

Tymon Przemyslaw Zielinski

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81-712 Sopot, Poland
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CURRICULUM VITAE

EDUCATION

Institute of Oceanology Polish Academy of Sciences, **Postdoctoral degree “habilitacja”, 2008**
Thesis Title: Physical properties of near-water aerosol layer in coastal areas.

University of Gdansk, Department of Biology, Geography and Oceanography, **Ph.D., 1996**
Thesis Title: The Application of Lidar Methods in Determining the Influence of Dynamic Conditions of the Atmosphere on the Concentrations and Size Distributions of Marine Aerosols.

University of Gdansk, Department of Biology, Geography and Oceanography, **M.Sc., 1991**
Thesis Title: The Influence of Chosen Physical Parameters on Exchange Processes Between the Sea and the Atmosphere.

University of Cambridge, International Examinations - Certificate of Proficiency in English, 1993.

EMPLOYMENT HISTORY

since 2010	Institute of Oceanology, Polish Academy of Sciences, Sopot, Poland - Assoc. professor.
1998 – 2010	Institute of Oceanology, Polish Academy of Sciences, Sopot, Poland - Senior Scientist.
2008 - 2009	University of Szczecin, Poland - Professor , Head of the Marine and Environmental Physics Faculty.
1996 - 1998	Institute of Oceanology, Polish Academy of Sciences, Sopot, Poland - working on Polish Committee for Scientific Research grant #6PO4 E03611 project dedicated to estimating the pollution transfer from estuary areas to the atmosphere.
1991 - 1996	University of Gdansk, Department of Biology, Geography and Oceanography. Doctoral candidate simultaneously teaching students and working under Polish Committee for Scientific Research grant #6PO4 EP202 012 04 for

the investigation of the role of the coastal ecosystem of the southern Baltic Sea in the exchange of nutrients, carbon dioxide, methane and trace metals between the sea and the atmosphere.

RELEVANT EXPERIENCE

- 1992 - 2010 **Hundred and twenty seven** oral and poster presentations at international conferences and meetings in Poland, Austria, Germany, Holland, Italy, Russia, Sweden, USA, UK, Belgium, Spain, Croatia, Hungary, Japan, Portugal, Norway, Mexico, Ireland, Bulgaria, Greece, Romania, Denmark, Turkey.
- Invited lectures** at NATO Sensors&Electronics Technology Panel (SET) Symposium in Naples, Italy, 1998; Oceanology International 2000 in Brighton, UK; Indiana University, 2000, National Technical University of Athens, Greece, 2001, University of Miami 2002, Institute of Marine Sciences, Barcelona, 2003; University of Szczecin, Poland, 2004, Warsaw University, Poland, 2005, 2006; Institute of Meteorology and Water Management, Cracow, Poland, 2002, 2005, 2006; Second International Conference on Global Warming, Santa Fe, USA, 2006; Iowa University, 2006; Wyoming University, 2006; NUIG, Ireland, 2007; INOE, Romania, 2009; AWI, Potsdam, Germany, 2009; PSI, Switzerland, 2010; OTEM, Romania, 2010, 2011; NOAA, USA, 2011, University of Florence, Italy, 2011, Role of aerosols in climate system Conference, Warsaw, 2013.
- Invited to** present work at Goddard Space Flight Center; Naval Postgraduate School and Naval Research Laboratory in Monterey; SPAWAR Systems, San Diego; Office of Naval Research in Arlington, 1998, 1999, 2000; Risoe National Laboratory in Denmark, 2001, 2004; DLR-Institute of Space and Sensor Technology in Berlin, Germany, AWI-Alfred Wegener Institute in Germany, UK-V4 Frontiers of Science, 2007; DELICE meeting, Romania 2009; CNR, Bologna, Italy, 2008, 2009.
- Invited to** the lidar workshop as part of the scientific exchange with the Estonian Academy of Sciences, August 1999, September 2000.
- Since 2014 Member of the Board of Directors of the Center for Polar Studies.
- Since 2013 **Principle Investigator** in the iAREA, Polish-Norwegian Fund Grant.
- 2010 - 2013 **Coordinator** in a Polar-AOD Polish chapter project of the Polish Committee for Scientific Research grant POLAR-AOD/2010.
- Since 2013 **Investigator** in the 7 FP Sea for Society project.
- Since 2011 **Coordinator** of the IOPAS team for the 7 FP EDUSCIENCE project.

