

S.L. dr. ing. CĂPRĂRESCU SIMONA

LUCRĂRI LA CONFERINȚE și SIMPOZIONE

Selectie de lucrari publicate in volumele unor Conferinte si Simpozioane Internationale

1. **S. Caprărescu**, D. I. Vaireanu, The Manufacture and Characterisation of a Reference Electrode with Reduced Temperature Sensitivity, Proceedings of the 36-th International Scientific Symposium of METRA, May 26 - 27, 2005, Bucharest, Military Technical Publishing Center, vol. II, Weapons Systems, NBC Defense and Environment Protection, Section NBC Defense Equipment and Ecology, p.653 - 656, ISBN:973-0-03923-2
2. **S. Caprărescu**, D. I. Vaireanu, A. Cojocaru, 3D-Microstructures manufactured by sequential controlled cathodic currents, Proceedings of the 36-th International Scientific Symposium of METRA, May 26 - 27, 2005, Bucharest, Military Technical Publishing Center, vol. II, Weapons Systems, NBC Defense and Environment Protection, Section NBC Defense Equipment and Ecology, p.649 - 652, ISBN:973-0-03923-2
3. **S. Caprărescu**, G. E. Badea, A. Cojocaru, D. I. Vaireanu, Electronics Workbench for Electrochemical Measurement Simulation, Proceedings of the 36-th International Scientific Symposium of METRA, May 26 - 27, 2005, Bucharest, Military Technical Publishing Center, vol. I, Radioelectronics, Lasers and Optoelectronic systems, C4 ISR Systems, Section Modelling and Simulation, p.284 - 287, ISBN: 973-0-03923-2
4. **S. Căprărescu**, A. Cojocaru, D.-I. Văireanu, The Evaluation of Rechargeable Battery Lifespan Based on Thevenin's Internal Resistance Measurements, Proceeding of the 14th RICCCE, september 2005, Bucharest, Ed. Printech, Physical Chemistry, Analytical Chemistry and Quality Control, Electrochemistry and Corrosion, vol. 2, pag. S.10.129-S.10-134, ISBN 973-718-286-3.
5. **S. Căprărescu**, D.-I. Văireanu, A. Cojocaru, I. Maior, Electrochemical destruction of highly toxic hazardous contaminants, in Proceedings of the 36-th International Scientific symposium of METRA, May 2006, Bucharest, Ed. Ministry of National Defence, Military, vol. 2, NBC Defence and Environment Protection, Section: NBCE Defence. Collective Protection, s3d3l3, pp.108-111, ISBN-13978-973-0-04429-4
6. I. Maior, A. Cojocaru, D.-I. Văireanu, **S. Căprărescu**, The anticorrosive protection of the Zn/ZnCl₂ system in presence of several organic inhibitors, , in Proceedings of the 36-th International Scientific symposium of METRA, May 2006, Bucharest, Ed. Ministry of National Defence, Military, vol. 2, NBC Defence and Environment Protection, Section: NBCE Defence. Collective Protection, s3d3l11, pp.127-132, ISBN-13 978-973-0-04429-4
7. A. Cojocaru, D.-I. Vaireanu, **S. Caprărescu**, I. Maior, G. E. Badea, Electrochemical and electrochemical impedance spectroscopy studies on SnO₂ electrodes in chloride solutions, in Proceedings of the 36-th International Scientific symposium of METRA, May 2006, Bucharest, Ed. Ministry of National Defence, Military, vol. 2, NBC Defence and Environment Protection, Section: NBCE Defence. Collective Protection, s3dl2, pp. 121-126, ISBN-13 978-973-0-04429-4
8. D.-I. Văireanu, **S. Căprărescu**, A. Cojocaru, I. Maior, Consideration regarding the modelling of high energy consuming electrochemical reactors, in Proceedings of the 36-th International Scientific symposium of METRA, May 2006, Bucharest, Ed. Ministry of

- National Defence, Military, vol. 1, Radioelectronics, lasers and optoelectronic systems, Section: Modelling and Simulation, s1d3l8, pp. 114-119, ISBN-10 973-0-04429-5
- 9. **S. Caprărescu**, D. I. Vaireanu, A. Cojocaru, I. Maior, Recuperarea ionilor de cupru folosind un reactor electrochimic multistrat, Simpozionul International "Prioritatile Chimiei pentru o dezvoltare durabila", Editia a III-a, ICECHIM, Bucuresti, Romania, 29-30 octombrie 2007, sectiunea 2: Protectia si ingineria mediului, p.19
