

# Marcin Syperek

## List of Publications by Citations

**Source:** <https://exaly.com/author-pdf/4914242/marcin-syperek-publications-by-citations.pdf>

**Version:** 2024-04-27

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

73  
papers

898  
citations

18  
h-index

26  
g-index

85  
ext. papers

1,017  
ext. citations

3.2  
avg, IF

3.55  
L-index

#	Paper	IF	Citations
73	Spin coherence of holes in GaAs/(Al,Ga)As quantum wells. <i>Physical Review Letters</i> , <b>2007</b> , 99, 187401	7.4	63
72	Controlled synthesis of tuned bandgap nanodimensional alloys of PbS(x)Se(1-x). <i>Journal of the American Chemical Society</i> , <b>2011</b> , 133, 5602-9	16.4	54
71	Carrier localization in GaBiAs probed by photomodulated transmittance and photoluminescence. <i>Journal of Applied Physics</i> , <b>2009</b> , 106, 023518	2.5	54
70	Photoluminescence from GaN nanopowder: The size effect associated with the surface-to-volume ratio. <i>Applied Physics Letters</i> , <b>2006</b> , 88, 181916	3.4	41
69	Optically pumped 500 nm InGaN green lasers grown by plasma-assisted molecular beam epitaxy. <i>Journal of Applied Physics</i> , <b>2011</b> , 110, 063110	2.5	39
68	Contactless electromodulation spectroscopy of AlGaInGaN heterostructures with a two-dimensional electron gas: A comparison of photoreflectance and contactless electroreflectance. <i>Journal of Applied Physics</i> , <b>2006</b> , 100, 013501	2.5	36
67	Single photon emission at 1.55 eV from charged and neutral exciton confined in a single quantum dash. <i>Applied Physics Letters</i> , <b>2014</b> , 105, 021909	3.4	33
66	Long-lived electron spin coherence in CdSe/Zn(S,Se) self-assembled quantum dots. <i>Physical Review B</i> , <b>2011</b> , 84,	3.3	32
65	Exciton and biexciton dynamics in single self-assembled InAs/InGaAlAs/InP quantum dash emitting near 1.55 eV. <i>Applied Physics Letters</i> , <b>2013</b> , 103, 253113	3.4	26
64	Single-photon emission of InAs/InP quantum dashes at 1.55 eV and temperatures up to 80 K. <i>Applied Physics Letters</i> , <b>2016</b> , 108, 163108	3.4	26
63	Influence of electronic coupling on the radiative lifetime in the (In,Ga)As/GaAs quantum dot/quantum well system. <i>Physical Review B</i> , <b>2012</b> , 85,	3.3	25
62	Room temperature free carrier tunneling in dilute nitride based quantum well - quantum dot tunnel injection system for 1.3 eV. <i>Applied Physics Letters</i> , <b>2009</b> , 94, 171906	3.4	23
61	Carrier dynamics between delocalized and localized states in type-II GaAsSb/GaAs quantum wells. <i>Applied Physics Letters</i> , <b>2011</b> , 98, 061910	3.4	22
60	Carrier relaxation dynamics in InAs/GaInAsP/InP(001) quantum dashes emitting near 1.55 eV. <i>Applied Physics Letters</i> , <b>2013</b> , 103, 083104	3.4	21
59	Magnetic field control of the neutral and charged exciton fine structure in single quantum dashes emitting at 1.55 eV. <i>Applied Physics Letters</i> , <b>2015</b> , 106, 053114	3.4	20
58	Influence of Pressure-Induced Transition from Nanocrystals to Nanoceramic Form on Optical Properties of Ce-Doped Y3Al5O12. <i>Journal of the American Ceramic Society</i> , <b>2011</b> , 94, 2135-2140	3.8	19
57	Exciton lifetime and emission polarization dispersion in strongly in-plane asymmetric nanostructures. <i>Physical Review B</i> , <b>2017</b> , 96,	3.3	18

