

# Jacek Szczytko

## List of Publications by Year in descending order

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102  
papers

2,263  
citations

218592

26  
h-index

233338

45  
g-index

102  
all docs

102  
docs citations

102  
times ranked

2413  
citing authors

#	ARTICLE	IF	CITATIONS
1	Magnetic and optical properties of GaMnN magnetic semiconductor. Applied Physics Letters, 2001, 78, 1276-1278.	1.5	183
2	Antiferromagnetic p-d exchange in ferromagnetic Ga <sub>1-x</sub> MnxAs epilayers. Physical Review B, 1999, 59, 12935-12939.	1.1	145
3	Direct Observation of the Mott Transition in an Optically Excited Semiconductor Quantum Well. Physical Review Letters, 2005, 94, 147403.	2.9	111
4	Mn impurity in Ga <sub>1-x</sub> MnxAs epilayers. Physical Review B, 1999, 60, 8304-8308.	1.1	105
5	Structure and magnetic properties of carbon encapsulated Fe nanoparticles obtained by arc plasma and combustion synthesis. Carbon, 2008, 46, 1693-1701.	5.4	98
6	Determination of the Exciton Formation in Quantum Wells from Time-Resolved Interband Luminescence. Physical Review Letters, 2004, 93, 137401.	2.9	96
7	Engineering spin-orbit synthetic Hamiltonians in liquid-crystal optical cavities. Science, 2019, 366, 727-730.	6.0	93
8	The s,p-d exchange interaction in GaAs heavily doped with Mn. Solid State Communications, 1996, 99, 927-931.	0.9	83
9	Adsorption of Doxorubicin onto Citrate-Stabilized Magnetic Nanoparticles. Journal of Physical Chemistry C, 2012, 116, 5598-5609.	1.5	58
10	Substituent-Dependent Magnetic Behavior of Discotic Benzo[1,2,4]triazinyls. Journal of the American Chemical Society, 2016, 138, 9421-9424.	6.6	58
11	Photoconductive Liquid-Crystalline Derivatives of 6-Oxoverdazyl. Journal of the American Chemical Society, 2012, 134, 2465-2468.	6.6	46
12	Large scale continuous synthesis of carbon-encapsulated magnetic nanoparticles. Nanotechnology, 2007, 18, 145608.	1.3	45
13	Tunable optical spin Hall effect in a liquid crystal microcavity. Light: Science and Applications, 2018, 7, 74.	7.7	44
14	Yttrium-Doped Iron Oxide Nanoparticles for Magnetic Hyperthermia Applications. Journal of Physical Chemistry C, 2020, 124, 6871-6883.	1.5	44
15	Optical absorption in random media: Application to Ga <sub>1-x</sub> MnxAs epilayers. Physical Review B, 2001, 64, .	1.1	43
16	Structure and magnetism of MnAs nanocrystals embedded in GaAs as a function of post-growth annealing temperature. Journal of Applied Physics, 2007, 101, 113912.	1.1	43
17	Optical Properties of Molybdenum Disulfide (MoS <sub>2</sub> ). Acta Physica Polonica A, 2013, 124, 849-851.	0.2	42
18	Magnetic interactions in an ensemble of cubic nanoparticles: A Monte Carlo study. Physical Review B, 2013, 88, .	1.1	41