 - 10. D.-I. Văireanu, I. Maior, A. Cojocaru, **S. Căprărescu**, The Effect of Sampling Frequency and Shielding on the Measurement of Ionic Conductivity by EIS in Conductive Polymers used for PEM Electrolyzers and Fuel Cells, Proceedings of The second European Conference eHYDROGENIA, Bucharest, Romanian Academy, September 22-23, 2008, pp.93-98, Ed. IPA, ISBN-10:973-1704-12-4, ISBN-13:978-973-1704-12-8
 - 11. D.-I. Văireanu, V. Pârvulescu, A. Cojocaru, I. Maior, S. Somăcescu, **S. Căprărescu**, A Parallel Opposed Dual Electrode Cell for Temperature Testing of SOFC materials, Proceedings of The second European Conference eHYDROGENIA, Bucharest, Romanian Academy, September 22-23, 2008, pp.99-106, Ed. IPA, ISBN-10:973-1704-12-4, ISBN-13:978-973-1704-12-8
 - 12. A. Cojocaru, D.-I. Văireanu, I. Maior, **S. Căprărescu**, Electrochemical Impedance Study for Polymer Electrolyte Membranes Characterization, Proceedings of The second European Conference eHYDROGENIA, Bucharest, Romanian Academy, September 22-23, 2008, pp.130-137, Ed. IPA, ISBN-10:973-1704-12-4, ISBN-13:978-973-1704-12-8
 - 13. D.-I. Văireanu, I. Maior, A. Cojocaru, **S. Căprărescu**, A New Technique for Evaluation of Thickness and Thickness Distribution for Polymer Conductive Membranes used in PEMFC, Proceedings of The second European Conference eHYDROGENIA, Bucharest, Romanian Academy, September 22-23, 2008, pp.143-150, Ed. IPA, ISBN-10:973-1704-12-4, ISBN-13:978-973-1704-12-8
 - 14. D.-I. Vaireanu, A. Cojocaru, I. Maior, **S. Caprărescu**, Calibration System for Furnace/Boilers Corrosion Monitoring Probes, Proceedings of The 7th International Conference URB-CORR 2008, Study and Control of Corrosion in the Perspective of Sustainable Development of Urban Distribution Grids, Baile Felix, 25-27 June 2008, pp. 150-154, Ed. Printech, Bucharest, ISBN 978-606-521-032-5
 - 15. D. I. Vaireanu, A. Cojocaru, I. Maior, **S. Caprărescu**, G. Popescu, Reconditioning Procedure for revitalisation of sulphated Lead Acid Rechargeable Batteries, Proceedings of COFRET'08, 11-13 june 2008, Nantes-France, Actes Cofret '08, Domanines Scientifiques: Stockage d'Energie, pp.S.11.1-S.11.6, ISBN:26905-267-61
 - 16. D.-I. Vaireanu, A. Cojocaru, I. Maior, **S. Caprărescu**, Alexandra Maria Ionescu, Valentin Radu, A Six-Electrode Configuration Electrochemical Cell Employed for the Evaluation of Ionic Conductivity of Polymer Membranes Used In Fuel Cells and Electrolyzers Proc. of the 16th Romanian International Conference on Chemistry and Chemical Engineering, Sinaia, 9-12 September 2009, Ed. Printech, pp. S.III.16-S.III.21, ISBN 978-606-521-349-4
 - 17. A. Cojocaru, I. Maior, I. Lingvay, C. Lingvay, D.-I. Vaireanu, **S. Caprărescu**, Inhibition of Copper Corrosion by Environmentally Friendly Plant Extracts, Proc. of the 16th Romanian International Conference on Chemistry and Chemical Engineering, Sinaia, 9-12 September 2009, Ed.Printech, pp. S.III.30-S.III.37, ISBN 978-606-521-349-4
 - 18. I. Maior, A. Cojocaru, D. I. Văireanu, **S. Căprărescu**, Electrochemical Investigations on Green Inhibitors With Antiscalent Properties, Proc. of the 16th Romanian International Conference on Chemistry and Chemical, Engineering, Sinaia, 9-12 September 2009, Ed.Printech, pp. pp. S.III.93-S.III.100, ISBN 978-606-521-349-4
 - 19. D.-I. Vaireanu, A. Cojocaru, I. Maior, **S. Caprărescu**, A Novel Method for the Evaluation of a PEM Fuel Cell Internal Resistance, Proc. of the 3rd EUROPEAN CONFERENCE H2-

- FUEL-MILLENIUMCONVERGENCE 2009, Bucharest, September 21 - 22, 2009, pp. 220-224, IPA Publishing House, ISBN-10: 973-1704-15-9, ISBN-13: 978-973-1704-15-9
20. D.I. Văireanu, I. Maior, A. Cojocaru, I. Lingvay, C. Lingvay, **S. Căprărescu**, The Antiscalent Effect of Some Plant Extracts with Inhibitor Properties, on CD, The 28th Annual Conference Corrosion Problems in Industry CORROSION CHALLENGES IN INDUSTRY, 14-17 December 2009, Ras - Sudr, EGYPT, Session V, paper 11
