

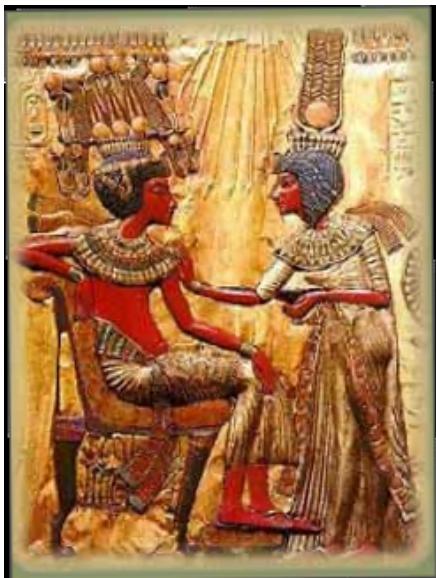


Going NanoGreen in a big way in Cairo

Solar'10, 14 - 17 February 2010, Cairo, Egypt
"Nano/Molecular Photochemistry and
Nanomaterials for Green Energy Development"

Updated on December 28, 09

Don't miss this exciting interdisciplinary conference. Listen to a panel of distinguished speakers covering the following important topics:



- . Nanostructured Solar Cells
- . Nanomaterials for Solar Applications
- . Fundamental and Applied Photochemistry and Photophysics
- . Advanced Photocatalysis
- . Photonics Materials
- . Modeling Methods in nano Science
- . Thin Film Photovoltaics
- . Solar Energy Commercialization
- . Techniques and Systems

More details soon:

<http://www.photoenergy.org/solar10.pdf>

Just send your completed form below by an e-mail expressing your interest and the tentative title and form of your contribution
See you in Cairo!

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*Klaas Zachariasse [Germany]
*Hua Chun Zeng, Singapore

Speakers and Scientific Contributions

Sunlight photoassisted drying of alkyd resins: towards environmentally friendly paints [Keynote]

Xavier Allonas, Guodong Ye, François Courtecuisse, Céline Croutxe-Barghorn, Christian Ley, Phil Taylor, Gwenaelle Bescond FRANCE and UK

MgH₂ Nanocomposites: Role of catalysts to improve hydrogen storage [Oral]

Nanda Balasooriya, Christiane Poinsignon, SRI LANKA and FRANCE

New semiempirical model of dissipative energy transfer in natural and artificial light-harvesting systems [Oral]

Alexander Belov, Vadim Eremin, Ilya Glebov, RUSSIA

Nanostructural materials for energy storage Systems [Oral]

Bronislaw Buczek, Eliza Wolak, POLAND

Fabric based flexible electrodes for optoelectronic devices [Oral]

Peter Chabrecek, Hanspeter Meier, Uriel Sonderegger, SWITZERLAND

Dual-Excitation NaYF₄:Er³⁺,Yb³⁺ nanocrystals for solar spectrum modification [Poster]

Santa Chawla, A. F. Khan, INDIA

Contact Resistance Measurement For Screen Printed Mono-Cristalline Silicon Based Solar Cells [Poster]

Farid Chelli, Razika Tala-Ighil, Samira Sali, Slimane Oussalah, Messaoud Boumaour, Faiza.Tayour, Yasmine Si-Ahmed, ALGERIA

Experimental and theoretical study of spectral and photochromic properties of 5'-diphenyloxazole substituted spironaphthopyrans [Oral]

Anatoly V. Chernyshev, Igor V. Dorogan, Anatoly V. Metelitsa, Elena B. Gaeva, Nikolay A. Voloshin, Vladimir I. Minkin, RUSSIA

Removing hormones and pharmaceutical contaminations from water by photocatalytic treatment [Oral]

J. Choina, H. Duwensee, G.-U. Flechsig, H. Kosslick, A.W. Morawski and A. Schulz, POLAND and GERMANY

Nitrogen modified TiO₂ photocatalysts as a long lifetime material [Poster]

J. Choina, M. Janus, E. Kusiak, D. Dolat, A.W. Morawski, POLAND

It happens on the surface [Plenary]

Dinko Chakarov, Hans Fredriksson, Raja Sellappan, Johan Bergeld, SWEDEN

Application of photocatalysis in water treatment (purification) [Plenary]
Fritz H. Frimmel, Tusnelda E. Doll, Luis A. Tercero Espinoza, GERMANY

Unsymmetrical Squaraine Dyes for Efficient Conversion of Low Energy Photons on TiO₂ Nanocrystalline Films [Oral]

Thomas Geiger, Toby Meyer, Simon Kuster, Marina Simeunovic, Simone Hochleitner, Frank Nüesch, SWITZERLAND