56	Impact of wetting-layer density of states on the carrier relaxation process in low indium content self-assembled (In,Ga)As/GaAs quantum dots. <i>Physical Review B</i> , <b>2013</b> , 87,	3-3	18
55	Investigations of GaN surface quantum well in AlGaIn/GaN transistor heterostructures by contactless electroreflectance spectroscopy. <i>Applied Physics Letters</i> , <b>2006</b> , 89, 231912	3-4	18
54	Ghost Branch Photoluminescence From a Polariton Fluid Under Nonresonant Excitation. <i>Physical Review Letters</i> , <b>2015</b> , 115, 186401	7-4	17
53	Dynamics of localized excitons in Ga <sub>0.69</sub> In <sub>0.31</sub> N <sub>0.015</sub> As <sub>0.985</sub> /GaAs quantum well: Experimental studies and Monte-Carlo simulations. <i>Applied Physics Letters</i> , <b>2012</b> , 100, 202105	3-4	16
52	High-Purity Triggered Single-Photon Emission from Symmetric Single InAs/InP Quantum Dots around the Telecom C-Band Window. <i>Advanced Quantum Technologies</i> , <b>2020</b> , 3, 1900082	4-3	16
51	Influence of non-radiative recombination on photoluminescence decay time in GaInNAs quantum wells with Ga- and In-rich environments of nitrogen atoms. <i>Journal of Applied Physics</i> , <b>2012</b> , 111, 063514	2-5	13
50	Screening effect in contactless electroreflectance spectroscopy observed for AlGaIn/GaN heterostructures with two dimensional electron gas. <i>Thin Solid Films</i> , <b>2007</b> , 515, 4662-4665	2-2	13
49	Photoreflectance investigations of a donor-related transition in AlGaIn/GaN transistor structures. <i>Applied Physics Letters</i> , <b>2005</b> , 87, 153502	3-4	13
48	Time-resolved photoluminescence spectroscopy of an InGaAs/GaAs quantum well-quantum dots tunnel injection structure. <i>Applied Physics Letters</i> , <b>2010</b> , 96, 011901	3-4	12
47	Time-resolved photoluminescence studies of annealed 1.3- $\mu$ m GaInNAsSb quantum wells. <i>Nanoscale Research Letters</i> , <b>2014</b> , 9, 81	5	11
46	Growth and characterization of InGaIn for photovoltaic devices. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , <b>2011</b> , 8, 2460-2462		11
45	Carrier delocalization in InAs/InGaAlAs/InP quantum-dash-based tunnel injection system for 1.55 $\mu$ m emission. <i>AIP Advances</i> , <b>2017</b> , 7, 015117	1-5	10
44	Optical and electronic properties of low-density InAs/InP quantum-dot-like structures designed for single-photon emitters at telecom wavelengths. <i>Physical Review B</i> , <b>2020</b> , 101,	3-3	9
43	Electron and hole spins in InP/(Ga,In)P self-assembled quantum dots. <i>Physical Review B</i> , <b>2012</b> , 86,	3-3	9
42	Confinement regime in self-assembled InAs/InAlGaAs/InP quantum dashes determined from exciton and biexciton recombination kinetics. <i>Applied Physics Letters</i> , <b>2017</b> , 111, 253106	3-4	8
41	Single photon emission in the red spectral range from a GaAs-based self-assembled quantum dot. <i>Applied Physics Letters</i> , <b>2012</b> , 101, 103108	3-4	8
40	Exciton spin relaxation in InAs/InGaAlAs/InP(001) quantum dashes emitting near 1.55 $\mu$ m. <i>Applied Physics Letters</i> , <b>2016</b> , 109, 193108	3-4	8
39	Carrier dynamics in type-II GaAsSb/GaAs quantum wells. <i>Journal of Physics Condensed Matter</i> , <b>2012</b> , 24, 185801	1-8	7

