZnO crystal surface. <i>Physica Status Solidi (B): Basic Research</i> , <b>2007</b> , 244, 1468-1472	1.3	9

50	X-ray characterisation of a bulk ZnO crystal. <i>Physica Status Solidi (B): Basic Research</i> , <b>2007</b> , 244, 1573-1577.	1.3	10
49	Magnetic properties of Fe doped SiC crystals. <i>Physica Status Solidi (B): Basic Research</i> , <b>2007</b> , 244, 1743-1746.	1.4	20
48	Vacancy defects in (Zn, Mn)O. <i>Superlattices and Microstructures</i> , <b>2007</b> , 42, 218-221.	2.8	16
47	Analysis of the vibrational properties of Zn <sub>1-x</sub> CoxO by Raman spectroscopy. <i>Journal of Physics: Conference Series</i> , <b>2007</b> , 92, 012149.	0.3	12
46	Active Thermal Interaction of Source and Crystal Surfaces in PVT SiC Crystal Growth. <i>Materials Science Forum</i> , <b>2006</b> , 527-529, 87-90.	0.4	3
45	ZnO crystals for substrates in micro and optoelectronic applications. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , <b>2006</b> , 3, 793-796.		8
44	Observation of Zn vacancies in ZnO grown by chemical vapor transport. <i>Physica Status Solidi (B): Basic Research</i> , <b>2006</b> , 243, 794-798.	1.3	33
43	TaBi contacts to n-SiC for high temperatures devices. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , <b>2006</b> , 135, 289-293.	3.1	12
42	Magneto-Luminescence Study of Silicon-Vacancy in 6H-SiC. <i>Acta Physica Polonica A</i> , <b>2006</b> , 110, 437-442.	0.6	2
41	Contactless CVT growth of ZnO crystals. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , <b>2005</b> , 2, 1115-1118.		15
40	Modeling interlayer exchange coupling in EuS/PbS/EuS trilayers. <i>Journal of Applied Physics</i> , <b>2004</b> , 95, 7169-7171.	2.5	2
39	Antiferromagnetic interlayer exchange coupling in all-semiconducting EuS/PbS/EuS trilayers. <i>Physical Review B</i> , <b>2004</b> , 69,	3.3	28
38	Fabrication and Electrical Characterization of PbS-EuS Ferromagnetic Semiconductor Microstructures. <i>Acta Physica Polonica A</i> , <b>2004</b> , 105, 615-620.	0.6	
37	Search for Spin Filtering by Electron Tunneling Through Ferromagnetic EuS Barriers in PbS. <i>Journal of Superconductivity and Novel Magnetism</i> , <b>2003</b> , 16, 183-185.		3
36	Photoluminescence of CdTe crystals grown by physical-vapor transport. <i>Journal of Electronic Materials</i> , <b>2003</b> , 32, 747-751.	1.9	6
35	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> , <b>2003</b> , 254, 316-328.	1.6	10
34	Vertical Electron Transport through PbS-EuS Structures. <i>Acta Physica Polonica A</i> , <b>2003</b> , 103, 629-635.	0.6	2
33	Magnetic and Structural Properties of EuS-PbS Multilayers Grown on n-PbS (100) Substrates. <i>Acta Physica Polonica A</i> , <b>2002</b> , 102, 609-615.	0.6	6