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19	Magnetic field tuning of exciton-polaritons in a semiconductor microcavity. <i>Physical Review B</i> , 2015, 91, .	1.1	41
20	Tetragonal Phase of 6-Oxoverdazyl Bent-Core Derivatives with Photoinduced Ambipolar Charge Transport and Electrooptical Effects. <i>Journal of the American Chemical Society</i> , 2014, 136, 14658-14661.	6.6	36
21	Growth of bulk Ga <sub>1-x</sub> MnxN single crystals. <i>Journal of Crystal Growth</i> , 2001, 233, 631-638.	0.7	34
22	Dynamics of Trion Formation in In <sub>x</sub> Ga <sub>1-x</sub> As Quantum Wells. <i>Physical Review Letters</i> , 2009, 102, 096402.	2.9	30
23	Magnetic behaviour of bent-core mesogens derived from the 1,4-dihydrobenzo[ <i>e</i> ][1,2,4]triazin-4-yl. <i>Journal of Materials Chemistry C</i> , 2018, 6, 3079-3088.	2.7	30
24	Observation of second-order meron polarization textures in optical microcavities. <i>Optica</i> , 2021, 8, 255.	4.8	28
25	Neuromorphic Binarized Polariton Networks. <i>Nano Letters</i> , 2021, 21, 3715-3720.	4.5	28
26	Magnetostructural Investigation of Orthogonal 1- <i>Ar</i> -3- <i>Phenyl</i> -1,4-dihydrobenzo[ <i>e</i> ][1,2,4]triazin-4-yl Derivatives. <i>Chemistry - A European Journal</i> , 2018, 24, 1317-1329.	1.7	27
27	Ferromagnetic resonance in GaMnAs. <i>Journal of Applied Physics</i> , 2002, 91, 7484.	1.1	25
28	Thermochromic discotic 6-oxoverdazyls. <i>Chemical Communications</i> , 2012, 48, 7064.	2.2	25
29	Luminescent "Magnetic Cellulose Fibers, Modified with Lanthanide-Doped Core/Shell Nanostructures. <i>ACS Omega</i> , 2018, 3, 10383-10390.	1.6	25
30	Tuning the Magnetic Properties of Columnar Benzo[ <i>e</i> ][1,2,4]triazin-4-yls with the Molecular Shape. <i>ChemPhysChem</i> , 2019, 20, 636-644.	1.0	24
31	Photoconductive bent-core liquid crystalline radicals with a paramagnetic polar switchable phase. <i>Journal of Materials Chemistry C</i> , 2020, 8, 1083-1088.	2.7	24
32	Electron paramagnetic resonance of Mn in In <sub>1-x</sub> MnxAs epilayers. <i>Physical Review B</i> , 2001, 63, .	1.1	23
33	Strong coupling and polariton lasing in Te based microcavities embedding (Cd,Zn)Te quantum wells. <i>Applied Physics Letters</i> , 2015, 107, .	1.5	19
34	Angular dependence of giant Zeeman effect for semimagnetic cavity polaritons. <i>Physical Review B</i> , 2017, 95, .	1.1	19
35	Structural and Magnetic Properties of Co <sup>2+</sup> Mn Codoped ZnO Nanoparticles Obtained by Microwave Solvothermal Synthesis. <i>Crystals</i> , 2018, 8, 410.	1.0	19
36	Exciton-polaritons in multilayer WSe <sub>2</sub> in a planar microcavity. <i>2D Materials</i> , 2020, 7, 015006.	2.0	19

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37	Excitonic effects in the luminescence of quantum wells. <i>Chemical Physics</i> , 2005, 318, 104-117.	0.9	18
38	Fe dopant in ZnO: 2+ versus 3+ valency and ion-carrier exchange interaction. <i>Physical Review B</i> , 2016, 94, .	1.8	18
39	Mammalian cell defence mechanisms against the cytotoxicity of NaYF <sub>4</sub> :(Er,Yb,Gd) nanoparticles. <i>Nanoscale</i> , 2017, 9, 14259-14271.	2.8	18
40	Origin of excitonic luminescence in quantum wells: Direct comparison of the exciton population and Coulomb correlated plasma models. <i>Physical Review B</i> , 2005, 71, .	1.1	17
41	Magnetic-Nanoparticle-Decorated Polypyrrole Microvessels: Toward Encapsulation of mRNA Cap Analogues. <i>Biomacromolecules</i> , 2013, 14, 1867-1876.	2.6	17
42	Valley polarization of exciton polaritons in monolayer WSe <sub>2</sub> in a tunable microcavity. <i>Nanoscale</i> , 2019, 11, 9574-9579.	2.8	17
43	Magnetic field effect on the lasing threshold of a semimagnetic polariton condensate. <i>Physical Review B</i> , 2017, 96, .	1.1	15
44	Realizing Optical Persistent Spin Helix and Stern-Gerlach Deflection in an Anisotropic Liquid Crystal Microcavity. <i>Physical Review Letters</i> , 2021, 127, 190401.	2.9	14
45	Effect of dimerization on the field-induced birefringence in ferrofluids. <i>Physical Review E</i> , 2013, 87, 062322.	0.8	13
46	Liquid crystalline radicals: discotic behavior of unsymmetrical derivatives of 1,3,5-triphenyl-6-oxoverdazyl. <i>Journal of Materials Chemistry C</i> , 2014, 2, 319-324.	2.7	13
47	Giant spin Meissner effect in a nonequilibrium exciton-polariton gas. <i>Physical Review B</i> , 2019, 99, .	1.1	13
48	Photonic Berry curvature in double liquid crystal microcavities with broken inversion symmetry. <i>Physical Review B</i> , 2021, 103, .	1.1	13
49	Magnetic Properties of (Ga,Fe)N. <i>Journal of Superconductivity and Novel Magnetism</i> , 2003, 16, 79-82.	0.5	12
50	Discs, dumbbells and superdiscs: molecular and supermolecular architecture dependent magnetic behavior of mesogenic Blatter radical derivatives. <i>Materials Chemistry Frontiers</i> , 2021, 5, 6512-6521.	3.2	12
51	Discotic derivatives of 6-oxoverdazyl radical. <i>Liquid Crystals</i> , 2014, 41, 385-392.	0.9	11
52	Chiral discotic derivatives of 1,3,5-triphenyl-6-oxoverdazyl radical. <i>Liquid Crystals</i> , 2014, 41, 1653-1660.	0.9	10
53	Magnetism of Kesterite Cu <sub>2</sub> ZnSnS <sub>4</sub> Semiconductor Nanopowders Prepared by Mechanochemically Assisted Synthesis Method. <i>Materials</i> , 2020, 13, 3487.	1.3	10
54	Structural, optical and magnetic properties of Y <sub>3-0.02x</sub> Er <sub>0.02</sub> Yb <sub>x</sub> Al <sub>5</sub> O <sub>12</sub> (0 ≤ x ≤ 0.20) nanocrystals: effect of Yb content. <i>Nanotechnology</i> , 2020, 31, 225711.	1.3	10

