



Organic and Printed Electronics: Fundamentals and Applications

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The field of organic and printed electronics is well established in terms of academic, scientific, and technological research but is still an emerging one in terms of mass industrial applications such as OLED displays and lighting and organic photovoltaics. This book provides a comprehensive introduction to organic and printed electronics, their fundamental aspects, core technologies, and applications, and it is the first book of its kind specifically designed to address students in their final undergraduate or beginning graduate studies, as well as engineers interested in approaching this field.

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Editorial Review

About the Author

Giovanni Nisato is a business and technology development senior manager at CSEM Muttenz, Switzerland, and is responsible for activities in printed electronics and photovoltaics. He currently serves on the board of the Organic and Printed Electronics Association (OE-A), where he created the Working Group Encapsulation and has been coordinating the Organic Photovoltaic Roadmap since 2011. Dr. Nisato's prior experience includes a decade at Philips Research, Eindhoven, the Netherlands. He has also participated in EU-funded projects as well as coordinated them. His nanoscience research experience includes work at the NIST's Polymers Division in Gaithersburg, USA. He holds a PhD in physics from the Université Louis Pasteur (now University of Strasbourg), France.

Donald Lupo is a professor in the Department of Electronics and Communications Engineering and heads the Laboratory for Future Electronics at Tampere University of Technology, Finland, since August 2010. He has a diverse career spanning 24 years in industrial research and development in functional materials for photonics and electronics, during which he has worked in chemical, electronic, and display industries and as an independent consultant, working for and with companies such as Hoechst AG, Sony Europe, NTERA, UPM Kymmene, and Merck. During his industrial career, he led groundbreaking work in organic nonlinear optics, polymer LEDs, solid-state dye solar cells, and paper-like displays. He is author on over 60 publications and inventor on over 40 patents and applications.

Simone Ganz studied chemistry and management at Ulm University, Germany, and completed her Diplom (master's equivalent) in battery technologies at VARTA Microbattery GmbH, Germany. Subsequently, she joined the Functional Printing Group at the Institute of Printing Science and Technology, Technische Universität Darmstadt, Germany, to pursue her PhD. Her current research focuses on printing techniques, especially gravure and flexography, for organic field-effect transistors. As co-spokesperson of the OE-A's Working Group Education, she furthers academic education within the field of organic electronics.

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