



# Molecular Crystals and Liquid Crystals Science and Technology. Section A. Molecular Crystals and Liquid Crystals

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## Guest Editors' Foreword

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## GUEST EDITORS' FOREWORD

The international conferences "Electronic Processes in Organic Materials" (ICEPOM) are organized periodically in different regions of Ukraine to improve the international cooperation of scientists in the field of organic materials. Prof. Martin Pope is the initiator of this conference series.

The III International Conference "Electronic Processes in Organic Materials" (ICEPOM-3) has was in Kharkiv (Ukraine) on May 22-28, 2000.

Interest of scientists in investigation of electronic processes in organic materials sufficiently increased during the last years. The number of applications submitted to the ICEPOM conferences reflects this trend: about 70 applications were submitted to ICEPOM-1, 120 – to ICEPOM-2, and 170 – to ICEPOM-3.

The geographical distribution of the participants widened. Scientists from 15 countries (USA, Japan, many European countries) submitted their papers to the conference.

The objective of the conference was to discuss the physical phenomena and processes in organic materials and their interface with other materials as well as the prospects of their practical application.

### SCIENTIFIC PROGRAM:

- Energy structure of organic materials, processes of excitons formation and transport, photogeneration, transport and recombination of charge carriers;
- Electronic processes at the interface of organic materials with metals, organic and inorganic media, multilayer structures; Electro-optic processes near the interface of liquid crystals with photoconductors and metals;
- Electronic processes in low-dimensional structures (macromolecules, nanostructures, molecular wires, superlattices etc.);
- Aging, degradation and destruction of organic systems and their effect on efficiency of generation, transport and recombination of excitons and charge carriers;
- Novel organic materials and technologies;
- Physical aspects of organic materials application (basic elements of electronics, electronic sensors, recording media, solar cells and others).

More than 100 scientists from 15 countries took part in the Conference. Fifteen plenary and three poster scientific sessions were held. The ICEPOM conferences promote the popularization of technical development in the field of physics of organic materials. Reviews of the current state of the art in organic solar cells and organic light emitting diodes presented at this conference. Special topical discussions (round tables) on these two problems (organic solar cells and organic light emitting diodes), as well as on photo-induced phase transitions were organized for the first time in the history of the ICEPOM conferences.

The participants of the Conference agreed to continue the series of conferences, holding a next meeting (ICEPOM-4) in the Western part of Ukraine on May, 2002.

In the name of the Organizing Committee, we would like to express our deep gratitude to the conference sponsors: STCU, INTAS, MCLC and Gordon and Breach Science Publishers.

We are very grateful to Editor in Chief M.M. Labes and to Senior Editor Linda Mark for their kind assistance in the organization of the present publication.

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