2009 - 2012 **Advisory board** member in an EU DELICE project.

2007 - 2010 **Coordinator** in a Marine Aerosols in Climate Studies – MACS in Polish Committee for Scientific Research grant AERONET/59/2007.

Since 2006 **Principal Investigator** in the NASA Marine Aerosol Network.

Principle Investigator in a SAFARI project within the ACCENT Program.

Researcher in a Studies of the Marine Aerosol Emission Polish-Norwegian Project (MACRON).

Researcher in a IPY 2007/SCSCS project.

Principal Investigator in a SOAP/ACCENT project 2006.

National coordinator in a IPY 2007/POLAR-AOD project.

Before 2006 **Recipient** of five Office of Naval Research (VSP) grants in 1998, 1999, 2002, 2003, 2005.

National coordinator in an international project ASTAR-Arctic Study of Tropospheric Aerosols, Clouds and Radiation 2004-2007.

Station Manager for the NASA AERONET Project 1999-2003.

Co-principal investigator in a Visby Project grant, 2000.

Coordinator in Polish Committee for Scientific Research grant #6PO4 012 17 dedicated to the evaluation of the AOT and visibility in the coastal area of the Baltic Sea, 1999-2001.

Principal Investigator in Polish Committee for Scientific Research grant #6PO4 E 036 11 dedicated to the evaluation of the aerosol physical properties in the coastal area of the Baltic Sea, 1997-1999.

CONFERENCE ACTIVITIES

Co-organization and member of the scientific committee, I National Conference, Role of aerosols in climate system, Warsaw, 2013.

Member of the scientific committee, 40th annual European Meeting on Atmospheric Studies by Optical Methods, Norway, 2013.

Organization and a Chairman, 39th annual European Meeting on Atmospheric Studies by Optical Methods Sopot, Poland, 2012.

Organization and Chairing, GeoPlanet Climate Forum, Sopot, Warsaw, Wroclaw, Poland, 2012.

Organizing and chairing, international workshop on atmospheric studies in the Arctic 2011, Sopot, Poland, 2011.

Chairman, Optoelectronic Techniques for Environmental Monitoring, OTEM, Cluj, Romania, 2010, 2011.

Organization and chairing, international workshop on Marine impact on aerosol physical properties, Sopot, Poland, 2009.

Co-organization and chairing, Sopot Forum of Young Scientists, Sopot, Poland, 2009 – 2013.

Co-chairman, Remote Sensing Session at the European Aerosol Conference, Salzburg, Austria, 2007.

Co-organization of an International Aerosol Summer School, Jastarnia, Poland, 2006.

Organization and chairing of the Polish-Norwegian Atmospheric Science Workshop, Sopot, Poland, 2006, 2007.

Co-organization and participation in the Baltic Science Festival, 2003, 2004, 2005, 2007, 2012, 2013.

Co-organization and chairing of the IOPAS-University of Gdansk Workshop on air-sea interactions, Gdynia, Poland, 2004.

Organization and chairing of the Special Symposium on Aerosols and Climate Change/Indirect Effects during the AAAR 2004 Conference in Atlanta, USA, 2004.

Co-chairman at three sessions during the AAAR 2003 conference in Anaheim, USA, 2003.

Organization and chairing of the IOPAS-AWI (Germany) Seminar on Lidar Investigations in the Arctic, Sopot, Poland, 2003.

Organization and chairing the IOPAS-DLR (Germany) Workshop on Remote Sensing 2002.