21. D.I. Văireanu, A. Cojocaru, I. Maior, I. Lingvay, C. Lingvay, **S. Căprărescu**, Considerations Regarding the Use of Environmentally Friendly Plant Extracts for Copper Corrosion Inhibition, on CD, The 28th Annual Conference Corrosion Problems in Industry CORROSION CHALLENGES IN INDUSTRY, 14-17 December 2009, Ras - Sudr, EGYPT, Session V, paper 12
22. I. Maior, D.-I. Văireanu, A. Cojocaru, A. Melinescu, **S. Caprarescu**, Determination of Equivalent Circuits Using EIS Data of Oxidic Materials Used in Solid Oxide Fuel Cells, Proc. of the 3rd EUROPEAN CONFERENCE H₂-FUEL-MILLENIUM- CONVERGENCE 2009, Bucharest, September 21 - 22, 2009, pp. 237-246, IPA Publishing House, ISBN-10: 973-1704-15-9, ISBN-13: 978-973-1704-15-9
23. D.-I. Văireanu, A. Cojocaru, I. Maior, **S. Caprarescu**, V. Radu New Challenges in Evaluating Polymer Conductive Membranes for Fuel Cell Applications, in Trends in Membranology, Editors S.I. Voicu and Gh. Nechifor, pp.95-99, Ed. Printech, Bucharest, 2010, ISBN 976-606-521-525-2
24. I. Maior, A. Cojocaru, D.I. Văireanu, I. Lingvay, C. Lingvay, **S. Căprărescu**, Characterization of Corrosion and Scale Processes in Cooling Systems, Conferința de Inginerie Energetică C.I.E 2010 „Energie Curată și Accesibilă”, Oradea, Băile Felix, 27–29 Mai 2010, ROMANIA, Secțiunea 2 – Resurse Regenerabile De Energie. Tehnologii Energetice Sustenabile;
25. A. Cojocaru, I. Maior, D.I. Văireanu, C. Lingvay, I. Lingvay, **S. Căprărescu**, G.E. Badea, Ethanol Extract of Fagus Sylvatica Leaves as an Eco-Friendly Inhibitor For Carbon Steel Corrosion in Acidic Solutions, Conferința de Inginerie Energetică C.I.E 2010 „Energie Curată și Accesibilă”, Oradea Băile Felix, 27–29 Mai 2010, ROMANIA, Secțiunea 2 – Resurse Regenerabile De Energie. Tehnologii Energetice Sustenabile;
26. A. Cojocaru, I. Maior, I. Lingvay, C. Lingvay, **S. Căprărescu**, D.I. Văireanu, Considerations Regarding The Efficiency of Environmentally Friendly Novel Type Inhibitors, The Vth Conference of Corrosion and Anticorrosion Protection, 16 – 18 September 2010, Cluj-Napoca, ROMANIA;
27. I. Maior, A. Cojocaru, D.I. Văireanu, I. Lingvay, C. Lingvay, **S. Căprărescu**, Agrimonia Eupatoria Extract as a Green Corrosion Inhibitor For Carbon Steel In Acid Solutions, The Vth Conference of Corrosion and Anticorrosion Protection, 16 – 18 September 2010, Cluj-Napoca, ROMANIA
28. I. Lingvay, I. Maior, A. Cojocaru, D.I. Văireanu, C. Lingvay, **S. Căprărescu**, Electrochemical Study of Several Green Inhibitors Against Calcium Carbonate Deposition on Steel, in Proceedings of The 29th Annual Conference „International Conference on Corrosion Mitigation and Surface Protection Technologies”, EGYCORR 2010, 14–16 December 2010, Alexandria, Egypt
29. D.-I. Văireanu, A. Cojocaru, I. Lingvay, I. Maior, C. Lingvay, **S. Caprarescu**, Electrochemical Studies Regarding the use of Environmentally Friendly Plant Extracts for Steel Corrosion Inhibition, The 29th Annual Conference „International Conference on Corrosion Mitigation and Surface Protection Technologies”, EGYCORR 2010, 14-16 December 2010, Alexandria, Egypt, CD– paper 36
30. D. I. Văireanu, A. Cojocaru, I. Maior, **S. Caprarescu**, D. Savoiu, M. Deaconescu, Considerations Regarding the Effect of the Compression Factor of the HHO Mixture on the Electromotive Force under the Equilibrium Conditions, Proceedings of the 4 - th

- EUROPEAN CONFERENCE H2-FUEL-MILLENIUM-CONVERGENCE 2010, Bucharest, September 20-21, 2010, IPA Publishing House, Bucharest, ISBN-10: 973-1704-17-5, ISBN-13: 978-973-1704-17-3, pp. 119-126
31. D. I. Vaireanu, A. Cojocaru, I. Maior, **S. Caprărescu**, D. Savoiu, M. Deaconescu, The Effect of the Compression Factor of the HHO Mixture on Various Electrolysis Parameter under the Non-Equilibrium Operating Conditions, Proceedings of the 4 - th EUROPEAN CONFERENCE H2-FUEL-MILLENIUMCONVERGENCE 2010, Bucharest, September 20-21, 2010, IPA Publishing House, Bucharest, ISBN-10: 973-1704-17-5, ISBN-13: 978-973-1704-17-3, pp. 127-134