The role of pyridine derivatives on energy level alignment and adsorption of dyes on TiO₂ surfaces [Oral]

Mats Göthelid, Sareh Ahmadi, Shun Yu, Marcelo Zuleta, and Chenghua Sun, SWEDEN and AUSTRALIA

Using of optical spectroscopy in diagnostics of materials for solar application [Oral]
Sergo V. Gotoshia and Lamara V. Gotoshia, GEORGIA

Scanning near-field optical microscopy of single ZnO nanowires [Oral]

Frank Güell, Josep Oriol Ossó, Alejandro R. Goñi, Albert Cornet, Joan Ramon Morante, SPAIN

Synthetic Growth Concept: a conceptual algorithmic method for modeling inherently nano-structured materials [Oral]

G.K. Gueorguiev, S. Stafström, A. Furlan and L. Hultman, SWEDEN

Electrochromic materials for solar radiation control in buildings [Keynote]
Bjørn Petter Jelle and Arild Gustavsen, NORWAY

Enhancement of monolithic and thin-film based solar cells: surface modification with charge transfer mediators [Oral]

Hikmat S. Hilal, Subhi Salih, Iyad Saadeddin, Huda Sabri, Maysaa Atatreh, Wajdi Attalah, Raqi Shubaitah, Samar Shakhsir and Ahed Zyoud, WEST BANK, PALESTINE

Diffusiophoresis of a nano-sphere along the axis of a cylindrical pore [Oral]
Jyh-Ping Hsug, Wei-Lun Hsu, Kuan-Liang Liu, TAIWAN

Highly Efficient Quasi-solid State Dye-sensitized Solar Cells with Nano-clay Electrolyte [Oral]
Tomoyuki Inoue, Satoshi Uchida, Takaya Kubo, Hiroshi Segawa, JAPAN

Photovoltaic Characteristics of Ionic-Liquid Dye-Sensitized Solar Cells using Different-Sized TiO₂ Nanoparticles [Oral]
Seigo Ito, JAPAN

Snow downfall on solar cell roofs - How to maximize solar efficiency? [Oral]
Bjørn Petter Jelle, Knut Noreng, Tao Gao and Arild Gustavsen, NORWAY

Nanotechnology and new solar cell materials and systems - The need for long-term climate exposure and durability testing [Plenary]

Bjørn Petter Jelle, Knut Noreng, Berit Time and Arild Gustavsen, NORWAY

Sub-100 nm resolution by controlled nanoscale photopolymerization: Physical and chemical approaches

Safi Jradi, Xinhua Zeng, Claire Deeb, Jérôme Plain, Renaud Bachelot, Pascal Royer, FRANCE

Photocatalytic degradation of 2-nitrophenol by La-TiO₂ and a photonic TiO₂ using a solar simulator [Poster]

Keyla Fuentes, Adriana Giulianete, Valentina Carrillo, Santiago Marrero, Alberto Albornoz, Joaquín Brito, Paulino Betancourt, VENEZUELA

Structure and physical Properties of Polymer nanocomposite films doped with fullerene C₆₀ [Poster]

R.A. Khalil and S. M. El-Bashir, Egypt and KSA

Formation of Fe₂O₃/MCM-41 nano catalysts via surfactant template method in presence and absence of co-surfactant [Oral]

Kamal M.S. Khalil*, Mai M. Khalaf and Ahmed A Elsamahy, EGYPT

Fluorophores for tumor imaging [Oral]

Kharitonova Olga, Green Mikhail, Mironov Andrei, Zaharova Galina^b, Chibisov Aleksandr, RUSSIA

MIS inversion-layer silicon solar cells using ultra-thin RPALD Al₂O₃ films {Oral}

Kwang-Ho Kim, Hyun-Jun Kim, Pyungwoo Jang, Chisup Jung, and Kyu Seoomoon Korea

Dye-sensitized Solar Cells using Charge-Transfer Transitions of Novel Azopyridine-Coordinated Ru(II) Porphyrin Derivatives [Oral]

Takumi Kinoshita, Jun-ichi Fujisawa, Yoshitaka Sanehira, Jotaro Nakazaki, Satoshi Uchida, Takaya Kubo and Hiroshi Segawa, JAPAN

Push-pull quinoidal thiophene dye for dye-sensitized solar cells [Oral]

Makoto Komatsu, Jotaro Nakazaki, Satoshi Uchida, Takaya Kubo and Hiroshi Segawa, JAPAN

Design and properties of nano-scale size ordered systems on surface of non-stoichiometrical oxides [Oral]

Nicolay A. Kulagin, UKRAINE

Antimicrobial gold nanorods with dual-modality photodynamic inactivation and hyperthermia [Oral]