Co-chairman, Radiative effects and climate Symposium during the AAAR 2002 Conference, Charlotte, USA, 2002.

Co-chairman, Atmospheric Aerosols Workgroup, European Aerosol Assembly - Co-chairman at Marine Aerosols session at the European Aerosol Conference, Hamburg, 1997.

Member of the AAAR, Atmospheric Aerosols Workgroup, 2002-2006.

Organization and leadership of 16 international experiments, including sea cruises.

Participation in over 55 sea and coastal measurement campaigns.

Laser Diagnostic Instruments, Tallinn, Estonia, 1992
- Internship/training in the use and application of lidar techniques in the remote sensing of atmospheric aerosols.

OTHER PROFESIONAL ACTIVITIES

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|------------|---|
| Since 2014 | Topical editor in peer-reviewed journal <i>Oceanologia</i> . |
| Since 2013 | Member of the Scientific Council of the Climate Forum – Science on Climate. |
| 2013 | Editor of a Springer Series: GeoPlanet: Earth and Planetary Sciences book entitled <i>Insights on environmental changes. Where the World is Heading</i> , ISBN 978-3-319-03683-0, 2014. |
| 2013 | Reviewer for chapters 7 and 8 of the Fifth IPCC report. |
| 2013 | Editor in Chief of a Topical Issue in the <i>Acta Geophysica – Optical Methods in Atmospheric Sounding</i> . |
| 2013 | Member of the commission for the “habilitacja” process of M. Ostrowska. |
| Since 2012 | Member of the Ph.D. commissions at the Institute of Oceanology PAS. |
| 2012 | Review of Ph.D. by M. Posniak; Member of the commission for the “habilitacja” process of A. Lewandowska. |
| Since 2012 | Member of the scientific council of the University of Gdansk Ph.D. Study Program in Oceanography. |
| Since 2011 | Director of the IO PAS Ph.D. Study Program. |
| 2007-2011 | Scientific Secretary at the Institute of Oceanology Polish Academy of Sciences. |
| Since 2009 | President of the Sopot Association for the Advancement of Science. |

- 2007 - 2009 Co-founder of the Sopot Association for the Advancement of Science.
- Since 2006 Member of the editorial board in the Science Research Essays.
- 2007 Organization and participation in a TV Debate on Climate Change.
- Since 2002 Regular paper reviewing:
 - Journal of Geophysical Research-Atmospheres,
 - Applied Optics,
 - Optics Express,
 - Tellus,
 - Atmospheric Environment,
 - Atmospheric Chemistry and Physics,
 - Acta Geophysica,
 - Oceanologia,
 - Boundary Field Problems and Computer Simulation,
 - EARSeL Proceedings.

TEACHING EXPERIENCE

- Since 2011 Teaching online and direct classes on Oceanography in the EU EDUSCIENCE project.
- 2012 Gdansk University; Ph.D. Study program - lectures on Air-Sea Interaction processes.
- 2008 - 2009 Directing the Marine Physics Department and teaching courses in physics at the University of Szczecin.
- 2007 Organization and lecturing at the Science-Society Dialog Club entitled "Marine tales" in Sopot, Poland.
- 2006 - 2011 Teaching Academic Skills course at the British Council in Gdansk, Poland.
- Since 2006 IOPAS Ph.D. Study program - lectures on Air-Sea Interaction processes.
- 1991 - 1996 Department of Oceanography, University of Gdansk
 - lecturing third and fourth year students of the Oceanography program on the application of modern physical methods for atmospheric investigations.

AWARDS

- 2013 Bronze Cross of Merit awarded by the President of Poland for going beyond the call of duty in my work for the country and society as a whole.
- 2013 Award of the Director of the IO PAS for publishing .
- 2012 Award of the Director of the IO PAS for publishing .
- 2004 Award of the Scientific Council of the IO PAS for publishing.

