

CURICULUM VITAE

1. Numele și prenumele : BUDRUGEAC PETRU

2. Locul și data nașterii : CARANSEBEȘ , Județul CARAȘ-SEVERIN , 30 iunie 1949

3. Studii :

a. Liceul Traian Doda – Caransebeș .

Anul absolvirii și al bacalaureatului : 1967

b. Facultatea de Chimie - Universitatea București .

Anul absolvirii și susținerii lucrării de diplomă : 1972

c. Doctorat în cadrul Institutului de Chimie Fizică al Academiei Române

Conducător doctorat : Acad. Prof. Dr. Doc. I.G. Murgulescu

Anul susținerii tezei de doctorat și acordării titlului de DOCTOR ÎN CHIMIE : 1981

4. Cariera profesională :

Instituția	Funcția	Perioada
Institutul de Chimie Fizică - București	cercetător științific	1972 - 1984
Liceul Ion Neculce - București	profesor de chimie - Gradul I	1984 - 1985
Liceul Gheorghe Șincai - București	profesor de chimie - Gradul I	1985 - 1986
ICPE - București	cercetător științific	1986 - 1990
ICPE - București	cercetător științific principal gradul III	1990 - 1993
ICPE - București	cercetător științific principal gradul II	1993 - 1995
EUROTEST S.A. - București	cercetător științific principal gradul II	1995 - 1998
ICPE - București	cercetător științific principal gradul II	1998 - 1999
ICPE - București	cercetător științific principal gradul I	1999 - 2001
INCDIE-ICPE –C.A. București	cercetător științific principal gradul I;	2001-
INCDIE-ICPE –C.A. București	Sef al Laboratorului: Determinarea comportării termice a produselor și materialelor solide prin metode de analiză termică	2005 -

5. Număr de lucrări științifice publicate în reviste de specialitate: 179 (164 publicate în reviste cotate ISI) (v. Anexa 1)

6. Factorul de impact cumulativ al lucrărilor publicate: 175,114

7. Factorul de impact cumulativ individual al lucrărilor publicate : 78,551

8. Indicele $h = 23$

9. Număr de cărți sau capitole din cărți publicate : 10 (din care 2 publicate în străinătate, în edituri consacrate) (v. Anexa 2)

10. Număr de brevete de inventator : 5

11. Număr de lucrări comunicate : 210 (38 lucrări apărute numai în Proceeding-uri). Lucrările prezentate la conferințele și simpoziunile internaționale sunt listate în Anexa 3.

12. Număr de citări (nu autocitări) a lucrărilor publicate : 1638 (conform Web of Science)

13. Responsabil a cca. 100 CONTRACTE DE CERCETARE, GRANTURI, Proiecte de Colaborare bilaterale

14. Editor asociat al revistelor cotate ISI:

- **Journal of Thermal Analysis and Calorimetry** , Edited by Akademiai Kiado – Budapest si Kluwer Academic Publishers – Dordrecht (din 2006 – Springer Verlag)
- **Chemical Papers**, Edited by Springer Verlag

15. Membru în Comitetul de Redacție al revistei cotate ISI: International Journal of Conservation Science, Editată de Universitatea Gh. Asachi, Iași**16. Guest Editor al „Special Chapter dedicated to Prof. Eugen Segal on the occasion of his 75th birthday”, publicat in Journal of Thermal Analysis and Calorimetry, 94 – Number 2 – November 2008****17. Referent științific la revistele :**

1. **Radiation Physics and Chemistry**, Published by PERGAMON PRESS – Oxford, New York, Seoul, Tokyo
 2. **Journal of Thermal Analysis and Calorimetry** , Edited by Akademiai Kiado – Budapest si Springer Verlag
 3. **International Journal of Chemical Kinetics**, Edited by John Willey & Sons- New York
 4. **Thermochimica Acta**, Edited by Elsevier Science – The Netherland
 5. **Polymer Degradation and Stability**, Edited by Elsevier Science – The Netherland
 6. **Revue Roumaine de Chimie**, Editura Academiei Române
 7. **Metalurgical and Materials Transaction B**, Edited by Springer Verlag
 8. **Solid State Sciences**, Edited by Elsevier Science – The Netherland
 9. **Materials Chemistry Physics**, Edited by Elsevier Science – The Netherland
 10. **Chemical Engineering Journal**, Edited by Elsevier Science – The Netherland
 11. **Chemical Papers**, Edited by Springer Verlag
 12. **Journal of Applied Polymer Science**, Edited by John Willey & Sons- New York
 13. **The Journal of Physical Chemistry** , Edited by ACS
 14. **International Journal of Thermophysics**, Edited by Springer Verlag
 15. **Journal of Inorganic and Organometallic Polymers and Material**, Edited by Springer Verlag
 16. **Structural Chemistry**, Edited by Springer Verlag
 17. **Reaction Kinetics and Catalysis Letters**, Edited by Springer Verlag
 18. **Industrial & Engineering Chemistry Research**, Edited by ACS
 19. **Analytical Methods**, RSC Publishing
 20. **Reaction Kinetics, Mechanisms and Catalysis**, Edited by Springer Verlag
 21. **Polymers**, Edited by MDPI
 22. **Journal of Composite materials**, Edited by Elsevier Science – The Netherland
 23. **Bioresource Technology**, Edited by Elsevier Science – The Netherland
 24. **Applied Energy**, Edited by Elsevier Science – The Netherland
 25. **Radiation Effects and Defects in Solids**, Edited by Taylor & Francis Group
 26. **High Temperatures-High Pressures**, Edited by ACS
 27. **Chemistry Central Journal**
 28. **Microscopy Research and Technique**, Edited by John Willey & Sons- New York
 29. **Journal of Chemistry**, Edited by Hindawi Publishing Corporation
- 18. Membru al următoarelor societăți științifice :**
- a. ASOCIATIA ROMANA DE MATERIALE

- b. COMISIA DE ANALIZĂ TERMICĂ ȘI CALORIMETRIE A ACADEMIEI ROMÂNE (Secretar științific de la înființare (1990) – 2004; Vice-presedinte: 2004- 2011; Președinte: 2011-

19. PREMIUL NICOLAE TECLU AL ACADEMIEI ROMÂNE pe anul 1990

20.. International Award :_Best Reviewer 2010 Award, accorded by Journal of Thermal Analysis and Calorimetry

21. Conducere Doctorat– Universitatea București

21. Biografia inclusă în:

- **Who's Who in the World , Marquis WHO's WHO , S.U.A. , 1998 , 1999, 2000, 2001, 2002, ...**
- **Who's Who in the Science and Technology , Marquis WHO's WHO , S.U.A. , 2001,...**
- **Who's Who in Thermal Analysis and Calorimetry, Akademia Kyado – Budapest , 2004**
- **Enciclopedia Personalităților din România, Who is Who, Editura pentru Enciclopediile Personalităților S.A., Zug/Elvetia, 2005 Who's**
- **Who in Thermal Analysis and Calorimetry, Akademia Kyado – Budapest , 2014**

18.01.2017

Dr. chim. Petru Budrugeac

ANEXA 1

LISTA LUCRĂRILOR ȘTIINȚIFICE PUBLICATE ÎN REVISTE DE SPECIALITATE**Adsorbție și cataliză**