32. A. Cojocaru, I. Maior, D.-I. Vaireanu, I. Lingvay, C. Lingvay, **S. Caprărescu**, G. Badea, A Comparative Study On The Corrosion Inhibition Properties Of Fagus Sylvatica As Influenced By Extraction Solvent, Proceedings Of The 17th International Conference On Chemistry And Chemical Engineering, Sinaia, Romania, September 7-10, 2011, Ed. Politehnica Press, pp. S.3.35-S.3.44, ISSN: 2247-5389
33. I. Maior, A. Cojocaru, I. Lingvay, C. Lingvay, D.-I. Văireanu, G. E. Badea, **S. Căprărescu**, Electrodeposition Of Mineral Scales: Influence Of Natural Extracts Composition On Antiscalent Properties, Proceedings of the 17th International Conference On Chemistry And Chemical Engineering, Sinaia, Romania, September 7-10, 2011, Ed. Politehnica Press, Pp. S.3.7-S.3.18, ISSN: 2247-5389
34. D.-I. Vaireanu, A. Cojocaru, I. Maior, **S. Caprărescu**, Stability And Instability Factors Associated With The Electrochemical Impedance Spectroscopy Measurements, Proceedings Of The 17th International Conference On Chemistry And Chemical Engineering, Sinaia, Romania, September 7-10, 2011, Ed. Politehnica Press, Pp. S.3.51-S.3.57, ISSN: 2247-5389
35. V. Purcar, I. Stamatin, O. Cintea, D. Donescu, C. Petcu, I. C. Vacarasteanu, **S. Caprărescu**, Synthesis of sol-gel-fluorinated silica nanoparticles and their super-hydrophobic thin films, Bucharest University Faculty of Physics 2012 Meeting, June 22- 23, 2012, Section: Physics and Technology of Alternative Renewable Energy Supplies
36. **S. Caprărescu**, V. Purcar, A. Cojocaru, I. Maior, D.-I. Vaireanu, Removal Of Copper Ions By Electrodialysis Process From Electroplating Wastewater, Proceedings Of The 17th International Conference On Chemistry And Chemical Engineering, Sinaia, Romania, September 7-10, 2011, Ed. Politehnica Press, Pp. S.5.9-S.5.16, ISSN: 2247-5389
37. I. Maior, A. Cojocaru, D-I. Văireanu, **S. Căprărescu**, Electrochemical Characterization of Several Natural Extracts With Inhibition Properties of Mineral Scales on Copper, Third Regional Symposium on Electrochemistry: South-Eastern Europe RSE-SEE, Bucharest, Romania, May 13 – 17, 2012, Section: Environmental Electrochemistry EEH-P-05, Proceedings p. 55
38. V. Purcar, I. Stamatin, O. Cintea, D. Bala, D. Donescu, M. Ghiurea, C. Petcu, **S. Caprărescu**, Surface Modification Of Silica Particles Assisted By CO₂, "Tendinte in stiinta materialelor si biomaterialelor; Impacul economic si socio-uman", 11-14 iulie 2012, Bucuresti, Romania
39. **S. Căprărescu**, V. Purcar, A. Sârbu, A. L. Ciripoiu, I. Maior, Îndepărtarea ionilor de cupru din apele reziduale galvanice utilizând noi tipuri de membrane schimbătoare de ioni, Conferința Națională De Chimie Învățământul Preuniversitar, Ediția a IV-a, Știință și educație pentru dezvoltare durabilă TÂRGOVIŞTE, 7 – 9 septembrie 2012, Secțiunea: Chimia și Protectia mediului- oral presentation
40. **S. Căprărescu**, V. Purcar, I. Maior, A. Sârbu, Noi tehnici de evaluare a conductivității ionice a membranelor schimbătoare de ioni utilizate în procesul de electrodializă, Conferința Națională De Chimie Învățământul Preuniversitar, Ediția a IV-a, Știință și educație pentru

dezvoltare durabilă TÂRGOVIŞTE, 7 – 9 septembrie 2012, Secțiunea: Chimia și Protecția mediului

41. **S. Căprărescu**, Ş. I. Voicu, V. Purcar, I. Maior, A. Cojocaru, Carbon Nanotube-Based Membranes: Fabrication And Application To Removal Of Copper Ions From Electroplating Wastewater Using Electrodialysis, 18th Romanian International Conference on Chemistry and Chemical Engineering (RICCCE), September 4-7, 2013, Romania, Sinaia, Sectiunea 5: Monitoring & Environmental Protection
42. O. Fronoiu, I. Maior, G. Negru, **S. Căprărescu**, V. Purcar, Electrochemical Characterization And Anti-Corrosion Properties Of Sol-Gel Silane-Based Coatings On Mild Steel, 18th Romanian International Conference on Chemistry and Chemical Engineering (RICCCE), September 4-7, 2013, Romania, Sinaia, Sectiunea 3: Physical Chemistry, Electrochemistry & Corrosion
