

Значимые научные публикации Кафедры ОФКН за 2019-2023г.

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2. M.A. Mkrtchyan, D.B. Hayrapetyan, E.M. Kazaryan, H.A. Sarkisyan, S. Baskoutas, D.A. Firsov, M. Ya. Vinnichenko, One-and few-particle optics of the valence band in lens-shaped Ge/Si quantum dots, Physica E: Low-dimensional Systems and Nanostructures, vol.150, 115703, 2023.
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3. P.A. Mantashyan, G.A. Mantashian, D.B. Hayrapetyan, Talbot effect in InAs/GaAs coupled cylindrical quantum dots ensemble, Physica E: Low-dimensional Systems and Nanostructures, vol.148, 115662, 2023.
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7. M.A. Mkrtchyan, D.B. Hayrapetyan, E.M. Kazaryan, H.A. Sarkisyan, M.Ya. Vinnichenko, V.A. Shalygin, D.A. Firsov, L.S. Petrosyan, Effects of an external magnetic field on the interband and intraband optical properties of an asymmetric biconvex lens-shaped quantum dot, *Nanomaterials*, 12(1), 60, 2021.
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8. G.A. Mantashian, P.A. Mantashyan, H.A. Sarkisyan, E.M. Kazaryan, G. Bester, S. Baskoutas, D.B. Hayrapetyan, Exciton-Related Raman Scattering, Interband Absorption and Photoluminescence in Colloidal CdSe/CdS Core/Shell Quantum Dots Ensemble, *Nanomaterials*, 11(5), 1274, 2021.
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9. T.A. Sargsian, M.A. Mkrtchyan, H.A. Sarkisyan, D.B. Hayrapetyan, Effects of external electric and magnetic fields on the linear and nonlinear optical properties of InAs cylindrical quantum dot with modified Pöschl-Teller and Morse confinement potentials, *Physica E: Low-dimensional Systems and Nanostructures*, vol. 126, 114440, 2021.
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10. D.B. Hayrapetyan, E.M. Kazaryan, M.A. Mkrtchyan, H.A. Sarkisyan, Long-wave absorption of Few-Hole gas in prolate ellipsoidal Ge/Si quantum dot: implementation of analytically solvable Moshinsky model, *Nanomaterials*, 10(10), 1896, 2020.
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11. H.A. Sarkisyan, D.B. Hayrapetyan, L.S. Petrosyan, E.M. Kazaryan, A.N. Sofronov, R.M. Balagula, D.A. Firsov, L.E. Vorobjev, A.A. Tonkikh, Realization of the Kohn's theorem in Ge/Si quantum dots with hole gas: Theory and experiment, *Nanomaterials*, 9(1), 56, 2019.
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