

Andrzej Szczerbakow

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/1693926/publications.pdf>

Version: 2024-02-01

98
papers

1,858
citations

393982

19
h-index

276539

41
g-index

100
all docs

100
docs citations

100
times ranked

2158
citing authors

#	ARTICLE	IF	CITATIONS
1	Highly Stable Lasing from Solution-Grown Epitaxially Grown Formamidinium-Lead-Bromide Micro-Resonators. <i>Advanced Optical Materials</i> , 2022, 10, .	3.6	3
2	Systematic Investigation of the Coupling between One-Dimensional Edge States of a Topological Crystalline Insulator. <i>Physical Review Letters</i> , 2021, 126, 236402.	2.9	5
3	Thermostructural and Elastic Properties of PbTe and Pb _{0.884} Cd _{0.116} Te: A Combined Low-Temperature and High-Pressure X-ray Diffraction Study of Cd-Substitution Effects. <i>Crystals</i> , 2021, 11, 1063.	1.0	4
4	Perspectives of solution epitaxially grown defect tolerant lead-halide-perovskites and lead-chalcogenides. <i>Applied Physics Letters</i> , 2021, 119, .	1.5	2
5	Epitaxial Metal Halide Perovskites by Inkjet-Printing on Various Substrates. <i>Advanced Functional Materials</i> , 2020, 30, 2004612.	7.8	21
6	Two-valence band electron and heat transport in monocrystalline PbTe-CdTe solid solutions with Cd content up to 10 atomic percent. <i>Physical Review Materials</i> , 2020, 4, .	0.9	3
7	Experimental search for the origin of low-energy modes in topological materials. <i>Physical Review B</i> , 2019, 100, .	1.1	12
8	Anisotropy of Selected Mechanical Properties of PbTe. <i>Physica Status Solidi (B): Basic Research</i> , 2019, 256, .	0.7	1
9	Fragility of the Dirac Cone Splitting in Topological Crystalline Insulator Heterostructures. <i>ACS Nano</i> , 2018, 12, 617-626.	7.3	7
10	Surface oxidation of SnTe topological crystalline insulator. <i>Applied Surface Science</i> , 2018, 452, 134-140.	3.1	30
11	Anisotropy of Young's Modulus and Microhardness of PbTe. <i>Acta Physica Polonica A</i> , 2018, 134, 941-943.	0.2	6
12	Low-Temperature Neutron Diffraction in the (Pb,Cd)Te Solid Solution Containing 2.2% of Cd. <i>Acta Physica Polonica A</i> , 2018, 134, 944-946.	0.2	1
13	Spatial analysis of dislocation distribution as a means of assessing crystal growth processes. , 2018, , 215-218.		0
14	Experimental evidence for topological surface states wrapping around a bulk SnTe crystal. <i>Physical Review B</i> , 2017, 96, .	1.1	20
15	The Young Modulus and Microhardness Anisotropy in (Pb,Cd)Te Solid Solution Crystallizing in the Rock Salt Structure and Containing 5% of Cd. <i>Acta Physica Polonica A</i> , 2017, 132, 343-346.	0.2	3
16	Robust spin-polarized midgap states at step edges of topological crystalline insulators. <i>Science</i> , 2016, 354, 1269-1273.	6.0	91
17	Efficient thermoelectric energy conversion in Pb _{0.95} Mn _{0.05} Te p-n couple. <i>Applied Physics Letters</i> , 2016, 108, .	1.5	4
18	Nernst-Ettingshausen effect at the trivial-nontrivial band ordering in topological crystalline insulator Pb _{1-x} Sn _x Se. <i>New Journal of Physics</i> , 2016, 18, 013047.	1.2	4

