Piotr Wojnar

List of Publications by Year
in descending order

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96	1,230	393982	395343
papers	citations	19	33
		h-index	g-index

96	96	96	933
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Precise strain mapping of nano-twinned axial ZnTe/CdTe hetero-nanowires by scanning nanobeam electron diffraction. Nanotechnology, 2022, 33, 195704.	1.3	1
2	Excitonic fine structure of epitaxial Cd(Se,Te) on ZnTe type-II quantum dots. Physical Review B, 2022, 105, .	1.1	2
3	Giant enhancement of second harmonic light intensity in waveguiding core/shell ZnTe/ZnMgTe nanowires. Applied Physics Letters, 2021, 118, 192106.	1.5	0
4	Near-infrared emission from spatially indirect excitons in type II ZnTe/CdSe/(Zn,Mg)Te core/double-shell nanowires. Nanotechnology, 2021, 32, 495202.	1.3	1
5	Optical signatures of type Iâ€“type II band alignment transition in Cd(Se,Te)/ZnTe self-assembled quantum dots. Applied Physics Letters, 2020, 117, .	1.5	7
6	Polarization and magneto-optical properties of excitonic emission from wurtzite CdTe/(Cd,Mg)Te core/shell nanowires. Nanotechnology, 2020, 31, 215710.	1.3	4
7	Influence of copper dopants on the photoluminescence of single CdTe quantum dots. Journal of Applied Physics, 2020, 127, 024306.	1.1	0
8	Theoretical model investigating the magnetic properties of cobalt-doped ZnO. Journal of Physics Condensed Matter, 2020, 32, 225801.	0.7	3
9	Copper Doping of Low-Dimensional Se-Based Semiconductor Structures Grown by Molecular Beam Epitaxy. Journal of Physical Chemistry C, 2019, 123, 19938-19944.	1.5	0
10	Magnetic field induced mixing of light hole excitonic states in (Cd, Mn)Te/(Cd, Mg)Te core/shell nanowires. Nanotechnology, 2018, 29, 205205.	1.3	6
11	Growth and optical investigations of high quality individual CdTe/(Cd,Mg)Te core/shell nanowires. Nanotechnology, 2017, 28, 045207.	1.3	6
12	TEM Study of the Structural Properties of Nanowires Based on Cd, Zn, Te grown by MBE on Silicon Substrates. Acta Physica Polonica A, 2017, 131, 1399-1405.	0.2	4
13	Magnetic-field-induced abrupt spin-state transition in a quantum dot containing magnetic ions. Physical Review B, 2016, 94, .	1.1	0
14	Comparison of magneto-optical properties of various excitonic complexes in CdTe and CdSe self-assembled quantum dots. Journal of Physics Condensed Matter, 2016, 28, 265302.	0.7	8
15	Fine structure of a resonantly excitedp-shell exciton in a CdTe quantum dot. Physical Review B, 2016, 93, .	1.1	6
16	Anisotropy of in-plane hole<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>g</mml:mi></mml:math>factor in CdTe/ZnTe quantum dots. Physical Review B, 2016, 93, .	1.1	4
17	Exciton and carrier dynamics in ZnTe-<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Zn</mml:mi><mml:mrow><mml:mn>1</mml:mn> nanowires. Physical Review B, 2016, 93, .	1.1	4
18	Coexistence of optically active radial and axial CdTe insertions in single ZnTe nanowire. Nanoscale, 2016, 8, 5720-5727.	2.8	7

