

THE 20TH INTERNATIONAL CONFERENCE
ON PHOTOACOUSTIC AND PHOTOTHERMAL PHENOMENA
JULY 7-12, 2019, MOSCOW, RUSSIA



CERTIFICATE of attendance

This is to certify that

BUZMAN TABRERA, RAFAEL

has attended

20th International Conference on Photoacoustic and Photothermal Phenomena

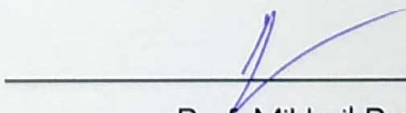
JULY 7th - 12th, 2019

Moscow, Russia

with Oral presentation

titled Quantitative Pharmaceutical Analysis
Based on the PCA of Raman Spectra

Chairman of the Program and Organizing Committee


Prof. Mikhail Proskurnin

THE 20TH INTERNATIONAL CONFERENCE
ON PHOTOACOUSTIC AND PHOTOTHERMAL PHENOMENA
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Guzman-Cabrera
Rafael

MEXICO

PARTICIPANT



The 20th International Conference on Photoacoustic and Photothermal Phenomena

July 7–12, 2019, Moscow, Russia

Final Program

All times in the program are in Russian 24-hour format

Color Code (according to the program)

A.	Biomedical Sciences and Biophotonics
B.	Materials Science and Characterization
C.	Chemistry and Earth Sciences
D.	Fundamentals of Photothermics, Photoacoustics/Optoacoustics, and Related Phenomena
E.	Methodologies of Photothermics, Photoacoustics/Optoacoustics, and Related Techniques
S	Special and Organizational

17:45–19:30 EVENING SESSION C4: SPECTROSCOPY III

In parallel with **Session B6: RADIOMETRY III / THERMAL PROPERTIES II** below

Location: **Sokolniki 1 Hall** – Chairperson: Akihide Hibara

17:45–18:15	Keynote: Tomaz Catunda (<i>USP, São Carlos, Brazil</i>) — Fluorescence quantum efficiency and upconversion measurements by Thermal Lens with 1.53 μm excitation
18:15–18:30	Aleksei Konyashkin (<i>Moscow Institute of Physics and Technology, Russia</i>) — Resonance Photoacoustics for Measurement of Low Absorption of Optical Materials
18:30–18:45	Yulia Sokolovskaya (<i>M.V. Lomonosov Moscow State University, Russia</i>) — Laser optoacoustic method for measurement of light extinction coefficient in colloid media
18:45–19:00	Jehan Akbar (<i>Hazara University, Pakistan</i>) — Photothermal spectrophotometer for measurements of low absorption in liquid samples
19:00–19:15	Rafael Guzman-Cabrera (<i>Universidad de Guanajuato, México</i>) — Quantitative pharmaceutical analysis based on the PCA of Raman spectra
19:15–19:30	Anil Kumar Chaudhary (<i>University of Hyderabad, India</i>) — Study of charge transfer mechanism of PEDOT polymer for detection of solid explosives using pulsed Photoacoustic technique

17:45–19:30 EVENING SESSION B6: RADIOMETRY III / THERMAL PROP. II

In parallel with **Session C4: SPECTROSCOPY III** above

Location: **Sokolniki 2 Hall** – Chairperson: Christ Glorieux

17:45–18:00	Alexandre Semerok (<i>Université Paris-Saclay, France</i>) — Photothermal radiometry method development and application for nuclear technologies
18:00–18:15	Jose Ordonez-Miranda (<i>Cinvestav-Unidad Mérida, Yucatán, México</i>) — Thermophysical Characterization of W-Doped and Undoped Nanocrystalline Powders of VO_2
18:15–18:45	Keynote: Jing Wang (<i>University of Electronic Science and Technology of China, China</i>) — Photocarrier radiometry of silicon wafers: Linear versus nonlinear theoretical models
18:45–19:00	Ruben Arturo Medina-Esquivel (<i>Universidad Autónoma de Yucatán, Mexico</i>) — Photopyroelectric determination of the thermal conductivity tensor of magnetoactive fluids
19:00–19:15	Qiming Sun (<i>University of Electronic Science and Technology of China, China</i>) — Quantitative assessment of surface electronic quality of HF-etched Si wafers using heterodyne lock-in carrierography
19:15–19:30	Yunqiu Wu (<i>University of Electronic Science and Technology of China, China</i>) — Ultra-Wideband Electromagnetic Characteristics for CVD Graphene