43. A. Cojocaru, I. Maior, **S. Căprărescu**, F. N. Bîldea, D.-I. Văireanu, Preparation of polyaniline modified electrode in ionic liquid and its applications in ascorbic acid detection, 18th Romanian International Conference on Chemistry and Chemical Engineering (RICCCE), September 4-7, 2013, Romania, Sinaia, Sectiunea 3: Physical Chemistry, Electrochemistry & Corrosion
44. **S. Căprărescu**, Ş. I. Voicu, V. Purcar, I. Maior, A. Cojocaru, Carbon Nanotube-Based Membranes: Fabrication And Application To Removal Of Copper Ions From Electroplating Wastewater Using Electrodialysis, 18th Romanian International Conference on Chemistry and Chemical Engineering (RICCCE), September 4-7, 2013, Romania, Sinaia, Sectiunea 5: Monitoring & Environmental Protection - oral presentation
45. O. Fronoiu, I. Maior, G. Negru, **S. Căprărescu**, V. Purcar, Electrochemical Characterization And Anti-Corrosion Properties Of Sol-Gel Silane-Based Coatings On Mild Steel, 18th Romanian International Conference on Chemistry and Chemical Engineering (RICCCE), September 4-7, 2013, Romania, Sinaia, Sectiunea 3: Physical Chemistry, Electrochemistry & Corrosion
46. **S. Caprărescu**, R. Ianchis, A.-L. Radu, V. Purcar, A. Sarbu, C. L. Nistor, C. I. Spătaru and M. Ghiurea, Preparation and characterisation of polymer-clay composite membranes, Simpozion International PRIOCHEM, 30-31 octombrie 2014, Sectiunea Multifunctional materials and nanocomposites
47. **S. Caprărescu**, V. Purcar, R. Ianchis, A.-L. Radu, A. Sarbu, C. L. Nistor, Polymer-clay composite membranes used in separation and recovery of zinc ions from synthetic wastewater, a XXXIII-a Conferinta Nationala de Chimie, 01-03 octombrie 2014, Ramnicu Valcea, Protecția mediului & Inginerie chimică, Chemistry of environment & Chemical engineering, P.S.IV. - 14, p. 54
48. C. L. Nistor, V. Purcar, C. Petcu, M. Ghiurea, R. Ianchiș, **S. Căprărescu**, R. Şomoghi, C.-I. Spătaru, D. Donescu, The influence of reaction time on the structure and morphology of the octadecyltriethoxysilane tetraethyl ortosilicate silica particles, A XXXIII-A CONFERINTA NATIONALA DE CHIMIE, 01-03 OCTOMBRIE 2014, Ramnicu Valcea, Chimie Macromoleculară și Supramoleculară / Macromolecular and Supramolecular Chemistry, P.S.III. - 5., p.48
49. **S. Căprărescu**, V. Purcar, A.-L. Radu, A. R. Miron, D. Ion-Ebrasu, A. Soare, Treatment of organic dye from synthetic solutions using polymer membranes and electrodialysis, International Conference Geography, Environment and GIS for students and young researchers, Targoviste, Romania, May 21-23, 2015, Book of abstracts p.44-45
50. A.R. Miron, C. Modrogean, D.-E. Pascu, O.D. Orbuleț, **S. Căprărescu**, Use of ion exchange processes on weak acid resins for nickel removal from waste waters, 15th International Multidisciplinary Scientific Geoconference and EXPO, SGEM 2015; Albena; Bulgaria; 18 June - 24 June 2015; Code 153929

51. A. R. Miron, C. Modrogan, D.– E. Pascu, **S. Căprărescu**, H. N. Abdalraheem Al- Ani, A. Ab. K. K. Rikabi, D. D. Clej, Mathematical and kinetic modeling of aluminium anodes behavior during electrocoagulation process, 5th Regional Symposium on Electrochemistry South - East Europe June 7-11, 2015, RIU Pravets, Pravets, Bulgaria, IND-P-03
52. A.R. Miron, C. Modrogan, D. E. Pascu, D.D. Clej, M. Pascu (Neagu), A.Ab.K.K. Rikabi, **S. Caprarescu**, COD Removal from Textile Wastewaters by Means of Electrocoagulation, The 19th Romanian International Conference on Chemistry and Chemical Engineering (RICCCE), Sibiu, ROMANIA, September 2 - 5, 2015, S5- 48P
53. O.M. Fronoiu, I. Maior, I.A. Ciobotaru, H. Iovu, D.I. Vaireanu, **S. Caprarescu**, A study on Epoxy-Silane-Nanoparticles Hybrid Coatings. Evaluation of the Corrosion Protection Properties, The 19th Romanian International Conference on Chemistry and Chemical Engineering (RICCCE), Sibiu, ROMANIA, September 2 - 5, 2015, S3 – 243OP
