

# Nikolai Bondar

## List of Publications by Year in descending order

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29  
papers

153  
citations

1478505

6  
h-index

1199594

12  
g-index

29  
all docs

29  
docs citations

29  
times ranked

101  
citing authors

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 1  | Photoluminescence quantum and surface states of excitons in ZnSe and CdS nanoclusters. Journal of Luminescence, 2010, 130, 1-7.   | 3.1 | 23        |
| 2  | Evolution of excitonic states in two-phase systems with quantum dots of IIâ€“VI semiconductors near the percolation threshold. Physica E: Low-Dimensional Systems and Nanostructures, 2010, 42, 1549-1554.  | 2.7 | 20        |
| 3  | Evolution of exciton states near the percolation threshold in two-phase systems with IIâ€“VI semiconductor quantum dots. Semiconductors, 2010, 44, 884-892.   | 0.5 | 18        |
| 4  | Optical studies of ZnSe-ZnSGaAs(100) single quantum wells grown by photo-assisted vapor phase epitaxy. Solid State Communications, 1995, 96, 793-798.   | 1.9 | 14        |
| 5  | Bond-conversion model for photoinduced effects in glassy Geâ€“S chalcogenides. Journal of Molecular Structure, 2000, 555, 175-178.  | 3.6 | 13        |
| 6  | Exciton photoluminescence of ZnSe and CdS quantum dots in borosilicate glasses prepared by the sol-gel method. Optics and Spectroscopy (English Translation of Optika I Spektroskopiya), 2004, 97, 572-579. | 0.6 | 9         |
| 7  | Localized excitonic states in ZnSâ€“ZnSe single quantum wells. Superlattices and Microstructures, 1998, 24, 143-147.  | 3.1 | 6         |
| 8  | Exciton energy states and photoluminescence spectra of the strained-layer ZnS-ZnSe superlattices. Semiconductors, 2000, 34, 568-574.  | 0.5 | 6         |
| 9  | Quantum and surface states of charge carriers in the optical spectra of nanoclusters in a low-permittivity matrix. Low Temperature Physics, 2008, 34, 55-62.  | 0.6 | 6         |
| 10 | Contributions of the interior and surface states of charge carriers to the emission spectra of CdS quantum dots in borosilicate glasses. Semiconductors, 2006, 40, 934-940.                                 | 0.5 | 5         |
| 11 | Percolation and excitonic luminescence in SiO <sub>2</sub> /ZnO two-phase structures with a high density of quantum dots randomly distributed over a spherical surface. Semiconductors, 2011, 45, 474-480.  | 0.5 | 5         |
| 12 | Formation of clusters and the percolation threshold in a two-phase system with a random distribution of ZnSe quantum points. Low Temperature Physics, 2009, 35, 232-237.                                    | 0.6 | 4         |
| 13 | Emission and percolation of excitons in dense ssemblies of quantum dots on the spherical surface. Physica E: Low-Dimensional Systems and Nanostructures, 2011, 43, 1882-1886.                               | 2.7 | 4         |
| 14 | Electronic Excitation Energy Transfer in an Array of CdS Quantum Dots on a Quasi-Two-Dimensional Surface. Semiconductors, 2019, 53, 188-194.  | 0.5 | 4         |
| 15 | Effect of localized-exciton energy relaxation on the emission spectrum of ZnS-ZnSe single quantum wells. Physics of the Solid State, 2000, 42, 1529-1534.   | 0.6 | 3         |
| 16 | Photoluminescence and Confinement of Excitons in Disordered Porous Films. Semiconductors, 2016, 50, 364-371.  | 0.5 | 3         |
| 17 | Efficient and sub-nanosecond resonance energy transfer in close-packed films of ZnSe quantum dots by steady-state and time-resolved spectroscopy. Superlattices and Microstructures, 2020, 138, 106382.     | 3.1 | 3         |
| 18 | Free and bound states of excitons in a percolation cluster of ZnSe quantum dots in a dielectric matrix. Low Temperature Physics, 2011, 37, 1026-1031.   | 0.6 | 2         |

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 19 | Optical characteristics of chalcogenide quantum-well structures grown by laser-induced vapor-phase epitaxy. <i>Quantum Electronics</i> , 1993, 23, 543-544.   | 1.0 | 1         |
| 20 | Local exciton states at isoelectronic centers in superlattices. <i>Low Temperature Physics</i> , 2004, 30, 171-178.   | 0.6 | 1         |
| 21 | Exciton photoluminescence and energy in a percolation cluster of ZnSe quantum dots as a fractal object. <i>Semiconductors</i> , 2012, 46, 625-630.  | 0.5 | 1         |
| 22 | Quantum-Size Effect and Exciton Percolation in Porous and Disordered Films on the Basis of Spherical "Core/Shell" Elements. <i>Ukrainian Journal of Physics</i> , 2015, 60, 648-655.  | 0.2 | 1         |
| 23 | Influence of a Capping Ligand on the Band Gap and Excitonic Levels in Colloidal Solutions and Films of ZnSe Quantum Dots. <i>Ukrainian Journal of Physics</i> , 2019, 64, 425.  | 0.2 | 1         |
| 24 | Photoluminescence of localized excitons in coherently strained ZnS-ZnSe/GaAs(001) quantum wells. <i>Semiconductors</i> , 1997, 31, 1244-1246.   | 0.5 | 0         |
| 25 | Photostructural transformations in amorphous Ge-S thin films: a light-scattering study. , 1998, 3359, 355.  |     | 0         |
| 26 | <title>Photostructural transformations in amorphous Ge-S thin films: a photoluminescence study</title>. , 2003, , .   |     | 0         |
| 27 | Emission and energy relaxation of excitons in quantum dots with disordered interfaces grown in a low-permittivity matrix. <i>Optics and Spectroscopy (English Translation of Optika I Spektroskopiya)</i> , 2010, 108, 728-734. | 0.6 | 0         |
| 28 | Phase Per Colation Transition and Emission of Excitons in Films With CdS Quantum Dots on SiO2 Surface. <i>Journal of Applied Spectroscopy</i> , 2018, 85, 875-879.  | 0.7 | 0         |
| 29 | Percolation Threshold and Luminescence in Films of Binary Mixtures of Spherical Particles Covered with Quantum Dots. <i>Ukrainian Journal of Physics</i> , 2017, 62, 874-882.   | 0.2 | 0         |