Wen-Shuo Kuo, Chich-Neng Chang, Yi-Ting Chang, Chen-Sheng Yeh. TAIWAN

Photoactive materials prepared by co- precipitation : ZnO-M_xO_y Nanocomposites [Poster]

Hinda Lachheb, Abdessalem Hamrouni and Ammar Houas, TUNIS

Remote Sensitized Photoisomerization via Through-Bond Triplet–Triplet Energy Transfer Mediated by a Salt Bridge in a Supramolecular Dyad [Oral]

Yi Li, Jinping Chen, Lei Han, P. R. CHINA

Effect of testing conditions on ZnO-based excitonic solar cells [Oral]

Irene Gonzalez-Valls , Youhai Yu and Monica Lira-Cantu, Spain

Elements of photochromic medium for molecular photonics based on spirocyclic systems [Oral]

Boris Lukyanov, Yuriy Alexeenko, Evgeny Mukhanov, Oleg Ryashin, Tatiana Feldman, Sergey Besugly, Valeri Tkachev, Konstantin Khalanskii, Gennadii Vasilyuk, RUSSIA

Superparamagnetic photocatalytic nanocomposite particles for application in the decomposition of pollutants in water [Oral]

Darko Makovec, Dejan Verhovšek, Marjan Sajko, Miha Drofenik, Slovenia

Nanostructured films of anodized TiO₂ in a fluorine electrolyte for solar cells applications [Oral]

E. Manea, A. Popescu, M. Purica, V. Schiopu, C. Parvulescu, E. Budianu, C. Obreja, L. Staicu, Romania

Environmentally Benign Photochemical Synthesis in Microstructured Devices [Oral]

Yosshihisa Matsushita, Shinichi Okawara, Mahmoud Mohammed, Haytham Awad, Teijiro Ichimura, JAPAN, EGYPT

DFT study of gold clusters luminescence spectrum [Poster]

Vitaly Matulis, Dennis Palagin, Oleg Ivashkevich, REPUBLIC OF BELARUS

A quasi-solid phase electrolyte for dye sensitized solar cell [Keynote]

David Jeng, Mathilde Marie, Mazhar Bari, Ireland

Synthesis and Characterization of nano-sized Ni/ Ti-HMS Photocatalyst by Photoassisted Deposition Method for Environmental Application [Poster]

R.M. Mohamed, Ibraheem A.Mkhalid, EGYPT and KSA

Solar cell efficiency improvement by integration of a gravity independent integrated passive cooler [Oral]

Laurent Montès, Bogdan Bercu, FRANCE

Peculiarities of fluorescence properties of absorbed Rhodamine 6G on SiO₂ modified with gold nanoparticles [Poster]

Iuliia Mukha, Anna Eremenko, Natalie Smirnova, Mikhail Valakh, Volodymyr Dzhagan, Andrey Doroshenko, UKRAINE

Photocatalytic properties of heat treated TiO₂ one-dimensional nanopowder with high specific surface area [Poster]

Nam-Hee Lee, Hyo-Jin Oh, Sang-Chul Jung, Won-Jae Lee, Sun-Jae Kim, Korea

The NanoAntenna Prospect for Solar Collection [Keynote]

Steven Novack, Dale Kotter, Patrick Pinherom Dennis Slafer, USA

Design of molecular devices with electronic structure computations: Carborane architectures [Oral]

Josep M. Oliva, Luis Serrano-Andrés, Paul v.R. Schleyer, Josef Michl, Douglas J. Klein, SPAIN AND USA

Electron beam effect on InP and ZnO/InP(100) [Oral]

A. Ouerdane, M.Bouslama, M.Ghaffour Y. Monteuil, France

Uranyl-anchored mesoporous AlMCM-41: Novel heterogeneous photocatalyst for the oxidative destruction of VOCs under sunlight [Poster]

Parasuraman Selvam, Vidya Krishna, INDIA

Preparation of macro-porous TiO₂ used as the photo-catalysts by a matrix-assisted method [Oral]

No-Kuk Park, Il Jun Hong, Hyun Gyu Park, Chul Ho Jung, Tae Jin Lee, KOREA

Supramolecular self-assembly and optical properties of cyclodextrins in the presence of organic dyes [Oral]

I. Petkov, BULGARIA

Strong quadrupole light-molecule interaction and its manifestation in surface-enhanced optical effects [Poster]

Aleksey Polubotko, RUSSIA

Functional nanofinishes on cotton textiles for industrial and medical applications [Oral]

V. Rajendran, K. Sasipriya and N. Gobi, INDIA

Electron states in semiconductor quantum wires: Magnetic field effect [Oral]

