

# S Yu Verbin

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/378801/publications.pdf>

Version: 2024-02-01

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  | Subsecond nuclear spin dynamics in n -GaAs. Physical Review B, 2019, 99, .   | 3.2 | 2         |
| 2  | Wide-band enhancement of the transverse magneto-optical Kerr effect in magnetite-based plasmonic crystals. Physical Review B, 2019, 100, .   | 3.2 | 25        |
| 3  | Transverse magneto-optical Kerr effect in magnetoplasmonic waveguide structures based on Fe <sub>3</sub> O <sub>4</sub> . Journal of Physics: Conference Series, 2019, 1400, 066014. | 0.4 | 1         |
| 4  | Transverse Magneto-Optical Kerr Effect in Magnetite Covered by Array of Gold Nanostripes. Semiconductors, 2018, 52, 1857-1860.   | 0.5 | 5         |
| 5  | Nobel nominations in physics (1900â€“1966): The experience of an initial systematization. Viprosov Istorii Estestvznaniya I Tehniki, 2018, 39, 681-710.                              | 0.0 | 0         |
| 6  | Spin dynamics of quadrupole nuclei in InGaAs quantum dots. Physical Review B, 2017, 95, .  | 3.2 | 5         |
| 7  | Nuclear spin cooling by helicity-alternated optical pumping at weak magnetic fields in <math>n</math>-GaAs. Physical Review B, 2017, 96, .   | 3.2 | 5         |
| 8  | Theoretical modeling of exciton-light coupling in quantum wells. Journal of Physics: Conference Series, 2016, 690, 012018.   | 0.4 | 5         |
| 9  | Radiative decay rate of excitons in square quantum wells: Microscopic modeling and experiment. Journal of Applied Physics, 2016, 119, .  | 2.5 | 50        |
| 10 | Spin phenomena in quantum dots revealed by trion photoluminescence. , 2015, , .  |     | 0         |
| 11 | Nuclear magnetic resonances in (In,Ga)As/GaAs quantum dots studied by resonant optical pumping. Physical Review B, 2014, 89, .   | 3.2 | 19        |
| 12 | Dynamic nuclear polarization and Hanle effect in (In,Ga)As/GaAs quantum dots. Role of nuclear spin fluctuations. , 2013, , .   |     | 0         |
| 13 | Hanle effect in (In,Ga)As quantum dots: Role of nuclear spin fluctuations. Physical Review B, 2013, 87, .  | 3.2 | 8         |
| 14 | 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         |
| 15 | Time-resolved Hanle effect in (In,Ga)As/GaAs quantum dots. Journal of Physics: Conference Series, 2010, 245, 012055.   | 0.4 | 2         |
| 16 | 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         |
| 17 | Electron-Nuclear Spin Polarization Dynamics in InGaAs Quantum Dots. , 2010, , .  |     | 0         |
| 18 | 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        |

