

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
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78
all docs

78
docs citations

78
times ranked

2019
citing authors

#	ARTICLE	IF	CITATIONS
1	Neural Networks Based on Ultrafast Time-Delayed Effects in Exciton Polaritons. <i>Physical Review Applied</i> , 2022, 17, .	1.5	3
2	Neuromorphic Binarized Polariton Networks. <i>Nano Letters</i> , 2021, 21, 3715-3720.	4.5	28
3	Polariton lasing and energy-degenerate parametric scattering in non-resonantly driven coupled planar microcavities. <i>Nanophotonics</i> , 2021, 10, 2421-2429.	2.9	5
4	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. <i>Nanotechnology</i> , 2021, 32, .	1.3	0
5	Towards practical applications of quantum emitters in boron nitride. <i>Scientific Reports</i> , 2021, 11, 15506.	1.6	6
6	Hybrid Semimagnetic Polaritons in a Strongly Coupled Optical Microcavity. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 7619-7624.	2.1	1
7	Molecular Beam Epitaxy of a 2D Material Nearly Lattice Matched to a 3D Substrate: NiTe ₂ on GaAs. <i>Crystal Growth and Design</i> , 2021, 21, 5773-5779.	1.4	8
8	Impact of Stripe Shape on the Reflectivity of Monolithic High Contrast Gratings. <i>ACS Photonics</i> , 2021, 8, 3173-3184.	3.2	3
9	Stable charged exciton in a ZnO/(Zn,Mg)O quantum well at near room temperature. <i>Applied Physics Letters</i> , 2020, 117, .	1.5	4
10	Long-distance coupling and energy transfer between exciton states in magnetically controlled microcavities. <i>Communications Materials</i> , 2020, 1, .	2.9	11
11	Magnetoelastic interaction in the two-dimensional magnetic material MnPS ₃ studied by first principles calculations and Raman experiments. <i>2D Materials</i> , 2020, 7, 035030.	2.0	32
12	Direct Interbranch Relaxation of Polaritons in a Microcavity with Embedded CdSe/(Cd,Mg)Se Quantum Wells. <i>Journal of Electronic Materials</i> , 2020, 49, 4531-4536.	1.0	1
13	Ultra-long-working-distance spectroscopy of single nanostructures with aspherical solid immersion microlenses. <i>Light: Science and Applications</i> , 2020, 9, 48.	7.7	28
14	Growth and optical properties of ZnO/Zn _{1-x} Mg _x O quantum wells on ZnO microrods. <i>Nanoscale</i> , 2019, 11, 2275-2281.	2.8	8
15	Triple threshold lasing from a photonic trap in a Te/Se-based optical microcavity. <i>Communications Physics</i> , 2019, 2, .	2.0	9
16	Light Emitting Spin Active Electronic States in Ultra-Thin Mn Doped CdSe Layered Nanosheets. <i>Scientific Reports</i> , 2019, 9, 1804.	1.6	11
17	Resonant excitation of infrared emission in GaN:(Mn,Mg). <i>Physical Review B</i> , 2018, 97, .	1.1	4
18	Design and Control of Mode Interaction in Coupled ZnTe Optical Microcavities. <i>Crystal Growth and Design</i> , 2017, 17, 3716-3723.	1.4	7

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19	Fe dopant in ZnO: 2+ versus 3+ valency and ion-carrier exchange interaction. Physical Review B, 2016, 94, .	1.1	18
20	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
21	Effect of electron-hole separation on optical properties of individual Cd(Se,Te) quantum dots. Physical Review B, 2016, 93, .	1.1	6
22	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
23	Exciton dynamics in individual semimagnetic (Zn,Mn)Te/(Zn,Mg)Te nanowires. Journal of Applied Physics, 2015, 118, 095704.	1.1	4
24	Strong coupling and polariton lasing in Te based microcavities embedding (Cd,Zn)Te quantum wells. Applied Physics Letters, 2015, 107, .	1.5	19
25	Spin Splitting Anisotropy in Single Diluted Magnetic Nanowire Heterostructures. Nano Letters, 2015, 15, 1972-1978.	4.5	19
26	Single-color, in situ photolithography marking of individual CdTe/ZnTe quantum dots containing a single Mn ²⁺ ion. Applied Physics Letters, 2015, 106, .	1.5	7
27	Angle dependence of the photonic enhancement of the magneto-optical Kerr effect in DMS layers. Europhysics Letters, 2014, 108, 27004.	0.7	8
28	Strong s-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
29	Designing quantum dots for solotronics. Nature Communications, 2014, 5, 3191.	5.8	119
30	Frequency cavity pulling induced by a single semiconductor quantum dot. Physical Review B, 2014, 89, .	1.1	25
31	Modification of Emission Properties of ZnO Layers due to Plasmonic Near-Field Coupling to Ag Nanoislands. Plasmonics, 2013, 8, 913-919.	1.8	7
32	Relation between exciton splittings, magnetic circular dichroism, and magnetization in wurtzite Ga _{1-x} Mn _x Fe _N . Physical Review B, 2013, 88, .	1.1	8
33	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
34	Properties of InGaAlAs/AlGaAs quantum dots for single photon emission in the near infrared and visible spectral range. , 2013, , .		0
35	Optical Properties of CdTe QDs in Proximity to a Surface. Acta Physica Polonica A, 2013, 124, 795-797.	0.2	0
36	Photon correlation studies of charge variation in a single GaAlAs quantum dot. Physical Review B, 2013, 87, .	1.1	20

