

Compete list of publications

Original papers

1. J. Stroka, K. Maksymiuk, Z. Galus, "Electrode Processes of the Pb(II)/Pb(Hg) and Zn(II)/Zn(Hg) Systems in Water + Hexamethylphosphoramide Mixtures", *J. Electroanal. Chem.*, 167 (1984) 211-226.
2. K. Maksymiuk, J. Stroka , Z. Galus, "A Generalized Model of Electrode Processes in Mixed Solvents", *J. Electroanal. Chem.*, 181 (1984) 51-63.
3. K. Maksymiuk, J. Stroka, Z. Galus, "Electrochemical Behavior of the Eu(III/II)-EDTA System on a Mercury Electrode in Water + Dimethylsulphoxide (DMSO), Water + Acetonitrile (AN) and Water + Hexamethylphosphoramide (HMPT) Mixtures", *J. Electroanal. Chem.*, 226 (1987) 315-329.
4. K. Maksymiuk, J. Stroka, Z. Galus, "Influence of Adsorbed Hexamethyl Phosphoric Triamide on the Zn(II)/Zn(Hg) Electrode Kinetics in Aqueous Solutions", *Polish J. Chem.*, 61 (1987) 529-536.
5. K. Maksymiuk, Z. Galus, "On the Role of Ion Solvation in Electrode Kinetics: $M^{n+} + ne^- = M(Hg)$ ", *J. Electroanal. Chem.*, 234 (1987) 361-368.
6. K. Maksymiuk, J. Stroka, Z. Galus, "Electrode Processes in Mixed Solvents. Correlations between Electrochemical Rate Constants and Gibbs Energy of Transfer", *J. Electroanal. Chem.*, 248 (1988) 35-53.
7. M. Cetnarska, K. Maksymiuk, J. Stroka, "Electrode Kinetics of the Eu(III)/Eu(II) System at Mercury Electrodes in Water - Acetonitrile (AN) and Water - DMSO Mixtures", *Electrochim. Acta*, 33 (1988) 11-17.
8. K. Maksymiuk, Z. Galus, "On the Role of Outer Solvation Shell in Simple Electron Transfer Reactions. Electrode Processes of the $Co(en)_3^{3+/2+}$ Couple in Selected Mixed Solvents", *Electrochim. Acta*, 34 (1989) 415-423.
9. J. Stroka, K. Maksymiuk, A. Mital, "Electrode Processes in Mixed Solvents. The Cd(II)/Cd(Hg) Couple in Water + Hexamethylphosphoramide (HMPT) Solutions", *J. Electroanal. Chem.*, 272 (1989) 145-160.
10. K. Maksymiuk, J. Stroka, Z. Galus, "Evaluation of Solvation Numbers and Reaction Orders for Electrode Processes of Metal Ions in Non-Aqueous Media", *J. Electroanal. Chem.*, 279 (1990) 1-18.
11. K. Maksymiuk, Z. Galus, "On the Role of Reactant Adsorption in Electrode Processes of the $Cd(en)_3^{2+/Cd(Hg)}$ Couple in Aqueous-Organic Mixed Solvents", *Polish J. Chem.*, 66 (1992) 25-38.
12. Trinh Xuan H., K. Maksymiuk, Z. Galus, "Influence of Reactant Size on Electrochemical Kinetics of Europium (III) / Europium (II) Complexes with Selected Chelating Ligands in the Presence of Adsorbed Aliphatic Alcohols", *J. Electroanal. Chem.*, 331 (1992) 845-855.
13. K. Maksymiuk, "Kinetics of Electrodeposition Reactions in Mixed Solvents - a Quantitative Description", *Electrochim. Acta*, 38 (1993) 721-727.

