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Conference Dates

12–16 August 2012

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14–16 August 2012

San Diego Convention Center
San Diego, California, USA

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Technologies

- Organic Materials
- Liquid Crystals
- OLEDs
- OPVs
- OTFTs
- Organic Semiconductors
- Large-Scale Fabrication

Organic Photonics + Electronics

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Present your latest work to an audience exploring new developments in organic photonics, electronics, and their applications

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SPIE Organic Photonics + Electronics provides the broad interdisciplinary reach you need to advance your research in organic materials, applications, and fabrication.

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Symposium Chair:

Zakya H. Kafafi,
National Science Foundation (USA)

Technical Organizing Committee:

Zhenan Bao,
Stanford Univ. (USA)

Rachel Jakubiak,
Air Force Research Lab. (USA)

Zakya H. Kafafi,
National Science Foundation (USA)

Iam Choon Khoo,
The Pennsylvania State Univ. (USA)

Iain McCulloch,
Imperial College London (United Kingdom)

Jean-Michel Nunzi,
Queen's Univ. (Canada)

Ruth Shinar,
Iowa State Univ. (USA)

Franky So,
Univ. of Florida (USA)



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- See where your work fits into global optics and photonics research

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SPIE Optics + Photonics is a leading conference on green photonics technologies such as energy, sustainability, conservation, and environmental monitoring.



Watch for this icon next to conferences discussing innovative ways to help our planet.

Optical Processes in Organic Materials and Nanostructures (OP210)

Conference Chair: **Rachel Jakubiak**, Air Force Research Lab. (United States)

Cochairs: **Manfred Eich**, Technische Univ. Hamburg-Harburg (Germany); **Jean-Michel Nunzi**, Queen's Univ. (Canada)

Program Committee: **Kevin D. Belfield**, Univ. of Central Florida (United States); **Antao Chen**, Univ. of Washington (United States); **Koen Clays**, Katholieke Univ. Leuven (Belgium); **Alain F. Fort**, Institut de Physique et Chimie des Matériaux de Strasbourg (France); **Theodore G. Goodson III**, Univ. of Michigan (United States); **François Kajzar**, Polytechnical Univ. of Bucharest (Romania); **Satoshi Kawata**, Osaka Univ. (Japan); **Mark G. Kuzyk**, Washington State Univ. (United States); **Charles Y. C. Lee**, Air Force Office of Scientific Research (United States); **Kwang-Sup Lee**, Hannam Univ. (Korea, Republic of); **Geoffrey A. Lindsay**, Naval Air Warfare Ctr. Aircraft Div. (United States); **Aristides Marciano**, Delaware State Univ. (United States); **Robert A. Norwood**, College of Optical Sciences, The Univ. of Arizona (United States); **André P. Persoons**, Katholieke Univ. Leuven (Belgium); **Joy E. Rogers-Haley**, Air Force Research Lab. (United States); **Jayan Thomas**, Univ. of Central Florida (United States)

Highlights:

- Joint session with Organic Light Emitting Materials and Devices XVI (OP212) on *Organic Based Lasers*
- Joint session with Plasmonics: Metallic Nanostructures and Their Optical Properties X (OP104) on *Organic Plasmonic Hybrid Materials*
- Addition of *Holographic Organic Materials and Nanostructures*

The basic focus of this conference is the interaction of light with organic-based materials and those activities necessary for the development and application of organic materials in photonics. Advances in organic photonic materials coupled with the increasing sophistication of micro- and nanoscale fabrication technology enables innovative use of organics in image processing and sensors, integrated optics, data storage, diffractive optics, waveguides, optical circuitry, biophotonics, and other applications. Technological success relies on interdisciplinary research derived from widely varying fields such as chemistry, condensed matter physics, optics, and electrical engineering. This conference is a forum for those who share a common interest in the research and development of organic materials systems for advanced photonic systems and devices.

