Tomasz Kazimierczuk

List of Publications by Year
in descending order

94	1,761	331259 21	288905 40
papers	citations	h-index	g-index

95	95	95	1672
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Giant Rydberg excitons in the copper oxide Cu2O. Nature, 2014, 514, 343-347.	13.7	273
2	Optical Manipulation of a Single Mn Spin in a CdTe-Based Quantum Dot. Physical Review Letters, 2009, 103, 087401.	2.9	153
3	Slowing hot-carrier relaxation in graphene using a magnetic field. Physical Review B, 2009, 80, .	1.1	94
4	Observation of High Angular Momentum Excitons in Cuprous Oxide. Physical Review Letters, 2015, 115, 027402.	2.9	79
5	Excitation mechanisms of individualCdTeâ•ZnTequantum dots studied by photon correlation spectroscopy. Physical Review B, 2006, 74, .	1.1	73
6	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
7	Tuning Valley Polarization in a<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi>WSe</mml:mi></mml:mrow><mml:mrow><mml:mn>2</mml:mn> with a Tiny Magnetic Field. Physical Review X, 2016, 6, .	2.9	56
8	Magnetic ground state of an individual Fe2+ ion in strained semiconductor nanostructure. Nature Communications, 2016, 7, 10484.	5.8	53
9	Probing and Manipulating Valley Coherence of Dark Excitons in Monolayer <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi>WSe</mml:mi></mml:mrow><mml:mrow><mml:mn>2</mml:mn> Physical Review Letters, 2019, 123, 096803.	2.9	49
10	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:m Physical Review B, 2010, 82, .	1.1	48
11	Dynamics 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 xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow /><mml:mrow><mml:mn>x</mml:mn></mml:mrow></mml:msub>	1.1	44
12	In-plane radiative recombination channel of a dark exciton in self-assembled quantum dots. Physical Review B, 2012, 86, .	1.1	42
13	Magnetophotoluminescence study of intershell exchange interaction in CdTe/ZnTe quantum dots. Physical Review B, 2011, 84, .	1.1	36
14	Narrow Excitonic Lines and Large-Scale Homogeneity of Transition-Metal Dichalcogenide Monolayers Grown by Molecular Beam Epitaxy on Hexagonal Boron Nitride. Nano Letters, 2020, 20, 3058-3066.	4.5	35
15	Excitonic Complexes in n-Doped WS₂ Monolayer. Nano Letters, 2021, 21, 2519-2525.	4.5	35
16	Picosecond charge variation of quantum dots under pulsed excitation. Physical Review B, 2010, 81, .	1.1	34
17	Coherent Precession of an Individual5/2Spin. Physical Review Letters, 2014, 113, 227202.	2.9	31
18	Excitonic complexes in natural InAs/GaAs quantum dots. Physical Review B, 2015, 91, .	1.1	30

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19	Quantum Interference in Exciton-Mn Spin Interactions in a CdTe Semiconductor Quantum Dot. Physical Review Letters, 2011, 107, 207403.	2.9	28
20	Ultra-long-working-distance spectroscopy of single nanostructures with aspherical solid immersion microlenses. Light: Science and Applications, 2020, 9, 48.	7.7	28
21	Micropillar Cavity Containing a CdTe Quantum Dot with a Single Manganese Ion. Crystal Growth and Design, 2014, 14, 988-992.	1.4	23
22	Neutral and charged dark excitons in monolayer WS₂. Nanoscale, 2020, 12, 18153-18159.	2.8	22
23	Influence of interactions with noncondensed particles on the coherence of a one-dimensional polariton condensate. Physical Review B, 2014, 89, .	1.1	21
24	Photon correlation studies of charge variation in a single GaAlAs quantum dot. Physical Review B, 2013, 87, .	1.1	20
25	Quantification of Exciton Fine Structure Splitting in a Two-Dimensional Perovskite Compound. Journal of Physical Chemistry Letters, 2022, 13, 4463-4469.	2.1	20
26	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
27	Strong coupling and polariton lasing in Te based microcavities embedding (Cd,Zn)Te quantum wells. Applied Physics Letters, 2015, 107, .	1.5	19
28	Photon-Statistics Excitation Spectroscopy of a Quantum-Dot Micropillar Laser. Physical Review Letters, 2015, 115, 027401.	2.9	18
29	Probing negatively charged and neutral excitons in MoS₂/hBN and hBN/MoS₂/hBN van der Waals heterostructures. Nanotechnology, 2021, 32, 145717.	1.3	17
30	Optical study of electron-electron exchange interaction in CdTe/ZnTe quantum dots. Physical Review B, 2013, 87, .	1.1	15
31	Growth and optical properties of CdTe quantum dots in ZnTe nanowires. Applied Physics Letters, 2011, 99, 113109.	1.5	14
32	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
33	Influence of exciton spin relaxation on the photoluminescence spectra of semimagnetic quantum dots. Physical Review B, 2013, 87, .	1.1	13
34	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
35	Single-spin optical read-out in CdTe/ZnTe quantum dot studied by photon correlation spectroscopy. Physical Review B, 2008, 77, .	1.1	11
36	Dynamics of nuclear spin polarization induced and detected by coherently precessing electron spins in fluorine-doped ZnSe. Physical Review B, 2016, 93, .	1.1	11

