

# Artur Rydosz

## Lista publikacji

z dnia 31 października 2015

### Publikacje w czasopismach

1. Rydosz A., Brzozowska E., Górka S., Wincza K., Gamian A., Gruszczyński S., 2016, **A broadband capacitive sensing method for label-free bacterial LPS detection**, *Biosensors and Bioelectronics* (75): 328-336  
(autor korespondencyjny)
2. Rydosz A., Szkudlarek A., Ziabka M., Domanski K., Maziarz W., Pisarkiewicz T., 2016, **Performance of Si-doped WO<sub>3</sub> thin films for acetone sensing prepared by glancing angle DC magnetron sputtering**, *IEEE Sensors Journal* (16):1004-1012  
(autor korespondencyjny)
3. Rydosz A., Kwapińska D., Domanski K., Maziarz W., Pisarkiewicz T., 2016, **Various Preconcentrator Structure for Determination of Acetone In a Wide Range of Concentration**, *Advances in Electrical and Electronic Engineering* (14):59-65  
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4. Rydosz A., Szkudlarek A., 2015, **Gas-Sensing Performance of M-Doped CuO-Based Thin Films Working at Different Temperatures upon Exposure to Propane**, *Sensors* (15): 20069-20085  
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5. Rydosz A., 2015, **A Negative Correlation Between Blood Glucose and Acetone Measured in Healthy and Type I Diabetes Mellitus Patient Breath**, *Journal of Diabetes Science and Technology* (vol. 9, iss. 4):881-884  
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6. Rydosz A., 2015, **Microsystem in LTCC Technology to the Detection of Acetone in Exhaled Breath**, *International Journal of Information and Electronics Engineering* (vol. 5, no. 2): 98-101  
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7. Rydosz A., 2014, Amorphous and nanocrystalline magnetron sputtered CuO thin films deposited on Low Temperature Cofired Ceramics substrates for gas sensor applications, *IEEE Sensor Journal* (vol. 14, iss. 5): 1600-1607
8. Rydosz A., 2014, **Micropreconcentrator in LTCC Technology with Mass Spectrometry for the Detection of Acetone in Healthy and Type-1 Diabetes Mellitus Patient Breath**, *Metabolites* (4):921-931
9. Rydosz A., 2014, **Micropreconcentrators in Silicon-Glass Technology for the Detection of Diabetes Biomarkers**, *Journal of Microelectronics, Electronic Components and Materials* (vol. 44, iss. 2): 126-136
10. Kwapińska D., A. Rydosz, W. Maziarz, T. Pisarkiewicz, K. Marszałek, B. Olszańska-Piątek, 2014, **Nieinwazyjna metoda oznaczania glukozy w badaniach cukrzycy**, *Elektronika* (vol. 55, iss. 2): 11-14  
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11. Rydosz A., Maziarz W., Pisarkiewicz T., Bartsch de Torres, Mueller J., 2013, **A Micropreconcentrator Design Using Low Temperature Cofired Ceramics Technology for Acetone Detection Applications**, *IEEE Sensor Journal* (vol. 13, iss. 5): 1889-1896  
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12. Rydosz A., Maziarz W., Pisarkiewicz T., Domanski K., Grabiec P., 2012, **A gas micropreconcentrator for low level acetone measurements**, *Microelectronics Reliability* (11): 2640-2646  
(autor korespondencyjny)
13. Pisarkiewicz T., Kenig T., Rydosz A., Maziarz W., 2011, **Solution growth of ZnO sub-micro rods enhanced by electric field**, *Bulletin of the Polish Academy of Sciences* (4): 425-428
14. Rydosz A., Maziarz W., 2011, **Badania termiczne prekoncentratora gazów w technologii LTCC**, *Przegląd Elektrotechniczny* (10): 309-312  
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15. Rydosz A., Maziarz W., Pisarkiewicz T., 2011, **Kształtowanie jednorodnego rozkładu temperatury w półprzewodnikowych rezystancyjnych sensorach gazów w technologii LTCC**, *Przegląd Elektrotechniczny* (4): 249-252  
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16. Sobków Z., Rydosz A., 2011, **FPGA implemented teperature controller for mid-IR methane optical detector**, *Przegląd Elektrotechniczny* (6): 227-229
17. Bieńkowski A., Gaudyn J., Zaraska K., Rydosz A., Maziarz W., Malecha K., 2011, **Laser micromachined LTCC gas sensors**, *Elektronika* (3): 90-92
18. Pisarkiewicz T., Maziarz M., Rydosz A., 2010, **Mikrosystemy z prekoncentracją w detekcji bardzo niskich stężeń gazów**, *Elektronika* (10): 57-60
19. Maziarz M., Rydosz A., Pisarkiewicz T., 2010, **Prekoncentrator gazu w technologii LTCC**, *Elektronika* (6): 142-144