54. D.I. Vaireanu, I.A. Ciobotaru, I. Maior, A. Cojocaru, **S. Caprarescu**, Electrochemical Techniques as a Useful Aid for Deposition and Characterisation of Silane Coatings. The 19th Romanian International Conference on Chemistry and Chemical Engineering (RICCCE), Sibiu, ROMANIA, September 2 - 5, 2015, S3 – 111P
55. A. Cojocaru, I. Maior, G. E. Badea, I.A. Ciobotaru, **S. Caprarescu**, D.I. Vaireanu, Comparative Evaluation of Natural and Commercial Scale Inhibitors, The 19th Romanian International Conference on Chemistry and Chemical Engineering (RICCCE), Sibiu, ROMANIA, September 2 - 5, 2015, S3 – 246P
56. **S. Caprarescu**, R. Ianchis, A.-L. Radu, V. Purcar, E. Alexandrescu, A. Sarbu, A. R. Miron, D. I. Vaireanu, A. Cojocaru, I. Maior, I. A. Ciobotaru, Preparation, Characterization And Application Of Modified Commercial Organoclay Polymer Membranes For Removal Of Indigo Carmine, International Symposium: Priorities of Chemistry for a Sustainable Development PRIOCHEM - 11th Edition, Bucharest, 29th - 30th October 2015, S3-P-3, Book of abstracts p. 110
57. **S. Caprarescu**, A.-L. Radu, V. Purcar, C. Petcu, R. Ianchis, E. Alexandrescu, A. Sarbu, C. L. Nistor, A. R. Miron, D. Ion-Ebrasu, A. Cojocaru, Polymer Membranes With Plant Extracts For Removal Of Dyes From Wastewaters, International Symposium: Priorities of Chemistry for a Sustainable Development PRIOCHEM - 11th Edition, Bucharest, 29th - 30th October 2015, S3-P-12, Book of abstracts p. 119
58. **S. Caprarescu**, A.R. Miron, V. Purcar, A.-L. Radu, A. Sarbu, C. Petcu, R. Ianchis, E. Alexandrescu, C.L. Nistor, C.I. Spataru, S. Nitu, I. Maior, Removal Of Dye From Synthetic Wastewaters Using Polymer Membranes Enhanced With Plant Extract, International Symposium “Priorities of Chemistry for a Sustainable Development” PRIOCHEM, 12th Edition 27-28 October 2016, Bucharest, Romania, Section 3 – Multifunctional materials and nanocomposites
59. **S. Caprarescu**, A. R. Miron, V. Purcar, A.-L. Radu, A. Sarbu, D. Ion-Ebrasu, D. E. Pascu, M. (Neagu) Pascu, Preparation Of Polymer Membranes Enhanced With Medicinal Plant Extract For Removal Of Heavy Metals, International Symposium “Priorities of Chemistry for a Sustainable Development” PRIOCHEM, 12th Edition 27-28 October 2016, Bucharest, Romania, Section 3 – Multifunctional materials and nanocomposites
60. C.I. Spataru, V. Purcar, C. Petcu, E. Alexandrescu, R. Somoghi, T. Bogdan, D. Panaitescu, R. Ianchis, C.L. Nistor, N. Sabina, D. Donescu, **S. Caprarescu**, Fabrication Of Bilayer Coatings On Glass Surface Using Hydrophobic Silica Nanoparticles Obtained By Sol-Gel Process, Section 3 – Multifunctional materials and nanocomposites, International Symposium “PRIORITIES OF CHEMISTRY FOR A SUSTAINABLE DEVELOPMENT” PRIOCHEM, 12th Edition 27-28 October 2016, Bucharest, Romania, Section 3 – Multifunctional materials and nanocomposites

61. R. Ianchiș, R. Șomoghi, B. Trică, **S. Căprărescu**, A.L. Radu, C.L. Nistor, V. Purcar, C.I. Spătaru, S. Nițu, C. Petcu, TEM studies on new synthesised nanocomposite membranes based on polyethersulfone and advanced modified mineral clay used in wastewater treatment, International Symposium "PRIORITIES OF CHEMISTRY FOR A SUSTAINABLE DEVELOPMENT" PRIOCHEM, 12th Edition 27-28 October 2016, Bucharest, Romania, Section 3 – Multifunctional materials and nanocomposites
62. **S. Căprărescu**, V. Purcar V., A.-L. Radu, A. Sarbu, A. R. Miron, Polymer Membranes Enhanced With Natural Plant Extract Used For Removal Of Nickel Ions From Syntetic Wastewater, 4th International Conference Geography Environment and GIS, ISSN: 2457-1849, 18-20 Mai 2017, Targoviste, Environment-B4, p. 56-57
63. V. Purcar, C. Nichita, E. Alexandrescu, R. Șomoghi, V. Rădițoiu, **S. Căprărescu**, Modified silica nanoparticles obtained by microwave synthesis, 4th International Conference Geography Environment and GIS, ISSN: 2457-1849, 18-20 Mai 2017, Targoviste, Romania, Environment-B7, p. 59-60
64. V. Purcar, R. Șomoghi, S. G. Nițu, C.-A. Nicolae, E. Alexandrescu, V. Rădițoiu, **S. Căprărescu**, Sol-Gel Preparation Of Modified ZnO Materials, 17th International Balkan Workshop on Applied Physics and Materials Science, 11-14 July, 2017, Constanta, Romania, p. 59