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37	Long-distance coupling and energy transfer between exciton states in magnetically controlled microcavities. Communications Materials, 2020, 1, .	2.9	11
38	Inhomogeneous nuclear spin polarization induced by helicity-modulated optical excitation of fluorine-bound electron spins in ZnSe. Physical Review B, 2015, 92, .	1.1	10
39	The optical response of artificially twisted MoS$$_2$$ bilayers. Scientific Reports, 2021, 11, 17037.	1.6	10
40	Optical Properties of CdTe QDs Formed Using Zn Induced Reorganization. Acta Physica Polonica A, 2011, 119, 627-629.	0.2	10
41	Introducing singleMn2+ions into spontaneously coupled quantum dot pairs. Physical Review B, 2014, 89, .	1.1	9
42	Triple threshold lasing from a photonic trap in a Te/Se-based optical microcavity. Communications Physics, 2019, 2, .	2.0	9
43	Local field effects in ultrafast lightâ€“matter interaction measured by pump-probe spectroscopy of monolayer MoSe‹sub›2‹/sub›. Nanophotonics, 2021, 10, 2717-2728.	2.9	9
44	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
45	Magnetic field induced polarization enhancement in monolayers of tungsten dichalcogenides: effects of temperature. 2D Materials, 2018, 5, 015023.	2.0	8
46	Single-photon emission from the natural quantum dots in the InAs/GaAs wetting layer. Physical Review B, 2011, 84, .	1.1	7
47	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
48	Optical Study of ZnTe-Based 2D and 0D Photonic Structures Containing CdTe/ZnTe Quantum Dots. Acta Physica Polonica A, 2009, 116, 888-889.	0.2	7
49	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
50	Fine structure of a resonantly excitedp-shell exciton in a CdTe quantum dot. Physical Review B, 2016, 93, .	1.1	6
51	Fine structure of an exciton coupled to a single Fe2+ ion in a CdSe/ZnSe quantum dot. Physical Review B, 2017, 96, .	1.1	6
52	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
53	Semiconductor heterostructures for spintronics and quantum information. Comptes Rendus Physique, 2007, 8, 243-252.	0.3	5
54	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

