

# Beata Kardynal

## List of Publications by Citations

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

76  
papers

2,561  
citations

22  
h-index

50  
g-index

82  
ext. papers

2,835  
ext. citations

4.8  
avg, IF

4.43  
L-index

#	Paper	IF	Citations
76	Electrically driven single-photon source. <i>Science</i> , <b>2002</b> , 295, 102-5	33.3	934
75	High speed single photon detection in the near infrared. <i>Applied Physics Letters</i> , <b>2007</b> , 91, 041114	3.4	195
74	An avalanche-photodiode-based photon-number-resolving detector. <i>Nature Photonics</i> , <b>2008</b> , 2, 425-428	33.9	171
73	Efficient single photon detection by quantum dot resonant tunneling diodes. <i>Physical Review Letters</i> , <b>2005</b> , 94, 067401	7.4	114
72	Quantum dots as a photon source for passive quantum key encoding. <i>Physical Review B</i> , <b>2002</b> , 66,	3.3	114
71	Magnetic interactions within patterned cobalt nanostructures using off-axis electron holography. <i>Journal of Applied Physics</i> , <b>1998</b> , 84, 374-378	2.5	85
70	Off-axis electron holography of patterned magnetic nanostructures. <i>Journal of Microscopy</i> , <b>2000</b> , 200, 187-205	1.9	58
69	Switching asymmetries in closely coupled magnetic nanostructure arrays. <i>Applied Physics Letters</i> , <b>1999</b> , 75, 2641-2643	3.4	58
68	Engineering of optical and electronic band gaps in transition metal dichalcogenide monolayers through external dielectric screening. <i>Physical Review Materials</i> , <b>2017</b> , 1,	3.2	55
67	In situ transmission electron microscopy of light-induced photocatalytic reactions. <i>Nanotechnology</i> , <b>2012</b> , 23, 075705	3.4	45
66	Quantum dot resonant tunneling diode for telecommunication wavelength single photon detection. <i>Applied Physics Letters</i> , <b>2007</b> , 91, 073516	3.4	39
65	Understanding the effect of surface chemistry on charge generation and transport in poly (3-hexylthiophene)/CdSe hybrid solar cells. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2011</b> , 3, 287-92	9.5	38
64	Photon number resolving detector based on a quantum dot field effect transistor. <i>Applied Physics Letters</i> , <b>2007</b> , 90, 181114	3.4	38
63	Magnetotunneling spectroscopy of one-dimensional wires. <i>Physical Review B</i> , <b>1997</b> , 55, R1966-R1969	3.3	37
62	Quasi 2D electronic states with high spin-polarization in centrosymmetric MoS2 bulk crystals. <i>Scientific Reports</i> , <b>2016</b> , 6, 26197	4.9	28
61	Resonant Rayleigh scattering by excitonic states laterally confined in the interface roughness of GaAs/AlxGa1-xAs single quantum wells. <i>Physical Review B</i> , <b>1997</b> , 55, 13752-13760	3.3	27
60	Low-noise photon counting with a radio-frequency quantum-dot field-effect transistor. <i>Applied Physics Letters</i> , <b>2004</b> , 84, 419-421	3.4	25