2003	Award of the Scientific Council of the IO PAS for publishing.
2002	Award of the Scientific Council of the IO PAS for publishing.
2000	Award of the Scientific Council of the IO PAS for publishing.
1999	Award of the Scientific Council of the IO PAS for publishing.
1998	Award of the Scientific Council of the IO PAS for publishing.

PERSONAL DATA

Date of Birth - 9 March 1965.

Marital status: remarried, wife Izabela.

Dependents - Three children ages 22 (daughter Leal), 20 (son Kasper), 1 (daughter Aurora).

Hobbies – Football (play and watch), philosophy and GOOD beer.

PUBLICATIONS

1. Preliminary application of lidar to measurements of the marine aerosol concentration in the atmosphere over the Gulf of Gdańsk at Sopot. **Oceanologia** 33, 191-201. Zielinski T., Korzeniewski K., Falkowska L., **1992**.
2. Estimation of kinetic coefficients describing marine aerosol by means of lidar method. **Bulletin of the Polish Academy of Sciences, Earth Sciences**, Vol. 41, No. 3, 161-168. Zielinski T., Zielinski A., Piskozub J., **1993**.
3. Aerosol Fluxes in the Breaker Zone of Gdańsk Bay at Hel. **Oceanologia** 35, 13-25. Zielinski T., **1993**.
4. Investigation of marine aerosol with multifrequency lidar. **Applied Laser Radar Technology, SPIE Proceedings**, Vol. 1936, 213-222. Zielinski A., Piskozub J., Irczuk M., Zielinski T., **1993**.
5. Breaker zone aerosol dynamics in the southern Baltic Sea. **Atmospheric Propagation and Remote Sensing, SPIE Proceedings**, Vol. 2222, 316-327. Zielinski T., Zielinski A., **1994**.
6. Lidar Method in Investigations of Marine Aerosols. **Bulletin of the Polish Academy of Sciences, Earth Sciences**, Vol. 42, No. 1, 77-88. Zielinski A., Piskozub J., Zielinski T., **1994**.
7. Aerosol Fluxes in the Breaker Zone During the BAEX'93 Experiment. **19th Conference of the Baltic Oceanographers Proceedings**, Vol. I, 26-35. Zielinski T., Piskozub J., **1994**.
8. Results of lidar based investigations of marine aerosol concentrations in the coastal zone of the Southern Baltic Sea. **19th Conference of the Baltic Oceanographers Proceedings**, Vol. I, 64-75. Zielinski A., Piskozub J., Król T., Irczuk M., Drozdowska V., Zielinski T., **1994**.
9. A comparison of several measurement techniques used in BAEX' 93 marine aerosol experiment. **19th Conference of the Baltic Oceanographers Proceedings**, Vol. I, 36-42. Piskozub J., Petelski T., Król T., Marks R., Chomka M., Zielinski T., **1994**.