Materials of interest include organic and hybrid materials that interact with electromagnetic radiation to induce nonlinear optical phenomena, waveguiding, photoreactions, gain, magneto-optical effects, or charge generation. Effects of the light-matter interactions may result in harmonic generation, holographic patterning, multiphoton absorption, second and third order NLO effects, charge transport, or photopolymerization. Issues such as the development of processing conditions, device related research, and emerging applications are also welcome.

Session topics include, but are not be limited to:

Nonlinear Optical Materials and Applications

- Design and synthesis of new optical molecules and polymers, key structure-property relationships
- Dynamics of light-matter interactions
- Materials for NLO imaging and photodynamic therapy, medical diagnostics, and treatment
- Nonlinear optical device design and fabrication, optical limiters

- Theoretical understanding of the mechanisms leading to the linear and nonlinear optical properties of organics
- Electro-optic, elasto-optic, magneto-optic measurements, and device characterization
- Frequency conversion, higher harmonic generation, sum frequency generation, optical parametric oscillators and optical parametric amplification.

Organic-Based Lasers

- Organic gain media, stimulated emission
- Microcavity design, wavelength tuning
- Pulsed or cw operation
- Electrical or optical pumping.

Plasmon Enhancement

- Field concentration for nonlinear and linear optics
- Plasmonically enhanced emission, surface enhanced Raman scattering
- Surface plasmon polariton coupling, Fano resonances
- Plasmon resonance energy transfer.

Organically Functionalized and Nanostructured Materials

- Functional coupling between inorganic and organic materials; nanoparticles; graphene
- Photonic crystals, photonic band gap materials
- Self-organized and self-assembled photonic structures
- Photopolymerized micro- and nanostructures
- Electro-optical materials, space charge fields.

Holographic Materials

- Photopolymers, organic photorefractive materials, multifunctional polymers, polymer nanocomposites, dye-doped LC polymers, polymer dispersed liquid crystalline materials, photopolymerization, photoisomerization
- 3D patterning, holographic recording and recovery, polarization holography, multiphoton processes
- Birefringence and electro-optic properties, photovoltaic effects, charge transport and trapping
- Optical data storage and image processing, wave guiding and wavefront correction, laser-based ultrasound detection.

Organic Photonics and Electronics

Liquid Crystals XVI (OP211)

Conference Chair: **Iam Choon Khoo**, The Pennsylvania State Univ. (United States)

Program Committee: **Timothy J. Bunning**, Air Force Research Lab. (United States); **Shaw-Hong Chen**, Univ. of Rochester (United States); **Neil Collings**, Univ. of Cambridge (United Kingdom); **Jean-Pierre Huignard**, Jphopto (France); **Tomiki Ikeda**, Chuo Univ. (Japan); **Oleg D. Lavrentovich**, Kent State Univ. (United States); **Francesco Simoni**, Univ. Politecnica delle Marche (Italy); **David M. Walba**, Univ. of Colorado at Boulder (United States)

Liquid crystals are technologically important electro-optic materials, as they possess many unique and useful physical and optical properties. They are now widely used in various optoelectronic display, beam/image, and optical information processing systems. Liquid crystals also possess extraordinarily large nonlinear optical responses, which are now finding an ever increasing usage in practical devices and systems ranging in response times from sub-picosecond to seconds, covering a wide spectral range from near UV to infrared. In recent years, innovation in nano-fabrication and development of nano-particulates have also led to the emergence of liquid crystalline meta-materials that possess new unique functionalities and properties that hold high promises for applications in advanced optical and photonic devices/systems, besides opening several avenues for basic material research.

This conference provides a forum for presentations of research results on all aspects of liquid crystal material and optical sciences and technologies. The emphasis is on new, novel, or unique liquid crystalline materials, optical properties and phenomena and their applications in display, information, and image processing systems, and nonlinear optics.