1. **P. Budrugeac**, M.I.Vass , *Some consideration concerning Gibbs free energy of gas-solid interface* , **Revue Roumaine de Chimie** , **19** (1974) 1153 – 1155.
2. **P. Budrugeac**, M.I.Vass , *On the surface stress and surface tension of gas-solid interface* , **Revue Roumaine de Chimie** , **21** (1976) 1305 – 1309.
3. **P. Budrugeac** , *Termodinamica adsorbției gazelor pe adsorbenti solizi* , **Studii și Cercetări de Fizică** , **31** (1979) 633 – 652 .
4. **P. Budrugeac**, M.I.Vass , *On the surface stress and surface tension of gas-solid interface* , **Revue Roumaine de Physique** , **24** (1979) 77 – 80 .
5. **P. Budrugeac** , *Comments on “Note on the spreading pressure of an adsorbed film” by J.G. Dash , J. Suzanne , H. Shechtler and R. E. Peierls* , **Surface Science** , **25** (1980) 487 –491 .
6. **P. Budrugeac** , *Two new kinetical derivations of the Jovanovic’ isotherm for monolayer adsorption* , **Revue Roumaine de Chimie** , **25** (1980) 487 –491.
7. **M. I. Vass, P. Budrugeac** , *Calorimetric studies of oxygen adsorption on silver powder and of CO and CO₂ interactions with preadsorbed oxygen on silver* , **Journal of Catalysis** , **64** (1980) 68 – 73 .
8. **P. Budrugeac**, I. Sitaru , *Tensiunea superficială și efortul specific superficial al interfeței gaz-solid I. Modelul Langmuir .* , **Revista de Chimie** , **33** (1982) 35-36 .
9. **P. Budrugeac**, I. Sitaru , *Tensiunea superficială și efortul specific superficial al interfeței gaz-solid II. Gazul van der Waals bidimensional* , **Revista de Chimie** , **33** (1982) 495 – 496.
10. **P. Budrugeac**, I. Sitaru , *Statistica adsorbției fizice nelocalizate în monostrat a gazelor pe suprafețe solide omogene* , **Studii și Cercetări de Fizică** , **34** (1982) 183 – 204.

Degradarea termică , termooxidativă și în câmp de radiații a materialelor polimerice. Analiza termică. Cinetica chimică izotermă și neizotermă

11. **D. Fatu , G. Geambas , E. Segal , P. Budrugeac , S. Ciutacu** , *On the thermal decomposition of the copolymer ABS and of nylon polyamide* , **Thermochimica Acta** , **149** (1989) 181 – 187.
12. **E. Segal , P. Budrugeac , S. Ciutacu , G. Mares** , *On the change in thermal behaviour of the compound EVA owing to accelerated thermal and radiation-induced ageing* , **Thermochimica Acta** , **149** (1990) 161 – 169
13. **E. Segal , P. Budrugeac și S. Ciutacu** , *A thermo-oxidation, nonisothermal kinetic study of thermally aged and γ -irradiation aged EVA compound samples* , **Thermochimica Acta** , **164** (1990) 171 – 176 .
14. **S. Ciutacu , P. Budrugeac , G. Mares , I. Boconcios** , *Accelerated thermal ageing of ethylene-propylene rubber in pressurized oxygen* , **Polymer Degradation and Stability** , **29** , (1990) 321 – 329 .
15. **P. Budrugeac , S. Ciutacu** , *Thermal Degradation of polychloroprene rubber* , **Polymer Degradation and Stability** , **33** (1991) 377 – 386 .
16. **S. Ciutacu , P. Budrugeac , I. Niculae** , *Accelerated thermal aging of glass-reinforced epoxy resin under oxygen pressure* , **Polymer Degradation and Stability** , **31** (1991) 365 – 372 .
17. **P. Budrugeac**, E. Segal , *Thermooxidation and non-isothermal kinetic study of thermally aged nitrile butadiene rubber* , **Thermochimica Acta** , **184** (1991) 25 – 31 .
18. **G. Mares , S. Ciutacu , P. Budrugeac , M. Chipara** , *Determination of the lifetime of ethylene-propylene rubber under simultaneous action of heat and ionizing radiation* , **Polymer Degradation and Stability** , **32** (1991) 31 – 38 .
19. **P. Budrugeac** , E. Segal și S. Ciutacu , *Thermooxidative degradation of nitrile-butadiene rubber* , **Journal of Thermal Analysis** , **37** (1991) 1179 –1191 .
20. **P. Budrugeac și E. Segal** , *The compensation effect in the thermo-oxidative degradation of some nitrile-butadiene rubbers* , **Thermochimica Acta** , **184** (1991) 33 –38 .
21. **P. Budrugeac și E. Segal** , *Derivatographic investigation of the compound EVA submitted to thermal accelerated ageing. Thermooxidative oxidation of the compound EVA* , **Revue Roumaine de Chimie** , **36** (1991) 429 – 433.
22. **P. Budrugeac și E. Segal** , *The ageing compensation effect in the thermal degradation of some electrical insulators* , **Thermochimica Acta** , **202** (1992) 121 – 131 .

