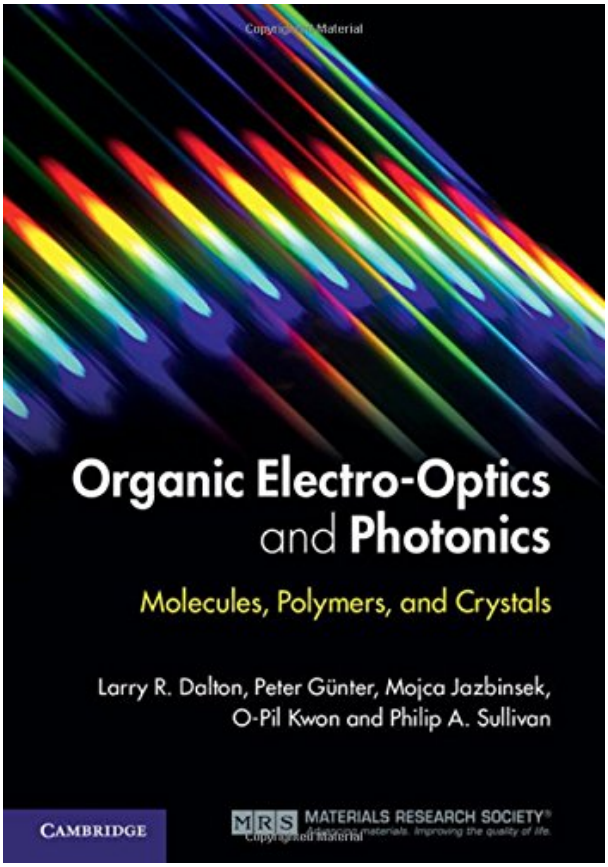
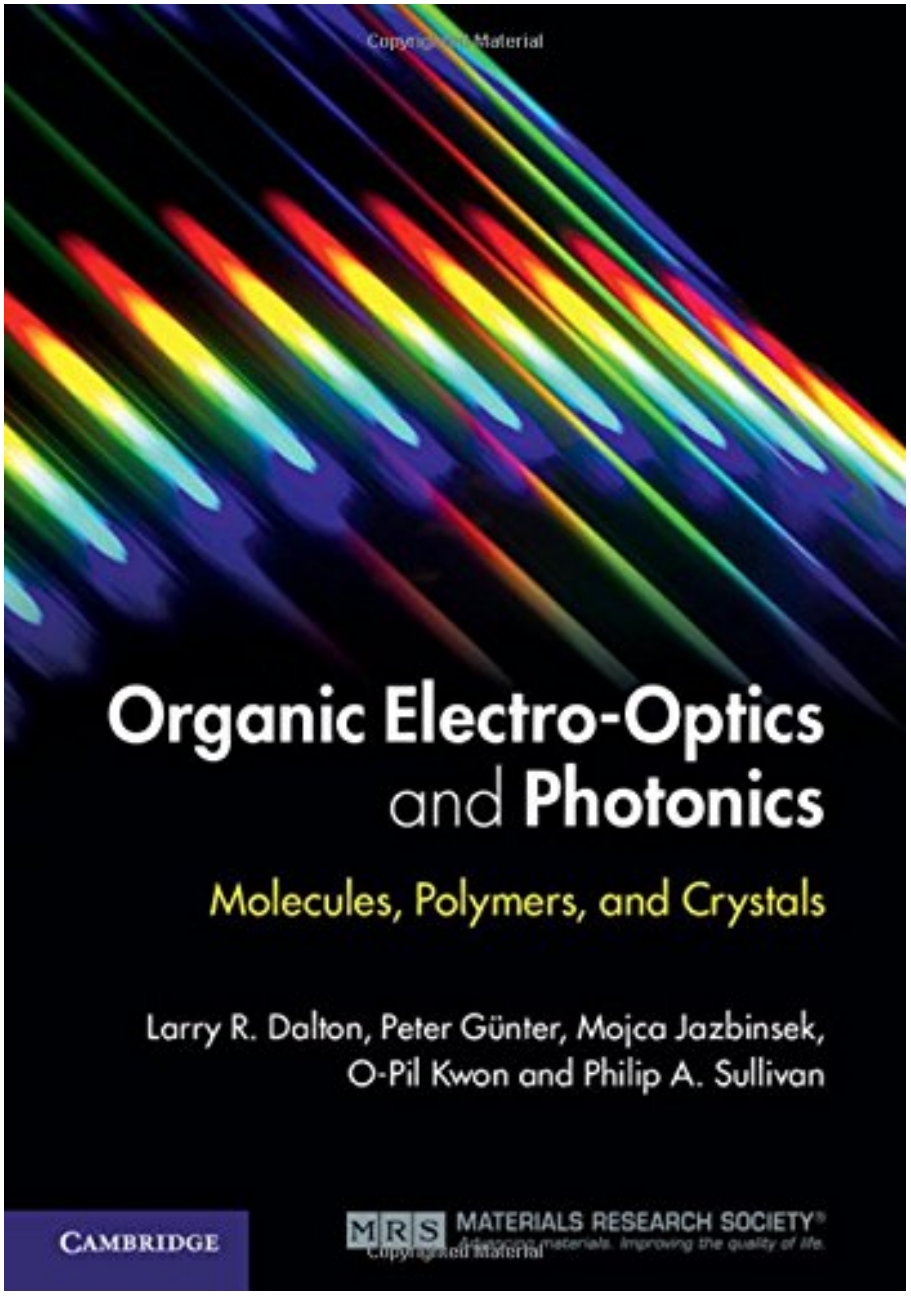
ORGANIC ELECTRO-OPTICS AND PHOTONICS: MOLECULES, POLYMERS AND CRYSTALS BY LARRY R. DALTON, PETER GüNTER, MOJCA JAZBINSEK, O-PIL KWON





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Review
"The book is very clearly written and is beautifully illustrated. It deserves to be read by anybody working in photonics."
Mircea Dragoman, Optics and Photonics News

About the Author
Larry R. Dalton is the Founding Director of the National Science Foundation Science and Technology Center on Materials and Devices for Information Technology Research, Director of the DARPA MORPH program, and Director of two Department of Defense MURI Centers. He received the American Chemical Society Award in the Chemistry of Materials, and the IEEE/LEOS William Streifer Scientific Achievement Award. He is a Fellow of the American Chemical Society, the Materials Research Society, the Optical Society of America, the SPIE, and the American Association for the Advancement of Science.

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This definitive guide to modern organic electro-optic and photonic technologies provides critical insight into recent advances in organic electro-optic materials, from the underlying quantum and statistical concepts through to the practical application of materials in modern devices and systems. • Introduces theoretical and experimental methods for improving organic electro-optic and photonic technologies • Reviews the central concepts of nonlinear optics, focusing on multi-scale theoretical methods • Provides clear insight into the structure and function relationships critical to optimizing the performance of devices based on organic electro-optic materials. Serving as a primer for the systematic nano-engineering of soft matter materials, this is an invaluable resource for those involved in the development of modern telecommunication, computing, and sensing technologies depending on electro-optic technology. It is also an indispensable work of reference for academic researchers and graduate students in the fields of chemistry, physics, electrical engineering, materials science and engineering, and chemical engineering.

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