14. K. Maksymiuk, "Studies on the Mechanism of the Eu(III) + e⁻ = Eu(II) Electrode Reaction in Mixed Solvents, in the Presence of Strongly Adsorbing Species", *Polish J. Chem.*, 67 (1993) 151-159.
15. K. Maksymiuk, K. Doblhofer, "Studies on Reactions Proceeding at the Interface between Conducting Polymer and Redox Electrolyte", *Synth. Met.*, 55-57 (1993) 1382-1387.
16. K. Maksymiuk, K. Doblhofer, "Kinetics and Mechanism of Charge-Transfer Reactions between Conducting Polymers and Redox Ions in Electrolytes", *Electrochim. Acta*, 39 (1994) 217-227.
17. K. Maksymiuk, K. Doblhofer, "The Hydrogen Evolution Reaction on Electrodes Coated with Conducting Polymer Films", *J. Chem. Soc. Faraday Trans.*, 90(5) (1994) 745-750.
18. K. Maksymiuk, "Charge-Transfer Reactions on Electrodes Covered with Bilayers of Conducting Polymers", *J. Electroanal. Chem.*, 373 (1994) 97-106.
19. S. Romanowski, K. Maksymiuk, Z. Galus, "On the Orientation of Molecules of Aliphatic Alcohols Adsorbed on the Mercury Electrode Surface. Analysis of Steric Factors of Inhibited Electrode Reactions and Quantum-Chemical Calculations", *J. Electroanal. Chem.*, 385 (1995) 95-103.
20. Trinh Xuan H., J. Stroka, K. Maksymiuk, Z. Galus, "Kinetics and Stereochemistry of Electron Transfer Reactions of Nitrobenzene Derivatives on Mercury Electrodes in the Presence of Adsorbed Aliphatic Alcohols", *Russian J. Electrochem.*, 31 (1995) 900-906.
21. A. Michalska, K. Maksymiuk, A. Hulanicki, "On the Nature of Potentiometric Response of Polypyrrole in Acidic Solutions", *J. Electroanal. Chem.*, 392 (1995) 63-68.
22. Trinh Xuan H., K. Maksymiuk, J. Stroka, Z. Galus, "Studies of Electroreduction of Nitropentane and Nitrohexane on Mercury Electrodes in the Presence of Adsorbed Aliphatic Alcohols", *Electroanalysis*, 8 (1996) 34-39.
23. K. Maksymiuk, "Charge Transfer Reactions between Conducting Polymers and Redox Systems from Electrolyte Solutions. Relation between Electron Transfer Kinetics and Formal Potentials of Reacting Species", *Polish J. Chem.*, 70 (1996) 126-132.
24. K. Doblhofer, K. Maksymiuk, "The Non-Metallic Character of Conducting Polymers and the Mechanism of Electron Exchange with Redox Electrolytes", *Bulletin of Electrochemistry* 12 (3-4) (1996) 127-132.
25. K. Maksymiuk, "Estimation of Charge Trapping in Bilayers of Conducting Polymers Composed of Polypyrrole and Poly(N-Methylpyrrole)", *Electroanalysis*, 8 (1996) 661-666.
26. A. Wojda, K. Maksymiuk, "Electrochemical Properties of Bilayers of Conducting Polymers: Polypyrrole with Poly(Styrenesulphonate) Ions / Poly(N-Methylpyrrole). Studies of the Permeability of the Outer Layer towards Cations", *J. Electroanal. Chem.* 424 (1997) 93-99.

27. K. Maksymiuk, A.S. Nybäck, J. Bobacka, A. Ivaska, A. Lewenstam, "Metallic and Non-Metallic Redox Response of Conducting Polymers", *J. Electroanal. Chem.*, 430 (1997) 243-252.
28. A. Wojda, K. Maksymiuk, "Potentiometric Studies of Bilayers of Conducting Polymers", *J. Electroanal. Chem.*, 441 (1998) 205-214.
29. A. Michalska, K. Maksymiuk, "On the pH Influence on Electrochemical Properties of Poly(pyrrole) and Poly(N-Methylpyrrole)", *Electroanalysis*, 10 (1998) 177-180.
30. A. Wojda, K. Maksymiuk, "Effective Charge Trapping in Bilayers of Conducting Polymers Based on Polypyrrole and Poly(N-Methylpyrrole)", *Electroanalysis*, 10 (1998) 1269-1274.
31. A. Michalska, K. Maksymiuk, "The Specific Influence of Hydrogen Ions on Poly(pyrrole) Potentiometry", *Electrochim. Acta*, 44 (1999) 2125-2130.
32. K. Żabczyńska, K. Maksymiuk, "Electrochemical Studies of Trialyres of Conducting Polymers", *Polish J. Chem.*, 73 (1999) 1523-1534.
33. A. Konon, K. Maksymiuk, Z. Galus, "Studies on Charge Trapping in Polypyrrole and Poly(N-Methylpyrrole) Based Bilayers of Polymers with Opposite Ion Exchange Properties", *Electroanalysis* 12 (2000) 593-598.
34. K. Maksymiuk, J. Bobacka, A. Ivaska, A. Lewenstam, "Coupled Redox and pH Potentiometric Responses of Electrodes Coated with Polypyrrole", *Anal. Lett.* 33 (2000) 1339-1360.
35. J. Dumańska, K. Maksymiuk, "Studies on Spontaneous Charging / Discharging Processes of Polypyrrole in Aqueous Electrolyte Solutions", *Electroanalysis*, 13 (2001) 567-573.
36. A. Michalska, U. Nadrzycka, K. Maksymiuk, "The Modelled and Observed Transition from Redox to Ionic Potentiometric Sensitivity of Poly(pyrrole)", *Electrochim. Acta*, 46 (2001) 4113-4123.
37. A. Michalska, S. Walkiewicz, K. Maksymiuk, "Ion Sensing with Poly(pyrrole) Based Membranes – Comparison between Amperometric and Potentiometric Operation Mode", *Chemical and Biological Sensors and Analytical Methods II. Electrochemical Society Proceedings*, 18 (2001) 42-48.
38. A. Michalska, U. Nadrzycka, K. Maksymiuk, "The Sulfate(VI) Interferences on Poly(pyrrole) Electrochemistry", *Fresenius J. Anal. Chem.*, 371 (2001) 35-38.
39. M. Błasiak, J. Golimowski, K. Maksymiuk, "Electrochemical Properties of Cells with Conducting Polymers and Nafion® Membrane", *Polish J. Chem.*, 75 (2001) 1719-1728.
40. J. Dumańska, K. Maksymiuk, "Charge Trapping in Bilayers of Conducting Polymers under Open Circuit Conditions. A Protection of Conducting Polymer Films from Spontaneous Charging / Discharging", *Corros. Sci.*, 44 (2002) 1681-1693.
41. A. Michalska, S. Walkiewicz, K. Maksymiuk, E.A.H. Hall, "Potentiometric Responses of Poly(pyrrole) Films Surface Modified by Nafion", *Electroanalysis*, 14 (2002) 1236-1244.

