Piotr Dziawa

List of Publications by Year in descending order

58 papers	1,419 citations	686830 13 h-index	329751 37 g-index
58 all docs	58 docs citations	58 times ranked	2151 citing authors

#	Article	IF	Citations
1	Topological crystalline insulator states inÂPb1âˆ'xSnxSe. Nature Materials, 2012, 11, 1023-1027.	13.3	693
2	Spin-glass behavior in Ni-doped La<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow /><mml:mrow><mml:mn>1.85</mml:mn></mml:mrow></mml:msub></mml:mrow></mml:math>Sr<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow /><mml:mrow><mml:mn>0.15</mml:mn></mml:mrow></mml:msub></mml:mrow></mml:math>CuO<mml:math	1.1	104
3	Robust spin-polarized midgap states at step edges of topological crystalline insulators. Science, 2016, 354, 1269-1273.	6.0	91
4	Spin-polarized (001) surface states of the topological crystalline insulator Pb<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mrow><mml:mn>0.73</mml:mn></mml:mrow></mml:msub></mml:math>Sn<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mrow><mml:mn>0.27</mml:mn></mml:mrow></mml:msub></mml:math>Se. Physical Review B, 2013, 87, .	1.1	68
5	Observation of topological crystalline insulator surface states on (111)-oriented Pb<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mrow /><mml:mrow><mml:mn>1</mml:mn><mml:mo>â^'</mml:mo><mml:mi>x</mml:mi></mml:mrow></mml:msub></mml:math>Sn<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mrow /><mml:mrow><mml:mi>x</mml:mi></mml:mrow></mml:msub></mml:math>Se films. Physical Review B, 2014, 89, .	1.1	62
6	Band inversion and the topological phase transition in (Pb,Sn)Se. Physical Review B, 2014, 90, .	1.1	51
7	Direct observation and temperature control of the surface Dirac gap in a topological crystalline insulator. Nature Communications, 2015, 6, 8463.	5.8	49
8	Magnetic Fe doped ZnO nanofibers obtained by electrospinning. Journal of Sol-Gel Science and Technology, 2012, 61, 494-500.	1.1	34
9	Upconverting/magnetic: Gd₂O₃:(Er³⁺,Yb³⁺,Zn²⁺) nanoparticles for biological applications: effect of Zn²⁺ doping. RSC Advances, 2015, 5, 78361-78373.	1.7	33
10	Epitaxial Zinc-Blende CdTe Antidots in Rock-Salt PbTe Semiconductor Thermoelectric Matrix. Crystal Growth and Design, 2011, 11, 4794-4801.	1.4	20
11	Experimental and Theoretical Analysis Î¿f PbTe-CdTe Solid Solution Grown by Physical Vapour Transport Method. Acta Physica Polonica A, 2009, 116, 959-961.	0.2	20
12	Defect Free PbTe Nanowires Grown by Molecular Beam Epitaxy on GaAs(111)B Substrates. Crystal Growth and Design, 2010, 10, 109-113.	1.4	18
13	Structural and optical characterization of epitaxial layers of CdTe/PbTe grown on BaF2 (111) substrates. Physica Status Solidi C: Current Topics in Solid State Physics, 2005, 2, 1167-1171.	0.8	14
14	Magnetic anisotropy of semiconductor (Ge,Mn)Te microstructures produced by laser and electron beam induced crystallization. Physica Status Solidi (B): Basic Research, 2011, 248, 1605-1608.	0.7	13
15	Bi catalyzed VLS growth of PbTe (001) nanowires. Journal of Crystal Growth, 2011, 318, 1105-1108.	0.7	13
16	Magnetic Properties of Epitaxial (Ge,Mn)Te Thin Films with Varying Crystal Stoichiometry. Acta Physica Polonica A, 2008, 114, 1159-1165.	0.2	10
17	Defect-free SnTe topological crystalline insulator nanowires grown by molecular beam epitaxy on graphene. Nanoscale, 2018, 10, 20772-20778.	2.8	9
18	Ferromagnetic Transition in Ge_{1-x}Mn_xTe Layers. Acta Physica Polonica A, 2009, 116, 904-906.	0.2	9

