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Piotr Jasiński

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Contents

vii	<i>Authors</i>
ix	<i>Conference Committees</i>
xii	<i>Introduction</i>

14TH INTERNATIONAL CONFERENCE ON OPTICAL AND ELECTRONIC SENSORS

10161 02	Innovative multi-cantilever array sensor system with MOEMS read-out [10161-4]
10161 03	Functionalization of MEMS cantilever beams for interconnect reliability investigation: development practice [10161-6]
10161 04	Soft dielectric cantilevers with silicon tips for atomic force microscopy applications [10161-13]
10161 05	Energy harvesting schemes for building interior environment monitoring [10161-14]
10161 06	Polymer microfluidic bioreactor fabrication by means of gray scale lithography technique [10161-15]
10161 07	Gravimetric measurements with use of a cantilever for controlling of electrochemical deposition processes [10161-16]
10161 08	Harvesting electrostatic energy using super-hydrophobic surfaces [10161-19]
10161 09	Defect structure of V₂O₅ thin film gas sensors [10161-10]
10161 0A	Zirconia-based mixed potential sensor with Pt electrode prepared by spin-coating of polymeric precursor [10161-31]
10161 0B	Sol-gel layers for ceramic microsystems application [10161-23]
10161 0C	Properties of PZT thick film made on LTCC substrates with dielectric intermediate layers [10161-5]
10161 0D	Application of thin dielectric films in low coherence fiber-optic Fabry-Pérot sensing interferometers: comparative study [10161-24]
10161 0E	Research of physical properties of TiO₂ nanolayers for integrated photonics applications [10161-3]
10161 0F	Response of a fiber-optic Fabry-Pérot interferometer to refractive index and absorption changes: modeling and experiments [10161-30]
10161 0G	Barium boron aluminum silicate glass system for solid state optical gas sensors [10161-38]

10161 OH	Highly increased detection of silver stained protein bands in polyacrylamide gels with thermo-optical methods [10161-7]
10161 OI	Realization and characterization of fiber optic reflective sensor [10161-21]
10161 OJ	Realization of a fiber optic sensor detecting the presence of a liquid [10161-22]
10161 OK	Comparison of the measurement techniques employed for evaluation of ambient air odor quality [10161-11]
10161 OL	Monitoring of odor nuisance in the tri-city agglomeration [10161-12]
10161 OM	Extraction and evaluation of gas-flow-dependent features from dynamic measurements of gas sensors array [10161-32]
10161 ON	Features extraction from the electrocatalytic gas sensor responses [10161-28]
10161 OO	An electronic nose for quantitative determination of gas concentrations [10161-39]
10161 OP	Techniques of acquiring additional features of the responses of individual gas sensors [10161-40]
10161 OQ	3D polypyrrole structures as a sensing material for glucose detection [10161-2]
10161 OR	Ab-initio investigation of the influence of chemical compounds on graphene layer properties in fabricated IR detector [10161-25]
10161 OS	Graphene oxide, reduced graphene oxide and composite thin films NO₂ sensing properties [10161-26]
10161 OT	Chlorine sensing properties of zinc oxide resistive gas sensor doped with platinum [10161-27]
10161 OU	Determination of chlorine concentration using single temperature modulated semiconductor gas sensor [10161-36]
10161 OV	Metrological characteristics of the flat voltammetric electrode in time domain with a reversible electrochemical reaction running on the surface [10161-37]
10161 OW	Thermal heat-balance mode flow-to-frequency converter [10161-1]
10161 OX	Error of conversion of "physical quantity-to-frequency" converter output signal [10161-8]
10161 OY	Thin film two-electrode impedance sensor development and tests [10161-9]
10161 OZ	Flexible humidity sensors with polymer sorption layer [10161-17]
10161 IO	Application of a system for measuring foot plantar pressure for evaluation of human mobility [10161-18]

- 10161 11 **Electronic system for floor surface type detection in robotics applications** [10161-41]
- 10161 12 **The capacitive sensor for liquid level measurement, fabricated with the inkjet printing technology** [10161-42]

Authors

Numbers in the index correspond to the last two digits of the six-digit citation identifier (CID) article numbering system used in Proceedings of SPIE. The first four digits reflect the volume number. Base 36 numbering is employed for the last two digits and indicates the order of articles within the volume. Numbers start with 00, 01, 02, 03, 04, 05, 06, 07, 08, 09, 0A, 0B...0Z, followed by 10-1Z, 20-2Z, etc.