38	Photoreflectance investigations of AlGaIn/GaN heterostructures with a two dimensional electron gas. <i>Superlattices and Microstructures</i> , <b>2004</b> , 36, 633-641	2.8	7
37	Control of Dynamic Properties of InAs/InAlGaAs/InP Hybrid Quantum Well-Quantum Dot Structures Designed as Active Parts of 1.55 $\mu\text{m}$ Emitting Lasers. <i>Physica Status Solidi (A) Applications and Materials Science</i> , <b>2018</b> , 215, 1700455	1.6	7
36	Lateral carrier diffusion in InGaAs/GaAs coupled quantum dot-quantum well system. <i>Applied Physics Letters</i> , <b>2017</b> , 110, 221104	3.4	6
35	Influence of quantum well inhomogeneities on absorption, spontaneous emission, photoluminescence decay time, and lasing in polar InGaIn quantum wells emitting in the blue-green spectral region. <i>Applied Physics A: Materials Science and Processing</i> , <b>2014</b> , 115, 1015-1023	2.6	6
34	Carrier relaxation bottleneck in type-II InAs/InGaAlAs/InP(001) coupled quantum dots-quantum well structure emitting at 1.55 $\mu\text{m}$ . <i>Applied Physics Letters</i> , <b>2018</b> , 112, 221901	3.4	6
33	Single photon emission up to liquid nitrogen temperature from charged excitons confined in GaAs-based epitaxial nanostructures. <i>Applied Physics Letters</i> , <b>2015</b> , 106, 233107	3.4	5
32	Carrier transfer efficiency and its influence on emission properties of telecom wavelength InP-based quantum dot - quantum well structures. <i>Scientific Reports</i> , <b>2018</b> , 8, 12317	4.9	5
31	Relaxation Oscillations and Ultrafast Emission Pulses in a Disordered Expanding Polariton Condensate. <i>Scientific Reports</i> , <b>2017</b> , 7, 7094	4.9	5
30	Time-resolved photoluminescence studies of the optical quality of InGaIn/GaN multi-quantum well grown by MOCVD—antimony surfactant effect. <i>Semiconductor Science and Technology</i> , <b>2012</b> , 27, 105027	1.8	5
29	Optical and Electronic Properties of Symmetric InAs/(In,Al,Ga)As/InP Quantum Dots Formed by Ripening in Molecular Beam Epitaxy: A Potential System for Broad-Range Single-Photon Telecom Emitters. <i>Physical Review Applied</i> , <b>2020</b> , 14,	4.3	4
28	Enhancement of photoluminescence from GaInNAsSb quantum wells upon annealing: improvement of material quality and carrier collection by the quantum well. <i>Journal of Physics Condensed Matter</i> , <b>2013</b> , 25, 065801	1.8	4
27	Time resolved photoluminescence of In(N)As quantum dots embedded in GaIn(N)As/GaAs quantum well. <i>Applied Physics Letters</i> , <b>2010</b> , 96, 041911	3.4	4
26	Contactless electroreflectance, photoluminescence and time-resolved photoluminescence of GaInNAs quantum wells obtained by the MBE method with N-irradiation. <i>Semiconductor Science and Technology</i> , <b>2011</b> , 26, 045012	1.8	4
25	Optical investigations of two dimensional electron gas in the AlGaIn/GaN heterostructures. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , <b>2004</b> , 1, 378-381		4
24	Investigations of AlGaIn/GaN field-effect transistor structures by photoreflectance spectroscopy. <i>Microelectronics Journal</i> , <b>2005</b> , 36, 442-445	1.8	4
23	Theoretical simulations of radiative recombination time in polar InGaIn quantum wells. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , <b>2011</b> , 8, 2273-2275		3
22	Monte Carlo Simulations of the Influence of Localization Centres on Carrier Dynamics in GaInNAs Quantum Wells. <i>Acta Physica Polonica A</i> , <b>2012</b> , 122, 1022-1025	0.6	3
21	Synthesis and systematic optical investigation of selective area droplet epitaxy of InAs/InP quantum dots assisted by block copolymer lithography. <i>Optical Materials Express</i> , <b>2019</b> , 9, 1738	2.6	3