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 19 | 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        |
| 20 | 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        |
| 21 | 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        |
| 22 | EFFECT OF NUCLEAR SPINS ON THE ELECTRON SPIN DYNAMICS IN NEGATIVELY CHARGED <font>InP</font> QUANTUM DOTS. International Journal of Nanoscience, 2007, 06, 275-278.                                | 0.7 | 0         |
| 23 | SPIN RELAXATION IN MAGNETIC FIELD FOR <font>InP</font> QUANTUM DOTS. International Journal of Nanoscience, 2007, 06, 257-260.  | 0.7 | 0         |
| 24 | Nuclear-spin effects in singly negatively charged InP quantum dots. Physical Review B, 2007, 75, .   | 3.2 | 29        |
| 25 | Electron-spin relaxation by the interaction with nuclear-spins in InP quantum dots. , 2007, , .  |     | 0         |
| 26 | 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        |
| 27 | Nuclear spin effects in negatively charged InP quantum dots. AIP Conference Proceedings, 2007, , .   | 0.4 | 0         |
| 28 | 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         |
| 29 | Characterization of the emitting states in quantum wells with planar nano-islands by polarization spectroscopy. AIP Conference Proceedings, 2005, , .  | 0.4 | 1         |
| 30 | Optical Orientation Of Electron And Nuclear Spins In Negatively Charged InP QDs. AIP Conference Proceedings, 2005, , .   | 0.4 | 0         |
| 31 | Submillisecond electron spin relaxation in InP quantum dots. Physical Review B, 2005, 72, .  | 3.2 | 51        |
| 32 | Spin dynamics of carriers in GaAs quantum wells in an external electric field. Physical Review B, 2004, 69, .  | 3.2 | 15        |
| 33 | Quantum beats in semiconductor quantum dots. Journal of Luminescence, 2004, 108, 177-180.  | 3.1 | 15        |
| 34 | Long-lived spin polarisation in the charged InP quantum dots. Physica E: Low-Dimensional Systems and Nanostructures, 2003, 17, 361-364.  | 2.7 | 12        |
| 35 | Spin quantum beats in charged and neutral InP quantum dots. Physica E: Low-Dimensional Systems and Nanostructures, 2003, 17, 365-366.  | 2.7 | 9         |
| 36 | Spin relaxation in InP quantum dots. Physica Status Solidi C: Current Topics in Solid State Physics, 2003, 0, 1368-1371.   | 0.8 | 0         |

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 37 | <title>Spin memory in the n-doped GaAs/AlGaAs quantum wells</title>. , 2002, 5023, 432.   |     | 0         |
| 38 | <title>Gateable spin memory in InP quantum dots</title>. , 2002, , .  |     | 0         |
| 39 | Spin relaxation times of exciton states in ZnCdSe/ZnSe low dimensional heterostructures. Physica E: Low-Dimensional Systems and Nanostructures, 2001, 10, 315-319.                  | 2.7 | 4         |
| 40 | 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         |
| 41 | Recombination emission from InAs quantum dots grown on vicinal GaAs surfaces. Semiconductors, 2000, 34, 453-461.  | 0.5 | 10        |
| 42 | 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         |
| 43 | Exciton dynamics in ZnCdSe/ZnSe quantum-well structures. Physics of the Solid State, 1998, 40, 743-744.   | 0.6 | 2         |
| 44 | Circularly polarized exciton emission and fine structure of the luminescence band in Zn <sub>1-x</sub> Cd <sub>x</sub> Se/ZnSe MQWs. Journal of Luminescence, 1997, 72-74, 869-870. | 3.1 | 4         |
| 45 | Exciton and pair recombination through alloy-trapped states in Cd <sub>1-x</sub> Se and Zn <sub>1-x</sub> Te solid solutions. Journal of Luminescence, 1991, 47, 297-301.           | 3.1 | 4         |
| 46 | Exciton absorption in Cd <sub>1-x</sub> Se and Zn <sub>1-x</sub> Te solid solutions. Journal of Crystal Growth, 1990, 101, 713-717.   | 1.5 | 29        |
| 47 | Localization of excitons and Anderson transition in Zn <sub>1-x</sub> Te solid solutions. Solid State Communications, 1984, 52, 13-16.  | 1.9 | 69        |
| 48 | Exciton mobility edge in Cd <sub>1-x</sub> Se solid solutions. Solid State Communications, 1983, 47, 5-9.   | 1.9 | 48        |
| 49 | Localized Excitons in Cd <sub>1-x</sub> Se Solid Solutions. Physica Status Solidi (B): Basic Research, 1982, 113, 589-600.  | 1.5 | 150       |
| 50 | Emission of Localized Excitons in Mixed Cd <sub>1-x</sub> Se Crystals. Physica Status Solidi (B): Basic Research, 1981, 106, K57.   | 1.5 | 18        |
| 51 | Spin dynamics of the neutral and charged InP self-assembled quantum dots. , 0, , .  |     | 0         |