42. B. Malinowska, K. Maksymiuk, "Polypyrrole Bilayers: Charge Trapping and Application for Amperometric Ions Sensing", *Electroanalysis*, 15 (2003) 263-269.
43. A. Michalska, S. Walkiewicz, K. Maksymiuk, "Amperometric Ion Sensing Using Polypyrrole Membranes", *Electroanalysis*, 15 (2003) 509-517.
44. A. Michalska, K. Maksymiuk, "Counter-Ion Influence on Polypyrrole Potentiometric pH Sensitivity", *Microchim. Acta*, 143 (2003) 163-175.
45. A. Michalska, J. Dumańska, K. Maksymiuk, "Lowering the Detection Limit of Ion-Selective Plastic Membrane Electrodes with Conducting Polymer Solid Contact and Conducting Polymer Potentiometric Sensors", *Anal. Chem.*, 75 (2003) 4964-4974.
46. A. Michalska, A. Gałuszkiewicz, M. Ogonowska, M. Ocypa, K. Maksymiuk, „PEDOT Films – Multifunctional Membranes for Electrochemical Ion Sensing”, *J. Solid State Electrochem.*, 8 (2004) 381-389.
47. A. Michalska, K. Maksymiuk, "Conducting Polymer Membranes for Low Acivity Potentiometric Ion Sensing", *Talanta*, 63 (2004) 109-117.
48. J. Dumańska, K. Maksymiuk, "Studies on Spontaneous Discharge of Oxidized Polypyrrole and Poly(N-methylpyrrole)", *Polish J. Chem.*, 78 (2004) 1477-1491.
49. A. Michalska, K. Maksymiuk, "All-Plastic, Disposable, Low Detection Limit Ion-Selective Electrodes", *Anal. Chim. Acta*, 523 (2004) 97-105.
50. A. Michalska, K. Maksymiuk, "The Influence of Spontaneous Charging / Discharging of Conducting Polymer Ion-to-Electron Transducer on Potentiometric Responses of All-Solid-State Calcium-Selective Electrodes", *J. Electroanal. Chem.*, 576 (2005) 339-352.
51. A. Michalska, M. Ocypa, K. Maksymiuk, „Highly Selective All-Plastic, Disposable Cu²⁺-Selective Electrodes”, *Electroanalysis*, 17 (2005) 327-333.
52. S. Walkiewicz, A. Michalska, K. Maksymiuk, "Sensitivity and Selectivity of Polypyrrole Based Ac-Amperometric Sensors for Electroinactive Ions – Frequency and Applied Potential Influence", *Electroanalysis*, 17 (2005) 1269-1278.
53. A. Kisiel, H. Marcisz, A. Michalska, K. Maksymiuk, "All-Solid-State Reference Electrodes Based on Conducting Polymers", *Analyst*, 130 (2005) 1655-1662.
54. M. Ocypa, A. Michalska, K. Maksymiuk, "Accumulation of Cu(II) Cations in Poly(3,4-ethylenedioxythiophene) Films Doped by Hexacyanoferrate Anions and Its Application in Cu²⁺-Selective Electrodes with PVC Based Membranes", *Electrochim. Acta*, 51 (2006) 2298-2305.
55. A. Michalska, M. Skompska, J. Mieczkowski, M. Zagórska, K. Maksymiuk, „Tailoring Solution Cast Poly(3,4-dioctyloxythiophene) Transducers for Potentiometric All-Solid-State Ion-Selective Electrodes”, *Electroanalysis*, 18 (2006) 763-771.
56. A. Michalska, M. Ocypa, K. Maksymiuk, „Effect of Interferents Present in the Internal Solution or in the Conducting Polymer Transducer on the Responses of Ion-Selective Electrodes” *Anal. Bioanal. Chem.*, 385 (2006) 203-207.
57. P. Pawłowski, A. Michalska, K. Maksymiuk, „Galvanostatic Polarisation of All-Solid-State K⁺-Selective Electrodes with Polypyrrole Ion-to-Electron Transducer”, *Electroanalysis*, 18 (2006) 1339-1346.