23. **P. Budrugaec** , *The kinetics of thermal degradation of polymers exhibiting a compensation effect and a linear variation of activation energy with degree of degradation* , **Polymer Degradation and Stability** , **38** (1992) 229 – 233 .
24. **P. Budrugaec** și E. Segal , *Thermal analysis in the evaluation of the thermal lifetime of solid polymeric materials* , **Thermochimica Acta** , **211** (1992) 131 – 136 .
25. **P. Budrugaec** , *Thermooxidative degradation of some nitrile-butadiene rubbers* , **Polymer Degradation and Stability** , **38** (1992) 165 – 172 .
26. **P. Budrugaec**, E. Segal , *Some problems concerning the compensation effect in the kinetics of the thermal degradation of polymers* , **Journal of Thermal Analysis** , **39** (1993) 1199 –1208 .
27. **P. Budrugaec**, E. Segal , *The compensation effect in the non-isothermal degradation of polychloroprene rubber* , **Thermochimica Acta** , **221** (1993) 221 – 228 .
28. **P. Budrugaec** , *Non-isothermal degradation kinetics of glass-reinforced epoxy resin*, **Thermochimica Acta** , **221** (1993) 229 – 236 .
29. S. Jipa , R. Setnescu , T. Setnescu , C. Cazac , **P. Budrugaec**, I. Mihalcea , *The comparative effectiveness of some commercial antioxidants as studied by lioluminescence* , **Polymer Degradation and Stability** , **40** (1994) 203 – 210 .
30. **P. Budrugaec**, E. Segal , *On the kinetics of the thermal degradation of polymers with compensation effect and the dependence of activation energy on the degree of conversion* , **Polymer Degradation and Stability** , **46** (1994) 203 – 210 .
31. **P. Budrugaec** , *Non-isothermal study of the thermooxidative degradation of the ethylene-propylene rubber* , **Revue Roumaine de Chimie** , **39** (1994) 229 – 236 .
32. **P. Budrugaec** , *Accelerated thermal ageing of nitrile-butadiene rubber under air pressure*, **Polymer Degradation and Stability** , **47** (1995) 129 –132 .
33. **P. Budrugaec**, E. Segal , *The compensation effect in the kinetics of nonisothermal degradation of polymers* , **ICTAC News** , **Nr. 6** (1995) 33 – 39 .
34. **P. Budrugaec**, E. Segal , *Non-isothermal kinetics of reactions whose activation energy depends on the degree of conversion* , **Thermochimica Acta** , **260** (1995) 75 – 85 .
35. **P. Budrugaec** , *Thermal lifetime evaluation of polymeric materials exhibiting a compensation effect and dependence of activation energy on the degree of conversion* , **Polymer Degradation and Stability** , **50** (1995) 241 – 246 .
36. **P. Budrugaec** , E. Segal, E. Stere , *Kinetic investigation of cure and thermal behaviour of the epoxy system based on bisphenol A-type resin and benzyl N,N-dimethyl amine* , **Revue Roumaine de Chimie** , **40** (1995) 621 – 629 .
37. **P. Budrugaec**, A. L. Petre, E. Segal , *Approximation of TG curve through a temperature power series in order to evaluate the non-isothermal kinetic parameters of solid-gas decompositions and degradation* , **Thermochimica Acta** , **275** (1996) 1313 –1324 .
38. **P. Budrugaec** , E. Segal, E. Stere, A. L. Petre , *Thermal degradation of a styrenated unsaturated polyester resin* , **Journal of Thermal Analysis** , **46** (1996) 1313 – 1324 .
39. **P. Budrugaec** , A. L. Petre și E. Segal , *Some problems concerning the evaluation of non-isothermal kinetic parameters . Solid-gas decompositions from thermogravimetric data* , **Journal of Thermal Analysis** , **47** (1996) 123 – 134 .
40. **P. Budrugaec**, E. Stere , *Thermal degradation of the styrenated polyester resins modified with epoxides* , **Revue Roumaine de Chimie** , **41** (1996) 995 – 1003 .
41. **P. Budrugaec**, E. Segal , *Thermooxidative degradation of an unsaturated polyester resin . The effect of oxygen pressure on the kinetics*, **Journal of Thermal Analysis** , **49** (1997) 183 – 191 .
42. **P. Budrugaec** , *Accelerated thermal aging of NBR and other materials under air or oxygen pressures* , **Die Angewandte Makromolekulare Chemie** , **247** (1997) 19 – 30 .
43. **P. Budrugaec** , *On the pseudo compensation effect due to the complexity of the mechanism of the thermal degradation of polymeric materials* , **Polymer Degradation and Stability** , **58** (1997) 69 – 76 .
44. **P. Budrugaec**, E. Stere , *Nonisothermal cure kinetics of some epoxy systems* , **Revue Roumaine de Chimie** , **42** (1997) 645 – 650 .
45. A. L. Petre , **P. Budrugaec**, E. Segal , *The thermooxidative degradation of polyvinyl chloride* , **Revue Roumaine de Chimie** , **42** (1997) 753 – 758 .
46. **P. Budrugaec** și E. Segal , *On the compensation effect at the form of the differential conversion function* , **Journal of Thermal Analysis** , **53** (1998) 269 – 283 .
47. **P. Budrugaec**, E. Segal , *Thermal degradation of polychloroprene rubber under isothermal and non-isothermal conditions* , **Journal of Thermal Analysis** , **53** (1998) 441 – 447 .

48. **P. Budrugaec**, E. Segal , *Changes of the mechanical properties and thermal behaviour of LDPE in response to accelerated thermal aging* , **Journal of Thermal Analysis** , **53** (1998) 801 – 808 .
49. **P. Budrugaec**, E. Segal , *On the apparent compensation effect found for two parallel reactions* , **International Journal of Chemical Kinetics** , **30** (9) (1998) 673 – 681 .
50. **P. Budrugaec**, E. Segal , *Estimation of activation energy for thermooxidative degradations of LDPE and NBR from non-isothermal and isothermal DTA data* , **Journal of Thermal Analysis** , **54** (1998) 765 - 773 .
51. **P. Budrugaec**, E. Segal , *Kinetic models for the thermal degradation of mechanical and electrical properties of polymeric materials* , **Roumanian Chemical Quarterly Reviews** , **6** (1998) 257 –269.
52. **P. Budrugaec**, E. Segal , *On some obvious cases of incorrect choice of the rate equation for non-isothermal kinetics* , **Journal of Thermal Analysis and Calorimetry** , **55** (1999) 321 – 323.
53. **P. Budrugaec** și E. Segal , *On the apparent compensation effect observed for two consecutive reactions* , , **Journal of Thermal Analysis and Calorimetry** , **56** (1999) 835 – 842.
54. A. L. Petre, **P. Budrugaec** și E. Segal , *Thermal degradation of polyvinyl chloride* , **Journal of Thermal Analysis and Calorimetry** , **56** (1999) 1065 –1070.
55. **P. Budrugaec** și E. Segal , *On the isoconversional procedures applied for non-isothermal kinetic analysis* , **Journal of Mining and Metallurgy** , **35** (1999) 187 – 196.
56. **P. Budrugaec** , E. Segal și C. Popescu , *On the paper “ An integral method of non-isothermal kinetic analysis ” by R. E. Lyon, which appeared in Thermochimica Acta 297 (1997) 117* , **Thermochimica Acta** , **333** (2) (1999) 177 – 178.
57. M. Niculescu, N. Vaszilcsin și **P. Budrugaec** , *Structural investigations and thermal analysis of the complex compound obtained through the reaction of 1,3-propanediol with $Ni(NO_3)_2 \cdot 6H_2O$* , **Studia Universitaris Babes-Bolyai, Chemia, XLIV (1-2)** (1999) 275 - 286
58. **P. Budrugaec** , *On the evaluation of the thermal lifetime of polymeric materials which exhibit a complex mechanism of thermal degradation consisting of two successive reactions* , **Polymer Degradation and Stability** , **67** (2000) 271 - 278.
59. **P. Budrugaec** , *The Effect of Oxygen Pressure on the Kinetics of Thermo-oxidative Degradation of the Copolymer EVA and Nitrile-Butadiene Rubber* , **Journal of Applied Polymer Science** , **75** (2000) 1453 – 1457.
60. **P. Budrugaec** , *On the use of oxidative stability measurements for short-term thermal endurance characterization of polymeric materials* , **Polymer Degradation and Stability** , **68** (2000) 289 - 293.
61. **P. Budrugaec**, E. Segal , *Some Problems Concerning the Evaluation of the Activation Energy from Non-Isothermal Data for Reactions with Activation Parameters Dependent on the Degree of Conversion* , **ICTAC News** , **33** (June 2000), No. 1, Review Article No. 20, pp. 39 – 49.
62. Traian Zaharescu, **P. Budrugaec** , *Radiation Processing of Ethylene-Propylene Rubber* , **Journal of Applied Polymer Science** , **78** (2000) 298-303
63. **P. Budrugaec**, E. Segal , *On the apparent compensation effect observed for two consecutive reactions* , **Journal of Thermal Analysis and Calorimetry** , **62** (2000) 227 – 235.
64. **P. Budrugaec** , *The evaluation of the non-isothermal kinetic parameters of the thermal and thermo-oxidative degradation of polymers and polymeric materials: its use and abuse* , **Polymer Degradation and Stability** , **71**(1) (2001) 185-187.
65. M. Niculescu, N. Vaszilcsin, M. Birzescu, **P. Budrugaec** și E. Segal , *Thermal and structural investigation of the reaction between 1,2-propanediol and $Ni(NO_3)_2 \cdot 6H_2O$* , **Journal of Thermal Analysis and Calorimetry** , **63** (2001) 181 – 189.
66. **P. Budrugaec**, D. Homentcovschi și E. Segal , *Critical analysis of the isoconversional methods for evaluating the activation energy. I. Theoretical background* , **Journal of Thermal Analysis and Calorimetry** , **63** (2001) 457 – 463.
67. **P. Budrugaec**, D. Homentcovschi și E. Segal , *Critical analysis of the isoconversional methods for evaluating the activation energy. II The activation energy obtained from isothermal data corresponding to two successive reactions* , **Journal of Thermal Analysis and Calorimetry** , **63** (2001) 465 - 469.
68. **P. Budrugaec**, J. M. Criado, F. J. Gotor, C. Popescu, E. Segal , *Kinetic analysis of dissociation of smithsonite from a set of non-isothermal data obtained at different heating rates* , **Journal of Thermal Analysis and Calorimetry** , **63** (2001) 777 – 786.
69. **P. Budrugaec**, D. Fătu , *Changes in the thermal behaviour of NBR due to accelerated γ -radiation-induced ageing* , **Journal of Thermal Analysis and Calorimetry** , **63** (2001) 901 – 906.
70. **P. Budrugaec**, C. Popescu și E. Segal , *Change of the apparent reaction order with temperature as a consequence of the reaction mechanism complexity* , **Journal of Thermal Analysis and Calorimetry** , **64** (2001) 821 – 827.