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55	Energy-Efficient Neural Network Inference with Microcavity Exciton Polaritons. <i>Physical Review Applied</i> , 2021, 16, .	1.5	10
56	Reduced Self-Aggregation and Improved Stability of Silica-Coated Fe <sub>3</sub> O <sub>4</sub> /Ag SERS-Active Nanotags Functionalized With 2-Mercaptoethanesulfonate. <i>Frontiers in Chemistry</i> , 2021, 9, 697595.	1.8	9
57	(Cd,Zn,Mg)Te-based microcavity on MgTe sacrificial buffer: Growth, lift-off, and transmission studies of polaritons. <i>Physical Review Materials</i> , 2018, 2, .	0.9	9
58	Carbon-Encapsulated Magnetic Nanoparticles Based on Fe, Mn, and Cr for Spintronics Applications. <i>Acta Physica Polonica A</i> , 2007, 112, 305-310.	0.2	9
59	Excitons or free carriers? That is the question. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2004, 1, 493-496.	0.8	8
60	Mesogenic Ni(ii) and Cu(ii) complexes of barbituric acid derivatives toward one-dimensional magnets. <i>Journal of Materials Chemistry</i> , 2008, 18, 3419.	6.7	8
61	<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mn>2</mml:mn><mml:mi>s</mml:mi></mml:mrow></mml:math> exciton-polariton revealed in an external magnetic field. <i>Physical Review B</i> , 2017, 96, .		
62	Spin polarized semimagnetic exciton-polariton condensate in magnetic field. <i>Scientific Reports</i> , 2018, 8, 6694.	1.6	8
63	Doubly Dressed Bosons: Exciton Polaritons in a Strong Terahertz Field. <i>Physical Review Letters</i> , 2017, 119, 077403.	2.9	7
64	Magnetic polymer microcapsules loaded with Nile Red fluorescent dye. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2018, 195, 148-156.	2.0	7
65	Realizing Persistent-Spin-Helix Lasing in the Regime of Rashba-Dresselhaus Spin-Orbit Coupling in a Dye-Filled Liquid-Crystal Optical Microcavity. <i>Physical Review Applied</i> , 2022, 17, .	1.5	7
66	Magnetic anisotropy investigations of (Ga,Mn)As with a large epitaxial strain. <i>Journal of Magnetism and Magnetic Materials</i> , 2015, 396, 48-52.	1.0	6
67	Magnetic properties of manganese implanted silicon after pulse plasma annealing. <i>Vacuum</i> , 2013, 89, 113-117.	1.6	5
68	Synthesis and Physicochemical Properties of Nd <sup>2+</sup> , Sm <sup>2+</sup> , Eu <sup>2+</sup> -Based Cuprate High-Temperature Superconductors. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2018, 215, 1700888.	0.8	5
69	Synthesis and characterization of Gd <sub>2</sub> O <sub>3</sub> : Er <sup>3+</sup> , Yb <sup>3+</sup> doped with Mg <sup>2+</sup> , Li <sup>+</sup> ions effect on the photoluminescence and biological applications. <i>Nanotechnology</i> , 2021, 32, 245705.	1.3	5
70	The nature of Cr center in GaN: Magnetic anisotropy of GaN:Cr single crystals. <i>Journal of Applied Physics</i> , 2012, 112, 113914.	1.1	4
71	Induction of Columnar Discotic Behavior in Verdazyl Radicals with Alkylsulfanyl Substituents. Phosphorus, Sulfur and Silicon and the Related Elements, 2013, 188, 418-426.	0.8	4
72	Paramagnetic ionic liquid crystals: Ion conductive bent-core derivatives of stable radicals. <i>Journal of Molecular Liquids</i> , 2021, 337, 116028.	2.3	4