#	ARTICLE	IF	CITATIONS
19	Hardening of (Pb,Cd)Te Crystal Lattice with an Increasing CdTe Content in the Solid Solution. Acta Physica Polonica A, 2016, 130, 1245-1247.	0.2	2
20	Inelastic X-Ray Scattering Studies of Phonon Dispersion in PbTe and (Pb,Cd)Te Solid Solution. Acta Physica Polonica A, 2016, 130, 1251-1254.	0.2	7
21	Magnetic anisotropy induced by crystal distortion in $\text{Ge}_{1-x}\text{MnxTe}/\text{PbTe}/\text{KCl}$ (001) ferromagnetic semiconductor layers. Journal of Applied Physics, 2015, 118, 113905.	1.1	4
22	Direct observation and temperature control of the surface Dirac gap in a topological crystalline insulator. Nature Communications, 2015, 6, 8463.	5.8	49
23	Synchrotron radiation photoemission study of $\text{Pb}_{1-x}\text{Cd}_x\text{Te}$ crystal with local structure. Nuclear Instruments & Methods in Physics Research B, 2015, 364, 132-135.	0.6	1
24	Band inversion and the topological phase transition in (Pb,Sn)Se. Physical Review B, 2014, 90, .	1.1	51
25	Observation of topological crystalline insulator surface states on (111)-oriented $\text{Pb}_{1-x}\text{Sn}_x\text{Te}$ thin films. Physical Review B, 2014, 89, .	1.1	68
26	Characterization of wurtzite CdSe single crystal surfaces. Journal of Physics and Chemistry of Solids, 2014, 75, 624-628.	1.9	1
27	Spin polarized (111) surface states of the topological crystalline insulator $\text{Pb}_{1-x}\text{Sn}_x\text{Te}$. Physical Review B, 2013, 87, .	1.1	68
28	Magnetic interactions in $\text{Ge}_{1-x}\text{Cr}_x\text{Te}$ semimagnetic semiconductors. Journal of Applied Physics, 2012, 112, .	1.1	15
29	Topological crystalline insulator states in $\text{Pb}_{1-x}\text{Sn}_x\text{Se}$. Nature Materials, 2012, 11, 1023-1027.	13.3	693
30	Photoemission spectra of frozen rock salt $\text{Pb}_{1-x}\text{Cd}_x\text{Te}$ crystal. Journal of Electron Spectroscopy and Related Phenomena, 2011, 184, 199-202.	0.8	9
31	Evolution of $\text{Pb}_{1-x}\text{Cd}_x\text{Te}$ Solid Solution Structure at High Temperatures. Acta Physica Polonica A, 2011, 119, 699-701.	0.2	6
32	Compositional effects accompanying near equilibrium vapour growth of solid solution crystals of the types IV_aVI and II_aVI . Crystal Research and Technology, 2010, 45, 679-684.	0.6	1
33	Monocrystalline $\text{Cd}_{0.2}\text{Zn}_{0.8}\text{Te}$ solid solution obtained by self-selecting vapour growth. Crystal Research and Technology, 2010, 45, 895-898.	0.6	2
34	Experimental and Theoretical Analysis of PbTe - CdTe Solid Solution Grown by Physical Vapour Transport Method. Acta Physica Polonica A, 2009, 116, 959-961.	0.2	20
35	Hybrid Organic/ ZnO p-n Junctions with n-Type ZnO Grown by Atomic Layer Deposition. Acta Physica Polonica A, 2008, 114, 1229-1234.	0.2	17
36	Magnetic Properties of EuS - SrS Semiconductor Multilayer Structures. Acta Physica Polonica A, 2007, 112, 419-424.	0.2	3

#	ARTICLE	IF	CITATIONS
37	Surface core-level shifts in CdTe _{1-x} Sx(110) and CdTe _{1-x} Sex(110). Physical Review B, 2006, 73, .	1.1	5
38	Self-selecting vapour growth of bulk crystals – Principles and applicability. Progress in Crystal Growth and Characterization of Materials, 2005, 51, 81-108.	1.8	45
39	A preliminary study of CdS for solar cells using combined TEM and cathodoluminescence. Thin Solid Films, 2005, 480-481, 236-240.	0.8	2
40	Growth by atomic layer epitaxy and characterization of thin films of ZnO. Physica Status Solidi C: Current Topics in Solid State Physics, 2005, 2, 1125-1130.	0.8	20
41	Modeling interlayer exchange coupling in EuS/PbS/EuS trilayers. Journal of Applied Physics, 2004, 95, 7169-7171.	1.1	2
42	Monocrystalline ZnO films grown by atomic layer epitaxy - growth and characterization. Physica Status Solidi C: Current Topics in Solid State Physics, 2004, 1, 892-895.	0.8	2
43	Geometrical aspects of solid solution separation by evaporation-condensation driven in a closed system by a small temperature difference. Crystal Research and Technology, 2004, 39, 401-403.	0.6	2
44	Monocrystalline thin films of ZnSe and ZnO grown by atomic layer epitaxy. Vacuum, 2004, 74, 269-272.	1.6	11
45	Monocrystalline ZnO Films on GaN/Al ₂ O ₃ by Atomic Layer Epitaxy in Gas Flow. Chemistry of Materials, 2004, 16, 1447-1450.	3.2	30
46	“Contactless” growth of uniform Cd _{0.8} Zn _{0.2} Te monocrystals from the vapour. Materials Letters, 2004, 58, 1781-1783.	1.3	5
47	Antiferromagnetic interlayer exchange coupling in all-semiconducting EuS ⁺ PbS ⁻ EuS trilayers. Physical Review B, 2004, 69, .	1.1	32
48	Optically Pumped Mid-Infrared Stimulated Emission of ZnSe:Cr Crystals. Acta Physica Polonica A, 2004, 105, 553-558.	0.2	12
49	Temperature Dependence of Antiferromagnetic Interlayer Exchange Coupling in EuS-PbS Multilayers. Acta Physica Polonica A, 2004, 105, 599-605.	0.2	3
50	Monocrystalline and Polycrystalline ZnO and ZnMnO Films Grown by Atomic Layer Epitaxy - Growth and Characterization. Acta Physica Polonica A, 2004, 105, 667-673.	0.2	8
51	Fabrication and Electrical Characterization of PbS-EuS Ferromagnetic Semiconductor Microstructures. Acta Physica Polonica A, 2004, 105, 615-620.	0.2	0
52	Magnetization of EuS ⁺ PbS Multilayers with Antiferromagnetic Interlayer Coupling. Journal of Superconductivity and Novel Magnetism, 2003, 16, 213-215.	0.5	7
53	Search for Spin Filtering by Electron Tunneling Through Ferromagnetic EuS Barriers in PbS. Journal of Superconductivity and Novel Magnetism, 2003, 16, 183-185.	0.5	3
54	Model of the temperature field in tube furnaces and its application to a system of “contactless” crystal growth from the vapour. Journal of Crystal Growth, 2003, 257, 31-41.	0.7	3

