Jan Suffczynski

List of Publications by Year
in descending order

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78 papers	1,893 citations	361296 20 h-index	254106 43 g-index
78 all docs	78 docs citations	78 times ranked	2019 citing authors

#	Article	IF	Citations
1	Ultrabright source of entangled photon pairs. Nature, 2010, 466, 217-220.	13.7	501
2	Controlled Light-Matter Coupling for a Single Quantum Dot Embedded in a Pillar Microcavity Using Far-Field Optical Lithography. Physical Review Letters, 2008, 101, 267404.	2.9	264
3	Designing quantum dots for solotronics. Nature Communications, 2014, 5, 3191.	5.8	119
4	Excitation mechanisms of individualCdTeâˆ•ZnTequantum dots studied by photon correlation spectroscopy. Physical Review B, 2006, 74, .	1.1	73
5	Origin of the Optical Emission within the Cavity Mode of Coupled Quantum Dot-Cavity Systems. Physical Review Letters, 2009, 103, 027401.	2.9	68
6	Experimental probing of exchange interactions between localized spins in the dilute magnetic insulator (Ga,Mn)N. Physical Review B, 2011, 84, .	1.1	61
7	Microluminescence fromCd1âˆ’xMnxTemagnetic quantum dots containing only a few Mn ions. Physical Review B, 2007, 75, .	1.1	58
8	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
9	Scalable implementation of strongly coupled cavity-quantum dot devices. Applied Physics Letters, 2009, 94, .	1.5	44
10	Manipulating Mnâ€“Mgk cation complexes to control the charge- and spin-state of Mn in GaN. Scientific Reports, 2012, 2, 722.	1.6	43
11	Spatial, spectral, and polarization properties of coupled micropillar cavities. Applied Physics Letters, 2011, 99, 101103.	1.5	39
12	Size-dependent magneto-optical effects in CdMnTe diluted magnetic quantum dots. Nanotechnology, 2008, 19, 235403.	1.3	37
13	Manipulating the exciton fine structure of singleCdTeâˆ•ZnTequantum dots by an in-plane magnetic field. Physical Review B, 2007, 75, .	1.1	35
14	Giant Spin Splitting in Optically Active ZnMnTe/ZnMgTe Core/Shell Nanowires. Nano Letters, 2012, 12, 3404-3409.	4.5	32
15	Magnetoelastic interaction in the two-dimensional magnetic material MnPS₃ studied by first principles calculations and Raman experiments. 2D Materials, 2020, 7, 035030.	2.0	32
16	Ultra-long-working-distance spectroscopy of single nanostructures with aspherical solid immersion microlenses. Light: Science and Applications, 2020, 9, 48.	7.7	28
17	Neuromorphic Binarized Polariton Networks. Nano Letters, 2021, 21, 3715-3720.	4.5	28
18	Influence of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>s</mml:mi></mml:math>,<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>p</mml:mi></mml:math>-<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>d</mml:mi></mml:math>and<mml:math xmlns:mml="http://www.w3.org/1998/	1.1	25