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19	Magnetization Studies of Antiferromagnetic Interlayer Coupling in EuS-SrS Semiconductor Multilayers. Acta Physica Polonica A, 2013, 124, 133-136.	0.2	9
20	High-energy X-ray photoelectron spectroscopy study of MBE grown (Eu,Gd) Te layers. Nuclear Instruments & Methods in Physics Research B, 2005, 238, 346-352.	0.6	7
21	Magnetic properties of nanocrystalline ZnO doped with MnO and CoO. Journal of Physics: Conference Series, 2010, 200, 072058.	0.3	7
22	Fragility of the Dirac Cone Splitting in Topological Crystalline Insulator Heterostructures. ACS Nano, 2018, 12, 617-626.	7.3	7
23	Deep impurity levels in vanadium-doped Pb1â^'xMnxTe solid solutions. Semiconductor Science and Technology, 2008, 23, 055004.	1.0	6
24	Epitaxial Growth and Optical Properties of PbTe/CdTe Semiconductor Heterostructures. Acta Physica Polonica A, 2008, 114, 1391-1396.	0.2	6
25	Electronic structure of bulk ferromagnetic Ge0.86Mn0.14Te. Radiation Physics and Chemistry, 2009, 78, S17-S21.	1.4	5
26	The Mechanism of Bi Nanowire Growth from Bi/Co Immiscible Composite Thin Films. Journal of Nanoscience and Nanotechnology, 2012, 12, 8624-8629.	0.9	5
27	Novel ZnO/MgO/Fe2O3composite optomagnetic nanoparticles. Journal of Physics Condensed Matter, 2013, 25, 194105.	0.7	5
28	Unit cell distortion and surface morphology diversification in a SnTe/CdTe(001) topological crystalline insulator heterostructure: influence of defect azimuthal distribution. Journal of Materials Chemistry C, 2022, 10, 3139-3152.	2.7	5
29	Optical and structural properties of Pb1â^'xEuxTe/CdTe//GaAs (001) heterostructures grown by MBE. Journal of Crystal Growth, 2011, 323, 140-143.	0.7	4
30	Efficient thermoelectric energy conversion in Pb0.95Mn0.05Te p-n couple. Applied Physics Letters, 2016, 108, .	1.5	4
31	SIMS accurate determination of matrix composition of topological crystalline insulator material Pb1 â^' xSnxSe. Surface and Interface Analysis, 2020, 52, 71-75.	0.8	3
32	Hydrostatic pressure influence on <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>T</mml:mi><mml:mi>C</mml:mi></mml:msub></mml:ma in (Ga,Mn)As. Physical Review B, 2020, 101, .	1.1	3
33	Two-valence band electron and heat transport in monocrystalline PbTe-CdTe solid solutions with Cd content up to 10 atomic percent. Physical Review Materials, 2020, 4, .	0.9	3
34	From Cuprate to Nickelate: Evolution of the Normal State Properties with Ni from La1.85Sr0.15CuO4to La1.85Sr0.15NiO4. Acta Physica Polonica A, 2010, 118, 402-405.	0.2	3
35	Resonant photoemission study of Eu1â^'xGdxTe layers. Applied Surface Science, 2006, 252, 5379-5383.	3.1	2
36	Photoemission study of (PbEuGd)Te layers under Gd or Te atoms treatment. Journal of Electron Spectroscopy and Related Phenomena, 2007, 156-158, 315-318.	0.8	2

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37	Photoemission study of Ge1â^'xâ^'y Mnx Euy Te at Mn 3pâ€“3d and Eu 4dâ€“4f resonances. Journal of Electron Spectroscopy and Related Phenomena, 2007, 156-158, 319-322.	0.8	2
38	Monocrystalline Cd_{0.2}Zn_{0.8}Te solid solution obtained by selfâ€selecting vapour growth. Crystal Research and Technology, 2010, 45, 895-898.	0.6	2
39	(Eu,Gd)Te - MBE Growth and Characterization. Acta Physica Polonica A, 2004, 106, 215-221.	0.2	2
40	Physical Properties of ZnCoO Tetrapods and Nanofibers. Acta Physica Polonica A, 2009, 116, 868-870.	0.2	2
41	Interlayer Exchange Coupling in Semiconductor EuS-PbS Ferromagnetic Wedge Multilayers. Acta Physica Polonica A, 2006, 110, 225-231.	0.2	2
42	Molecular speciation analysis of oxidized metal surfaces by TOF SIMS. Applied Surface Science, 2022, 577, 151855.	3.1	2
43	Far-infrared phonon spectroscopy of Pb1â^'xMnxTe layers grown by molecular beam epitaxy. Journal of Alloys and Compounds, 2007, 438, 34-40.	2.8	1
44	Resonant photoemission studies of Gd/PbGdTe. Journal of Physics: Conference Series, 2008, 100, 072015.	0.3	1
45	Mn4Si7 nanoinclusions in Mn-implanted Si. Radiation Physics and Chemistry, 2013, 93, 67-71.	1.4	1
46	Electric and thermoelectric properties of CdTe/PbTe epitaxial nanocomposite. Functional Materials Letters, 2014, 07, 1440007.	0.7	1
47	Synchrotron radiation photoemission study of Pb1â^'xCdxTe crystal with local structure. Nuclear Instruments & Methods in Physics Research B, 2015, 364, 132-135.	0.6	1
48	The use of high-mass clusters to measure the TOF SIMS profiles of implanted bismuth. International Journal of Mass Spectrometry, 2017, 422, 143-145.	0.7	1
49	Anisotropy of Selected Mechanical Properties of PbTe. Physica Status Solidi (B): Basic Research, 2019, 256, .	0.7	1
50	Fano Resonance Investigation of PbTe Layers Containing Eu and Gd Ions. Acta Physica Polonica A, 2008, 114, 351-356.	0.2	1
51	Magnetic Nature of a Ni Dopant in La_{1.85}Sr_{0.15}CuO₄: Spin-Glass Behavior. Acta Physica Polonica A, 2010, 118, 244-248.	0.2	1
52	Photoemission Electronic Spectra Î¿f CdTe/Pb0.95Eu0.05Te/CdTe. Acta Physica Polonica A, 2011, 120, 960-963.	0.2	1
53	Magnetization study of interlayer exchange in semiconductor EuSâ€“PbS ferromagnetic wedge multilayers. Journal of Alloys and Compounds, 2006, 423, 212-214.	2.8	0
54	Ferromagnetic (Eu,Gd)Te/PbTe semiconductor heterostructures. Journal of Alloys and Compounds, 2006, 423, 208-211.	2.8	0

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55	Fano Resonance of Eu2+and Eu3+in (Eu,Gd)Te MBE Layers. Acta Physica Polonica A, 2005, 108, 803-807.	0.2	0
56	Features of Energy Spectrum of Pb_{1-x}Mn_xTe Doped with V. Acta Physica Polonica A, 2006, 110, 151-156.	0.2	0
57	Magnetic Force Microscopy Study of Zn1-xCoxO Nanowires Grown by Rapid Thermal Evaporation. Acta Physica Polonica A, 2009, 116, 865-867.	0.2	0
58	Studies of Diluted Magnetic Semiconductor Sn1-x-y-zGexMnyGdzTe. Acta Physica Polonica A, 2009, 116, 911-912.	0.2	0