19:30–21:00 POSTER DISCUSSION

Location: **Passage and Sokolniki Foyer**

All Posters

Posters are attached Monday, July 8 and detached Thursday, July 11

POSTER CONTRIBUTIONS

Location: **Passage and Sokolniki Foyer**

All posters are attached Monday, July 8 and detached Thursday, July 11

A BIOMEDICAL SCIENCES AND BIOPHOTONICS

AP 001	Baesso, Mauro Luciano — FTIR Photoacoustic Spectroscopy for physicochemical analysis of a self-etch adhesive containing 10-MDP with dentin in noncarious cervical lesions
AP 002	Chmyrov, Andriy — Mechanobiological studies of ultrasound-mediated cell junction interruption using fluorescence super-resolution microscopy
AP 003	Guzman-Cabrera, Rafael — LRSP-based structures for interferometric biosensing
AP 004	Petrova, Elena — Using photoacoustics to study protein aggregation abnormalities in organs of the gastrointestinal tract
AP 005	Tabatabaei, Nima — Enhancing the Sensitivity and Detection Limit of Lateral Flow Immunoassays using Lock-In Thermography
AP 006	Tabatabaei, Nima — In pursuit of an optimum optical imaging technology for early detection of dental caries
AP 007	Wolff, Marcus — Modeling of an open photoacoustic resonator for blood glucose measurement
AP 008	Zhou, Jiangtao — The study of photosynthetic light-harvesting antenna supercomplexes in the xanthophyll cycle by infrared nanospectroscopy

B MATERIALS SCIENCE AND CHARACTERIZATION

BP 001	Baesso, Mauro Luciano — Energy Transfer Processes in Solar Cell Materials by Photoacoustic Spectroscopy
BP 002	Catunda, Tomaz — Study of overtones and combination bands in solvents using near near-infrared thermal lens spectroscopy
BP 003	Catunda, Tomaz — Near-near infrared thermal lens spectroscopy to monitor transesterification reaction during biodiesel production
BP 004	Dominguez-Pacheco, Arturo — Statistical methods for the analysis of thermal images obtained from corn seeds
BP 005	Dominguez-Pacheco, Arturo — Optical properties in textile materials added with UV protective biomaterials
BP 006	Dominguez-Pacheco, Arturo — Optical characterization of essential oils of Mexican aromatic plants
BP 007	Dominguez-Pacheco, Arturo — Characterization of vegetables lubricants with Nanoparticles by PAS
BP 008	Dominguez-Pacheco, Arturo — Thermal analysis and artificial vision of laser irradiation on maize
BP 009	Dominguez-Pacheco, Arturo — Photoacoustic spectroscopy on the evaluation of seedlings from seed treated by polluting gases.
BP 010	Franko, Mladen — Thermal Effusivity Investigations of Solid Thermoelectrics Using the Front Photopyroelectric Detection
BP 011	Glazov, Aleksei — Photothermoacoustic evaluation of local thermal properties of soldered joints in photovoltaic solar cells
BP 012	Herrmann, Kai — Thin film photothermal characterization: Photoacoustic thermal wave interferometry on low thermal diffusivity materials
BP 013	Kazmierczak-Balata, Anna — Investigation of morphology, thermal and electron properties of thin oxide films
BP 014	Larciprete, Maria Cristina — In-plane thermal diffusivity measurements of PES woven textiles.
BP 015	Lei, Xiao Ke — Electronic transport characterization of B ⁺ ion-implanted silicon wafers using nonlinear two-layer frequency-domain photocarrier radiometry model
BP 016	Li, Bincheng — CCD-based thermal lensing for fast localization of microscale absorptive defects on large-sized laser components