10. Breaker zone aerosol dynamics in the southern Baltic Sea. **Atmospheric Propagation and Remote Sensing, SPIE Proceedings**, Vol. 2222, 316-327. Zielinski T., Zielinski A., **1994**.
11. Lidar studies of marine aerosol in the coastal zone. **Atmospheric Propagation and Remote Sensing IV, SPIE Proceedings**, Vol. 2471, 256-264. Zielinski A., Piskozub J., Irczuk M., Zielinski T., **1995**.
12. Residence times of aerosols in the breaker zones of the Southern Baltic Sea. **Atmospheric Propagation and Remote Sensing IV, SPIE Proceedings**, Vol. 2471, 356-364. Zielinski T., **1995**.
13. Aerosol fluxes and their gradients in the marine boundary layer over the coastal zone. **Bulletin of the Polish Academy of Sciences, Earth Sciences**, Vol. 44, No. 4, 203-211. Zielinski A., Zielinski T., **1996**.
14. Thickness of the mixed atmosphere layer above the sea surface determined by means of the lidar method. **Laser Radar Technology and Applications, SPIE Proceedings**, Vol. 2748, 365-373. Zielinski T., Zielinski A., **1996**.
15. Model describing the dependence of aerosol microstructure on different sea bottom types. **Application of Lidar to Current Atmospheric Topics, SPIE Proceedings**, Vol. 2833, 266-273. Zielinski T., Zielinski A., **1996**.
16. Dependence of aerosol fluxes and their residence times on different types of sea bottoms. **Journal of Aerosol Science**, Vol. 27, Suppl. 1, 57-59. Zielinski A., Zielinski T., **1996**.
17. Aerosol size distribution function in the coastal area. **Journal of Aerosol Science**, Vol. 28, Suppl. 1, 41-42. Zielinski A., Zielinski T., Piskozub J., **1997**.
18. Verification of sea spray emission model. **Journal of Aerosol Science**, Vol. 28, Suppl. 1, 101-103. Petelski T., Chomka M., Zielinski A., Piskozub J., Zielinski T., **1997**.
19. Aerosol concentrations and their gradients near urban areas determined by means of the lidar method. **EurOpto Series, Lidar Atmospheric Monitoring**, Vol. 3104, 242-247. Zielinski T., Zielinski A., **1997**.
20. Aerosol masses and mass gradients in the marine boundary layer over the breaker zone. **Oceanologia**, 39 (3), 201-209. Zielinski T., **1997**.
21. Vertical distribution of aerosols in coastal areas of the southern Baltic Sea. **Journal of Aerosol Science**, Vol. 29, Suppl. 1, 653-654. Zielinski A., Zielinski T., Piskozub J., **1998**.
22. Verification of different techniques for the measurement of marine aerosols in coastal areas. **Journal of Aerosol Science**, Vol. 29, Suppl. 1, 853-854. Zielinski T., Chomka M., Piskozub J., Petelski T., **1998**.

23. Changes in aerosol concentration with altitude in the marine boundary layer in coastal areas of the southern Baltic Sea. **Bulletin of the Polish Academy of Sciences, Earth Sciences**, Vol. 46, No. 3-4, 133-139. Zielinski T., **1998**.
24. Dependence of aerosol size distribution on different sea bottom types. **NATO Sensors&Electronics Technology Panel (SET) Symposium**, 38, 1-7, Zielinski A., Zielinski T., Piskozub J., **1998**.
25. Aerosol optical depth over the southern Baltic sea measured by lidar. **Journal of Aerosol Science**, Suppl. 1, 95-97, Zielinski T., Zielinski A., Piskozub J., **1999**.
26. Influence of dynamic conditions on aerosol enrichment factor in the coastal area. **Journal of Aerosol Science**, Suppl. 1, 186-187, Zielinski T., Falkowska L, Piskozub J., **1999**.
27. Variations of aerosol extinction over the coastal area of the southern Baltic Sea. **Journal of Aerosol Science**, Suppl. 1, 455-456, Zielinski T., Zielinski A., **2001**.
28. Remote sensing in the marine boundary layer over the southern Baltic sea. **EOS/SPIE Remote Sensing Symposium Proceedings**, Vol. 3865, 144-149, Zielinski T., Piskozub J., Zielinski A., **1999**.
29. Particle deposition velocity in marine boundary layer over coastal areas. **Bulletin of the Polish Academy of Sciences, Earth Sciences**, Vol. 47, No. 4, 207-214. Zielinski T., **1999**.
30. Aerosol optical thickness over the coastal area of the southern Baltic Sea. **Optica Applicata**, XXIX, No. 4, 339-447. Zielinski T., Zielinski A., Piskozub J., Drozdowska V., Irczuk M., **1999**.
31. Lidar based investigations of optical extinction in the marine boundary layer over the coastal area. **Oceanological Studies** XXIX, No. 3, 35-42. Zielinski T., Piskozub J., Drozdowska V., Zielinski M., Irczuk M., **2000**.
32. Selected parameters of the mixed atmosphere layer above the sea surface determined with lidar. **Bulletin of the Polish Academy of Sciences, Earth Sciences**, Vol. 49, No. 1, 67-74, Zielinski T., **2001**.
33. Aerosol extinction and optical thickness in the atmosphere over the Baltic Sea determined with lidar. **Journal of Aerosol Science**, 33/6, 47-61, Zielinski T., Zielinski A., **2002**.
34. A lidar study of aerosols in the lower troposphere over coastal regions in Poland and Greece, **SPIE Proceedings** Vol. 5229, 54-57, Z. Błaszczak, M. Hałas, J. Grabowski, T. Zielinski, A. Papayannis, **2003**.
35. Physical and optical properties of marine aerosols over the coastal area during the BALTIERS campaigns, **Journal of Aerosol Science**, Vol. II, 1139-1140, T. Zielinski, B. Pflug, B. Gerash, G. Zimmermann, **2003**.

