

S Yu Verbin

List of Publications by Year in descending order

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51
papers

780
citations

567281

15
h-index

501196

28
g-index

52
all docs

52
docs citations

52
times ranked

480
citing authors

#	ARTICLE	IF	CITATIONS
1	Localized Excitons in CdS _{1-x} Se _x Solid Solutions. Physica Status Solidi (B): Basic Research, 1982, 113, 589-600.	1.5	150
2	Subsecond Spin Relaxation Times in Quantum Dots at Zero Applied Magnetic Field Due to a Strong Electron-Nuclear Interaction. Physical Review Letters, 2007, 98, 107401.	7.8	73
3	Localization of excitons and Anderson transition in ZnSe _{1-x} Te _x solid solutions. Solid State Communications, 1984, 52, 13-16.	1.9	69
4	Submillisecond electron spin relaxation in InP quantum dots. Physical Review B, 2005, 72, .	3.2	51
5	Radiative decay rate of excitons in square quantum wells: Microscopic modeling and experiment. Journal of Applied Physics, 2016, 119, .	2.5	50
6	Exciton mobility edge in CdS _{1-x} Se _x solid solutions. Solid State Communications, 1983, 47, 5-9.	1.9	48
7	Dynamics of the nuclear spin polarization by optically oriented electrons in a (In,Ga)As/GaAs quantum dot ensemble. Physical Review B, 2009, 80, .	3.2	33
8	Optically detected magnetic resonance at the quadrupole-split nuclear states in (In,Ga)As/GaAs quantum dots. Physical Review B, 2010, 82, .	3.2	30
9	Exciton absorption in CdS _{1-x} Se _x and ZnSe _{1-x} Te _x solid solutions. Journal of Crystal Growth, 1990, 101, 713-717.	1.5	29
10	Nuclear-spin effects in singly negatively charged InP quantum dots. Physical Review B, 2007, 75, .	3.2	29
11	Wide-band enhancement of the transverse magneto-optical Kerr effect in magnetite-based plasmonic crystals. Physical Review B, 2019, 100, .	3.2	25
12	Nuclear magnetic resonances in (In,Ga)As/GaAs quantum dots studied by resonant optical pumping. Physical Review B, 2014, 89, .	3.2	19
13	Emission of Localized Excitons in Mixed CdS _{1-x} Se _x Crystals. Physica Status Solidi (B): Basic Research, 1981, 106, K57.	1.5	18
14	Negative circular polarization of InP QD luminescence: Mechanism of formation and main regularities. Optics and Spectroscopy (English Translation of Optika i Spektroskopiya), 2009, 106, 375-387.	0.6	18
15	Spin dynamics of carriers in GaAs quantum wells in an external electric field. Physical Review B, 2004, 69, .	3.2	15
16	Quantum beats in semiconductor quantum dots. Journal of Luminescence, 2004, 108, 177-180.	3.1	15
17	Measurement of the Knight field and local nuclear dipole-dipole field in an InGaAs/GaAs quantum dot ensemble. Physical Review B, 2009, 80, .	3.2	15
18	Long-lived spin polarisation in the charged InP quantum dots. Physica E: Low-Dimensional Systems and Nanostructures, 2003, 17, 361-364.	2.7	12