58. A. Michalska, M. Wojciechowski, B. Wagner, E. Bulska, K. Maksymiuk, "Laser Ablation Inductively Coupled Plasma Mass Spectrometry Assisted Insight into Ion-Selective Membranes", *Anal. Chem.*, 78 (2006) 5584-5589.
59. M. Ocypa, M. Ptasińska, A. Michalska, K. Maksymiuk, E.A.H. Hall, "Electroless Silver Deposition on Polypyrrole and Poly(3,4-ethylenedioxythiophene): The Reaction / Diffusion Balance" *J. Electroanal. Chem.*, 596 (2006) 157-168.
60. A. Michalska, U. Nadrzycka, K. Maksymiuk, "Interfering Influence of Redox Reactants on Potentiometric Responses of Electrodes with Conducting Polymer Films", *Chem. Anal. (Warsaw)*, 51 (2006) 923-938.
61. M. Łyczewska, M. Wojciechowski, E. Bulska, E.A.H. Hall, K. Maksymiuk, A. Michalska, „Chloride-Selective Electrodes with Poly(n-butyl acrylate) Based Membranes”, *Electroanalysis*, 19 (2007) 393-397.
62. A. Kisiel, A. Michalska, K. Maksymiuk, "Plastic Reference Electrodes and Plastic Potentiometric Cells with Dispersion Cast Poly(3,4-ethylenedioxythiophene) and Poly(vinyl chloride) Based Membranes", *Bioelectrochemistry*, 71 (2007) 75-80.
63. A. Rzewuska, M. Wojciechowski, E. Bulska, E.A.H. Hall, K. Maksymiuk, A. Michalska, "Composite Polyacrylate-Poly(3,4-ethylenedioxythiophene) Membranes for Improved All-Solid-State Ion-Selective Sensors", *Anal. Chem.*, 80 (2008) 321-327.
64. A. Kisiel, A. Michalska, K. Maksymiuk, E.A.H. Hall, "All-Solid-State Reference Electrodes with Poly(n-butyl acrylate) Based Membranes", *Electroanalysis*, 20 (2008) 318-323.
65. A. Michalska, M. Wojciechowski, E. Bulska, K. Maksymiuk, „Influence of Galvanostatic Polarisation on Evolution of Ion Concentration Profiles in Ion-Selective Membranes, Studied by Means of Laser Ablation Inductively Coupled Plasma Mass Spectrometry”, *Electrochim. Commun.*, 10 (2008) 61-65.
66. M. Ocypa, A. Michalska, K. Maksymiuk, "Electrochemical Properties of Poly(3,4-ethylenedioxythiophene) Films in the Presence of Surfactants", *Polish J. Chem.*, 82 (2008) 1463-1472.
67. A. Michalska, K. Pyrzyńska, K. Maksymiuk, "A Simple Method of Achieving Desired Potentiometric Responses of Polyacrylate Based Ion-Selective Membranes", *Anal. Chem.*, 80 (2008) 3921-3924.
68. A. Michalska, M. Wojciechowski, W. Jędral, E. Bulska, K. Maksymiuk, "Silver and Lead All-Plastic Sensors – Polyaniline vs. Poly(3,4-ethylenedioxythiophene) Solid Contact", *J. Solid State Electrochem.*, 13 (2009) 99-106.
69. P. Pawłowski, A. Michalska, M. Wojciechowski, J. Golimowski, E. Bulska, K. Maksymiuk, "Elements Profiles in Galvanostatically Polarized K⁺-Selective All-Solid-State Sensors with Poly(vinyl chloride) Based Membranes", *J. Solid State Electrochem.*, 13 (2009) 107-113.
70. A. Michalska, M. Wojciechowski, E. Bulska, K. Maksymiuk, "Quantifying Primary Silver Ions Contents in Poly(vinyl chloride) and Poly(n-butyl Acrylate) Ion-Selective Membranes", *Electroanalysis*, 21 (2009) 1931-1938.