36. Impact of meteorological parameters on temporal variations of aerosol vertical concentrations derived for the coastal area of the Baltic Sea. **Journal of Aerosol Science**, Vol. II, 1143-1144, A. Zielinski, T. Zielinski, **2003**.
37. Dependence of surf zone aerosol on wind direction and wind speed at a coastal site of the Baltic Sea. **Oceanologia**, No. 45(3), 359-371, Zielinski T., **2003**.
38. Variations of physical properties of surf generated aerosols with altitude. **Oceanologia**, No. 45(4), 1-11, Zielinski T., **2003**.
39. Fluorescence characteristics of the surface water layer of Arctic Seas based on lidar and spectrophotometric methods, **Proceedings of EARSeL Workshop on Remote Sensing of the Coastal Zone**, V. Drozdowska, J. Stoń, A. Beszczyńska-Moller, W. Walczowski, J. Piskozub, T. Zielinski, Vol. 3, No. 1, 136-142, **2004**.
40. Studies of aerosol physical properties in coastal areas. **Aerosol Science&Technology**, 38 (5): 513-524, T. Zielinski., **2004**.
41. Variations of aerosol optical properties and ozone contents in the Spitsbergen Region. **Journal of Aerosol Science**, Vol. II, 597-598, Zielinski T., **2004**.
42. Aerosol physical properties measured in the Arctic during the AREX campaigns 2000-2003. **Journal of Aerosol Science**, Vol. II, 725-726, Zielinski T., Petelski T., **2004**.
43. Lidar study of seasonal changes in spatial distribution of aerosol in the lower troposphere over urban coastal areas. **Oceanologia**, No. 46(3), 347-364, M. Hałas, Z. Błaszczak, I. Grabowski, A. Papayannis, T. Zielinski, **2004**.
44. Studies of aerosols in the marine boundary layer in the coastal area during the EOPACE'99 campaign. **Boundary-Layer Meteorology**, Vol. 116, No. 3, 533-541, T. Zielinski, J. Piskozub, **2005**.
45. Physical properties of aerosol near-water layer in coastal areas, **Rozprawy i Monografie IOPAN**, No. 18, 164 pp., Zieliński T., **2006** (in Polish).
46. Studies of aerosol physical properties in the coastal area. **Optica Applicata**, No. 4, Vol. 36, 629-634, T. Zielinski, T. Petelski, **2006**.
47. Remote oil film thickness measurements on the water surface by means of water Raman signal attenuation, **Physicochemical problems of natural waters ecology**, Vol. 5, 31-36, V. Drozdowska, T. Zielinski, J. Piskozub, **2007**.
48. Preliminary studies of aerosol composition in coastal areas, **Academic Journals, Scientific Research and Essays**, Vol. 2 (6), 259-262, T. Zielinski, A. Ponczkowska, **2007**.
49. Aerosols in Polar regions: A historical review on the basis of optical depth and in-situ observations, **Journal of Geophysical Research**, Vol. 112, D16205,