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19	Mechanism and dynamics of biexciton formation from a long-lived dark exciton in a CdTe quantum dot. Physical Review B, 2015, 91, .	1.1	19
20	Spin-lattice relaxation of an individual<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msup><mml:mrow><mml:mi>Mn</mml:mi></mml:mrow><mml:mrow><m in a CdTe/ZnTe quantum dot. Physical Review B, 2015, 92, .	1.1	1
21	Optical signatures of spin-dependent coupling in semimagnetic quantum dot molecules. Physical Review B, 2015, 92, .	1.1	0
22	Optical study of a doubly negatively charged exciton in a CdTe/ZnTe quantum dot containing a singleMn2+ion. Physical Review B, 2015, 92, .	1.1	5
23	Exciton dynamics in individual semimagnetic (Zn,Mn)Te/(Zn,Mg)Te nanowires. Journal of Applied Physics, 2015, 118, 095704.	1.1	4
24	Spin Splitting Anisotropy in Single Diluted Magnetic Nanowire Heterostructures. Nano Letters, 2015, 15, 1972-1978.	4.5	19
25	Photoluminescence study of the increased hole confinement in CdTe quantum dots (Presentation) Tj ETQq1 1 0.784314 rgBT /Overlo	0.8	0
26	Engineering the hole confinement for CdTe-based quantum dot molecules. Journal of Applied Physics, 2015, 117, .	1.1	2
27	Stark spectroscopy of CdTe and CdMnTe quantum dots embedded in n-i-p diodes. Journal of Applied Physics, 2014, 115, 203512.	1.1	2
28	Strain-induced energy gap variation in ZnTe/ZnMgTe core/shell nanowires. Applied Physics Letters, 2014, 104, .	1.5	13
29	Introducing singleMn2+ions into spontaneously coupled quantum dot pairs. Physical Review B, 2014, 89, .	1.1	9
30	Coherent Precession of an Individual5/2Spin. Physical Review Letters, 2014, 113, 227202.	2.9	31
31	Strong spâ€“d exchange coupling in ZnMnTe/ZnMgTe core/shell nanowires. Physica Status Solidi C: Current Topics in Solid State Physics, 2014, 11, 1308-1311.	0.8	1
32	Compensation of the exciton-ion exchange interaction in a quantum dot by application of a magnetic field. Europhysics Letters, 2014, 107, 37003.	0.7	0
33	Micropillar Cavity Containing a CdTe Quantum Dot with a Single Manganese Ion. Crystal Growth and Design, 2014, 14, 988-992.	1.4	23
34	Molecular beam epitaxy of semi-magnetic quantum dots. , 2013, , 529-545.		2
35	Structural characterization of the epitaxially grown coreâ€“shell ZnTe/ZnMgTe nanowires. Radiation Physics and Chemistry, 2013, 93, 111-116.	1.4	0
36	Influence of exciton spin relaxation on the photoluminescence spectra of semimagnetic quantum dots. Physical Review B, 2013, 87, .	1.1	13

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37	Activation of an intense near band edge emission from ZnTe/ZnMgTe core/shell nanowires grown on silicon. Nanotechnology, 2013, 24, 365201.	1.3	13
38	The Novel Multichannel Single Photon Correlations Technique Applied for the Spin Dynamics Study of a Few Mn^{2+} Ions in a CdTe/ZnTe Quantum Dot. Acta Physica Polonica A, 2013, 124, 791-794.	0.2	2
39	Resonant Excitation of CdTe/ZnTe Quantum Dot Pairs as a Tool for Spectroscopic Study of the Excitonic p-States. Acta Physica Polonica A, 2013, 124, 788-790.	0.2	2
40	Identification of Optical Transitions from CdTe and CdMnTe Quantum Dots Embedded in ZnTe Nanowires. Acta Physica Polonica A, 2013, 124, 824-826.	0.2	0
41	Fine structure of a biexciton in a single quantum dot with a magnetic impurity. Physical Review B, 2013, 87, .	1.1	24
42	Optical study of electron-electron exchange interaction in CdTe/ZnTe quantum dots. Physical Review B, 2013, 87, .	1.1	15
43	In-plane radiative recombination channel of a dark exciton in self-assembled quantum dots. Physical Review B, 2012, 86, .	1.1	42
44	Giant Spin Splitting in Optically Active ZnMnTe/ZnMgTe Core/Shell Nanowires. Nano Letters, 2012, 12, 3404-3409.	4.5	32
45	Pressure coefficients of the photoluminescence of the IIâ€“VI semiconducting quantum dots grown by molecular beam epitaxy. Journal of Luminescence, 2012, 132, 1501-1506.	1.5	11
46	Quantum Interference in Exciton-Mn Spin Interactions in a CdTe Semiconductor Quantum Dot. Physical Review Letters, 2011, 107, 207403.	2.9	28
47	Towards vertical coupling of CdTe/ZnTe quantum dots formed by a high temperature tellurium induced process. Journal of Crystal Growth, 2011, 335, 28-30.	0.7	27
48	Magnetophotoluminescence study of intershell exchange interaction in CdTe/ZnTe quantum dots. Physical Review B, 2011, 84, .	1.1	36
49	Vertical stacking of CdTeâ•ZnTe quantum dots formed by a fast tellurium induced process. , 2011, , .		0
50	Growth and micro-luminescence from diluted magnetic quantum dots. Physica Status Solidi C: Current Topics in Solid State Physics, 2011, 8, 2515-2518.	0.8	5
51	Tuning the inter-shell splitting in self-assembled CdTe quantum dots. Applied Physics Letters, 2011, 99, .	1.5	10
52	Stark spectroscopy and radiative lifetimes in single self-assembled CdTe quantum dots. Physical Review B, 2011, 83, .	1.1	17
53	Magnetic polaron formation and exciton spin relaxation in single Cd<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><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:mrow><mml:mi mathvariant="normal">M</mml:mi></mml:mrow></mml:mrow></mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow	1.1	44
54	Growth and optical properties of CdTe quantum dots in ZnTe nanowires. Applied Physics Letters, 2011, 99, 113109.	1.5	14