Baraniecka, Anna, 0Y	Paczynski, Daniel, 11, 12
Bieniek, T., 02, 03	Panas, A., 03
Brandl, Martin, 0H	Pawlowski, Eligiusz, 0W
Chrzan, A., 0A, 0G	Piekarski, Jacek, 10
Cysewska, Karolina, 0Q	Pluciński, Jerzy, 0F
Czok, Mateusz, 0B	Pociecha, Dominik, 05, 08
Da Silva, M. J., 0G	Posniecek, Thomas, 0H
Dąbrowski, Arkadiusz, 0C	Prokaryn, Piotr, 06, 07
Dobrowolski, Rafał, 03, 04, 06	Pustelny, Tadeusz, 0E
Domański, Krzysztof, 07, 0Y	Rac, O., 0T
Dunst, Katarzyna J., 0S	Ruta, L., 0R
Dymerski, Tomasz, 0K, 0L	Schneider, Krystyna, 09
Dzikowski, Bartosz, 0Z	Sierakowski, Andrzej, 04, 06, 07
Fabianowski, Wojciech, 0Z	Ślapek, B., 0I
Fiedot, M., 0T	Stachowiak, Maria, 0N
Gębicki, Jacek, 0K, 0L	Struk, Przemysław, 0E
Golonka, Leszek, 0B, 0C	Strzelczyk, Anna, 0P
Gotszalk, T., 02	Suchocki, Krzysztof, 0V
Guzdek, Piotr, 10	Suchorska-Woźniak, P., 0T
Guzowski, B., 0I, 0J	Szczecińska, N., 0R
Hirsch, Marzena, 0D	Szmigiel, Dariusz, 02, 04, 06, 07, 0Y
Ivaldi, Francesco, 02, 04	Szymańska, Magdalena, 0Q
Jachowicz, Ryszard, 12	Szymczewska, D., 0A, 0G
Jakimowicz, Dagmara, 06	Tarapata, Grzegorz, 11, 12
Janczyk, G., 03	Tarasiuk, Łukasz, 11
Janus, Paweł, 02, 04, 07	Teterycz, H., 0T
Jasiewicz, Barbara, 10	Trojanowski, Damian, 06
Jasiński, Grzegorz, 0G, 0M, 0N, 0O, 0P, 0U	Warda, Piotr, 0X
Jasiński, Piotr, 0A, 0G, 0M, 0N, 0Q, 0S, 0U	Weremczuk, Jerzy, 0Z
Jędrzejewska-Szczerska, Małgorzata, 0D	Wierzba, Paweł, 0D
Kalinowski, Paweł, 0G, 0M, 0N, 0O, 0P, 0U	Wojciechowska, K., 03
Karczewski, J., 0G	Wojnowski, Wojciech, 0K
Karpieńko, Katarzyna, 0F	Woyke, Michał, 12
Klimiec, Ewa, 10	Woźniak, Łukasz, 0A, 0M, 0N, 0O, 0P, 0U
Kłos, H., 03	Wozny, J., 0R
Kołoszczyński, Grzegorz, 10	Zaborowski, Michał, 0Y
Kopiec, D., 02	Zajac, Jerzy, 04, 07, 0Y
Łakowski, M., 0I, 0J	Zakrzewska-Czerwinska, Jolanta, 06
Lisik, Z., 0R	Zaraska, Krzysztof, 10
Majchrzak, Tomasz, 0K	Zdunczyk, Adrian, 0Z
Majstrzyk, W., 02	Zylka, Paweł, 05, 08
Malinowska, Anna, 03, 06	
Marzęcki, Michał, 12	
Mazza, Giulia, 0H	
Namieśnik, Jacek, 0K, 0L	
Nawrot, W., 0T	
Nieprzecki, M., 03	
Nowogrodzki, K., 0J	
Owczarek, Grzegorz, 0Z	