doi:10.1029/2007JD008432, C. Tomasi, V. Vitale, A. Lupi, C. Di Carmine, M. Campanelli, A. Herber, R. Treffeisen, R. S. Stone, E. Andrews, S. Sharma, V. Radionov, W. von Hoyningen-Huene, K. Stebel, G. Hansen, C. L. Myhre, C. Wehrli, V. Aaltonen, H. Lihavainen, A. Virkkula, R. Hillamo, J. Ström, C. Toledano, V. Cachorro, P. Ortiz, A. de Frutos, S. Blindheim, M. Frioud, M. Gausa, T. Zielinski, T. Petelski, M. Shiobara, **2007**.

50. Lidar-based Studies of Aerosol Optical Properties Over Coastal Areas, **Sensors**, 7, 3347-3365, T. Zielinski, B. Pflug, **2007**.
51. Aerosol measurements in Hornsund during the XXIX PAS Polar expedition, **Problemy Klimatologii Polarnej**, 18, A. Rozwadowska, T. Petelski, T. Zielinski, **2008** (in Polish).
52. Maritime Aerosol Network (MAN) as a component of AERONET, **Journal of Geophysical Research-Atmospheres**, Vol. 114, D06204, doi: 10.1029/2008JD011257, A. Smirnov, B. Holben, I. Slutsker, D. Giles, C. McClain, T. Eck, S. Sakerin, A. Macke, P. Croot, G. Zibordi, P. Quinn, J. Sciare, S. Kinne, M. Harvey, T. Smyth, S. Piketh, T. Zielinski, A. Proshutinsky, J. Goes, N. Nelson, P. Larouche, V. Radionov, P. Goloub, K. Krishna Moorthy, R. Matarrese, E. Robertson, F. Jourdin, **2009**.
53. Aerosol optical depth measured at different coastal boundary layers and its links with synoptic-scale features, **Remote Sensing**, 1, doi:10.3390/sensors90rs1030557, A. Ponczkowska, T. Zielinski, T. Petelski, K. Markowicz, G. Chourdakis, G. Georgoussis, **2009**.
54. Cluster analysis of the impact of air back trajectories on aerosol optical properties at Hornsund, Spitsbergen, **Atmospheric Chemistry and Physics**, 10, (3), 877 – 893, A. Rozwadowska, T. Zielinski, T. Petelski, P. Sobolewski, **2010**.
55. Observations of new aerosol particle formation in the south-eastern Baltic Sea region. Part I. Generation and growth of aerosols at a coastal site, **Oceanologia**, 52 (1), 53-75, K. Plauškaitė, V. Ulevičius, N. Špirkauskaitė, S. Byčėnėnė, T. Zielinski, T. Petelski, A. Ponczkowska, **2010**.
56. Studies of the impact of aerosol optical properties on climate change processes, **Environmental Engineering and Management Journal**, Vol. 10, No. 1, 155-159, P. Makuch, A. Strzalkowska, A. Ponczkowska, T. Zielinski, T. Petelski, J. Kowalczyk, V. Drozdowska, D. Gutowska, A. Rozwadowska, J. Pasnicki, K. Zielinski, **2011**.
57. Maritime aerosol network as a component of AERONET – first results and comparison with global aerosol models and satellite retrievals, **Atmospheric Measurement Technique**, 4, doi:10.5194/amt-4-583-2011, A. Smirnov, B. N. Holben, D. M. Giles, I. Slutsker, N. T. O'Neill, T. F. Eck, A. Macke, P. Croot, Y. Courcoux, S. M. Sakerin, T. J. Smyth, T. Zielinski, G. Zibordi, J. I. Goes, M. J. Harvey, P. K. Quinn, N. B. Nelson, V. F. Radionov, C. M. Duarte, R. Losno, J. Sciare, K. J. Voss, S. Kinne, N. R. Nalli, E. Joseph, K. Krishna, Moorthy, D. S. Covert, S. K. Gulev, G. Milinevsky, P. Larouche, S. Belanger, E. Horne, M. Chin, L. A. Remer, R. A. Kahn, J. S. Reid, M. Schulz, C. L. Heald, J. Zhang, K. Lapina,