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55	Influence of Configuration Mixing on Energies and Recombination Dynamics of Excitonic States in CdTe/ZnTe Quantum Dots. Acta Physica Polonica A, 2011, 119, 615-617.	0.2	7
56	Magnetoluminescence of a CdTe Quantum Dot with a Single Manganese Ion in Voigt Configuration. Acta Physica Polonica A, 2011, 119, 618-620.	0.2	1
57	Spectroscopy of Indirect Excitons in Vertically Stacked CdTe Quantum Dot Structures. Acta Physica Polonica A, 2011, 120, 856-858.	0.2	2
58	Signatures of p-Shell Electron g-Factor in s-Shell Emission of CdTe/ZnTe Quantum Dots. Acta Physica Polonica A, 2011, 120, 874-876.	0.2	3
59	Statistical Study of the Inter-Dot Excitation Transfer in CdTe/ZnTe Quantum Dots. Acta Physica Polonica A, 2011, 120, 880-882.	0.2	2
60	Excitation Mechanisms of CdTe/ZnTe Quantum Dots under Non-Resonant and Quasi-Resonant Regime. Acta Physica Polonica A, 2011, 119, 588-591.	0.2	0
61	Charge storage in self-assembled CdTe quantum dots. Journal of Physics: Conference Series, 2010, 210, 012007.	0.3	2
62	Optical manipulation of a single Mn spin in a CdTe quantum dot. Physica E: Low-Dimensional Systems and Nanostructures, 2010, 42, 2690-2693.	1.3	13
63	Clustering in a selfâ€assembled CdTe/ZnTe quantum dot plane revealed by interâ€dot coupling. Physica Status Solidi (B): Basic Research, 2010, 247, 1409-1412.	0.7	5
64	Quantum Confined Stark Effect in Single Self-Assembled CdTe Quantum Dots. , 2010, , .		0
65	Spin Dynamics of a Single Mn Ion in a CdTeâˆ•(Cd, Mg, Zn)Te Quantum Dot. , 2010, , .		1
66	CdTe Quantum Dots in a Field Effect Structure: Photoluminescence Lineshape Analysis. , 2010, , .		0
67	Excitation Dynamics of CdTeâˆ•ZnTe Quantum Dots Studied in Picosecond Timescale. , 2010, , .		0
68	Spin conserving inter-dot excitation transfer in a self-assembled system. , 2010, , .		0
69	Picosecond charge variation of quantum dots under pulsed excitation. Physical Review B, 2010, 81, .	1.1	34
70	Dynamics of charge leakage from self-assembled CdTe quantum dots. Applied Physics Letters, 2010, 96, 201905.	1.5	3
71	Brightening of dark excitons in a single CdTe quantum dot containing a single<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msup><mml:mrow><mml:mtext>Mn</mml:mtext></mml:mrow><mml:mrow><mml:mn>2</mml:mn> Physical Review B, 2010, 82, .	1.1	48
72	Optically induced energy and spin transfer in nonresonantly coupled pairs of self-assembled CdTe/ZnTe quantum dots. Physical Review B, 2009, 79, .	1.1	58