Papers are solicited from the following and related topics:

- new liquid crystalline materials, soft matters and complex fluids, possessing large and broadband birefringence, low viscosity, fast response times, ferroelectricity, chirality and other characteristics suitable for advanced electro-optical applications
- new optical and electro-optical processes and phenomena of fundamental or applied significance
- display, holography, storage, and switching materials, processes, and devices
- nano-particulate and nano-structured liquid crystalline meta-materials
- nonlinear optics: materials, phenomena, and applications.

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Organic Light Emitting Materials and Devices XVI (OP212)



Conference Chair: **Franky So**, Univ. of Florida (United States)

Cochair: **Chihaya Adachi**, Kyushu Univ. (Japan)

Program Committee: **Andrew B. Holmes**, Bio21 Molecular Science and Biotechnology Institute (Australia); **Arvid Hunze**, Siemens AG (Germany); **Hisao Ishii**, Chiba Univ. (Japan); **Hironori Kaji**, Kyoto Univ. (Japan); **Jang-Joo Kim**, Seoul National Univ. (Korea, Republic of); **Jaewon Lee**, LG Display (Korea, Republic of); **Mathew K. Mathai**, Plextronics, Inc. (United States); **Jongwook Park**, The Catholic Univ. of Korea (Korea, Republic of); **Yong-Jin Pu**, Yamagata Univ. (Japan); **Ifor D. W. Samuel**, Univ. of St. Andrews (United Kingdom); **Joseph Shinar**, Ames Lab. (United States); **Richard J. Wilson**, Cambridge Display Technology Ltd. (United Kingdom); **Takeshi Yamada**, Sumitomo Chemical Co., Ltd. (Japan)

This conference centers on the science and technology of organic light emitting materials and devices for flat panel displays, solid state lighting and lasers. Applications range from hand-held displays to large flat panel screens, large area distributed light sources, and next generation organic lasers. The scope of the conference will cover the following areas:

- highly efficient molecular and polymeric light emitters and devices
- stable devices based on novel materials or device processing
- efficient white emitting materials and devices for solid state lighting
- approaches for enhancing device light extraction efficiency
- microcavity effects for solid state lighting and lasers
- new materials and concepts for solid state lasers
- device failure mechanisms and durability studies
- novel approaches, patterning, and driving schemes for full color displays and solid state lighting
- processes for large area fabrication of flat panel displays
- novel substrates and electrodes for flexible devices
- encapsulation techniques for flexible devices
- organic light emitting transistors
- physics of carrier injection and transport.

Highlights:

- Joint session on Organic Solid State Lighting
- Joint session on Carrier Injection and Transport
- Joint session on Light Emitting Organic Thin Film Transistors
- Special session on Solid State Lasers based on Organic Thin Films, Molecular, and Photonic Crystals

Manuscripts for the conference proceedings will be peer reviewed.

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Organic Photovoltaics XIII (OP213)



Conference Chair: **Zakya H. Kafafi**, National Science Foundation (United States)

Cochairs: **Christoph J. Brabec**, Friedrich-Alexander-Univ. Erlangen-Nürnberg (Germany); **Paul A. Lane**, U.S. Naval Research Lab. (United States)

Program Committee: **Paul L. Burn**, The Univ. of Queensland (Australia); **Katsuhiko Fujita**, Kyushu Univ. (Japan); **René A. J. Janssen**, Technische Univ. Eindhoven (Netherlands); **Bernard Kippelen**, Georgia Institute of Technology (United States); **Barry P. Rand**, IMEC (Belgium); **Ifor D. W. Samuel**, Univ. of St. Andrews (United Kingdom); **Sean Shaheen**, Univ. of Denver (United States); **Jiangeng Xue**, Univ. of Florida (United States); **Yang Yang**, Univ. of California, Los Angeles (United States); **Teketel Yohannes**, Addis Ababa Univ. (Ethiopia)

This conference centers on the science and technology of organic photovoltaics (OPVs) with particular focus on high performance light-harvesting and carrier transporting materials, highly efficient and stable OPVs, device physics including interfaces, morphology, carrier generation, and transport, and new techniques for fabrication, encapsulation, and printing of solar cells including large area fabrication of flexible solar cells and modules. The aim of this meeting is to bring together chemists, engineers, material scientists, physicists, and technologists, to discuss and review the state-of-the-art of organic photovoltaics.