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- 5 Oral Session V
Jacek Szuber, Silesian University of Technology (Poland)
- 6 Oral Session VI
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Introduction

These proceedings are a collection of the selected articles presented at the 14th International Conference on Optical and Electronic Sensors held in Gdańsk, Poland on 19–22 June 2016 (COE 2016). The conference has been held under the scientific patronage of the Polish Association of Sensor Technology and the Committee of Electronics and Telecommunication, Polish Academy of Science and hosted by the Gdańsk University of Technology's Faculty of Electronics, Telecommunications and Informatics. The Polish Association of Theoretical and Applied Electrical Engineering (PTETiS) actively supported organization of the conference. The COE conference series aims to advance interdisciplinary scientific information exchange and discussion on sensor application and development.

The COE 2016 conference took place on Gdańsk-Sobieszewo island, 2 minutes walking distance from the beautiful beach of the Gdańsk Bay. The surroundings and location of the venue guaranteed excellent working and leisure conditions. The three-day conference highlighted invited talks by outstanding scientists working in important areas of sensors development.

The six sessions covered areas in the fields of optical, electronic and electrochemical sensors. The conference attended 90 participants from 12 countries. The schedule involved 12 invited presentations, 13 oral presentations and 50 poster presentations.

The scientific committee awarded the best posters presentations. The ceremony for the granting of awards took place during the gala dinner. The following have benefited:

- First place was awarded to Marta Fiedot and Helena Teterycz for their poster "Chlorine sensing properties of zinc oxide resistive gas sensor doped with platinum";
- Two second places were awarded:
Francesco Ivaldi, Tomasz Bieniek, Piotr Grabiec, Wojciech Majstrzyk, Daniel Kopiec, Teodor Gotszalk for the poster "Innovative multi-cantilever array sensor system with MOEMS read-out";
and to Tadeusz Stacewicz, Zbigniew Bielecki, Jacek Wojtas, Janusz Mikołajczyk, Beata Zakrzewska, Paweł Magryta, Małgorzata Panek, Arkadiusz Tkacz for the poster "Research on application of cavity enhanced and multipass spectroscopy in human breath analyses";
- The third place was awarded to Michał Kowal, Sławomir Kubal, Piotr Piotrowski, Kamil Staniec for the poster "Wireless sensor networks (WSN) for vital parameters measurements".

The General Assembly of Polish Association of Sensor Technology (PTTS) met during the conference and looked into various aspects of the PTTS' activities and the future role of this conference for the scientific community. It was underlined that the iCAN global contest for students interested in micro-nano technology is an important activity supported by the PTTS.

During this meeting the next location of the COE 2018 conference was discussed and it was announced that the 15th International Conference on Optical and Electronic Sensors will be organized by the Warsaw University of Technology (Poland) in June of 2018.

During the meeting new PTTS Officers were elected. Professor Jan Dziuban from Wrocław University of Technology (Poland) has become the President of the PTTS.

This special proceedings volume presents 37 papers selected via peer-review process from the papers submitted for the proceedings of the conference. The volume aims to be an essential reference work for the evolution and development of various aspects of optical, electronic and electrochemical sensors.

The editor of this issue acknowledges all authors and reviewers for their efforts and work to complete this proceedings volume. Members of the Organizing Committee (Aleksander Chrzan, Karolina Cysewska, Katarzyna Dunst, Grzegorz Jasiński, Paweł Kalinowski, Krzysztof Suchocki, Dagmara Szymczewska and Łukasz Woźniak) from Gdańsk University of Technology (Poland) are appreciated for their help and assistance before and during the conference.

The conference would not have been also possible without the generous sponsorship provided by the Chancellor of the Gdańsk University of Technology and by the Dean of the Faculty of Electronics, Telecommunications and Informatics. The organizing committee is very grateful for their support.

Piotr Jasiński