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73	Fabrication and luminescence properties of self-assembled CdTe quantum dots embedded in an MnTe matrix. Physical Review B, 2009, 80, .	1.1	5
74	Optical Manipulation of a Single Mn Spin in a CdTe-Based Quantum Dot. Physical Review Letters, 2009, 103, 087401.	2.9	153
75	Fabrication and micro-photoluminescence study of CdMnTe diluted magnetic quantum dots. Journal of Physics: Conference Series, 2009, 146, 012032.	0.3	3
76	Spin-Related Spectroscopy of CdTe-Based Quantum Dots. Acta Physica Polonica A, 2009, 116, 795-799.	0.2	1
77	Anisotropic Exchange Interaction between p-Shell Electron and s-Shell Hole in CdTe/ZnTe Quantum Dots. Acta Physica Polonica A, 2009, 116, 882-884.	0.2	12
78	Emission of Self-Assembled CdTe/ZnTe Quantum Dot Samples with Different Cap Thickness. Acta Physica Polonica A, 2009, 116, 890-892.	0.2	3
79	Control of Local Electric Fields Influencing the Photoluminescence Î¿f an Individual CdTe/ZnTe Quantum Dot. Acta Physica Polonica A, 2009, 116, 896-898.	0.2	1
80	Temperature of a Single Mn Atom in a CdTe Quantum Dot. Acta Physica Polonica A, 2009, 116, 899-900.	0.2	2
81	Numerical Rate Equation Approach to Picosecond Charge State Dynamics in CdTe/ZnTe Quantum Dots. Acta Physica Polonica A, 2009, 116, 893-895.	0.2	0
82	Electrical and optical charging of CdTe quantum dots. Physica Status Solidi C: Current Topics in Solid State Physics, 2008, 5, 2516-2519.	0.8	1
83	Size-dependent magneto-optical effects in CdMnTe diluted magnetic quantum dots. Nanotechnology, 2008, 19, 235403.	1.3	37
84	Inter-Dot Coupling in a Self-Assembled CdTe/ZnTe System. Journal of the Korean Physical Society, 2008, 53, 154-157.	0.3	5
85	Single-Photon Emission from a Highly Excited CdTe Quantum Dot. Acta Physica Polonica A, 2008, 114, 1273-1278.	0.2	0
86	Nanosecond Spin Dynamics in (Cd,Mn)Te Quantum Dots and Quantum Wells. Journal of the Korean Physical Society, 2008, 53, 2963-2966.	0.3	1
87	Manipulating the exciton fine structure of singleCdTeâˆ•ZnTequantum dots by an in-plane magnetic field. Physical Review B, 2007, 75, .	1.1	35
88	Microluminescence fromCd1â^'xMnxTemagnetic quantum dots containing only a few Mn ions. Physical Review B, 2007, 75, .	1.1	58
89	Changing the Properties of the CdTe/ZnTe Quantum Dots by in situ Annealing during the Growth. Acta Physica Polonica A, 2007, 112, 283-288.	0.2	5
90	Inter-Dot Coupling in a Self-Assembled Quantum Dot System. Acta Physica Polonica A, 2007, 112, 321-324.	0.2	4

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91	Determination of the number of Mn ions inside CdMnTe self assembled quantum dots. Physica Status Solidi C: Current Topics in Solid State Physics, 2006, 3, 853-856.	0.8	0
92	Influence of quantum dot density on excitonic transport and recombination in CdZnTe/ZnTe QD structures. Solid State Communications, 2005, 133, 369-373.	0.9	16
93	Transparent p-type ZnO films obtained by oxidation of sputter-deposited Zn3N2. Solid State Communications, 2005, 135, 11-15.	0.9	47
94	p-type conducting ZnO: fabrication and characterisation. Physica Status Solidi C: Current Topics in Solid State Physics, 2005, 2, 1119-1124.	0.8	36
95	Is the (Cd,Mn)Te crystal a prospective material for X-ray and ?-ray detectors?. Physica Status Solidi C: Current Topics in Solid State Physics, 2005, 2, 1578-1585.	0.8	86
96	Topographical, Magnetic and Optical Studies of (II,Mn)VI Quantum Structures Grown on (Ga,Mn)As. Acta Physica Polonica A, 2003, 103, 649-657.	0.2	1