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Research Institute of Physics

Ֆիզիկո-մաթեմատիկական և արհեստական բանականության լաբորատորիա
Senior researcher

Education

Institution	Moscow Institute of Physics and Technology
Faculty	Department of Problems of Physics and Energetics
Date	2010 - 2012
Degree name	Masters

Institution	Moscow Institute of Physics and Technology
Faculty	Department of Problems of Physics and Energetics
Date	2006 - 2010
Degree name	Bachelor

Scientific Rank/degree

Institution	P.N. Lebedev Physical Institute
Date	2017
Degree name	Candidate
Specialty	Physico-mathematical sciences
Scientific Supervisor	A.S. Zolot'ko
Research Topic	Light-induced orientational effects in liquid crystalline polymers and composite systems

Publications

Article
Light-controllable liquid crystal platform for microparticle oscillations and transport
Sergey Shvetsov, Tetiana Orlova, Aleksandr Hayrapetyan, Alexey Vasil'ev, Mushegh Rafayelyan
Soft Matter 2024 6920-6928

Article
NON-LOCAL Q-TENSOR APPROACH FOR DESCRIPTION OF ELASTIC DEFORMATIONS OF NEMATIC LIQUID CRYSTALS AT SUB-MICRON SCALE [ПРИМЕНЕНИЕ НЕЛОКАЛЬНОГО Q-ТЕНЗОРА ДЛЯ ОПИСАНИЯ УПРУГИХ ДЕФОРМАЦИЙ ЖИДКИХ КРИСТАЛЛОВ НА СУБМИКРОННОМ МАСШТАБЕ]
Сергей Александрович Швецов, Павел Анатольевич Стаценко, Максим Николаевич Хомяков, Сергей Иванович Трашкеев
Жидкие кристаллы и их практическое использование (Liquid Crystals and their Application) 2023 66-76

Conference

Bragg-Berry cavities: orbital angular momentum manipulation of broadband light beams

Sergey Shvetsov, Vahram Grigoryan, Valeri Abrahamyan, Nune Hakobyan, Hakob Margaryan,

Mushegh Rafayelyan