The scope of the conference will cover but is not limited to the following areas:

- molecular and polymeric organic photovoltaics (OPVs)
- solid state dye-sensitized (photoelectrochemical) solar cells
- hybrid organic/inorganic nanostructures
- interpenetrating polymer and donor/acceptor networks
- tandem and multi-color solar cells
- plasmonic and photonic structures
- new electron donors/hole transporters
- new electron acceptors/transporters
- new electrode and flexible substrate materials
- primary processes, carrier generation, and transport

- the roles of interfaces and morphology in OPVs
- new techniques for fabrication, encapsulation, and printing of solar cells
- large area fabrication of solar cells and modules
- stability, lifetime, and reliability of solar cells and modules
- future prospects for organic solar cell technology.

Highlights:

- Joint sessions on the reliability of photovoltaics and nanoscale technologies
- Joint session on plasmonics
- Panel discussion on the impact of and future of organic photovoltaics with industry representatives.

Manuscripts for the conference proceedings will be peer reviewed.

Journal of Photonics for Energy

Zakya H. Kafafi, Editor

The Journal of Photonics for Energy is an online journal focusing on the applications of photonics for renewable energy harvesting, conversion, storage, distribution, monitoring, consumption, and efficient usage.

spie.org/jpe



Large-Scale Organic Device Fabrication (OP214)



Conference Chair: **Jean-Michel Nunzi**, Queen's Univ. (Canada)

Organic and large-scale electronics have a large market potential of up to US \$300 Billion in 2027 according to IDTechEx, a leading market research company. The focus of this conference is on the commercial fabrication of these devices for promising application areas and industries such as lighting, photovoltaics, displays, electronics and smart/single use sensors.

Successful large scale organic device fabrication necessitates the convergence of research efforts from industry and academia. The diversity of technical challenges justifies a new conference at the junction between physics, chemistry, photonics, engineering and technology. This conference will be a forum for those who share a common interest in ensuring that the development of large scale organic devices lives up to its vast potential.

Session topics include, but are not limited to, the following:

- roll-to-roll fabrication methods
- batch fabrication methods
- printing techniques
- in situ processing of chemicals and substances
- electronics on paper
- passivation of defects
- device uniformity
- environmental and life testing issues
- electrode interfaces
- real time evaluation and testing techniques
- packaging and encapsulation
- key structure-property relationships of new materials
- self-assembling
- modeling of size related efficiency issues
- patterning, wiring
- new materials for mass-produced low-end electronics
- new applications for existing materials
- specific machines
- further development of existing machines
- further development of existing printed products
- development of new printed products, adaptation, and integration
- intelligent packaging, new electronic based products.

Critical Dates

Abstract Due Date: **30 January 2012**

Author Notification: The contact author will be notified of abstract acceptance by email no later than 9 April 2012.

Manuscript Due Date: **16 July 2012**

Please Note: Submissions imply the intent of at least one author to register, attend the symposium, present the paper as scheduled, whether it is an oral or poster presentation, and submit a full-length manuscript by the deadline.

Detectors and Imaging Devices

Organic Field-Effect Transistors XI (OP215)

Conference Chairs: **Zhenan Bao**, Stanford Univ. (United States); **Iain McCulloch**, Imperial College London (United Kingdom)

The impressive improvement in the performance of organic thin-film field-effect transistors (OTFTs) during the last two decades, coupled with the processability advantages offered by organic materials, has attracted the interest of the optoelectronics industry and has opened the way for practical, broad-impact applications of such devices. OTFTs are based on various small organic molecules, conjugated polymers and oligomers, or organic-inorganic hybrids. Potential applications for organic semiconductors are currently aimed at large area electronics, which almost always involve intermolecular transport mechanisms. They include flexible active-matrix displays with OTFT backplanes, e-paper, low-cost and low-end printable electronic circuits, devices such as RFID tags and smart cards, and sensors. Knowledge accumulated from the study of these organic materials and devices will in the future aid the design, development, and fabrication of molecular and polymeric devices based on intramolecular transport.

