

Ֆիզիկայի գիտահետազոտական ինստիտուտ

Պինդ մարմնի ֆիզիկայի լաբորատորիա

Ավագ գիտական աշխատող

📖 Հրատարակումներ

Հոդված

The Use of Biosilica to Increase the Compressive Strength of Cement Mortar: The Effect of the Mixing Method

Nelli G. Muradyan, Avetik A. Arzumanyan, Marine A. Kalantaryan, Yeghiazar V. Vardanyan,

Mkrtich Yerosyan, Malgorzata Ulewicz, David Laroze, Manuk G. Barseghyan

MATERIALS 2023 5516

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Electronic and Magnetic Properties of Laser Dressed Quantum Dot and Ring with Rashba Spin-Orbit Coupling

Vram Mughnetsyan, Aram Manaselyan, Manuk Barseghyan, Albert Kirakosyan, Laura M. Perez,

David Laroze

Springer Proceedings in Physics (Optics and Its Applications) 2022 145-154

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Effective tuning of isotropic and anisotropic properties of quantum dots and rings by external fields

Manuk G. Barseghyan, Aram Manaselyan, Albert A. Kirakosyan, Laura M. Perez, David Laroze

Physica E: Low-dimensional Systems and Nanostructures 2020 113807(1-7)

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Effect of the impurity on the Aharonov-Bohm oscillations and the intraband absorption in GaAs/ Ga_{1-x}Al_xAs quantum ring under intense THz laser field

M.G. Barseghyan, V.N. Mughnetsyan, L.M. Perez, A.A. Kirakosyan, D. Laroze

Physica E: Low-dimensional Systems and Nanostructures 2019 91-97

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Size or shape - What matters most at the nanoscale?

I. Popescu, M. Hristache, S.-S. Ciobanu, M.G. Barseghyan, J.A. Vinasco, A.L. Morales, A. Radu, C.A. Duque

Computational Materials Science 2019 13-22

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Intersubband optical properties of a laser-dressed asymmetric triple quantum well nanostructure

F. Urgan, M.E. Mora-Ramos, M.G. Barseghyan, L.M. Pérez, D. Laroze

Physica E: Low-dimensional Systems and Nanostructures 2019 113647(1-6)

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Rashba splitting of Dirac points and symmetry breaking in strained artificial graphene

Vram Mughnetsyan, Aram Manaselyan, Manuk Barseghyan, Albert Kirakosyan, David Laroze

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Controllable continuous evolution of electronic states in a single quantum ring

Tapash Chakraborty, Aram Manaselyan, Manuk Barseghyan, David Laroze

Physical Review B 2018 041304(R),(1-5)

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Effective tuning of electron charge and spin distribution in a dot-ring nanostructure at the ZnO interface

Tapash Chakraborty, Aram Manaselyan, Manuk Barseghyan

Physica E: Low-dimensional Systems and Nanostructures 2018 63-66

<https://www.journals.elsevier.com/physica-e-low-dimensional-systems-and-nanostr...>

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Modeling of anisotropic properties of double quantum rings by the terahertz laser field

Henrikh M. Baghramyan, Manuk G. Barseghyan, Albert A. Kirakosyan, Judith H. Ojeda, Jean Bragard,

David Laroze

Scientific Reports 2018 6145(1-10)

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Electronic, Magnetic and Optical Properties of Quantum Rings in Novel Systems

Tapash Chakraborty, Aram Kh. Manaselyan, Manuk G. Barseghyan

Physics of Quantum Rings 2018 283-326

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Intense Terahertz Radiation Effect on Electronic and Intraband Optical Properties of Semiconductor Quantum Rings

H.M. Baghramyan, M.G. Barseghyan, A.A. Kirakosyan, D. Laroze

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Laser driven intraband optical transitions in two-dimensional quantum dots and quantum rings

M.G. Barseghyan, A.A. Kirakosyan, D. Laroze

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Irregular Aharonov-Bohm effect for interacting electrons in a ZnO quantum ring

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LASER DRIVEN IMPURITY STATES IN TWO DIMENSIONAL CONCENTRIC DOUBLE QUANTUM RINGS

M. G. BARSEGHYAN

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Molecular spectrum of laterally coupled quantum rings under intense terahertz radiation

Henrikh M. Baghrmalyan, Manuk G. Barseghyan, David Laroze

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Influence of lateralel ectric field on intraband optical absorption in concentric double quantum rings

H.M. Baghrmalyan, M.G.Barseghyan, D.Laroze, A.A.Kirakosyan

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Impurity-modulated Aharonov-Bohm oscillations and intraband optical absorption in quantum dot-ring nanostructures

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Intraband optical absorption in a single quantum ring: Hydrostatic pressure and intence laser field effects

M.G. Barseghyan

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Laser driven impurity states in two-dimensional quantum dots and quantum rings

D. Laroze, M.G. Barseghyan, A. Radu, A.A. Kirakosyan

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Donor impurity-related intraband optical absorption in a single quantum ring: Hydrostatic pressure and intense laser field effects

M.G. Barseghyan

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Energy levels and far-infrared optical absorption of impurity doped semiconductor nanorings: Intense laser and electric fields effects

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Chemical Physics 2016 1-4

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Impurity-related intraband absorption in coupled quantum dot-ring structure under lateral electric field

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