#	ARTICLE	IF	CITATIONS
19	Recombination emission from InAs quantum dots grown on vicinal GaAs surfaces. Semiconductors, 2000, 34, 453-461.	0.5	10
20	Spin quantum beats in charged and neutral InP quantum dots. Physica E: Low-Dimensional Systems and Nanostructures, 2003, 17, 365-366.	2.7	9
21	Hanle effect in (In,Ga)As quantum dots: Role of nuclear spin fluctuations. Physical Review B, 2013, 87, .	3.2	8
22	Dynamics of nuclear polarization in InGaAs quantum dots in a transverse magnetic field. Journal of Experimental and Theoretical Physics, 2012, 114, 681-690.	0.9	7
23	Theoretical modeling of exciton-light coupling in quantum wells. Journal of Physics: Conference Series, 2016, 690, 012018.	0.4	5
24	Spin dynamics of quadrupole nuclei in InGaAs quantum dots. Physical Review B, 2017, 95, .	3.2	5
25	Nuclear spin cooling by helicity-alternated optical pumping at weak magnetic fields in n -GaAs. Physical Review B, 2017, 96, .	3.2	5
26	Transverse Magneto-Optical Kerr Effect in Magnetite Covered by Array of Gold Nanostripes. Semiconductors, 2018, 52, 1857-1860.	0.5	5
27	Exciton and pair recombination through alloy-trapped states in $\text{CdS}_{1-x}\text{Se}_x$ and $\text{ZnSe}_{1-x}\text{Te}_x$ solid solutions. Journal of Luminescence, 1991, 47, 297-301.	3.1	4
28	Circularly polarized exciton emission and fine structure of the luminescence band in $\text{Zn}_{1-x}\text{Cd}_x\text{Se}/\text{ZnSe}$ MQWs. Journal of Luminescence, 1997, 72-74, 869-870.	3.1	4
29	Spin relaxation times of exciton states in $\text{ZnCdSe}/\text{ZnSe}$ low dimensional heterostructures. Physica E: Low-Dimensional Systems and Nanostructures, 2001, 10, 315-319.	2.7	4
30	Fine Structure and Spin Relaxation of Excitons Localized at CdSe Sub-Monolayer Insertions in a ZnSe Matrix. Physica Status Solidi (B): Basic Research, 2001, 224, 545-549.	1.5	3
31	Exciton dynamics in $\text{ZnCdSe}/\text{ZnSe}$ quantum-well structures. Physics of the Solid State, 1998, 40, 743-744.	0.6	2
32	Sub-second electron spin lifetimes in quantum dots at zero applied magnetic field due to alignment of QD nuclei. Physica Status Solidi (B): Basic Research, 2006, 243, 3922-3927.	1.5	2
33	Time-resolved Hanle effect in (In,Ga)As/GaAs quantum dots. Journal of Physics: Conference Series, 2010, 245, 012055.	0.4	2
34	Subsecond nuclear spin dynamics in n -GaAs. Physical Review B, 2019, 99, .	3.2	2
35	Optical and thermal orientation of localized excitons in solid solutions under resonant excitation in a longitudinal magnetic field. Physics of the Solid State, 1998, 40, 829-830.	0.6	1
36	Characterization of the emitting states in quantum wells with planar nano-islands by polarization spectroscopy. AIP Conference Proceedings, 2005, , .	0.4	1

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37	Dynamical nuclear polarization and nuclear magnetic resonance in a (In,Ga)As/GaAs quantum dot ensemble. Journal of Physics: Conference Series, 2010, 245, 012056.	0.4	1
38	Transverse magneto-optical Kerr effect in magnetoplasmonic waveguide structures based on Fe ₃ O ₄ . Journal of Physics: Conference Series, 2019, 1400, 066014.	0.4	1
39	Spin dynamics of the neutral and charged InP self-assembled quantum dots. , 0, , .		0
40	<title>Spin memory in the n-doped GaAs/AlGaAs quantum wells</title>. , 2002, 5023, 432.		0
41	<title>Gateable spin memory in InP quantum dots</title>. , 2002, , .		0
42	Spin relaxation in InP quantum dots. Physica Status Solidi C: Current Topics in Solid State Physics, 2003, 0, 1368-1371.	0.8	0
43	Optical Orientation Of Electron And Nuclear Spins In Negatively Charged InP QDs. AIP Conference Proceedings, 2005, , .	0.4	0
44	EFFECT OF NUCLEAR SPINS ON THE ELECTRON SPIN DYNAMICS IN NEGATIVELY CHARGED InP QUANTUM DOTS. International Journal of Nanoscience, 2007, 06, 275-278.	0.7	0
45	SPIN RELAXATION IN MAGNETIC FIELD FOR InP QUANTUM DOTS. International Journal of Nanoscience, 2007, 06, 257-260.	0.7	0
46	Electron-spin relaxation by the interaction with nuclear-spins in InP quantum dots. , 2007, , .		0
47	Nuclear spin effects in negatively charged InP quantum dots. AIP Conference Proceedings, 2007, , .	0.4	0
48	Electron-Nuclear Spin Polarization Dynamics in InGaAs Quantum Dots. , 2010, , .		0
49	Dynamic nuclear polarization and Hanle effect in (In,Ga)As/GaAs quantum dots. Role of nuclear spin fluctuations. , 2013, , .		0
50	Spin phenomena in quantum dots revealed by trion photoluminescence. , 2015, , .		0
51	Nobel nominations in physics (1900â€”1966): The experience of an initial systematization. Viproshy Istorii Estestvznaniya I Tehniki, 2018, 39, 681-710.	0.0	0