71. A. Michalska, M. Wojciechowski, E. Bulska, J. Mieczkowski, K. Maksymiuk, „Poly(n-butyl acrylate) Based Lead(II) Selective Electrodes”, *Talanta*, 79 (2009) 1247-1251.
72. P. Pawłowski, K. Maksymiuk, E. Tamanini, M. Watkinson, A. Michalska, E.A.H. Hall, “Inducing Sensitivity to Heavy Metal Ions in Polypyrrole Modified by Aza Macrocyclic Ligands”, *Electroanalysis*, 21 (2009) 2044-2053.
73. P. Malinowski, A. Michalska, K. Maksymiuk, “Polyaniline Based Dual System for Potentiometric or UV-Vis Spectrophotometric Alkaline Phosphatase Detection”, *Chem. Anal. (Warsaw)*, 54 (2009) 415-425.
74. M. Łyczewska, M. Kakietek, K. Maksymiuk, J. Mieczkowski, A. Michalska, „Comparison of Trihexadecylalkylammonium Iodides as Ion-Exchangers for Polyacrylate and Poly(vinyl chloride) Based Iodide Selective Electrodes”, *Sens. Actuators B*, 146 (2010) 283-288.
75. A. Michalska, M. Wojciechowski, E. Bulska, K. Maksymiuk “Experimental Study on Stability of Different Solid Contact Arrangements of Ion-Selective Electrodes”, *Talanta*, 82 (2010) 151-157.
76. P. Malinowski, I. Grzegrzółka, A. Michalska, K. Maksymiuk, „Dual Potentiometric and UV/Vis Spectrophotometric Disposable Sensors with Dispersion Cast Polyaniline”, *J. Solid State Electrochem.*, 14 (2010) 2027-2037.
77. A. Kisiel, M. Donten, J. Mieczkowski, F.X. Rius-Ruiz, K. Maksymiuk, A. Michalska, “Polyacrylate Microspheres Composite for All-Solid-State Reference Electrodes”, *Analyst*, 135 (2010) 2420-2425.
78. E. Jaworska, A. Kisiel, K. Maksymiuk, A. Michalska, ”Lowering the Resistivity of Polyacrylate Ion-Selective Membranes by Platinum Nanoparticles Addition”, *Anal. Chem.*, 83 (2011) 438-445.
79. F.X. Rius-Ruiz, A. Kisiel, A. Michalska, K. Maksymiuk, J. Riu, F.X. Rius, “Solid-State Reference Electrodes Based on Carbon Nanotubes and Polyacrylate Membranes”, *Anal. Bioanal. Chem.*, 399 (2011) 3613-3622.
80. P. Pawłowski, A. Kisiel, A. Michalska, K. Maksymiuk, “Potentiometric Responses of Ion-Selective Electrodes after Galvanostatically Controlled Incorporation of Primary Ions”, *Talanta*, 84 (2011) 814-819.
81. K. Maksymiuk, M. Puszcz, K. Szewczyk, A. Michalska, “Optimizing Incorporation of Nickel(II) Cyclam Complex in Poly(3,4-ethylenedioxythiophene) Films for Catalytic Purposes”, *J. Solid State Electrochem.*, 15 (2011) 2369-2376.
82. K. Kijewska, G.J. Blanchard, J. Szlachetko, J. Stolarski, A. Kisiel, A. Michalska, K. Maksymiuk, M. Pisarek, P. Majewski, P. Krysiński, M. Mazur, “Photopolymerized Polypyrrole Microvessels”, *Chem. Eur. J.*, 18 (2012) 310-320.
83. A. Kisiel, K. Kijewska, M. Mazur, K. Maksymiuk, A. Michalska, “Polypyrrole Microcapsules in All-Solid-State Reference Electrodes”, *Electroanalysis*, 24 (2012) 165-172.
84. L. Skórská, A. Michalska, M. Wojciechowski, E. Bulska, K. Maksymiuk “Estimation of Primary Silver Ions Contents in Poly(vinyl chloride) Ion-Selective Membranes Using Chronopotentiometry and Mass Spectrometry”, *Electrochim. Acta*, 73 (2012) 86-92.