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19	Frequency cavity pulling induced by a single semiconductor quantum dot. Physical Review B, 2014, 89, .	1.1	25
20	A quantum dot based bright source of entangled photon pairs operating at 53 K. Applied Physics Letters, 2010, 97, .	1.5	21
21	Effects ofs,p-dands-pexchange interactions probed by exciton magnetospectroscopy in (Ga,Mn)N. Physical Review B, 2011, 83, .	1.1	21
22	Photon correlation studies of charge variation in a single GaAlAs quantum dot. Physical Review B, 2013, 87, .	1.1	20
23	Strong coupling and polariton lasing in Te based microcavities embedding (Cd,Zn)Te quantum wells. Applied Physics Letters, 2015, 107, .	1.5	19
24	Spin Splitting Anisotropy in Single Diluted Magnetic Nanowire Heterostructures. Nano Letters, 2015, 15, 1972-1978.	4.5	19
25	Fe dopant in ZnO: 2+ versus 3+ valency and ion-carrier <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>s</mml:mi><mml:mo>,</mml:mo><mml:mi>p</mml:mi><mml:m exchange interaction. Physical Review B, 2016, 94, .	1.1	18
26	Single-spin optical read-out in CdTe/ZnTe quantum dot studied by photon correlation spectroscopy. Physical Review B, 2008, 77, .	1.1	11
27	Light Emitting Spin Active Electronic States in Ultra-Thin Mn Doped CdSe Layered Nanosheets. Scientific Reports, 2019, 9, 1804.	1.6	11
28	Long-distance coupling and energy transfer between exciton states in magnetically controlled microcavities. Communications Materials, 2020, 1, .	2.9	11
29	Triple threshold lasing from a photonic trap in a Te/Se-based optical microcavity. Communications Physics, 2019, 2, .	2.0	9
30	Relation between exciton splittings, magnetic circular dichroism, and magnetization in wurtzite Ga<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><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:math>Fe<mml: xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mi>x</mml:mi></mml:msub></mml:math>N. Physical Review B, 2013, 88, .	1.1	8
31	Angle dependence of the photonic enhancement of the magneto-optical Kerr effect in DMS layers. Europhysics Letters, 2014, 108, 27004.	0.7	8
32	Growth and optical properties of ZnO/Zn_{1â^'x}Mg_xO quantum wells on ZnO microrods. Nanoscale, 2019, 11, 2275-2281.	2.8	8
33	Molecular Beam Epitaxy of a 2D Material Nearly Lattice Matched to a 3D Substrate: NiTe₂ on GaAs. Crystal Growth and Design, 2021, 21, 5773-5779.	1.4	8
34	Optical spin injection and tunneling in asymmetric coupled IIâ€“VI quantum wells. Physica Status Solidi (B): Basic Research, 2004, 241, 680-687.	0.7	7
35	Modification of Emission Properties of ZnO Layers due to Plasmonic Near-Field Coupling to Ag Nanoislands. Plasmonics, 2013, 8, 913-919.	1.8	7
36	Magneto-optical effects enhancement in DMS layers utilizing 1-D photonic crystal. Journal of Electromagnetic Waves and Applications, 2013, 27, 700-706.	1.0	7

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37	Single-color, in situ photolithography marking of individual CdTe/ZnTe quantum dots containing a single Mn2+ ion. Applied Physics Letters, 2015, 106, .	1.5	7
38	Synthesis and magnetooptic characterization of Cu-doped ZnO/MgO and ZnO/oleic acid core/shell nanoparticles. RSC Advances, 2016, 6, 44820-44825.	1.7	7
39	Design and Control of Mode Interaction in Coupled ZnTe Optical Microcavities. Crystal Growth and Design, 2017, 17, 3716-3723.	1.4	7
40	Effect of electron-hole separation on optical properties of individual Cd(Se,Te) quantum dots. Physical Review B, 2016, 93, .	1.1	6
41	Towards practical applications of quantum emitters in boron nitride. Scientific Reports, 2021, 11, 15506.	1.6	6
42	Semiconductor heterostructures for spintronics and quantum information. Comptes Rendus Physique, 2007, 8, 243-252.	0.3	5
43	Fabrication and luminescence properties of self-assembled CdTe quantum dots embedded in an MnTe matrix. Physical Review B, 2009, 80, .	1.1	5
44	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
45	Epitaxial growth and photoluminescence excitation spectroscopy of CdSe quantum dots in (Zn,Cd)Se barrier. Journal of Luminescence, 2016, 173, 94-98.	1.5	5
46	Polariton lasing and energy-degenerate parametric scattering in non-resonantly driven coupled planar microcavities. Nanophotonics, 2021, 10, 2421-2429.	2.9	5
47	Long Decays of Excitonic Photoluminescence from CdTe/ZnTe Individual Quantum Dots. Acta Physica Polonica A, 2005, 108, 831-836.	0.2	5
48	Inter-Dot Coupling in a Self-Assembled CdTe/ZnTe System. Journal of the Korean Physical Society, 2008, 53, 154-157.	0.3	5
49	Influence of electric field on fine structure of exciton complexes in CdTe/ZnTe self-assembled quantum dot. Physica Status Solidi C: Current Topics in Solid State Physics, 2006, 3, 865-869.	0.8	4
50	Exciton dynamics in individual semimagnetic (Zn,Mn)Te/(Zn,Mg)Te nanowires. Journal of Applied Physics, 2015, 118, 095704.	1.1	4
51	Resonant excitation of infrared emission in GaN:(Mn,Mg). Physical Review B, 2018, 97, .	1.1	4
52	Stable charged exciton in a ZnO/(Zn,Mg)O quantum well at near room temperature. Applied Physics Letters, 2020, 117, .	1.5	4
53	Inter-Dot Coupling in a Self-Assembled Quantum Dot System. Acta Physica Polonica A, 2007, 112, 321-324.	0.2	4
54	Control of Photon Polarization in GaAs/AlAs Single Quantum Dot Emission. Acta Physica Polonica A, 2007, 112, 461-466.	0.2	4