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37	Manipulating Mn ²⁺ Mg cation complexes to control the charge- and spin-state of Mn in GaN. Scientific Reports, 2012, 2, 722.	1.6	43
38	Giant Spin Splitting in Optically Active ZnMnTe/ZnMgTe Core/Shell Nanowires. Nano Letters, 2012, 12, 3404-3409.	4.5	32
39	Effects of s,p-dands-pexchange interactions probed by exciton magnetospectroscopy in (Ga,Mn)N. Physical Review B, 2011, 83, .	1.1	21
40	Experimental probing of exchange interactions between localized spins in the dilute magnetic insulator (Ga,Mn)N. Physical Review B, 2011, 84, .	1.1	61
41	Spatial, spectral, and polarization properties of coupled micropillar cavities. Applied Physics Letters, 2011, 99, 101103.	1.5	39
42	Influence of s and p exchange interactions on the spin Hall effect of light in a quantum dot. Physical Review B, 2011, 84, 041101.	1.1	25
43	A solid state ultrabright source of entangled photon pairs. Proceedings of SPIE, 2011, , .	0.8	0
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	A semiconductor deterministic bright source of entangled photon pairs. , 2011, , .		0
46	Magneto-optical Properties of (Ga,Fe)N Layers. Acta Physica Polonica A, 2011, 120, 921-923.	0.2	1
47	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
48	Ultrabright source of entangled photon pairs. Nature, 2010, 466, 217-220.	13.7	501
49	Spin conserving inter-dot excitation transfer in a self-assembled system. , 2010, , .		0
50	A quantum dot based bright source of entangled photon pairs operating at 53 K. Applied Physics Letters, 2010, 97, .	1.5	21
51	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
52	Fabrication and luminescence properties of self-assembled CdTe quantum dots embedded in an MnTe matrix. Physical Review B, 2009, 80, .	1.1	5
53	Scalable implementation of strongly coupled cavity-quantum dot devices. Applied Physics Letters, 2009, 94, .	1.5	44
54	Origin of the Optical Emission within the Cavity Mode of Coupled Quantum Dot-Cavity Systems. Physical Review Letters, 2009, 103, 027401.	2.9	68

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55	Fabrication and micro-photoluminescence study of CdMnTe diluted magnetic quantum dots. Journal of Physics: Conference Series, 2009, 146, 012032.	0.3	3
56	Size-dependent magneto-optical effects in CdMnTe diluted magnetic quantum dots. Nanotechnology, 2008, 19, 235403.	1.3	37
57	Single-spin optical read-out in CdTe/ZnTe quantum dot studied by photon correlation spectroscopy. Physical Review B, 2008, 77, .	1.1	11
58	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
59	Inter-Dot Coupling in a Self-Assembled CdTe/ZnTe System. Journal of the Korean Physical Society, 2008, 53, 154-157.	0.3	5
60	Spin and symmetry in optical studies of individual semiconductor quantum dots. , 2008, , .		0
61	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
62	Manipulating the exciton fine structure of single CdTe/ZnTe quantum dots by an in-plane magnetic field. Physical Review B, 2007, 75, .	1.1	35
63	Polarization Dependent Correlations of Single Photons from CdTe/ZnTe Quantum Dots. AIP Conference Proceedings, 2007, , .	0.3	0
64	Spin-dependent dynamics of individual CdTe/ZnTe quantum dot states studied by correlation spectroscopy. , 2007, , .		0
65	Microluminescence from Cd _{1-x} Mn _x Te magnetic quantum dots containing only a few Mn ions. Physical Review B, 2007, 75, .	1.1	58
66	Semiconductor heterostructures for spintronics and quantum information. Comptes Rendus Physique, 2007, 8, 243-252.	0.3	5
67	Inter-Dot Coupling in a Self-Assembled Quantum Dot System. Acta Physica Polonica A, 2007, 112, 321-324.	0.2	4
68	Control of Photon Polarization in GaAs/AlAs Single Quantum Dot Emission. Acta Physica Polonica A, 2007, 112, 461-466.	0.2	4
69	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
70	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
71	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
72	Excitation mechanisms of individual CdTe/ZnTe quantum dots studied by photon correlation spectroscopy. Physical Review B, 2006, 74, .	1.1	73

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73	Long Decays of Excitonic Photoluminescence from CdTe/ZnTe Individual Quantum Dots. Acta Physica Polonica A, 2005, 108, 831-836.	0.2	5
74	Boîtes quantiques II-VI comme sources de photons uniques. European Physical Journal Special Topics, 2004, 119, 165-166.	0.2	0
75	Optical spin injection and tunneling in asymmetric coupled II-VI quantum wells. Physica Status Solidi (B): Basic Research, 2004, 241, 680-687.	0.7	7
76	Photon Correlations and Cross-Correlations from a Single CdTe/ZnTe Quantum Dot. Acta Physica Polonica A, 2004, 106, 169-176.	0.2	0
77	Hall Effect of Charged and Neutral Excitons in Quantum Wells. Journal of Superconductivity and Novel Magnetism, 2003, 16, 435-437.	0.5	2
78	Exciton and Charged Exciton Absorption in Asymmetric Double Quantum Well Structures. Physica Status Solidi A, 2002, 190, 793-798.	1.7	3