59	Interlayer coupling within individual submicron magnetic elements. <i>Journal of Applied Physics</i> , <b>2000</b> , 87, 7400-7404	2.5	25
58	Understanding the role of single molecular ZnS precursors in the synthesis of In(Zn)P/ZnS nanocrystals. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2014</b> , 6, 18233-42	9.5	23
57	Facile in situ synthesis of stable luminescent organic-inorganic lead halide perovskite nanoparticles in a polymer matrix. <i>Journal of Materials Chemistry C</i> , <b>2017</b> , 5, 7207-7214	7.1	23
56	Photon absorption and photocurrent in solar cells below semiconductor bandgap due to electron photoemission from plasmonic nanoantennas. <i>Progress in Photovoltaics: Research and Applications</i> , <b>2014</b> , 22, 422-426	6.8	23
55	Metal-insulator oscillations in a two-dimensional electron-hole system. <i>Physical Review Letters</i> , <b>2000</b> , 85, 2364-7	7.4	23
54	Effect of Zinc Incorporation on the Performance of Red Light Emitting InP Core Nanocrystals. <i>Inorganic Chemistry</i> , <b>2016</b> , 55, 8381-6	5.1	22
53	Effect of InAs dots on noise of quantum dot resonant tunneling single-photon detectors. <i>Applied Physics Letters</i> , <b>2006</b> , 89, 153510	3.4	22
52	Ion-beam modification of 2-D materials - single implant atom analysis via annular dark-field electron microscopy. <i>Ultramicroscopy</i> , <b>2017</b> , 176, 31-36	3.1	19
51	Finite element simulations of electrostatic dopant potentials in thin semiconductor specimens for electron holography. <i>Ultramicroscopy</i> , <b>2013</b> , 134, 160-6	3.1	19
50	Quantum dot resonant tunneling diode single photon detector with aluminum oxide aperture defined tunneling area. <i>Applied Physics Letters</i> , <b>2008</b> , 93, 153503	3.4	19
49	Off-axis electron holography of exchange-biased CoFe/FeMn patterned nanostructures. <i>Journal of Applied Physics</i> , <b>2001</b> , 90, 2899-2902	2.5	19
48	Quantitative measurement of mean inner potential and specimen thickness from high-resolution off-axis electron holograms of ultra-thin layered WSe. <i>Ultramicroscopy</i> , <b>2017</b> , 178, 38-47	3.1	18
47	Direct measurement of the band structure of a one-dimensional surface superlattice. <i>Physical Review Letters</i> , <b>1996</b> , 76, 3802-3805	7.4	16
46	Absolute Scale Quantitative Off-Axis Electron Holography at Atomic Resolution. <i>Physical Review Letters</i> , <b>2018</b> , 120, 156101	7.4	15
45	Excitons in InGaAs quantum dots without electron wetting layer states. <i>Communications Physics</i> , <b>2019</b> , 2,	5.4	15
44	Visibility of two-dimensional layered materials on various substrates. <i>Journal of Applied Physics</i> , <b>2015</b> , 118, 145305	2.5	14
43	Equivalent Circuit Modeling of the Ag   As <sub>0.24</sub> S 0.36Ag <sub>0.40</sub>   Ag System Prepared by Photodissolution of Ag. <i>Journal of the Electrochemical Society</i> , <b>1998</b> , 145, 2971-2974	3.9	14
42	Quantitative Agreement between Electron-Optical Phase Images of WSe <sub>2</sub> and Simulations Based on Electrostatic Potentials that Include Bonding Effects. <i>Physical Review Letters</i> , <b>2017</b> , 118, 086101	7.4	13

41	Insulating states of a broken-gap two-dimensional electron-hole system. <i>Physical Review B</i> , <b>2003</b> , 68,	3.3	11
40	Vapor transport growth of MoS <sub>2</sub> nucleated on SiO <sub>2</sub> patterns and graphene flakes. <i>Nano Research</i> , <b>2016</b> , 9, 3504-3514	10	11
39	Site-Controlled Quantum Emitters in Monolayer MoSe. <i>Nano Letters</i> , <b>2021</b> , 21, 2376-2381	11.5	10
38	Temperature dependent recombination dynamics in InP/ZnS colloidal nanocrystals. <i>Applied Physics Letters</i> , <b>2012</b> , 101, 091910	3.4	9
37	Experimental observation of a negative grey trion in an electron-rich WSe monolayer. <i>Journal of Physics Condensed Matter</i> , <b>2019</b> , 31, 415701	1.8	8
36	Evolution and characteristics of GaN nanowires produced via maskless reactive ion etching. <i>Nanotechnology</i> , <b>2014</b> , 25, 255301	3.4	8
35	Breakdown of the quantum Hall effect in an electron-hole system. <i>Physica B: Condensed Matter</i> , <b>2001</b> , 298, 8-12	2.8	8
34	Detection of single photons using a field effect transistor with a layer of quantum dots. <i>Measurement Science and Technology</i> , <b>2002</b> , 13, 1721-1726	2	8
33	Origin of low quantum efficiency of photoluminescence of InP/ZnS nanocrystals. <i>Journal of Luminescence</i> , <b>2014</b> , 145, 936-939	3.8	7
32	Generation of single photons using semiconductor quantum dots <b>2002</b> , 111-146		7
31	The role of ion exchange in the passivation of In(Zn)P nanocrystals with ZnS. <i>Scientific Reports</i> , <b>2016</b> , 6, 22818	4.9	7
30	Broadband infrared absorption enhancement by electroless-deposited silver nanoparticles. <i>Nanophotonics</i> , <b>2017</b> , 6, 289-297	6.3	6
29	Transfer of a quantum state from a photonic qubit to a gate-defined quantum dot. <i>Physical Review B</i> , <b>2019</b> , 99,	3.3	5
28	Self-assembled quantum dots as a source of single photons and photon pairs. <i>Physica Status Solidi (B): Basic Research</i> , <b>2003</b> , 238, 353-359	1.3	5
27	Equilibrium tunneling between two-dimensional and quasi-one-dimensional electron gases in devices fabricated by in situ focused ion beam lithography. <i>Applied Physics Letters</i> , <b>1996</b> , 68, 826-828	3.4	5
26	Interplay of excitonic complexes in p-doped WSe <sub>2</sub> monolayers. <i>Physical Review B</i> , <b>2020</b> , 101,	3.3	4
25	Capture dynamics of hot electrons on quantum dots in RTDs studied by noise measurement. <i>New Journal of Physics</i> , <b>2008</b> , 10, 013027	2.9	4
24	Photon-induced conductance steps and in situ modulation of disorder in mesoscopic electron systems. <i>Physical Review B</i> , <b>2004</b> , 70,	3.3	4