32	Thermochemical model and experimental studies on physical vapor transport of lead telluride-selenide. <i>Journal of Crystal Growth</i> , <b>2000</b> , 216, 283-292	1.6	6
31	Morphological instabilities in CdTe crystal growth from the vapor phase. <i>Journal of Crystal Growth</i> , <b>1999</b> , 203, 371-375	1.6	2
30	Experimental study of low supersaturation nucleation in crystal growth by $\beta$ -contactless physical vapor transport. <i>Journal of Crystal Growth</i> , <b>1999</b> , 207, 179-187	1.6	5
29	Some Aspects of PVT Low-Supersaturation Nucleation and Contactless Crystal Growth. <i>Crystal Research and Technology</i> , <b>1999</b> , 34, 565-571	1.3	6
28	Computational modeling of the low supersaturation nucleation in crystal growth by $\beta$ -contactless physical vapor transport. <i>Journal of Crystal Growth</i> , <b>1998</b> , 193, 426-429	1.6	2
27	Methods of dislocation distribution analysis and inclusion identification with application to CdTe and (Cd, Zn)Te. <i>Journal Physics D: Applied Physics</i> , <b>1998</b> , 31, 1009-1016	3	16
26	Exciton magnetic polarons in (100)- and (120)-oriented semimagnetic digital alloys (Cd,Mn)Te. <i>Physical Review B</i> , <b>1998</b> , 58, 4785-4792	3.3	15
25	Broad Band Optical Power Limiting in Vanadium Doped Cd <sub>0.55</sub> Mn <sub>0.45</sub> Te Crystals. <i>Materials Research Society Symposia Proceedings</i> , <b>1997</b> , 479, 179		3
24	Demonstration of room-temperature laser action at 2.5 $\mu$ m from Cr(2+):Cd(0.85)Mn(0.15)Te. <i>Optics Letters</i> , <b>1997</b> , 22, 1180-2	3	89
23	Characterization of cadmium-zinc telluride crystals grown by $\beta$ -contactless PVT using synchrotron white beam topography. <i>Journal of Crystal Growth</i> , <b>1997</b> , 182, 37-44	1.6	7
22	Optimal thermal conditions for growth of Cd <sub>1-x</sub> Mn <sub>x</sub> Te(:Cr) (:Cl) (:In) (:V) single crystals using the Bridgman-Stockbarger configuration. <i>Journal of Crystal Growth</i> , <b>1997</b> , 174, 263-266	1.6	3
21	Optical properties of Cr <sup>2+</sup> ions in Cd <sub>0.85</sub> Mn <sub>0.15</sub> Te. <i>Journal of Luminescence</i> , <b>1997</b> , 72-74, 281-283	3.8	6
20	Growth by molecular beam epitaxy and magneto-optical studies of (100)- and (120)-oriented digital magnetic quantum well structures. <i>Thin Solid Films</i> , <b>1997</b> , 306, 283-290	2.2	6
19	Low supersaturation nucleation and $\beta$ -contactless growth of photorefractive ZnTe crystals. <i>Journal of Crystal Growth</i> , <b>1997</b> , 174, 719-725	1.6	12
18	Stress birefringence in vapour-grown CdTe and its correlation to the growth techniques. <i>Journal of Crystal Growth</i> , <b>1996</b> , 161, 34-39	1.6	8
17	Growth stability in high temperature vapour growth. <i>Journal of Crystal Growth</i> , <b>1996</b> , 162, 173-177	1.6	7
16	Growth of cadmium-zinc telluride crystals by controlled seeding $\beta$ -contactless physical vapor transport. <i>Journal of Crystal Growth</i> , <b>1996</b> , 169, 20-26	1.6	14
15	(120)-Oriented CdTe/CdMnTe Quantum Well Structures Grown by Molecular Beam Epitaxy. <i>Acta Physica Polonica A</i> , <b>1996</b> , 90, 879-882	0.6	4

14	Characterization of cadmium telluride crystals grown by different techniques from the vapour phase. <i>Journal of Crystal Growth</i> , <b>1995</b> , 146, 125-129	1.6	16
13	Bulk vapour growth of CdTe. <i>Journal of Crystal Growth</i> , <b>1995</b> , 146, 65-68	1.6	15
12	Effect of temperature field on growth stability. <i>Journal of Crystal Growth</i> , <b>1995</b> , 146, 69-74	1.6	4
11	The optimal temperature profile in crystal growth from the vapour. <i>Journal of Crystal Growth</i> , <b>1995</b> , 146, 75-79	1.6	8
10	Surface morphology of vapour phase grown CdTe. <i>Journal of Crystal Growth</i> , <b>1995</b> , 151, 261-266	1.6	11
9	Temperature Study of Photoluminescence from Deep CdTe/Cd <sub>1-x</sub> Mn <sub>x</sub> Te Quantum Wells. <i>Acta Physica Polonica A</i> , <b>1995</b> , 87, 500-504	0.6	3
8	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> , <b>1993</b> , 128, 609-612	1.6	8
7	Melt dynamics in directional solidification of PbSnTe. <i>Journal of Crystal Growth</i> , <b>1993</b> , 128, 183-187	1.6	1
6	Effect of Fluid Flow on the Concentrational Nonuniformities in LiNd <sub>1-x</sub> Y <sub>x</sub> F <sub>4</sub> Compound. <i>Japanese Journal of Applied Physics</i> , <b>1993</b> , 32, 165	1.4	
5	Growth of Ternary and Quaternary ZnSe Compounds with Transition Metals by Chemical Vapor Transport. <i>Acta Physica Polonica A</i> , <b>1993</b> , 84, 785-788	0.6	
4	Temperature field computations in Pb <sub>1-x</sub> Sn <sub>x</sub> Te crystal grown by inverted Bridgman method. <i>Journal of Crystal Growth</i> , <b>1992</b> , 116, 139-150	1.6	5
3	A novel method of crystal growth by physical vapour transport and its application to CdTe. <i>Journal of Crystal Growth</i> , <b>1992</b> , 123, 519-528	1.6	41
2	Study of melt dynamics in crystal growth of Pb <sub>1-x</sub> Sn <sub>x</sub> Te by the inverted Bridgman method. <i>Journal of Crystal Growth</i> , <b>1991</b> , 110, 867-877	1.6	5
1	Systemic consequences of disorder in magnetically self-organized topological MnBi <sub>2</sub> Te <sub>4</sub> /(Bi <sub>2</sub> Te <sub>3</sub> ) <sub>n</sub> superlattices. <i>2D Materials</i> ,	5.9	2