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55	Exciton and Charged Exciton Absorption in Asymmetric Double Quantum Well Structures. Physica Status Solidi A, 2002, 190, 793-798.	1.7	3
56	Fabrication and micro-photoluminescence study of CdMnTe diluted magnetic quantum dots. Journal of Physics: Conference Series, 2009, 146, 012032.	0.3	3
57	Impact of Stripe Shape on the Reflectivity of Monolithic High Contrast Gratings. ACS Photonics, 2021, 8, 3173-3184.	3.2	3
58	Neural Networks Based on Ultrafast Time-Delayed Effects in Exciton Polaritons. Physical Review Applied, 2022, 17, .	1.5	3
59	Hanle Effect of Charged and Neutral Excitons in Quantum Wells. Journal of Superconductivity and Novel Magnetism, 2003, 16, 435-437.	0.5	2
60	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
61	Direct Interbranch Relaxation of Polaritons in a Microcavity with Embedded CdSe/(Cd,Mg)Se Quantum Wells. Journal of Electronic Materials, 2020, 49, 4531-4536.	1.0	1
62	Hybrid Semimagnetic Polaritons in a Strongly Coupled Optical Microcavity. Journal of Physical Chemistry Letters, 2021, 12, 7619-7624.	2.1	1
63	Magnetooptical Properties of (Ga,Fe)N Layers. Acta Physica Polonica A, 2011, 120, 921-923.	0.2	1
64	BoÃ®tes quantiques II-VI comme sources de photons uniques. European Physical Journal Special Topics, 2004, 119, 165-166.	0.2	0
65	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
66	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
67	Polarization Dependent Correlations of Single Photons from CdTe/ZnTe Quantum Dots. AIP Conference Proceedings, 2007, , .	0.3	0
68	Spin-dependent dynamics of individual CdTe/ZnTe quantum dot states studied by correlation spectroscopy. , 2007, , .		0
69	Spin conserving inter-dot excitation transfer in a self-assembled system. , 2010, , .		0
70	A solid state ultrabright source of entangled photon pairs. Proceedings of SPIE, 2011, , .	0.8	0
71	A semiconductor deterministic bright source of entangled photon pairs. , 2011, , .		0
72	Properties of InGaAlAs/AlGaAs quantum dots for single photon emission in the near infrared and visible spectral range. , 2013, , .		0

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73	Optical Properties of CdTe QDs in Proximity to a Surface. Acta Physica Polonica A, 2013, 124, 795-797.	0.2	0
74	Enhanced Exciton Binding Energy, Zeeman Splitting and Spin Polarization in Hybrid Layered Nanosheets Comprised of (Cd, Mn)Se and Nitrogen-Doped Graphene Oxide: Implication for Semiconductor Devices. Nanotechnology, 2021, 32, .	1.3	0
75	Photon Correlations and Cross-Correlations from a Single CdTe/ZnTe Quantum Dot. Acta Physica Polonica A, 2004, 106, 169-176.	0.2	0
76	Spin and symmetry in optical studies of individual semiconductor quantum dots. , 2008, , .		0
77	Influence of Growth Break before Capping on Photoluminescence Dynamics of CdSe/ZnSe Self-Assembled Quantum Dots. Acta Physica Polonica A, 2008, 114, 1267-1271.	0.2	0
78	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