85. E. Jaworska, W. Lewandowski, J. Mieczkowski, K. Maksymiuk, A. Michalska, „Non-Covalently Functionalized Graphene for Potentiometric Sensing of Zinc Ions”, *Analyst*, 137 (2012) 1895-1898.
86. E. Woźnica, M.M. Wójcik, M. Wojciechowski, J. Mieczkowski, E. Bulska, K. Maksymiuk, A. Michalska, “Dithizone Modified Gold Nanoparticles Films for Potentiometric Sensing”, *Anal. Chem.*, 84 (2012) 4437-4442.
87. E. Jaworska, W. Lewandowski, J. Mieczkowski, K. Maksymiuk, A. Michalska, „Critical Assessment of Graphene as Ion-to-Electron Transducer for All-Solid-State Potentiometric Sensors”, *Talanta*, 97 (2012) 414-419.
88. E. Woźnica, M.M. Wójcik, J. Mieczkowski, K. Maksymiuk, A. Michalska, “Dithizone Modified Gold Nanoparticles Films as Solid Contact for Cu²⁺ Ion-Selective Electrodes”, *Electroanalysis*, 25 (2013) 141-146.
89. E. Jaworska, W. Lewandowski, J. Mieczkowski, K. Maksymiuk, A. Michalska, “Simple, Disposable Potentiometric Sensors Based on Graphene or Multi-Walled Carbon Nanotubes – Carbon-Plastic Potentiometric Sensors”, *Analyst*, 138 (2013) 2363-2371.
90. E. Woźnica, K. Maksymiuk, A. Michalska, "Polyacrylate Microspheres for Tunable Fluorimetric Zinc Ions Sensor", *Anal. Chem.*, 86 (2014) 411-418.
91. K. Melzer, A.M. Münzer, E. Jaworska, K. Maksymiuk, A. Michalska, G. Scarpa, “Polymeric Ion-Selective Membrane Functionalized Gate-Electrodes: Ion-Selective Response of Electrolyte-Gated Poly (3-hexylthiophene) Field-Effect Transistors”, *Organic Electronics*, 15 (2014) 595-601.
92. A. Kisiel, K. Kłucińska, Z. Głębicka, M. Gniadek, K. Maksymiuk, A. Michalska, “Alternating Polymer Micelle Nanospheres for Optical Sensing”, *Analyst*, 139 (2014) 2515-2524.
93. P. Gryczan, A. Michalska, K. Maksymiuk, “A Simple Currentless Method of Determination of Ion Fluxes to and within Electroactive Ion-Exchange Membranes”, *J. Solid State Electrochem.*, 18 (2014) 2131-2138.
94. K. Melzer, A.M. Münzer, E. Jaworska, K. Maksymiuk, A. Michalska, G. Scarpa, “Selective Ion-Sensing with Membrane-Functionalized Electrolyte-Gated Carbon-Nanotube Field-Effect Transistors”, *Analyst*, 139 (2014) 4947-4954.
95. E. Jaworska, G. Scarpa, M. Schmidt, K. Maksymiuk, A. Michalska, "Spray Coated All-Solid-State Potentiometric Sensors", *Analyst*, 139 (2014) 6010-5.
96. K. Kłucińska, R. Jurczakowski, K. Maksymiuk, A. Michalska, "Ultrasensitive 4-Methylumbelliflione Fluorimetric Determination of Water Contents in Aprotic Solvents", *Talanta*, 132 (2015) 392-397.
97. K. Melzer, V.D. Bhatt, T. Schuster, E. Jaworska, K. Maksymiuk, A. Michalska, P. Lugli, G. Scarpa, “Flexible Electrolyte-Gated Ion-Selective Sensors based on Carbon Nanotube Networks”, *IEEE Sensors Journal*, 15 (2015) 3127-3134.
98. A. Kisiel, E. Woźnica, M. Wojciechowski, E. Bulska, K. Maksymiuk, A. Michalska, “Potentiometric Layered Membranes”, *Sens. Actuators B*, 207 (2015) 995-1003.
99. E. Woźnica, M.M. Wójcik, M. Wojciechowski, J. Mieczkowski, E. Bulska, K. Maksymiuk, A. Michalska, “Improving the Upper Detection Limit of Potentiometric Sensors”, *Electroanalysis*, 27 (2015) 720-726.

100. P. Gryczan, A. Kisiel, A. Michalska, K. Maksymiuk, „Electrochemical Properties of Polypyrrole Doped by Alternating Polymer Micelles”, *Electroanalysis*, 27 (2015) 752-759.
101. A. Kisiel, K. Kłucińska, M. Gniadek, K. Maksymiuk, A. Michalska, “Optimizing Calcium Selective Fluorimetric Nanospheres”, *Talanta*, 144 (2015) 398-403.
102. K. Kłucińska, E. Jaworska, P. Gryczan, K. Maksymiuk, A. Michalska, “Synthesis of Conducting Polymers Nanospheres of High Electrochemical Activity”, *Chem. Comm.*, 63 (2015) 12645-12648.
103. E. Jaworska, K. Maksymiuk, A. Michalska, „Carbon Nanotubes Based Potentiometric Bio-Sensors for Determination of Urea”, *Chemosensors*, 3 (2015) 200-210.
104. Ż. Pławińska, A. Michalska, K. Maksymiuk, „Optimization of Capacitance of Conducting Polymer Solid Contact in Ion-Selective Electrodes”, *Electrochim. Acta*, 187 (2016) 397-405.
105. E. Jaworska, K. Maksymiuk, A. Michalska, „Optimizing Carbon Nanotubes Dispersing Agents from the Point of View of Ion-Selective Membrane Based Sensors Performance - Introducing Carboxymethylcellulose as Dispersing Agent for Carbon Nanotubes Based Solid Contacts”, *Electroanalysis*, 28 (2016) 947-953.
106. A. Kisiel, A. Michalska, K. Maksymiuk, “Bilayer Membranes for Ion-Selective Electrodes”, *J.Electroanal.Chem.*, 766 (2016) 128-134.
107. K. Melzer, V.D. Bhatt, E. Jaworska, R. Mittermeier, K. Maksymiuk, A. Michalska, P. Lugli, “Enzyme Assays Using Sensor Arrays Based on Ion-Selective Carbon Nanotube Field-Effect Transistors”, *Biosens. Bioelectron.*, 84 (2016) 7-14.
108. K. Kłucińska, E. Stelmach, A. Kisiel, K. Maksymiuk, A. Michalska, “Nanoparticles of Fluorescent Conjugated Polymers - Novel Ion-Selective Optodes”, *Anal. Chem.*, 88 (2016) 5644-5648.
109. E. Stelmach, K. Maksymiuk, A. Michalska, “Copolymeric Hexyl Acrylate – Methacrylic Acid Microspheres – Surface vs. Bulk Reactive Carboxyl Groups. Coulometric and Colorimetric Determination and Analytical Applications for Heterogeneous Microtitration”, *Talanta*, 159 (2016) 248-254.
110. A. Kisiel, E. Woźnica, K. Maksymiuk, A. Michalska, “Poly(3-Octylthiophene) Nanoparticles for Turn-on Fluorescent Sensor”, *Sens. Actuators B*, 238 (2017) 160-165.
111. E. Jaworska, A. Michalska, K. Maksymiuk, „Polypyrrole Nanospheres – Electrochemical Properties and Application as a Solid Contact in Ion-Selective Electrodes”, *Electroanalysis*, 29 (2017) 123-130.
112. E. Stelmach, K. Maksymiuk, A. Michalska, ”Analytical Advantages of Copolymeric Microspheres for Fluorimetric Sensing - Tuneable Sensitivity Sensors and Titration Agents”, *Talanta*, 163 (2017) 17-23.
113. E. Woźnica, J. Gasik, K. Kłucińska, A. Kisiel, K. Maksymiuk, A. Michalska, “Core-Shell Nanoparticles Optical Sensors – Rational Design of Zinc Ions Fluorescent nanoprobes of Improved Analytical Performance”, *Optical Materials*, 72 (2017) 214-219.
114. E. Jaworska, M.L. Naitana, E. Stelmach, G. Pomarico, M. Wojciechowski, E. Bulska, K. Maksymiuk, R. Paolesse, A. Michalska, “Introducing Cobalt(II) Porphyrin / Cobalt(III) Corrole Containing Transducers for Improved Potential Reproducibility and Performance of All-Solid-State Ion-Selective Electrodes”, *Anal.Chem.*, 89 (2017) 7107-7114.