65. R. Șomoghi, V. Purcar, R. Ianchiș, B. Trică, S. G. Nițu, C. Petcu, C. L. Nistor, E. Alexandrescu, C. Gîfu, **S. Căprărescu**, Morphology Of ZnO Nanostructured Materials Obtained Through Sol-Gel Process, 17th International Balkan Workshop on Applied Physics and Materials Science, 11-14 July, 2017, Constanta, Romania, p. 61
66. **S. Căprărescu**, V. Purcar, A. R. Miron, A. L. Radu, M. Pascu (Neagu), Preparation and characterisation of polymer membranes enhanced with medicinal plant extract, 17th International Multidisciplinary Scientific GeoConference SGEM, 27 june-6 july 2017, Albena, Bulgaria,
67. **S. Caprărescu**, V. Purcar, A. L. Radu, A. R. Miron, C. Modroğan, Removal of nickel ions from synthetic wastewater by electrodialysis using polymer membranes doped with plant extract, 17th International Multidisciplinary Scientific GeoConference SGEM 27 june-6 july 2017, Albena, Bulgaria,
68. V. Purcar, R. Șomoghi, V. Rădițoiu, D. M. Panaitescu, **S. Căprărescu**, Structure modification of hybrid zirconium sol-gel coatings, 17th International Multidisciplinary Scientific GeoConference SGEM, 27 june-6 july 2017, Albena, Bulgaria,
69. R. Șomoghi, V. Purcar, R. Ianchiș, S. G. Nițu, B. Trică, E. Alexandrescu, C. I. Gîfu, C. Petcu, **S. Căprărescu**, Designing of new nanostructured zinc oxide materials for coatings of metallic surfaces, International Symposium on Synthesis and Catalysis 2017, 5-8 Septembrie, Portugalia
70. M. A. Dancila, **S. Caprărescu**, V. Purcar, E. Vasile, C. Modroğan, A. Melinescu, Synthesis and characterization of Zn_2TiO_4 used in desulphurisation processes of waste gases with H₂S content, Session 2.5: Novel materials for environmental and energy applications, 9th International Conference on Environmental Engineering and Management (ICEEM, Circular Economy and Environmental Sustainability September 6 – 9, 2017, Bologna, ITALY
71. **S. Caprărescu**, V. Purcar, V. Raditoiu, M (Neagu) Pascu, Corrosion protection of aluminium in sulphuric acid using natural plant extract, XIII-th The International Symposium Priorities of Chemistry for a Sustainable Development, Section 3: Environmental Engineerin and Cultural Heritage Protection, ISSN 2285-8334, S3-P6, 25-27 Octombrie 2017, Bucuresti, Romania, p. 13
72. Matei M. D., **Căprărescu S.**, Purcar V., Șomoghi R., Dăncilă M. A., *Corrosion protection of mild steel in natural water using different commercial liquid additives*, 5th International

- Conference "Geography, Environment and GIS, for students and young researchers", Targoviste, Romania, 17-19 May 2018, Section Environment, p. 60
73. N.-R. Ţerbu, V. Purcar, C. Nichita, **S. Căprărescu**, R. Șomoghi, M. Raduly, *Gentamicin-loaded silica nanoparticles obtained by microwave synthesis*, 5th International Conference "Geography, Environment and GIS, for students and young researchers", Targoviste, Romania, 17-19 May 2018, Section Environment, p. 63
74. R. Șomoghi, V. Purcar, G. S. Nițu, I. C. Gîfu, E. Alexandrescu, **S. Căprărescu**, *Nanostructured materials based on ZnO with controlled shape and sizes, obtained by sol-gel process*, 5th International Conference "Geography, Environment and GIS, for students and young researchers", Targoviste, Romania, 17-19 May 2018, Section Environment, p. 61
75. A. A. Scarlat, **S. Căprărescu**, V. Purcar, C. Modrogean, *Recovery of copper ions from synthetically wastewater using polymer membrane with silane*, 5th International Conference "Geography, Environment and GIS, for students and young researchers", Targoviste, Romania, 17-19 May 2018, Section Environment, p. 62
76. E.-L. Stancu, **S. Căprărescu**, V. Purcar, C. Modrogean, *Study of corrosion efficiency of metals using commercial liquid additive in acidic medium*, 5th International Conference "Geography, Environment and GIS, for students and young researchers", Targoviste, Romania, 17-19 May 2018, Section Environment, p. 64