23	Tunneling spectroscopy of a two-dimensionally periodic electron system. <i>Physical Review Letters</i> , <b>2002</b> , 89, 146803	7.4	3
22	New Single Photon Sources by Optoelectronic Tailoring of 2D Materials Using Low Energy Ion Implantation. <i>Microscopy and Microanalysis</i> , <b>2020</b> , 26, 2832-2833	0.5	2
21	Resonance Energy Transfer in Hybrid Devices in the Presence of a Surface. <i>Journal of Physical Chemistry C</i> , <b>2014</b> , 118, 16284-16289	3.8	2
20	Effect of GaN cap thickness on carrier dynamics in InGaN quantum wells. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , <b>2012</b> , 9, 727-729		2
19	MOCVD growth and characterization of near-surface InGaN/GaN single quantum wells for non-radiative coupling of optical excitations. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , <b>2012</b> , 9, 1667-1669		2
18	Single electron dynamics in a quantum dot field effect transistor. <i>Applied Physics Letters</i> , <b>2006</b> , 89, 1135034	3.4	2
17	Single-photon detection mechanism in a quantum dot transistor. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , <b>2005</b> , 26, 356-360	3	2
16	Edge effects in an insulating state of an electron-hole system in magnetic field. <i>Physica B: Condensed Matter</i> , <b>2001</b> , 298, 28-32	2.8	2
15	In Situ Transmission Electron Microscopy Observations of Silicidation Processes for Cobalt Thin Films Deposited on Silicon. <i>Microscopy and Microanalysis</i> , <b>1998</b> , 4, 317-324	0.5	2
14	Introduction to the Physics of Quantum Dots. <i>Acta Physica Polonica A</i> , <b>2001</b> , 100, 275-286	0.6	2
13	Dense, Regular GaAs Nanowire Arrays by Catalyst-Free Vapor Phase Epitaxy for Light Harvesting. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 22484-92	9.5	2
12	Design and geometry of hybrid white light-emitted diodes for efficient energy transfer from the quantum well to the nanocrystals <b>2013</b> ,		1
11	The investigation of 1D and 2D phenomena using double-layer electron systems. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , <b>1998</b> , 3, 52-57	3	1
10	Experimental determination of spectral densities in quasi-one-dimensional electron systems. <i>Physica B: Condensed Matter</i> , <b>1998</b> , 249-251, 175-179	2.8	1
9	Current-driven breakdown of the quantized Hall states of a broken-gap 2D electron-hole system. <i>Semiconductor Science and Technology</i> , <b>2006</b> , 21, 1758-1763	1.8	1
8	Optimisation of quantum dot resonant tunnelling diodes for fibre wavelength detection. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , <b>2006</b> , 3, 4035-4038		1
7	The quantum Hall effect in an InAs/GaSb based electron-hole system and its current-driven breakdown. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , <b>2002</b> , 12, 161-164	3	1
6	A digital quantum Hall effect. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , <b>2000</b> , 6, 836-839	3	1

5	Magnetotransport studies of antidot superlattices in coupled two-dimensional electron hole gases. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , <b>2002</b> , 12, 293-295	3
4	Application of chemically enhanced vapour etching in the fabrication on nanostructures. <i>Semiconductor Science and Technology</i> , <b>1998</b> , 13, A63-A66	1.8
3	A novel nanoscale resist using 10-undecanoic acid monolayers on silicon dioxide. <i>Microelectronic Engineering</i> , <b>1999</b> , 47, 239-241	2.5
2	Controlled Functionalisation of 2-D Materials for Quantum Device Development: assessment of Single Atom Behaviour via Atomic Resolution Electron Microscopy and Spectroscopy. <i>Microscopy and Microanalysis</i> , <b>2020</b> , 26, 2558-2559	0.5
1	Converting single photons from an InAs/GaAs quantum dot into the ultraviolet: preservation of second-order correlations.. <i>Optics Letters</i> , <b>2022</b> , 47, 1778-1781	3