

Organic Electronics in Sensors and Biotechnology (McGraw-Hill Biophotonics)

By Ruth Shinar, Joseph Shinar



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Learn about light, temperature, and pressure monitors, integrated flexible pyroelectric sensors, sensing of organic and inorganic compounds, and design of compact photoluminescent sensors. You will also get full details on organic lasers, organic electronics in memory elements, disease and pathogen detection, and conjugated polymers for advancing cellular biology.

- Monitor organic and inorganic compounds with OFETs
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- Work with organic LEDs, photodetectors, and photovoltaic cells
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- Build PL-based chemical and biological sensing modules and arrays
- Design organic semiconductor lasers and memory elements
- Use luminescent conjugated polymers as optical biosensors
- Deploy polymer-based switches and ion pumps at the microfluidic level

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Editorial Review

About the Author

Ruth Shinar is a Senior Scientist at the Microelectronics Research Center of the Institute of Physical Research and Technology and Adjunct Professor of Electrical and Computer Engineering at Iowa State University.

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