71. **P. Budrugaec**, *Comments on: Lifetime prediction for polymers via the temperature of initial decomposition*, authors: Z. Dobkowski and E. Rudnik, published in *Journal of Thermal Analysis*, 48 (1997) 1393-1400, **Journal of Thermal Analysis and Calorimetry**, **65** (2001) 309 – 312.
72. **P. Budrugaec**, E. Segal, *Comments on: Thermogravimetric study of tetrafunctional/phenol novolac epoxy mixture cured with a diamine*, authors: L. Barral, J. Cano, J. Lopez-Bueno, P. Nogueira, C. Ramirez and M. J. Abad, , published in *Journal of Thermal Analysis*, 51 (1998) 489 - 501, **Journal of Thermal Analysis and Calorimetry**, **65** (2001) 313 – 316.
73. **P. Budrugaec**, *The effect of oxygen pressure on the rate of non-isothermal thermo-oxidation of low density polyethylene*, **Journal of Materials Science**, **36** (2001) 2999 - 3001
74. **P. Budrugaec** și E. Segal, *On the Li and Tang's isoconversional method for kinetic analysis of solid-state reactions from thermoanalytical data*, **Journal of Materials Science**, **36** (2001) 2707 –2710.
75. M. Niculescu, N. Vaszilcsin, M. Birzescu, **P. Budrugaec** și E. Segal, *Thermal and structural investigation of the reaction between 1,2-propanediol and $\text{Co}(\text{NO}_3)_2 \cdot 6\text{H}_2\text{O}$* , **Journal of Thermal Analysis and Calorimetry**, **65** (2001) 881 – 889.
76. **P. Budrugaec**, E. Segal, *Some methodological problems concerning non-isothermal kinetic analysis of heterogeneous solid-gas reactions*, **International Journal of Chemical Kinetics**, **33** (2001) 564-573.
77. **P. Budrugaec**, *Thermal degradation of glass reinforced epoxy resin and polychloroprene rubber: the correlation of kinetic parameters of isothermal accelerated aging with those obtained from non-isothermal data*, **Polymer Degradation and Stability**, **74** (2001) 125-132.
78. **P. Budrugaec**, D. Homentcovschi și E. Segal, *Critical considerations on the isoconversional methods for evaluating the activation energy. III, On the evaluation of the activation energy from non-isothermal data*, **Journal of Thermal Analysis and Calorimetry**, **66** (2001) 557 – 565.
79. **P. Budrugaec**, *Differential isoconversional procedure for evaluating of the activation energy of non-isothermal reactions in solids*, **Journal of Thermal Analysis and Calorimetry**, **68** (2002) 131 – 139.
80. **P. Budrugaec** și E. Segal, *Review Article No.20.Reply to Comments by F. W. Wilburn*, **ICTAC NEWS**, Year 34 No. 1, December 2001, p.39
81. **P. Budrugaec** și E. Segal, *The use of high pressures in order to accelerate thermo-oxidative aging of LDPE*, **Revue Roumaine de Chimie**, **47** (1-2) (2002) 25 –28.
82. Traian Zaharescu și **P. Budrugaec**, *Radiation processing of EPDM/PP blends-The effect of low dose irradiation*, **Polymer Bulletin**, **49** (4) (2002) 297-303.
83. G. Hristea, **P. Budrugaec** și A. Ionescu, *Phase transition in disorder graphite artifacts*, **Romanian Reports in Physics**, **53** (2001) 910.
84. **P. Budrugaec**, E. Segal și C. Popescu, *Some remarks concerning the use of isothermal thermogravimetric data for the evaluation of kinetic parameters*, **Journal of Applied Polymer Science**, **89** (2) (2003) 355 – 360.
85. G. Munteanu, **P. Budrugaec**, L. Ilieva, T. Tabakova, D. Andreeva și E. Segal, *Kinetics of temperature programmed reduction of Fe_3O_4 promoted with copper: Application of isoconversional methods*, **Journal of Materials Science**, **38** (9) (2003) 1995 – 2000
86. **P. Budrugaec**, Viorica Trandafir, Madalina Georgiana Albu, *The effect of the hydration degree on the hydrothermal and thermo-oxidative stability of some collageneous matrices*, **Journal of Thermal Analysis and Calorimetry**, **72** (2003) 581 – 585.
87. Mihaela Badea, Ana Emandi, Dana Marinescu, Elena Cristureanu, Rodica Olar, Ana Braileanu, **P. Budrugaec**, E. Segal, *Thermal stability of some azo-derivatives and their complexes. 1-(2-benzothiazolyl)-3-methyl-4-azo-pyrazil-5-one derivatives and their Cu (II) complexes*, **Journal of Thermal Analysis and Calorimetry**, **72** (2003) 525 – 531.
88. O. Carp, L. Patron, G. Marinescu, G. Pascu, **P. Budrugaec** și M. Brezeanu, *Copper-Iron oxides obtained by thermal decomposition of oxalic coordination compounds*, **Journal of Thermal Analysis and Calorimetry**, **72** (2003) 263 – 270.
89. **P. Budrugaec** și E. Segal, *Differential isoconversional procedure for prediction of the isothermal behaviour of solid-gas systems from non-isothermal data*, **Journal of Thermal Analysis and Calorimetry**, **72** (2003) 831 - 837.
90. **P. Budrugaec**, Lucretia Miu, Veronica Bocu, F. J. Wortman, C. Popescu, *The use of thermal analysis methods in investigation of the thermal degradation of collagen-based materials that are supports of cultural and historic objects*, **Journal of Thermal Analysis and Calorimetry**, **72** (2003) 1057 – 1065.
91. **P. Budrugaec**, E. Segal, *On the nonlinear isoconversional procedures to evaluate the activation energy of non-isothermal reactions in solids*, **International Journal of Chemical Kinetics**, **36** (2) (2003) 87-93.
92. **P. Budrugaec**, E. Segal, *WHERE IS THE CONFUSION ?Reply to the note of Sergey Vyazovkin entitled : SOME CONFUSION CONCERNING INTEGRAL ISOCONVERSIONAL METHODS THAT MAY RESULT*

FROM THE PAPER BY BUDRUGEAC AND SEGAL « SOME METHODOLOGICAL PROBLEMS CONCERNING NONISOTHERMAL KINETIC ANALYSIS OF HETEROGENEOUS SOLID-GAS REACTIONS », *ICTAC News* **36** (2) (2003) 63 – 64