This conference is intended to provide a platform for discussions and exchanges between experts in the field of organic transistors in an effort to assess the state-of-the-art in this field of research and reflect on the predominant vision(s) for the future of organic transistors.

The scope of the conference will cover research topics spanning from basic chemistry and physics of organic semiconductors to their applications in electronic devices and circuits. Contributed papers are solicited concerning, but not limited to, the following areas:

- organic semiconductor design, synthesis, processing, and characterization
- organic semiconductor growth and morphology
- dielectric materials
- printable electrode materials
- printing and patterning methods
- OTFT device physics, modeling, geometric design, and characterization
- ambipolar TFTs
- n-channel TFTs
- single crystal devices
- charge injection and transport properties
- integrated circuits
- chemical and biological sensors
- flexible OTFT display backplanes
- other OTFT applications
- device reliability, stability, and degradation
- self-assembly processes in OTFTs
- molecular devices
- integration of OTFTs with other components
- organic light-emitting transistors
- organic memory devices.

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Organic Semiconductors in Sensors and Bioelectronics V (OP216)

Conference Chair: **Ruth Shinar**, Iowa State Univ. (United States)

Cochair: **Ioannis Kymissis**, Columbia Univ. (United States)

Program Committee: **Magnus Berggren**, Linköping Univ. (Sweden); **Sumit Chaudhary**, Iowa State Univ. (United States); **Fabio Cicoira**, Ecole Polytechnique de Montréal (Canada); **Emil J. W. List**, Technische Univ. Graz (Austria); **Róisín M. Owens**, Ecole Nationale Supérieure des Mines de Saint-Étienne (France); **Franky So**, Univ. of Florida (United States); **Luisa Torsi**, Univ. degli Studi di Bari (Italy)

The growing activity and progress in the field of organic electronics, together with the need for versatile, lightweight, compact, inexpensive, and field-deployable chemical and biological sensors, has prompted the development of OFET- and OLED-based sensors, organic semiconductor and surface plasmon resonance sensors, organic semiconductor-based photodetectors, and sensitive organic materials for sensing applications. Such applications include industrial, environmental, food and beverage, medical, and homeland security. Transistor-, OLED-, other organic semiconductor-based sensing technologies, and those based on carbon nanotubes (CNTs) and graphene are promising for fast, simultaneous detection of multiple analytes utilizing sensor micro/nano arrays. Continued research and development efforts are needed to further improve sensor performance, and consequently, manufacturability.

At the same time, the use of organic semiconductors in the field of bioelectronics is attracting significant interest. One example is the demonstration of ion pumps based on conducting polymers, which have been used to control cell growth. A second example is conducting polymer electrodes developed for medical implants. A better understanding of the interface between organic semiconductors and living tissue will lead to the design of better sensor concepts.

This conference will present recent progress in the field of organic electronics-based (bio)chemical sensing and explore the obvious synergies between the efforts to develop better sensors and to better understand and control the interface between organic semiconductors and biology.

Papers related (but not limited) to the following topics are solicited:

- organic and hybrid organic/inorganic transistors for chemical and biological sensing
- organic semiconductors in electrochemical, strain, pressure, and temperature sensors
- OLEDs and organic semiconductor lasers for analytical applications
- organic light emitting transistors (OLETs) for sensing
- organic semiconductors and surface plasmon resonance (SPR)-based sensors
- porphyrin-based sensors
- flexible electronics for large-area sensors and actuators
- array technologies in organic electronics: microfluidics, nanoscale, and lab-on-a-chip for multianalyte detection
- (multicolor) OLED arrays for absorption measurements
- organic semiconductor-based photodiodes and integrated sensors/photodetectors
- conformable and stretchable electronics
- IR detectors (organic up-conversion devices)
- biomaterials in organic electronics for biotechnology and medical applications
- conducting polymers in biosensors; luminescent conjugated polymers in disease detection
- ion pumps and other devices made using organic semiconductors
- cell growth on organic semiconductors
- carbon nanomaterials-based sensors and biological applications of CNTs and graphene
- synthesis, characterization, and optimization of sensor materials
- sensor manufacturing.