- R. G. Kleidman, J. Griesfeller, B. J. Gaitley, Q. Tan, and T. L. Diehl, **2011**.
58. Remote sensing measurements of the volcanic ash plume over Poland in April 2010, **Atmospheric Environment**, <http://dx.doi.org/10.1016/j.atmosenv.2011.07.015>, K. M. Markowicz, T. Zielinski, A. Pietruczuk, M. Posyniak, O. Zawadzka, P. Makuch, I. S. Stachlewska, A. K. Jagodnicka, T. Petelski, W. Kumala, P. Sobolewski, T. Stacewicz, **2011**.
59. Recent Alterations of Aerosol Concentration, Mercury Distribution and Organic Matter Deposition in the Arctic, **Papers on global change IGBP**, Vol. 18, No. 1/2011, 23-33, J. Pempkowiak, T. Zielinski, T. Petelski, A. Zaborska, J. Beldowski, **2011**.
60. Study of vertical structure of aerosol optical properties with Sun photometers and ceilometer during MACRON Campaign in 2007, **Acta Geophysica**, 60 (5): 1308-1337, K. M. Markowicz, T. Zielinski, S. Blindheim, M. Gausa, A. K. Jagodnicka, A. Kardas, W. Kumala, S. P. Malinowski, T. Petelski, M. Posyniak, T. Stacewicz, **2012**.
61. Studies of aerosols advected to coastal areas with use of remote techniques, **Acta Geophysica**, vol. 60, no. 5, DOI: 10.2478/s11600-011-0075-4, 1359-1385, T. Zielinski, T. Petelski, P. Makuch, A. Strzalkowska, A. Ponczkowska, K. M. Markowicz, G. Chourdakis, G. Georgoussis, S. Kratzer, **2012**.
62. Evaluation of sun photometer capabilities for retrievals of aerosol optical depth at high latitudes: The POLAR-AOD intercomparison campaigns, **Atmospheric Environment**, 52: 4-17 Sp. Iss. SI JUN 2012, M. Mazzola, R.S. Stone, A. Herber, C. Tomasi, A. Lupi, V. Vitale, C. Lanconelli, C. Toledano, V.E. Cachorro, N.T. O'Neill, M. Shiobara, V. Aaltonen, K. Stebel, T. Zielinski, T. Petelski, J.P. Ortiz de Galisteo, B. Torres, A. Berjon, P. Goloub, Z. Li, L. Blarel, I. Abboudm, E. Cuevas, M. Stock, K.-H. Schulz, A. Virkkula, **2012**.
63. Impact of urban pollution emitted in Warsaw on aerosol properties, **Atmospheric Environment**, 69: 15-28 APR 2013, O. Zawadzka, K. M. Markowicz, A. Pietruczuk, T. Zielinski, J. Jaroslowski, **2013**.
64. Aerosol properties and radiative forcing for three air masses transported in Summer 2011 to Sopot, Poland, **AIP Conf. Proc.** 1531, 504 (2013); doi: 10.1063/1.4804817, A. Rozwadowska, I. Stachlewska, P. Makuch, K. Markowicz, T. Petelski, A. Strzalkowska, T. Zielinski, **2013**.
65. Studies of aerosol optical depth with use of Microtops sun photometers and MODIS detectors in the coastal areas of the Baltic Sea, **Acta Geophysica**, O. Zawadzka, P. Makuch, K.M. Markowicz, T. Zielinski, T. Petelski, V. Ulevicius, A. Strzalkowska, A. Rozwadowska, D. Gutowska, vol. 62, no. 2, Apr. 2014, pp. 400-422, DOI: 10.2478/s11600-013-0182-5, **2014**.
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