93. **P. Budrugeac**, L. Miu, C. Gaidau, V. Bocu, *Thermal behaviour of some tanned leathers used for the restoration of cultural and historical objects*, **Revue Roumaine de Chimie**, **48(12)** (2003) 961.
94. Mircea Niculescu, Niculae Vaszilcsin, Corneliu Mirvea Davidescu, Petru Negrea, Mihai Birzescu și **Petru Budrugeac**, *Structural investigations and thermal analysis of the coordination compound obtained through the reaction of 1,3-propanediol with $\text{Co}(\text{NO}_3)_2 \cdot 6\text{H}_2\text{O}$* , **Revue Roumaine de Chimie**, **48(12)** (2003) 997.
95. **P. Budrugeac**, J.M. Criado, F.J. Gotor, J.Malek, L.A. Pérez-Maqueda și E. Segal, *On the evaluation of the non-isothermal kinetic parameters of $(\text{GeS}_2)_{0.3}(\text{Sb}_2\text{S}_3)_{0.7}$ crystallization using the IKP method*, **International Journal of Chemical Kinetics**, **36** (4) (2004) 309 – 315.
96. **P. Budrugeac**, E. Segal, L.A. Pérez-Maqueda și J. M. Criado, *The use of the IKP method for discerning the kinetic parameters and the conversion function of the thermal dehydrochlorination of PVC from non-isothermal data*, **Polymer Degradation and Stability**, **84(2)** (2004) 311 – 320.
97. Mihaela Badea, Rodica Olar, Elena Cristurean, Dana Marinescu, Anca Emandi, **P. Budrugeac**, E. Segal, *Thermal stability study of some azo-derivates and their complexes. Part 2. New azo-derivative pigments and their Cu(II) complexes*, **Journal of Thermal Analysis and Calorimetry**, **77(3)** (2004) 815-824.
98. **P. Budrugeac**, L. Miu, C. Popescu, F. J. Wortmann, *Identification of collagen-based materials that are supports of cultural and historical objects*, **Journal of Thermal Analysis and Calorimetry**, **77(3)** (2004) 975-985.
99. **Petru Budrugeac**, Eugen Segal, *On the kinetic processing of thermal analysis data*, **Revue Roumaine de Chimie**, **49** (3-4) (2004) 193-198.
100. Aurelia Meghea, Maria Giurginca, Nicoleta Iftimie, Lucretia Miu, Bocu Viorica, **Petru Budrugeac**, *Behaviour of Accelerated Ageing of Some Natural Biopolymer Constituent of Parchment*, **Molecular Crystals and Liquid Crystals**, **418** (2004) 285 – 290.
101. E. Siapi, T. Mavromoustakos, V. Trandafir, B. Albu, **P. Budrugeac**, *The use of differential scanning calorimetry to study the effects of gentamycin on fibrous collageneous membranes*, **Thermochimica Acta**, **425** (2005) 161-171.
102. Lucreția Miu, Maria Giurginca, **Petru Budrugeac**, Nicoleta Iftimie, Aurelia Meghea, Ion Neacșu, Lenuța Codru, Corina Matei, *Principii metodologice pentru evaluarea stării de conservare a obiectelor de patrimoniu din piele și pergament*, **Buletinul Muzeului Militar Național, Serie Nouă, Nr. 2** (2004) 261 – 266.
103. **P. Budrugeac**, T. Zaharescu, M. Marcuța și Gh. Marin, *Accelerated electron effects on EVA based compound*, **Journal of Applied Polymer Science**, **96** (3) (2005) 613 – 617.
104. Lucreția Miu, Maria Giurginca, **Petru Budrugeac**, Nicoleta Iftimie. Aurelia Meghea, *Principii metodologice pentru evluarea obiectelor de patrimoniu din piele și pergament*, **Revista de Chimie**, **56** (3) (2005) 248 – 250
105. **P. Budrugeac**, *Some methodological problems concerning the kinetic analysis of non-isothermal data for thermal and thermo-oxidative degradation of polymers and polymeric materials*, **Polymer Degradation and Stability**, **89** (2) (2005) 265 – 273.
106. **P. Budrugeac**, E. Segal, *The application of the thermogravimetric analysis (TGA) and differential thermoanalysis (DTA) for rapid thermal endurance testing of electrical insulating materials*, **Analele Universității București, Anul XIV (serie noua), vol. I-II** (2005) 241 – 246.
107. Sanda Vișan, Virginia Ciobotaru, Florica Ionescu, **Petru Budrugeac**, Constantin Ghiga, *Caracterizarea compozitelor polimerice pe bază de EPDM reticulat în matrice poliolefinică*, **Mase Plastice**, **42** (3) (2005) 177 – 182.
108. Dorina Chambre, Cornelia Idițoiu, **Petru Budrugeac**, Eugen Segal, *Nonisothermal kinetic parameters of synthetic carboxylic cationites dehydration by means of isoconversional methods*, **Revista de Chimie**, **56** (5) (2005) 502 – 507.
109. **Crisan Popescu**, Eugen Segal, **Petru Budrugeac**, *Critics of Non-Isothermal Kinetic Methods to Calculate The Kinetic Parameters*, **Revue Roumaine de Chimie**, **50** (7-8) (2005) 511-518.
110. **P. Budrugeac** și E. Segal, *On the use of Diefallah's composite integral method at the non-isothermal kinetic analysis of heterogeneous solid-gas reactions*, **Journal of Thermal Analysis and Calorimetry**, **82** (2005) 677-680
111. E. Segal, **P. Budrugeac**, *Is there any convergence between the differential and integral procedures used in chemical kinetics, particularly in nonisothermal kinetics ?*, **International Journal of Chemical Kinetics**, **38** (5) (2006) 339-344.