115. K. Kłucińska, E. Jaworska, K. Maksymiuk, A. Michalska, "Fluorescent Polypyrrole Nanospheres – Synthesis and Properties of "Wireless" Redox Probes", *Electroanalysis*, 29 (2017) 2167-2176.
116. E. Jaworska, M. Gniadek, K. Maksymiuk, A. Michalska, "Polypyrrole Nanoparticles Based Disposable Potentiometric Sensors", *Electroanalysis*, 29 (2017) 2766-2772.
117. K. Kłucińska, P. Rzepiński, M. Mazur, M.K. Cyrański, K. Maksymiuk, A. Michalska, „Improving Fluorometric Determination of Water Content in Aprotic Media”, *Food Anal. Methods*, 11 (2018) 486-494.
118. E. Jaworska, A. Kisiel, A. Michalska, K. Maksymiuk, „Electrochemical Properties of Polypyrrole Nanoparticles – the Role of Doping Ions and Synthesis Medium”, *Electroanalysis*, 30 (2018) 716-726.
119. E. Jaworska, M. Mazur, K. Maksymiuk, A. Michalska, "The Fate of Poly(3-octylthiophene) Transducer in Solid Contact Ion-Selective Electrodes", *Anal. Chem.*, 90 (2018) 2625-2630.
120. S. Joshi, V.D. Bhatt, E. Jaworska, M. Becherer, K. Maksymiuk, A. Michalska, P. Lugli, "Using Lipophilic Membrane for Enhanced-Performance Aqueous Gated Carbon Nanotube Field Effect Transistors", *Physica Status Solidi A*, 215 (2018) 1700993.
121. K. Kłucińska, E. Stelmach, P. Bartosińska, A. Kisiel, K. Maksymiuk, A. Michalska, "Critical Assessment of Polymeric Nanostructures Used as Colorimetric Ions Probes", *Materials Science & Engineering C*, 92 (2018) 69-76.
122. A. Kisiel, K. Maksymiuk, A. Michalska, "Capsules as Ion-Selective Optodes - Maximizing Sensitivity of Ion-Selective Optodes", *Sens. Actuators B*, 273 (2018) 1730-1734.
123. E. Jaworska, A. Michalska, K. Maksymiuk, " Fluorimetric Readout of Ion-Selective Electrode Potential Changes", *Electrochim. Acta*, 284 (2018) 321-327.
124. S. Joshi, V.D. Bhatt, E. Jaworska, A. Michalska, K. Maksymiuk, M. Becherer, A. Gagliardi, P. Lugli, "Ambient Processed, Water-Stable, Aqueous-Gated sub 1V n-type Carbon Nanotube Field Effect Transistor", *Sci. Rep. (Nature Publishing Group)*, 8 (2018) 11386.
125. E. Jaworska, G. Pomarico, B. Berionni Berna, K. Maksymiuk, R. Paolesse, A. Michalska, "All-Solid State Paper Based Potentiometric Potassium Sensors Containing Cobalt(II) Porphyrin/Cobalt(III) Corrole in the Transducer Layer", *Sens. Actuators B*, 277 (2018) 306-311.
126. A. Kisiel, A. Michalska, K. Maksymiuk, „Rectifying Effect for Ion-Selective Electrodes with Conducting Polymer Solid Contact”, *Synth. Met.*, 246 (2018) 246-253.