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55	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
56	Polariton lasing and energy-degenerate parametric scattering in non-resonantly driven coupled planar microcavities. Nanophotonics, 2021, 10, 2421-2429.	2.9	5
57	Inter-Dot Coupling in a Self-Assembled CdTe/ZnTe System. Journal of the Korean Physical Society, 2008, 53, 154-157.	0.3	5
58	The effect of dielectric environment on the brightening of neutral and charged dark excitons in WSe2 monolayer. Applied Physics Letters, 2022, 120, .	1.5	5
59	Excitation of complex spin dynamics patterns in a quantum-dot electron spin ensemble. Physical Review B, 2014, 90, .	1.1	4
60	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
61	Time-resolved magneto-Raman study of carrier dynamics in low Landau levels of graphene. Physical Review B, 2019, 100, .	1.1	4
62	Ultraslow Spin Relaxation Dynamics in Colloidal Copper-Doped CdSe Quantum Dots. Journal of Physical Chemistry C, 2020, 124, 1042-1052.	1.5	4
63	Polarization and magneto-optical properties of excitonic emission from wurtzite CdTe/(Cd,Mg)Te core/shell nanowires. Nanotechnology, 2020, 31, 215710.	1.3	4
64	Inter-Dot Coupling in a Self-Assembled Quantum Dot System. Acta Physica Polonica A, 2007, 112, 321-324.	0.2	4
65	Control of Photon Polarization in GaAs/AlAs Single Quantum Dot Emission. Acta Physica Polonica A, 2007, 112, 461-466.	0.2	4
66	Dynamics of charge leakage from self-assembled CdTe quantum dots. Applied Physics Letters, 2010, 96, 201905.	1.5	3
67	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
68	Properties of Excitons in Quantum Dots with a Weak Confinement. Acta Physica Polonica A, 2013, 124, 781-784.	0.2	2
69	Carrier relaxation to quantum emitters in few-layer <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>WSe</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:math> Physical Review B, 2020, 102, .	1.1	2
70	Spin glass behavior and colossal negative magnetoresistance of the pâ^'Zn1â^'xMnxTe strongly doped with phosphorus. Physical Review B, 2020, 101, .	1.1	2
71	Statistical Study of the Inter-Dot Excitation Transfer in CdTe/ZnTe Quantum Dots. Acta Physica Polonica A, 2011, 120, 880-882.	0.2	2
72	Spin in CdTe/ZnTe Quantum Dot: Its Potential for Information Storage. Acta Physica Polonica A, 2009, 116, S-13-S-18.	0.2	2

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73	Spin Dynamics of a Single Mn Ion in a CdTeâˆ•(Cd, Mg, Zn)Te Quantum Dot. , 2010, , .		1
74	Nuclear spin dynamics influenced and detected by electron spin polarization in CdTe/(Cd,Mg)Te quantum wells. Physical Review B, 2019, 99, .	1.1	1
75	Charged Exciton Dissociation Energy in (Cd,Mn)Te Quantum Wells with Variable Disorder and Carrier Density. Journal of Electronic Materials, 2020, 49, 4512-4517.	1.0	1
76	Spin-Related Spectroscopy of CdTe-Based Quantum Dots. Acta Physica Polonica A, 2009, 116, 795-799.	0.2	1
77	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
78	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
79	Valley pseudospin relaxation of charged excitons in monolayer MoTe2. Journal of Physics Condensed Matter, 2021, 33, 025701.	0.7	1
80	Single photon correlation measurements in a study of excitation process of individual CdTe/ZnTe quantum dots. Physica Status Solidi C: Current Topics in Solid State Physics, 2006, 3, 3802-3805.	0.8	0
81	Polarization Dependent Correlations of Single Photons from CdTe/ZnTe Quantum Dots. AIP Conference Proceedings, 2007, , .	0.3	0
82	Spin-dependent dynamics of individual CdTe/ZnTe quantum dot states studied by correlation spectroscopy. , 2007, , .		0
83	Picosecond scale dynamics of excitons in CdTe-based quantum wells and quantum dots. Proceedings of SPIE, 2009, , .	0.8	0
84	Excitation Dynamics of CdTeâˆ•ZnTe Quantum Dots Studied in Picosecond Timescale. , 2010, , .		0
85	Spin conserving inter-dot excitation transfer in a self-assembled system. , 2010, , .		0
86	Influence of interactions with non-condensed particles on the coherence of a 1D polariton condensate. , 2014, , .		0
87	Readout of a dopant spin in the anisotropic quantum dot with a single magnetic ion. Journal of Physics Condensed Matter, 2019, 31, 455301.	0.7	0
88	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
89	Influence of copper dopants on the photoluminescence of single CdTe quantum dots. Journal of Applied Physics, 2020, 127, 024306.	1.1	0
90	Spin and symmetry in optical studies of individual semiconductor quantum dots. , 2008, , .		0

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91	Single-Photon Emission from a Highly Excited CdTe Quantum Dot. Acta Physica Polonica A, 2008, 114, 1273-1278.	0.2	0
92	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
93	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
94	Single-Mode-Fiber-Based Mach-Zehnder Interferometer Setup for Correlation Measurements for Single CdTe/ZnTe Quantum Dots. Acta Physica Polonica A, 2017, 132, 379-382.	0.2	0