- 112. Oana Cătălina Mocioiu, Maria Zaharescu, Georgeta Jitianu, Petru Budrugaec**, *Kinetic parameters determination in non-isothermal conditions for a silica-soda-lead glass*, **Journal of Thermal Analysis and Calorimetry**, **86 (2) (2006) 429-436**.
- 113. Magdalena Ivan, Petru Budrugaec**, Maria Giurginca, *Implementarea duratei de viata a încaltamintei cu ajutorul unei metode de stimulare a comportarii acesteia în diverse conditii de mediu – Partea a II-a*, **Revista de Pielarie si Incaltaminte**, 2006.
- 114. Andrei Rotaru, Anca Moanta, Ion Sălăgeanu, P. Budrugaec**, E. Segal, *THERMAL DECOMPOSITION KINETICS OF SOME AROMATIC AZOMONOETHERS. I. Decomposition of 4-[(4-chlorobenzyl)oxy]-4'-nitro-azobenzene*, **Journal of Thermal Analysis and Calorimetry**, **87 (2) (2007) 395-400**
- 115. A. Ianculescu, A. Brăileanu, M. Crișan, P. Budrugaec**, N. Drăgan, G. Voicu, D. Crișan, V. E. Marinescu, *Influence of barium source on the characteristics of BaTiO₃ powders and related ceramics prepared by sol-gel method*, **Journal of Thermal Analysis and Calorimetry**, **88 (1) (2007) 251-257**
- 116. L. Patron, P. Budrugaec**, A. Balu, Oana Carp, L. Diamandescu, M. Feder, *Thermal analysis of some polynuclear coordination compounds*, **Journal of Thermal Analysis and Calorimetry**, **88 (1) (2007) 273-277**
- 117. P. Budrugaec**, V. Mușat and E. Segal, *Non-isothermal kinetic study of the decomposition of ZnAcetate-based sol-gel precursor. II. The application of IKP method*, **Journal of Thermal Analysis and Calorimetry**, **88(3) (2007) 699-702**.
- 118. P. Budrugaec**, L. Miu, M. Souckova, *Use of thermal analysis methods and scanning electron microscopy to asses the damage in the patrimonial books from Romanian libraries*, **Journal of Thermal Analysis and Calorimetry**, **88 (3) (2007) 693-699**.
- 119. P. Budrugaec**, E. Segal, *Applicability of the Kissinger equation in thermal analysis: revisited*, **Journal of Thermal Analysis and Calorimetry**, **88 (3) (2007) 703-707**.
- 120. P. Budrugaec**, *The Kissinger law and the IKP method for evaluating the non-isothermal kinetic parameters*, **Journal of Thermal Analysis and Calorimetry**, **89 (1) (2007) 143-151**.
- 121. V. Mușat, P. Budrugaec**, R. Monteiro, E. Fortunato and E. Segal, *Non-isothermal kinetic study of the decomposition of ZnAcetate-based sol-gel precursor. I. The application of isoconversional methods*, **Journal of Thermal Analysis and Calorimetry**, **89 (2) (2007) 505 – 509**.
- 122. Elena Badea**, Lucreția Miu, **Petru Budrugaec**, Maria Giurginca, Admir Mašić, Nicoleta Badea, Giuseppe Della Gatta, *Study of deterioration of historical parchments by various thermal analysis techniques, complemented by SEM, FTIR, UV-VIS-NIR and unilateral NMR investigations*, **Journal of Thermal Analysis and Calorimetry**, **91(1) (2008) 17-27**.
- 123. G. Hristea, P. Budrugaec**, *Characterization of exfoliated graphite for heavy oil sorption*, **Journal of Thermal Analysis and Calorimetry**, **91(3) (2008) 817-823**.
- 124. P. Budrugaec**, Carmen Racles, Vasile Cozan, Maria Cazacu, *Thermal and thermo-oxidative stabilities of some poly(siloxane-azomethine)s*, **Journal of Thermal Analysis and Calorimetry**, **92 (1) (2008) 263-269**.
- 125. P. Budrugaec**, *Kinetic of the complex process of thermo-oxidative degradation of poly(vinyl alcohol)*, **Journal of Thermal Analysis and Calorimetry**, **92(1) (2008) 291-296**.
- 126. C. Popescu, P. Budrugaec**, F.-J. Wortmann, L. Miu, D. E. Demco, M. Baias, *Assessment of collagen-based materials that are supports of cultural and historical objects*, **Polymer Degradation and Stability**, **93(5) (2008) 976-982**.
- 127. P. Budrugaec**, L. Miu, *The suitability of DSC method for damage assessment and certification of historical leathers and parchments*, **Journal of Cultural Heritage**, **9 (2) (2008) 146-153**.
- 128. P. Budrugaec**, E. Segal, *Application of isoconversional and multivariate non-linear regression methods for evaluation of the mechanism and kinetic parameters of an epoxy resin*, **Polymer Degradation and Stability**, **93 (6) (2008) 1073-1080**.
- 129. M. Lungu, S. Gavrilu, S. Nitu, T. Canta, D. Sin, P. Budrugaec**, D. Patroi, *New Ag-SnO₂-MeO ecological advanced materials for electrical contacts used in electromagnetic contactors*, **Journal of Optoelectronics and Advanced Materials**, **10 (5) (2008) 1064-1068**.
- 130. Angelica Vlad, Maria Cazacu, Grigore Munteanu, Anton Airinei, Petru Budrugaec**, *Polyazomethines Derived From Polynuclear Dihydroxyquinones and Siloxane Diamines*, **European Polymer Journal**, **44 (2008) 2668-2677**.
- 131. J. Lingvay, P. Budrugaec**, *Studies about ageing of polyethylene insulating layers. II. The environmental impact on the ageing of PE insulating layer*, **Korróziós figyelő**, **XLVIII (3) (2008) 45-50**.
- 132. M. Birzescu, M. Niculescu, R. Dumitru, P. Budrugaec**, E. Segal, *Copper (II) oxalate obtained through the reaction of 1,2-ethanediol with Cu(NO₃)₂·3H₂O*, **Journal of Thermal Analysis and Calorimetry**, **94(1) (2008) 297-303**.
- 133. P. Budrugaec**, Lucreția Miu, *The effect of accelerated thermal ageing on the thermal behaviour of the recently made parchments*, **Journal of Thermal Analysis and Calorimetry**, **94 (2) (2008) 335-342**.
- 134. V. Musat, P. Budrugaec**, C. Gheorghies, *Effect of reagents mixing on the thermal behaviour of sol-gel precursors for silica-based nanocomposite films*, **Journal of Thermal Analysis and Calorimetry**, **94 (2) (2008) 373-377**.