#### Prace oryginalne – w przygotowaniu

1. Rydosz A., Maciak E., Wincza K., Gruszczyński S., **Microwave-based sensors with various phthalocyanine films for acetone, ethanol and methanol detection in exhaled human breath**, praca w recenzji *Sensors and Actuators B* (minor revision)  
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2. Rydosz A., Kollbek K., Szkudlarek A., **Gas-sensing properties of Au-doped  $\alpha$ -Fe<sub>2</sub>O<sub>3</sub> sensor for enhanced ethylobenzene detection prepared by sputtering magnetron technique**, praca w przygotowaniu, zostanie zgłoszona do *Sensors and Actuators B*  
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## Prace pokonferencyjne i doniesienia zjazdowe:

1. K. Wincza, I. Slomian, A. Rydosz, S. Gruszczynski, 2015, **Integrated Feeding Network for Excitation of Dual-Linear Polarization In Series-Fed Antenna Lattice**, *International Symposium on Antennas and Propagation (ISAP 2015)*, 9-12 November 2015, Hobart, Australia.
2. S. Gruszczynski, A. Rydosz, J. Sorocki, I. Slomian, P. Kaminski, K. Wincza, 2015, **Leaky-Wave Antenna In Multilayer Structure for Sensor Applications**, *International Symposium on Antennas and Propagation (ISAP 2015)*, 9-12 November 2015, Hobart, Australia.
3. K. Wincza, A. Rydosz, I. Slomian, S. Gruszczynski, 2015, **Reduced Sidelobe Multibeam Antenna Array with Broadside Beam Fed by 4x8 Butler Matrix**, *International Symposium on Antennas and Propagation (ISAP 2015)*, 9-12 November 2015, Hobart, Australia.
4. K. Kollbek, A. Szkudlarek, A. Rydosz, M. Sikora, M. Przybylski, 2015, **Photoelectric and magnetic properties of the Au modified hematite thin films**, *International Symposium on Surface Imaging/spectroscopy at the Solid/liquid interface (ISIS 2015)*, Septmeber 2-4, 2015, Krakow, Poland
5. A. Rydosz, W. Maziarz, T. Pisarkiewicz, K. Wincza, 2014, **Deposition of Nanocrystalline WO<sub>3</sub> and CuO Thin Film In View of Gas Sensor Applications**, *The Second International Conference on Technological Advances in Electrical, Electronics and Computer Engineering (TAEECE2014)*, Kuala Lumpur, Malaysia – March 18-20, 2014, 150-155
6. K. Staszek, P. Kamiński, A. Rydosz, K. Wincza, S. Gruszczynski, 2014, **Broadband miniaturized butler matrix utilizing left-handed transmission lines**, *2014 20th International Conference on Microwaves, Radar, and Wireless Communication (MIKON)*, 2014, Gdańsk, Poland 16-18 June, DOI: 10.1109/MIKON.2014.6899951
7. K. Staszek, P. Kamiński, A. Rydosz, S. Gruszczynski, K. Wincza, 2013, **A least-squares approach to the calibration of multiport reflectometers**, *2013 IEEE MTT-S International Microwave and RF Conference*, New Delhi, India – December 14-16, DOI: 10.1109/IMaRC.2013.6777712
8. K. Staszek, P. Kamiński, A. Rydosz, S. Gruszczynski, K. Wincza, 2013, **Miniaturized broadband three-section symmetrical directional coupler with reduced coupling coefficient requirements**, *2013 IEEE MTT-S International Microwave and RF Conference*, New Delhi, India – December 14-16, DOI: 10.1109/IMaRC.2013.6777713
9. K. Staszek S. Gruszczynski, K. Wincza, A. Rydosz, 2013, **Broadband measurements of reflection coefficient with the use of Butler matrix**, *2013 SBMO/IEEE MTT-S International Microwave & Optoelectronics Conference (IMOC)*, Rio de Janeiro, Brasil – August 4-7, DOI: 10.1109/IMOC.2013.6646410
10. I. Slomian, J. Sorocki, P. Kaminski, A. Rydosz, K. Wincza, S. Gruszczynski, **Broadband 4x 4 microstrip antenna array utilizing slot-coupled power dividers**, *2013 SBMO/IEEE MTT-S International Microwave & Optoelectronics Conference (IMOC)*, Rio de Janeiro, Brasil – August 4-7, DOI: 10.1109/IMOC.2013.6646421
11. W. Maziarz, T. Pisarkiewicz, A. Rydosz, K. Wysocka, G. Czynnek, 2013, **Metal oxide nanostructures for gas detection**, *Electron Technology Conference 2013*, Ryn , Poland, April 16-21, Proc. SPIE 8902, Electron Technology Conference 2013, 890226 (July 25, 2013); doi:10.1117/12.2030298