77. **S. Căprărescu**, V. Purcar, *Corrosion protection of mild steel using different commercial extracts from insect and mollusk*, 18th International Balkan Workshop on Applied Physics and Materials Science, Constanta, Romania 10-13 July 2018, Materials Physics, p. 39
78. V. Purcar, A. Dumitru, V. Rădițoiu, A. Rădițoiu, C.-A. Nicolae, A. Frone, **S. Căprărescu**, M. F. Raduly, S. Avramescu, *Antireflective and hydrophilic surfaces obtained from sol-gel TiO₂ materials*, 12th International Conference on Physics of Advanced Materials (ICPAM-12), 22-28 September 2018, Creta, **Grecia**
79. A. A. Scarlat, **S. Capraescu**, V. Purcar, C. Modrogean, M. (Neagu) Pascu, *Application of natural fruit extracts as green corrosion inhibitors for steel in natural water*, International Symposium PRIOCHEM XIV-edition, 10-12 Octomber 2018, Bucharest, Romania, SS, SP-18
80. **S. Căprărescu**, A. M. Dăncilă, C. Modrogean, V. Purcar, *Corrosion protection of mild steel using natural vegetable extract in different aqueous solutions*, 6th International Colloquium "Physics of Materials" (PM-6), 15-16 November 2018, Bucharest, Romania
81. **S. Capraescu**, A. L. Radu, V. Purcar, M. (Neagu) Pascu, T. Sandu, A. Zaharia, C.-T. Cojocaru, M. V. Dumitru, R. E. Botez, B. Tsintsarski, G. Georgi, S. Ivanka, A. Sarbu, *Innovative two-component polymer membranes as viable means for heavy metals removal from wastewater*, XIX International Multidisciplinary Scientific GeoConference SGEM 2019, section: Ecology and Environmental Protection, 28 June - 7 July, 2019, Albena, **Bulgaria**
82. A. M. Dancila, O. D. Orbuleț, C. Modrogean, **S. Capraescu**, *Soybean waste material as potential adsorbent for heavy metal ions from aqueous solutions*, XIX International Multidisciplinary Scientific GeoConference SGEM 2019, section 20: Ecology and Environmental Protection, 28 June - 7 July, 2019, Albena, **Bulgaria**
83. **S. Căprărescu**, V. Purcar, A. M. Dăncila, C. Modrogean, O. D. Orbuleț, *Corrosion protection of mild carbon steel using seaweed*, 19th International Balkan Workshop on Applied Physics and Materials Science, 16-19 July 2019, Constanta, Romania
84. A. A. Scarlat, **S. Căprărescu**, V. Purcar, C. Modrogean, A. M. Dăncila, O. D. Orbuleț, *Treatment of paint wastewater using natural plant, crushed granite and anion exchange resin*, 6th International Conference Geography, Environment and GIS for students and young researchers, 23-25 May 2019, Targoviste, Romania

85. V. Purcar, R. Manea, V. Raditoiu, A. Raditoiu, F. M. Raduly, G. C. Ispas, A. Frone, L. E. Wagner, **S. Căprărescu**, *Sol-gel bilayer coatings based on silica hybrids and TiO₂ sensitized with iron (III) phthalocyanine*, 9th International Conference of the Chemical Societies of the South-East European Countries, 8-11 May 2019, Targoviste, Romania
86. V. Rădițoiu, V. Purcar, A. Rădițoiu, R. Manea, F. M. Raduly, G. C. Ispas, A. Frone, M. Anastasescu, L. E. Wagner, **S. Căprărescu**, *Facile preparation in two steps of sol-gel coatings based on silica materials and TiO₂ nanoparticles*, 19th International Balkan Workshop on Applied Physics and Materials Science, 16-19 July 2019, Constanta, Romania
87. **S. Căprărescu**, A. M. Dăncilă, C. Modrogean, V. Purcar, *Corrosion protection of carbon steel using natural seaweeds from seawater*, Virtual International Scientific Workshop “Eurachem2020 - Quality Assurance Elements for Analytical Laboratories in the University Curriculum”, 14-15 July 2020, Bucharest, Romania
88. V. Purcar, V. Rădițoiu, A. Dumitru, A. Rădițoiu, M. F. Raduly, R. Manea, G. C. Ispas, A. Frone, M. Anastasescu, **S. Căprărescu**, L. E. Wagner, S. Avramescu, *Synthesis and characterization of sol-gel TiO₂-based materials using tetraethoxysilane (TEOS) and/or methyltriethoxysilane (MTES) as coupling agents*, Materials, Methods and Technologies 2020, 22nd International Conference, 29 August – 1 September 2020, Burgas, **Bulgaria**