135. M. Niculescu, M. Birzescu, Raluca Dumitru, E. Şişu, **P. Budrugaec**, *Co(II)-Ni(II) heteropolynuclear coordination compound obtained through the reaction of 1,2-propanediol with metallic nitrates as precursor for mixed oxide of spinel type $NiCo_2O_4$* , **Thermochimica Acta**, 493 (2009) 1 – 5.
136. **P. Budrugaec**, *Application of model-free and multivariate non-linear regression methods for evaluation of the thermo-oxidative endurance of a recent manufactured parchment*, **Journal of Thermal Analysis and Calorimetry**, **97** (2009) 443 – 451.
137. Lucreţia Miu, **Petru Budrugaec**, Maria Giurginca, Cristina Carsote, Ciprian Chelaru, Mihaela Vîlsan, *Tehnici moderne de investigare a gradului de degradare a pieilor de patrimoniu*, **Restitutio**, 2 (2009) 40-49.
138. A. Ianculescu, D. Berger, C. Matei, **P. Budrugaec**, L. Mitoseriu, E. Vasile, *Synthesis of $BaTiO_3$ by soft routes*, **Journal of Electroceramics**, 24 (2010) 46-50.
139. Maria Cazacu, Angelica Vlad, Mihaela Alexandru, **Petru Budrugaec**, Carmen Racles, Felicia Iacomî, *Polydimethyldiphenylsiloxanes/silica interconnected networks: preparation and properties evaluation*, **Polymer Bulletin**, 64 (2010) 421-434
140. **Petru Budrugaec**, Elena Badea, Giuseppe Della Gatta, Lucretia Miu, Alina Comănescu, *A DSC study of deterioration caused by environmental chemical pollutants to parchment, a collagen based material*, **Thermochimica Acta**, 500 (2010) 51-62
141. **P. Budrugaec**, *Theory and practice in the thermoanalytical kinetics of complex processes. Application for the isothermal and non-isothermal thermal degradation of HDPE*, **Thermochimica Acta**, 500 (2010) 30-37.
142. Andrei Cucos, **Petru Budrugaec**, *The suitability of DMA method for the characterization of recent and historical parchments and leathers*, **International Journal of Conservation Science**, 1 (1) (2010) 13-18.
143. Oana Carp, Luminita Patron, Daniela C. Culita, **Petru Budrugaec**, Marcel Feder, Lucian Diamandescu, *Thermal analysis of two types of dextran-coated magnetite*, **Journal of Thermal Analysis and Calorimetry**, 101 (2010) 181-187.
144. Victorya Plavan, Maria Giurginca, **Petru Budrugaec**, Mihaela Vâlsan, Lucreţia Miu, *Evaluation of the Physico – chemical Characteristics of Leather Samples of Some Historical Objects from Kiev*, **Revista de Chimie (Bucharest)**, 61 (7) (2010) 627-631.
145. **P. Budrugaec**, Ana Emandi, *The use of thermal analysis methods for conservation state determination of historical and/or cultural objects manufactured from lime-tree wood*, **Journal of Thermal Analysis and Calorimetry**, 101 (2010) 881-886.
146. **P. Budrugaec**, *An iterative model-free method to determine the activation energy of non-isothermal heterogeneous processes*, **Thermochimica Acta**, 511 (2010) 8-16.
147. Ana Emandi, **Petru Budrugaec**, Ioan Emandi, Ioana Stanculescu, Paula Bugheanu, *The assesment of the decazed lime wood polymeric components by TG and FT-IR parameters correlation*, **International Journal of Conservation Science**, 1 (4) (2010) 211-218.
148. Maria Cazacu, Angela Vlad, Felicia Iacomî, **Petru Budrugaec**, Aurelia Ioanid, *Condensation Products of the Bifunctionalized Titanocene and Siloxane Derivatives*, **Mase Plastice**, 47 (2) (2010) 135-140.
149. Raluca Dumitru, Oana Carp, **P. Budrugaec**, E. Segal, *Thermal stability and nonisothermal decomposition kinetics of $[CoC_2O_4 \cdot 2.5H_2O]_n$* , **Journal of Thermal Analysis and Calorimetry**, 103 (2011) 591 – 596.
150. **P. Budrugaec**, *Critical considerations on the Augis and Bennett method for evaluating the crystallization activation energy by means of non-isothermal data*, **Journal of Non-Crystalline Solids**, 357 (2011) 1101 – 1105.
151. A. Cucos, **P. Budrugaec**, L. Miu, S. Mitrea, G. Sbarcea, *Dynamic mechanical analysis (DMA) of new and historical parchments and leathers: Correlations with DSC and XRD*, **Thermochimica Acta**, 516 (2011) 19-28.
152. **P. Budrugaec**, Andrei Cucos, Lucretia Miu, *The use of thermal analysis methods for authentication and conservation state determination of historical and/or cultural objects manufactured from leather*, **Journal of Thermal Analysis and Calorimetry**, 104 (2011) 439-450.
153. Elena Badea, Giuseppe Della Gatta, **Petru Budrugaec**, *Characterization and evaluation of the environmental impact on historical parchments by DSC*, **Journal of Thermal Analysis and Calorimetry**, 104 (2011) 495-506.
154. **P. Budrugaec**, *An iterative model-free method to determine the activation energy of heterogeneous processes under arbitrary temperature programs*, **Thermochimica Acta**, 523 (2011) 84-89.
155. M. Ignat, G. Hristea, **P. Budrugaec**, *Electrothermic carbon microactuator*, **Journal of Optoelectronics and Advanced Materials**, 13 (2011) 992 – 997.
156. A. Emandi, C. I. Vasiliu, **P. Budrugaec**, I. Stamatina, *Quantitative investigation of wood composition by integrated FT-IR and thermogravimetric methods*, (2011) **Cellulose Chemistry and Technology**, 45 (2011), 579-584.
157. M.G. Albu, V. Trandafir, D.M. Suflet, G.C. Chitanu, **P. Budrugaec**, I. Titorencu, *Biocomposites based on collagen and phosphorylated dextran for bone regeneration*, **Journal of Materials Research**, 27 (2012) 1086-1096.
158. Greta Patrinoiu, Madalina Tudose, Jose MariaCaldero n-Moreno, Ruxandra Birjega, **Petru Budrugaec**, Ramona Ene, Oana Carp, *A green chemical approach to the synthesis of photoluminescent ZnO hollow spheres with enhanced photocatalytic properties*, **Journal of Solid State Chemistry**, 186 (2012) 17–22.

159. Andrei Cucos, **Petru Budrugaec**, Sorina Mitrea, Carmen Hajdu, *The influence of sodium chloride on the melting temperature of collagen crystalline region in parchments*, **Journal of Thermal Analysis and Calorimetry**, 111 (2013) 467-473.
160. **Petru Budrugaec** *Dedication to the honor of Professor Eugen Segal on the occasion of his 80th birthday*, **Journal of Thermal Analysis and Calorimetry**, 112 (2013) 537-538.
161. **Petru Budrugaec**, Andrei Cucos, *Application of Kissinger, isoconversional and multivariate non-linear regression methods for evaluation of the mechanism and kinetic parameters of phase transitions of type I collagen*, **Thermochemica Acta**, 565 (2013) 241-252.
162. **P. Budrugaec**, *Applicability of non-isothermal model-free predictions for assessment of conversion vs. time curves for complex processes in isothermal and quasi-isothermal conditions*, **Thermochemica Acta**, 558 (2013) 67-73.
163. Mircea Niculescu, Dan Rosu, Ionut Ledeti, Marius Milea, **Petru Budrugaec**, *Thermal and spectroscopic studies of Ni(II)-Fe(III) heteropolynuclear coordination compound obtained through the reaction of 1,2-ethandiol with metallic nitrates*, **Revue Roumaine de Chimie**, 58 (2013) 543-552.
164. Mircea Niculescu, **Petru Budrugaec**, Ionut Ledeti, Vasile Pode, Mihail Birzescu, *Synthesis and characterization of the polynuclear coordination compound obtained through the reaction of 1,3-propanediol with $\text{Cu}(\text{NO}_3)_2 \cdot 3 \text{H}_2\text{O}$* , **Revue Roumaine de Chimie**, 58 (2013) 387-392.
165. Mircea Niculescu, **Petru Budrugaec**, *Structural characterization of nickel oxide obtained by thermal decomposition of polynuclear coordination compound $[\text{Ni}_2(\text{OH})_2(\text{H}_3\text{CCH}(\text{OH})\text{COO}^-)_2(\text{H}_2\text{O})_2 \cdot 0.5\text{H}_2\text{O}]_n$* , **Revue Roumaine de Chimie**, 58 (2013) 381-386.
166. **Petru Budrugaec**, *Thermokinetic study of the thermo-oxidative degradation of an composite epoxy resin material*, **Revue Roumaine de Chimie**, 58 (2013) 371-379.
167. Oana Carp, **Petru Budrugaec**, *Obituary. In memoriam Professor Eugen Segal (1933–2013)*, **Journal of Thermal Analysis and Calorimetry**, 115 (2014) 973-974.
168. Mihaela Badea, **Petru Budrugaec**, Andrei Cucos, Eugen Segal, *Thermal decomposition kinetics of bis(pyridine)manganese(II) chloride*, **Journal of Thermal Analysis and Calorimetry**, 115 (2014) 1999-2005.
169. Andrei Cucos, **Petru Budrugaec**, *Simultaneous TG/DTG–DSC–FTIR characterization of collagen in inert and oxidative atmospheres*, **Journal of Thermal Analysis and Calorimetry**, 115 (2014) 2079-2087.
170. Andrei Cucos, **Petru Budrugaec**, Lucretia Miu, *DMA and DSC studies of accelerated aged parchment and vegetable-tanned leather samples*, **Thermochemica Acta**, 583 (2014) 86-93.
171. **P. Budrugaec**, A. Cucos, L. Miu, *Use of thermal analysis methods to assess the damage in the bookbindings of some religious books from XVIII century, stored in Romanian libraries*, **Journal of Thermal Analysis and Calorimetry**, 116 (2014) 141-149.
172. Oana Cătălina Mocioiu, Maria Zaharescu, Irina Atkinson, Ana-Maria Mocioiu, **Petru Budrugaec**, *Study of crystallization process of soda lead silicate glasses by thermal and spectroscopic methods*, **Journal of Thermal Analysis and Calorimetry**, 117 (2014) 131-139.
173. Cristina Carșote, **Petru Budrugaec**, Roumiana Decheva, Nikifor Stefanov Haralampiev, Lucretia Miu, Elena Badea, *Characterization of Byzantine manuscript by infrared spectroscopy and thermal analysis*, **Revue Roumaine de Chimie**, 56 (2014) 429-436.
174. **Petru Budrugaec**, *Phase transitions of a parchment manufactured from deer leather: A calorimetric and kinetic analysis*, **Journal of Thermal Analysis and Calorimetry**, 120 (2015) 103–112.
175. **Petru Budrugaec**, Andrei Cucos, *Damage Assessment and Certification of Historical Leathers and Parchments*, **ONSET**, 14 (1) (2015) 14-16.
176. Lingvay Iosif, **Petru Budrugaec**, Elena Radu, Mădălina Marinescu, *Esterii vegetali: alternativă pentru înlocuirea uleiurilor minerale de uz electrotehnic*, **EEA, Electrotehnică, Electronică, Automatică**, 63 (1) (2015) 64-70.
177. **Petru Budrugaec**, *Applicability of some approximations of the temperature integral used for heating processes to processes taking place on cooling*, **Journal of Thermal Analysis and Calorimetry**, 124 (2016) 479–485.
178. Mircea Niculescu, Viorel Sasca, Cornelia Muntean, Marius-Silviu Milea, Dan Ros, Mihai-Cosmin Pascariue., Eugen Sisu, Ioan Ursoiu, Vasile Pode, **Petru Budrugaec**, *Thermal behavior studies of the homopolynuclear coordination compound iron(III) polyoxalate*, **Thermochemica Acta**, 623 (2016) 36-42.
179. **Petru Budrugaec**, Cristina Carsote, Lucretia Miu, *Application of thermal analysis methods for damage assessment of leather in an old military coat belonging to the History Museum of Brasov—Romania*, **Journal of Thermal Analysis and Calorimetry**, 127 (2017) 765-772.