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73	On the Question of Ferromagnetism in Proton and He-Irradiated Carbon. <i>Acta Physica Polonica A</i> , 2008, 114, 1387-1390.	0.2	4
74	Monte Carlo Simulations of Ferromagnetic Nanocomposites. <i>Acta Physica Polonica A</i> , 2012, 122, 1019-1021.	0.2	4
75	Antitumor Activity against A549 Cancer Cells of Three Novel Complexes Supported by Coating with Silver Nanoparticles. <i>International Journal of Molecular Sciences</i> , 2022, 23, 2980.	1.8	4
76	Paramagnetic supramolecular mesogens: A new paradigm in self-assembled magnetic materials. <i>Journal of Materials Chemistry C</i> , 2022, 10, 8728-8739.	2.7	4
77	Magneto-optical studies of iron impurity in HVPE GaN. <i>Physica B: Condensed Matter</i> , 2007, 401-402, 458-461.	1.3	3
78	Magneto-optical Properties of GaAs:Mn. <i>Acta Physica Polonica A</i> , 1996, 90, 951-954.	0.2	3
79	Influence of Incorporation of Different dn-Electron Metal Cations into Biologically Active System on Its Biological and Physicochemical Properties. <i>International Journal of Molecular Sciences</i> , 2021, 22, 12909.	1.8	3
80	Neural Networks Based on Ultrafast Time-Delayed Effects in Exciton Polaritons. <i>Physical Review Applied</i> , 2022, 17, .	1.5	3
81	Dinuclear Mesogens with Antiferromagnetic Properties. <i>ChemPhysChem</i> , 2010, 11, 1735-1741.	1.0	2
82	Magnetic moment of a single metal nanoparticle determined from the Faraday effect. <i>Physical Review E</i> , 2013, 87, .	0.8	2
83	Exciton formation rate in quantum wells from a direct comparison between free-carrier and exciton contributions to time resolved luminescence. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2005, 2, 2947-2950.	0.8	1
84	Confocal Microscope Studies of MoS <sub>2</sub> Layer Thickness. <i>Acta Physica Polonica A</i> , 2014, 126, 1207-1208.	0.2	1
85	THz Time Domain Spectroscopy of Thin Gold Layers on GaAs. <i>Acta Physica Polonica A</i> , 2012, 122, 1118-1120.	0.2	1
86	On the origin of excitonic luminescence in quantum wells: direct measure of the exciton formation in quantum wells from time resolved interband luminescence. <i>AIP Conference Proceedings</i> , 2005, , .	0.3	0
87	Sub-terahertz imaging with AlGaN/GaN MISFETs. , 2010, , .		0
88	Terahertz properties of metallic layers and grids. , 2012, , .		0
89	Magnetic Properties of Epitaxial Fe/(Ga,Mn)As Hybrids. <i>Acta Physica Polonica A</i> , 2013, 124, 873-876.	0.2	0
90	Magnetoluminescence Studies of GaN:Fe. <i>Acta Physica Polonica A</i> , 2007, 112, 177-182.	0.2	0

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91	Magnetic Liquid Crystals for Molecular Spintronics. Acta Physica Polonica A, 2008, 114, 1383-1386.	0.2	0
92	EPR Spectra of Multispin Systems. Application to Poly-m-p-Aniline. Acta Physica Polonica A, 2011, 119, 717-719.	0.2	0
93	Observation of Magnetic Anisotropy in GaN:Cr Single Crystals. Acta Physica Polonica A, 2012, 122, 1007-1009.	0.2	0
94	Magnetic Field Induced Redistribution of Exciton-Polariton Density on Confined Modes. Acta Physica Polonica A, 2012, 122, 1093-1095.	0.2	0
95	Resonant Plasmon Response of a Periodically Modulated Two-Dimensional Electron Gas. Acta Physica Polonica A, 2012, 122, 1090-1092.	0.2	0
96	Influence of Epitaxial Strain on Magnetic Anisotropy in (Ga,Mn)As. Acta Physica Polonica A, 2012, 122, 1004-1006.	0.2	0
97	Interplay of Magnetic Anisotropies in Epitaxial Ferromagnetic Hybrids of Fe and (Ga,Mn)As. Journal of the Magnetism Society of Japan, 2014, 38, 111-114.	0.5	0
98	Hydrostatic Pressure Study of MBE CdMnTe Doped with Bromine. Acta Physica Polonica A, 1995, 88, 933-936.	0.2	0
99	Effect of the Sign of Anisotropy Constants on the Properties of the System of Interacting Ferromagnetic Nanoparticles. Acta Physica Polonica A, 2016, 129, A-53-A-55.	0.2	0
100	Relative Reflection Difference as a Method for Measuring the Thickness of the Exfoliated MoSe <sub>2</sub> Layers. Acta Physica Polonica A, 2017, 132, 316-318.	0.2	0
101	Exciton-Polaritons in a Tunable Microcavity with 2D-Perovskite. , 2019, , .		0
102	The Ellipticity Measurements - Determination of the Size of Superparamagnetic Core of Magnetic Metal Nanoparticles. Acta Physica Polonica A, 2020, 137, 417-420.	0.2	0