#	ARTICLE	IF	CITATIONS
55	PbSe(100) surface electronic states studied by surface differential reflectivity. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2003, 0, 3007-3011.	0.8	0
56	Vertical Electron Transport through PbS-EuS Structures. <i>Acta Physica Polonica A</i> , 2003, 103, 629-635.	0.2	2
57	CdSxTe1-x: bulk vapour growth, twin formation and the electrical activity of twin boundaries. <i>Journal Physics D: Applied Physics</i> , 2002, 35, 1997-2007.	1.3	8
58	Surface core-level shift and AFM study of the galena (100) surface. <i>Surface and Interface Analysis</i> , 2002, 33, 964-967.	0.8	4
59	Recrystallization prospects for freestanding low-temperature GaN grown using ZnO buffer layers. <i>Journal of Crystal Growth</i> , 2002, 246, 237-243.	0.7	28
60	Magnetic and Structural Properties of EuS-PbS Multilayers Grown on n-PbS (100) Substrates. <i>Acta Physica Polonica A</i> , 2002, 102, 609-615.	0.2	6
61	Differential reflectivity and angle-resolved photoemission of PbS(1 0 0). <i>Surface Science</i> , 2001, 482-485, 659-663.	0.8	4
62	Self-Selecting Vapor Growth of Monocrystals: An Alternative in the Area of Wide-Gap II ^{VI} Solid Solutions. <i>Crystal Growth and Design</i> , 2001, 1, 183-185.	1.4	10
63	Excitation mechanism of blue anti-Stokes and 2.4 μ m infrared emission in ZnSe:Cr. <i>Physica B: Condensed Matter</i> , 2001, 308-310, 942-944.	1.3	12
64	Optical and Structural Properties of Thin Films of ZnS Grown by Atomic Layer Epitaxy. <i>Journal of Wide Bandgap Materials</i> , 2001, 9, 55-63.	0.1	4
65	Sphalerite-type (Cd, Zn)S films by atomic layer epitaxy in the gas flow. <i>Journal of Crystal Growth</i> , 2000, 216, 532-534.	0.7	4
66	The lattice constants of ternary and quaternary alloys in the PbTe-SnTe-MnTe system. <i>Journal of Crystal Growth</i> , 1999, 200, 483-489.	0.7	18
67	Monocrystalline films of sphalerite-type ZnSe grown by atomic layer epitaxy in a gas flow system. <i>Journal of Crystal Growth</i> , 1999, 207, 148-149.	0.7	9
68	Sphalerite-type Cd(Te, Se) crystallised by self-selecting vapour growth. <i>Crystal Research and Technology</i> , 1999, 34, 53-57.	0.6	6
69	Monocrystalline ZnS-sphalerite films grown by atomic layer epitaxy in a gas flow system. <i>Journal of Crystal Growth</i> , 1998, 183, 708-710.	0.7	15
70	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.	1.3	16
71	Structural defects and compositional uniformity in CdTe and Cd _{1-x} Zn _x Te crystals grown by a vapour transport technique. <i>Journal of Crystal Growth</i> , 1998, 191, 673-678.	0.7	13
72	Recycled Crystallisation of ZnTe by Evaporation-Condensation. <i>Crystal Research and Technology</i> , 1998, 33, 875-879.	0.6	7