20	Collective Excitations of Exciton-Polariton Condensates in a Synthetic Gauge Field. <i>Physical Review Letters</i> , <b>2021</b> , 127, 185301	7.4	3
19	Optical properties and energy transfer in InGaAsN quantum well $\text{InAs}$ quantum dots tunnel injection structures for 1.3 $\mu\text{m}$ emission. <i>Physica Status Solidi (A) Applications and Materials Science</i> , <b>2009</b> , 206, 826-829	1.6	2
18	Excitonic complexes in InGaAs/GaAs quantum dash structures. <i>Journal of Physics: Conference Series</i> , <b>2010</b> , 245, 012054	0.3	2
17	Spin Coherence of Holes in GaAs/AlGaAs Quantum Wells. <i>AIP Conference Proceedings</i> , <b>2007</b> ,	0	2
16	Photoreflectance study of p-type GaN layers. <i>Superlattices and Microstructures</i> , <b>2004</b> , 36, 643-649	2.8	2
15	Room Temperature Carrier Kinetics in the W-type GaInAsSb/InAs/AlSb Quantum Well Structure Emitting in Mid-Infrared Spectral Range. <i>Acta Physica Polonica A</i> , <b>2016</b> , 130, 1224-1228	0.6	2
14	Observation of gain-pinned dissipative solitons in a microcavity laser. <i>APL Photonics</i> , <b>2020</b> , 5, 086103	5.2	2
13	Multiphoton fluorescence excitation and detection with a single negative curvature hollow core fibre. <i>Laser Physics Letters</i> , <b>2019</b> , 16, 015103	1.5	2
12	Optical Properties of Site-Selectively Grown InAs/InP Quantum Dots with Predefined Positioning by Block Copolymer Lithography. <i>Materials</i> , <b>2021</b> , 14,	3.5	2
11	The issue of 0D-like ground state isolation in GaAs- and InP-based coupled quantum dots-quantum well systems. <i>Journal of Physics: Conference Series</i> , <b>2017</b> , 906, 012019	0.3	1
10	Carrier Dynamics and Dynamic Band-Bending in Type-II ZnTe/ZnSe Quantum Dots. <i>Acta Physica Polonica A</i> , <b>2013</b> , 124, 821-823	0.6	1
9	Growth and characterization of ingan for photovoltaic devices <b>2010</b> ,		1
8	Optical properties and dynamics of excitons in Ga(Sb, Bi)/GaSb quantum wells: evidence for a regular alloy behavior. <i>Semiconductor Science and Technology</i> , <b>2020</b> , 35, 025024	1.8	1
7	Carrier Dynamics in Thin Germanium $\text{In}$ Epilayers. <i>ACS Applied Electronic Materials</i> , <b>2021</b> , 3, 344-352	4	1
6	Below bandgap transitions in an AlGaIn/GaN transistor heterostructure observed by photoreflectance spectroscopy. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , <b>2006</b> , 3, 2117-2120 <sup>o</sup>		
5	Lateral interdot coupling among dense ensemble of InAs quantum dots grown on InP substrate observed at cryogenic temperatures. <i>Journal of Physics: Conference Series</i> , <b>2017</b> , 906, 012008	0.3	
4	Time Resolved Photoluminescence Study of the Wide (Cd,Mn)Te/(Cd,Mg)Te Quantum Well. <i>Acta Physica Polonica A</i> , <b>2013</b> , 124, 895-897	0.6	
3	Tunnel injection structures based on InGaAs/GaAs quantum dots: optical properties and energy structure. <i>Journal of Physics: Conference Series</i> , <b>2010</b> , 245, 012047	0.3	

2 Investigation of built-in electric fields in AlGaIn/GaN heterostructures grown on misoriented 4H-SiC substrate by contactless electroreflectance. *Physica Status Solidi C: Current Topics in Solid State Physics*, **2007**, 4, 366-368

1 Study of the activation process of Mg dopant in GaN:Mg layers. *Physica Status Solidi C: Current Topics in Solid State Physics*, **2006**, 3, 579-584