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2012 Best Student Paper Award

Organic Photonics + Electronics Best Student Paper Award

- We are pleased to announce that a cash prize will be awarded to the best student paper in this symposium.
- Qualifying student papers will be evaluated by the award committee.
- To be eligible, you must be a student without a doctoral degree, listed as an author on an accepted paper within Organic Photonics + Electronics, submit your manuscript online by 16 July, have conducted the majority of the work to be presented, and be the presenter of the paper.
- To be considered, send self-nominations via email to Jen Lowell (jenl@spie.org) no later than 29 June 2012. Include your paper number and paper title.
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“This conference is critical for getting the core people together to have discussions. The exchange really helps us to innovate and that’s what we need with these emerging markets.”

— **Petrie Yam,**
KLA Tencor



General Information

Venue

SPIE Optics+Photonics 2012 will be held at the San Diego Convention Center, 111 West Harbor Dr., San Diego, CA 92101 and at the San Diego Marriott Hotel & Marina located adjacent to the Convention Center at 333 West Harbor Dr.

Technical Program

Available April 2012

The comprehensive Advance Technical Program for this symposium will list conferences, paper titles, and authors in order of presentation, and an outline of all planned special events at spie.org/op

Courses

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Registration

All participants, including invited speakers, contributed speakers, session chairs, co-chairs, and committee members, must pay a registration fee.

Pricing and registration details will be available in April 2012 at spie.org/op

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A limited amount of contingency student travel grants will be awarded based on need. Grant applications can be found in the Resources for Students area of SPIE.org, under the Student Travel Grants section. Applications must be received no later than 4 June 2012. Eligible applicants must present an accepted paper at this meeting. Offer applies to undergraduate/graduate students who are enrolled full time and have not yet received their PhD.

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- Please submit a 250-word text abstract for technical review purposes that is suitable for publication. SPIE is authorized to circulate your abstract to conference committee members for review and selection purposes.
- Please also submit a 100-word text summary suitable for early release. If accepted, this summary text will be published prior to the meeting in the online or printed programs promoting the conference.
- Only original material should be submitted.
- Abstracts should contain enough detail to clearly convey the approach and the results of the research.
- Commercial papers, papers with no new research/development content, and papers where supporting data or a technical description cannot be given for proprietary reasons will not be accepted for presentation in this conference.
- Please do not submit the same, or similar, abstracts to multiple conferences.

Review, Notification, and Program Placement Information

- To ensure a high-quality conference, all submissions will be assessed by the Conference Chair/Editor for technical merit and suitability of content.
- Conference Chair/Editors reserve the right to reject for presentation any paper that does not meet content or presentation expectations.
- The contact author will receive notification of acceptance and presentation details by email no later than 9 April 2012.
- Final placement in an oral or poster session is subject to the Chairs' discretion.

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800+ papers in 2011 · metamaterials, plasmonics, CNTs, graphene, thin films, spintronics, nanoengineering

Solar Energy + Technology

SPIE Optics+Photonics

200+ papers in 2011 · thin films, concentrators, reliability, next-generation cell technologies, materials processing

Organic Photonics + Electronics

SPIE Optics+Photonics

400+ papers in 2011 · OLEDs, OTFTs, OPVs, liquid crystals, organic materials, large-scale fabrication, organic semiconductors

Optical Engineering + Applications

SPIE Optics+Photonics

1900+ papers in 2011 · optical engineering, lens design, metrology, x-ray, SSL, photonic devices, atmospheric and space optics

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- Interdisciplinary collaboration for my research
- This is the one event I want to attend this year
- I will meet important people in my technical area
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