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Publications

Article

Light-induced isotropic pen for generation of topological solitons and hopfion–toron transition in frustrated chiral nematic films
Sergey A. Shvetsov, Darina D. Darmoroz, Alexey Vasil’ev, Tetiana Orlova, Igor S. Lobanov, Mushegh Rafayelyan
Chaos Solitons & Fractals 2025 116905

Article

Fine Tuning of the Rotational Speed of Light-Driven, Second-Generation Molecular Motors by Fluorine Substitution
Ivan Tambovtsev, Yorick L. A. Schmerwitz, Gianluca Levi, Darina D. Darmoroz, Pavel V. Nesterov, Tetiana Orlova, Hannes Jónsson
The Journal of Physical Chemistry Letters 2025 4014 - 4020

Article

Large Supramolecular Patterns in Photoactive Chiral Liquid Crystals for Light-Controllable Soft Micromechanical Systems
Darina Darmoroz, Tetiana Orlova, Anastasiia Piven
Small Structures 2025 e202500506

Article

Machine learning methods for liquid crystal research: phases, textures, defects and physical properties
Anastasiia Piven, Darina Darmoroz, Ekaterina Skorb, Tetiana Orlova
Soft Matter 2024 1380 - 1391

Article

Reactions of 5-(Trialkyl)silylpent-1-en-4-yn-3-ones with Hydrazines: Original Synthetic Routes to Luminescent Substances Containing Azole Motifs
Ivan S. Odin, Kareem V. Gordon, Radik N. Itakhunov, Dmitry M. Gusev, Sergey A. Sokov, Anna V. Vologzhanina, Stanislav A. Grabovskiy, Ilya M. Sosnin, Anton I. Ukolov, Olga I. Orlova, Vladimir A. Lazarenko, Pavel V. Dorovatovskii, Darina D. Darmoroz, Anastasiia O. Piven, Tetiana Orlova, Alexander A. Golovanov
SYNTHESIS 2024 243-266

Article

Machine learning for soft and liquid molecular materials

Tetiana Orlova, Anastasiia Piven, Darina Darmoroz, Timur Aliev, Tamer Mahmoud Tamer Abdel Razik, Anton Boitsev, Natalia Grafeeva, Ekaterina Skorb

Digital Discovery 2023 298-315

Article

МЕТОД ОПТИЧЕСКОЙ МОЛЕКУЛЯРНОЙ ГЕНЕРАЦИИ ЛОКАЛИЗОВАННЫХ ХИРАЛЬНЫХ СТРУКТУР В ФОТОАКТИВНЫХ ЖИДКОКРИСТАЛЛИЧЕСКИХ ПЛЕНКАХ

Д. Д. ДАРМОРОЗ, А. О. ПИВЕНЬ, Т. ОРЛОВА

Izvestiâ vyssih učebnyh zavedenij Priborostroenie 2023 306 - 312

Article

Optical Imaging and Analytical Design of Localized Topological Structures in Chiral Liquid Crystals

Igor Lobanov, Elena Aksenova, Tetiana Orlova, Darina Darmoroz, Valery Uzdin, Alexei D. Kiselev

Symmetry 2022 2476