#	ARTICLE	IF	CITATIONS
73	Structure, Surface Morphology and Optical Properties of Thin Films of ZnS and CdS Grown by Atomic Layer Epitaxy. Acta Physica Polonica A, 1998, 94, 579-582.	0.2	11
74	Compositional variations in the incongruent condensation of an ideal solid solution under near equilibrium conditions. Journal of Crystal Growth, 1995, 151, 384-386.	0.7	5
75	Direct evidence for the existence of exciton bound on Yb ³⁺ ion in In(P,As) crystals. Applied Physics Letters, 1995, 66, 3630-3632.	1.5	3
76	Relaxation of Yb 4f-Shell in In(P,As) Alloys. Materials Science Forum, 1995, 196-201, 651-656.	0.3	0
77	Remarks on the separation of a solid solution transported by evaporation-condensation at a small temperature difference. Crystal Research and Technology, 1994, 29, 543-547.	0.6	6
78	Investigation of the composition of vapour-grown Pb _{1-x} Sn _x Se crystals (x ≈ 0.4) by means of lattice parameter measurements. Journal of Crystal Growth, 1994, 139, 172-178.	0.7	28
79	The properties of (Pb, Ge)Te single crystals grown from vapour phase. Journal of Crystal Growth, 1994, 135, 565-570.	0.7	8
80	Crystal Selection in the Self-selected Vapour Growth (SSVG) of PbSe in a Vertical System. Crystal Research and Technology, 1993, 28, K77-K80.	0.6	7
81	Growth of CdTe single crystals by vapour condensation on the surface of polycrystalline source material. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 1993, 16, 68-70.	1.7	12
82	Magnetic-resonance study of the diluted magnetic semiconductor Pb _{1-x} Sn _x Mn _x Te. Physical Review B, 1993, 47, 227-236.	1.1	19
83	Applied Infrared Photoluminescence in Lead Salt Crystals. Crystal Research and Technology, 1991, 26, 757-766.	0.6	2
84	Temperature and Composition Dependence of Photovoltaic Spectra of Pb _{1-x} Mn _x Se Diodes. Acta Physica Polonica A, 1991, 79, 287-290.	0.2	4
85	Band structure parameters of Pb _{0.25} Sn _{0.72} Mn _{0.03} Te semimagnetic semiconductors. Semiconductor Science and Technology, 1990, 5, 1115-1123.	1.0	10
86	Influence of thermal radiation on crystal growth by sublimation of AIVBVI solid solutions on source material. Journal of Crystal Growth, 1987, 82, 709-716.	0.7	20
87	Some aspects of the technology of lead salt diode lasers used in gas monitoring systems. Crystal Research and Technology, 1987, 22, 981-986.	0.6	5
88	Vapour phase growth and properties of Pb _{1-x} Sn _x Te single crystals. Journal of Crystal Growth, 1986, 74, 129-134.	0.7	19
89	Lattice parameters in the solid-solution system Pb _x Se _{1-x} . Crystal Research and Technology, 1985, 20, K8-K10.	0.6	12
90	Anomalous resistivity in the ferroelectric phase transition of Pb _{1-x} Ge _x Te. Lettere Al Nuovo Cimento Rivista Internazionale Della Societ� Italiana Di Fisica, 1984, 39, 81-85.	0.4	6

#	ARTICLE	IF	CITATIONS
91	Vapour phase growth of CdTe. Journal of Crystal Growth, 1982, 56, 213-214.	0.7	17
92	Vapour phase growth of large crystals of PbTe and $Pb_{1-x}Sn_xTe$. Journal of Crystal Growth, 1982, 60, 150-152.	0.7	16
93	Temperature and composition dependence of the energy band gap of $Pb_{1-x}Mn_xS$ solid solution. Applied Physics A: Solids and Surfaces, 1982, 29, 49-52.	1.4	12
94	Diode laser action in $Pb_{1-x}Mn_xS$. Solid State Communications, 1981, 38, 499-501.	0.9	13
95	Photovoltaic Effect in $Pb_{1-x}Mn_xTe$. Solid State Communications, 1980, 34, 887-889.	0.9	32
96	Glass substrates for GaN using ZnO buffer layers. , 0, , .		1
97	R-EBIC study of the electrical activity of grain boundaries in CdTe and Cd(S,Te). , 0, , .		4
98	Atomic layer epitaxy of ZnO for substrates for GaN epitaxy. , 0, , .		0