12. I. Slomian, A. Rydosz, K. Staszek, K. Wincza, S. Gruszczynski, 2013, **Reduced sidelobe switched beam antenna array for driver's fatigue level Doppler sensor**, 2013 International Conference on Informatics, Electronics & Vision (ICIEV), Dhaka, Bangladesh – May 17-18, DOI: 10.1109/ICIEV.2013.6572605
13. A. Rydosz, W. Maziarz, T. Pisarkiewicz, K. Wincza, S. Gruszczynski, 2013, **Nano-thin CuO films doped with Au and Pd for gas sensors applications**, 2013 International Conference on Informatics, Electronics & Vision (ICIEV), Dhaka, Bangladesh – May 17-18, DOI: 10.1109/ICIEV.2013.6572588
14. A. Rydosz, W. Maziarz, T. Pisarkiewicz, S. Gruszczynski, K. Wincza, 2012, **The gas micropreconcentrators in LTCC and MEMS technologies for breath acetone analysis**, 2012 IEEE Electrical Design of Advanced Packaging and Systems Symposium (EDAPS), Taipei – Taiwan, December 9-11, DOI:10.1109/EDAPS.2012.6469380
15. W. Maziarz, A. Rydosz, T. Pisarkiewicz, K. Domański, P. Grabiec, 2012, **Gas-sensitive Properties of ZnO Nanorods/Nanowires Obtained by Electrodeposition and Electrospinning Methods**, *Procedia Engineering* (vol. 47): 841-844, 26th European Conference on Solid-State Transducers, EUROSENSOR 2012, DOI: 10.1016/j.proeng.2012.09.278
16. S. Gruszczynski, K. Wincza, A. Rydosz, 2012, **A broadband low-cost antenna array for Frequency Modulated Continuous Wave (FMCW) radars operating at 24 GHz**, *Communications and Electronics (ICCE)*, 2012 Fourth International Conference, DOI: 10.1109/CCE.2012.6315938
17. T. Pisarkiewicz, W. Maziarz, A. Rydosz, H. Jankowski, J. Sokulski, 2012, **Deposition of nanocrystalline WO<sub>3</sub> thin film using magnetron sputtered multilayer structure in view of gas sensors applications**, *IMCS 2012 - The 14th International Meeting on Chemical Sensors*, May 20-23, Nuernberg, Germany
18. A. Rydosz, W. Maziarz, T. Pisarkiewicz, K. Domański, P. Grabiec, 2011, **The gas micropreconcentrator structures for low level breath acetone concentration detection**, *Breath Analysis Summit 2011 - International Conference on Breath Research*, book of abstract: 216-217
19. A. Rydosz A., W. Maziarz, T. Pisarkiewicz, K. Domański, P. Grabiec, 2011, **The gas micropreconcentrator structures for low level acetone concentration detection**, *Gas sensors based on semiconducting metal oxides: basic understanding & applications : 4th GOSPEL workshop : Tübingen (Germany), 6th and 7th of June, 2011: 60–61*
20. Z. Sobków, T. Pisarkiewicz, A. Rydosz, 2010, **Study of optical mid-IR methane detector in a wide concentration range**, *ELTE 2010 & IMAPS-CPMT : 10th Electron Technology conference and 34th international microelectronics and packaging : Wrocław, 22–25 September 2010 : book of abstracts*
21. T. Pisarkiewicz, W. Maziarz, A. Rydosz, J. Mueller, M. Mach, 2010, **Microsystem in LTCC technology for measurements of gas concentration in a sub-ppm range**, *EUROSENSOR XXIV CONFERENCE Book Series: Procedia Engineering* (5): 1244-1247