René Betancourt Riera, Raúl Riera Aroche, Ricardo Betancourt Riera, José Manuel Nieto Jalil, MÉXICO

Optical properties of transition metal doped ZnO nanoparticles

Nebojša Romčević, Maja Romčević, Radmila Kostić, Daniel Dobrowolski, I. Kurylisyan-Kudelska, U. Narkiewicz, D. Siberia, POLAND AND SERBIA

Study of electronic properties of group-IV elements doped titania: an *ab initio* calculation [Oral]

Run Long, IRELAND

Photochemistry of pesticides at the surface of soils [Keynote]

Marie Siampiringue, Matthieu Ménager, Pascal Wong Wah Chung, Mohamed Sarakha, FRANCE

Thin, light-weight flexible Dye Sensitized Solar Cells for Ubiquitous Power supply [Plenary]

Satoshi Uchida, Takaya Kubo, Hiroshi Seagawa, JAPAN

Synthesis and characterization of a carbon nanotube/polymer nanocomposite membrane for water treatment [Oral]

Hosam A. Shawky, Soryong R. Chae, Shihong Lin, and Mark R. Wiesner, EGYPT and USA

Synthesis and optical characterization of pulse laser deposited CdPbS thin films [Oral]

Beer Pal Singh^a, Hariom Kaushik^a, Sanjeev Kumar, INDIA

On the structure and optical properties of copper chalcogenides layers on PA [Oral]

Judita Sukyte, SkirmaZalenkiene ,Remigijus Ivanauskas, LITHUANIA

Fabrication of Monolithic Dye-Sensitized Solar Cells with Ionic Liquid Electrolyte [Oral]
Kaoru Takahashi, Seigo Ito, JAPAN

Nanoelectrochromics: Materials and methodologies [Keynote]
Tao Gao, Arild Gustavsen, and Bjørn Petter Jelle, NORWAY

Electrophoresis of a soft nano-sphere in a cylindrical pore [Oral]
Shiojenn Tseng, Zheng-Syun Chen, Jyh-Ping Hsu, TAIWAN

Hydrothermal titania nanostructures: Application in photocatalysis and dye sensitized cells [Poster]
Shikha Wadhwa, Jeremy Hamilton, Patrick Dunlop, Calum Dickinson John Byrne, NORTHERN IRELAND (U.K.)

Nanoparticle induced enhancement of recognition selectivity for Cu²⁺ ion [Poster]
Guoqiang Yang, Shayu Li, Fangbing Gong, P. R. CHINA

The Efficient Organic Sensitizers for Dye-Sensitized Solar Cells [Oral]
Jun-Ho Yum, Soo-Jin Moon, Robin Humpry-Baker, Daniel P. Hadberg, Brian E. Hardin, Licheng Sun, Andreas Hadfeldt, Micahel D. McGehee, Frank Niesch, Etienne Baranoff, Shaik M. Zakeeruddin, Md. K. Nazeeruddin,, Michael Grätzel, SWITZERLAND and SWEDEN

Turn-on fluorescent chemosensors for metal cations [Keynote]
Ai-Fang Li, Yi-Bin Ruan, Tao Jiang, Qian Wang, Yun-Bao Jiang, CHINA

Carbon nanotube/GaAs p-n heterojunction and its photovoltaic response [Keynote]
Qing Zhang, Hong Li, Wan Khai Loke, Soon Fatt Yoon, SINGAPORE

Photo and electric properties of hydrogen intercalated InSe and GaSe layered crystals [Oral]
Yurij Zhirko, Zakhar Kovayuk, Andrij Zaslonskin, Volodymyr Boledzyuk, UKRAINE

Nanostructured TiO₂ and electro-polymerized poly-3-alkylthiophene layers for hybrid solar cells [Poster]
Nagore Imaz, Oihana Zubillaga, Gorka Imbuluzqueta, José María Vega de Seoane, Paco Cano, SPAIN

And more to come...

Timeline and registration Fees

Dec. 31, 09	Normal Registration [605 ₪/participant, 405 ₪/Student]
14 Feb. 2010	Arrival [morning] On Site Registration: [655 ₪/participant, 455 ₪/Student]
14 - 17 Feb.	Conference: starts on the afternoon of 14th February and ends on late afternoon of February 17th.
18 Feb.	Departure and start of Luxor tour [450 ₪/person including transportation, accommodation in a double room and tours]
20 Feb.	Tour Ends In Cairo at Noon

Registration fee covers Reception, 3 Lunches, Banquet ticket, Conference Excursion, Coffee breaks, Book of Abstracts and admission to all scientific sessions.

Egyptian participants should contact us:

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