Reviews, chapters in monographs

1. J. Stroka, K. Maksymiuk, Z. Galus, „Electrochemistry of Zinc”, chapter 24.1 in *Encyclopedia of Electrochemistry*, vol.7. “Inorganic Electrochemistry”, F. Scholz, C.J. Pickett eds., Wiley VCh, 2006, pp.725-766.
2. J. Stroka, K. Maksymiuk, Z. Galus, „Electrochemistry of Cadmium”, chapter 24.2 in *Encyclopedia of Electrochemistry*, vol.7. “Inorganic Electrochemistry”, F. Scholz, C.J. Pickett eds., Wiley VCh, 2006, pp. 767-803.

3. J. Stroka, K. Maksymiuk, Z. Galus, „Electrochemistry of Lead”, chapter 24.3 in *Encyclopedia of Electrochemistry*, vol.7. “Inorganic Electrochemistry”, F. Scholz, C.J. Pickett eds., Wiley VCh, 2006, pp. 804-838.
4. K. Maksymiuk, “Chemical Reactivity of Polypyrrole and Its Relevance to Polypyrrole Based Electrochemical Sensors”, *Electroanalysis*, 18 (2006) 1537-1551.
5. A. Michalska, K. Maksymiuk, “Modelling of Relations between Ionic Fluxes and Membrane Potential in Artificial Membranes”, chapter in *Electrochemical Processes in Biological Systems*, L. Gorton, A. Lewenstam, eds., Wiley 2015, pp.1-21.
6. K. Maksymiuk, J. Stroka, Z. Galus, “Chemistry, Electrochemistry and Electrochemical Applications: Lead”, chapter in *Encyclopedia of Electrochemical Power Sources*, J. Garche ed., Elsevier, 2009, pp. 762-771.
7. K. Maksymiuk, A. Michalska, A. Kisiel, Z. Galus, “Silver Electrodes”, chapter 5.2 in *Handbook of Reference Electrodes*, G. Inzelt, A. Lewenstam, F. Scholz eds., Springer, 2013, pp. 86-105.
8. K. Maksymiuk, A. Michalska, A. Kisiel, Z. Galus, “Mercury Electrodes”, chapter 5.3 in *Handbook of Reference Electrodes*, G. Inzelt, A. Lewenstam, F. Scholz eds., Springer, 2013, pp. 105-119.
9. K. Maksymiuk, A. Michalska, A. Kisiel, Z. Galus, “Thallium Electrodes”, chapter 5.4 in *Handbook of Reference Electrodes*, G. Inzelt, A. Lewenstam, F. Scholz eds., Springer, 2013, pp. 119-121.
10. K. Maksymiuk, A. Michalska, A. Kisiel, Z. Galus, “Oxide Systems”, chapter 5.6 in *Handbook of Reference Electrodes*, G. Inzelt, A. Lewenstam, F. Scholz eds., Springer, 2013, pp. 127-137.
11. A. Michalska, A. Kisiel, K. Maksymiuk, “Screen-Printed, Disposable, Reference Electrodes”, chapter 13 in *Handbook of Reference Electrodes*, G. Inzelt, A. Lewenstam, F. Scholz eds., Springer, 2013, pp. 325-330.
12. K. Maksymiuk, A. Michalska, “Electroanalytical Applications of Conducting Polymer Membranes”, chapter in *Encyclopedia of Membrane Science and Technology*, M.V. Hoek, V.V. Tarabara eds., Wiley, 2013.
13. K. Maksymiuk, A. Michalska, “Ion-Selective Electrodes – Classical Systems and New Ideas”, *Chemik*, 69 (2015) 378-382.
14. A. Michalska, K. Maksymiuk, “Jonoselektywne sensory potencjometryczne i optyczne – podobne materiały konstrukcyjne, różne możliwości analityczne”, *Wiad. Chem.*, 69 (2015) 687-699.
15. K. Maksymiuk, A. Michalska, „Wykorzystanie elektrochemicznych technik prądowych do rozszerzenia możliwości analitycznych elektrod jonoselektywnych”, rozdział w „*Nowe strategie w analizie elektrochemicznej*” pod red. B. Basia, M. Jakubowskiej, W.W. Kubiaka, Wydawnictwo Naukowe Akapit, Kraków 2017, str.71-83.
16. A. Michalska, K. Maksymiuk „Wykorzystanie materiałów nanostrukturalnych w elektrodach jonoselektywnych”, rozdział w „*Współczesne metody i sensory*

elektrochemiczne" pod red. B. Basia, M. Jakubowskiej, W.W. Kubiaka,
Wydawnictwo Naukowe Akapit, Kraków 2018, str. 47-55.