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ANEXA 2

LISTA CARTILOR SI CAPITOLELOR DIN CARTI PUBLICATE

1. **P. Budrugeac** , *Probleme de chimie* , Editura Academiei Române , București , 1986. (cartea a fost tradusă în limba rusă și a apărut la **Editura MIR – Moscova** , în anul 1989)
2. **P. Budrugeac**, M. Niculescu , *Exerciții și probleme de chimie (în două volume)*, Editura de Vest , Timișoara , 1993 – 1994, .ISBN 973-36-0120-9; 973-36-0226-4
3. G. Mares, **P. Budrugeac** , Ch. X. *Thermal and Oxidative Stability of Ethylene- Propylene Rubber* , in **Elastomer Technology Handbook** , Edited by Nicholas P. Cheremisinoff , CRC Press , Boca Raton , Ann Arbor , London , Tokyo , 1993 .
4. **P. Budrugeac**, M. Niculescu , *Chimie pentru concursuri* , EUROBIT , Timișoara, 1993 .ISBN 973-96065-4-7
5. M. Niculescu și **P. Budrugeac**, *Probleme și teste de chimie*, Editura Inter. All, Târgu Jiu, 1996, ISBN 973-96201-6-7
6. **P. Budrugeac** , *Teste de chimie organică și anorganică* , Editura Fast Print , București , 1998. ISBN 973-97405-3-4
7. **P. Budrugeac**, Cap. IV.3. *Analiza termică a pieilor și pergamentelor provenite din obiecte de patrimoniu*, în **Obiecte de patrimoniu din piele și pergament**, Editor-coordonator Lucreția Miu, Editura CERTEX București, 2004, ISBN 973-730-132-3.
8. Lucreția Miu, Maria Giurginca, **Petru Budrugeac**, Cristina Carsote, Elena Badea, *Documente medievale pe pergament. Evaluare și investigare*, Editura CERTEX , București, 2007, ISBN 978-973-1716-29-9
9. **P. Budrugeac**, *Analize TG/DTG, DTA și DSC a pieilor de patrimoniu din mormântul hanului Hagi Gherai*, in “Mormantul hanului Hagi Gherai” (în limba rusă) (Ed. N. A.Gavriliuk, A. M. Ibraghimova) , Kiev-Zaporojie, 2010, ISBN 978-966-2994-34-6, p.111-117.
10. Eugen Segal, **Petru Budrugeac**, Oana Carp, Nicolae Doca, Crișan Popescu, Titus Vlase, *Analiza termică. Fundamente și aplicații. Analiza cinetică a transformărilor heterogene*, Editura Academiei Române, București, 2013, ISBN 978-973-27-2281-7

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ANEXA 3

**LISTA LUCRĂRILOR COMUNICATE LA CONFERINTE SI SIMPOZIOANE
INTERNATIONALE**

Al III-lea microsimezion CAER pe tema “Adsorbție și cataliză pe metale “ (București 1978)

P. Budrugaec și M. Vass , *Calorimetric studies of oxygen adsorption and interaction with CO and CO₂ on powdered silver .*

V-th International Conference on Heterogeneous Catalysis (Varna 1979)

P. Budrugaec , *Surface stress – surface tension and mechanical properties of gas – solid interface .*

Al IV-lea microsimezion al participanților la cooperarea multilaterală al academiilor țărilor socialiste (Novosibirsk 1982)

M. Vass și **P. Budrugaec** , *Evaluation of heats of adsorption of oxygen on I-b group metals .*

G. Med. CAT’95, Giornate Mediterranee di Calorimetria ed Analisi Termica , Chia Laguna-Domus de Marci (Cagliari) sept. 12 – 16 , 1995

P. Budrugaec , A. L. Petre și E. Segal , *Some problems concerning the evaluation of nonisothermal kinetic parameters of solid-gas decompositions from thermogravimetric data.*

International Conference on Advanced in the Stabilization and Degradation of Polymers , Lutzer, Elvetia , 19 – 21 June 1996

P. Budrugaec , *Accelerated thermal aging of NBR and other materials under air or oxygen pressure*

The 11-th Congress on Thermal Analysis and Calorimetry , Philadelphia , PA, USA , August 12 – 16 , 1996 .

P. Budrugaec și E. Segal , *The effect of oxygen pressure on the kinetics of thermooxidative degradation of an unsaturated polyester resin .*

Travaux du premier atelier scientifique franco-canadien-roumain . Matériaux pour le électrotechnique , Bucuresti , 9 – 11 Juin , 1997

P. Budrugaec , *Accelerated thermal aging of the polymeric electroinsulating materials under oxygen or air pressure .*

7th European Symposium on Thermal Analysis and Calorimetry (Balatonfüred , Ungaria 1998)

a. P. Budrugaec și E. Segal , *On the apparent compensation effect due to the approximation of the rate equation of a complex process to the rate equation of an overall single process .*

b. A. L. Petre , P. Budrugaec și E. Segal , *Thermal and thermooxidative degradation of polyvinyl chloride .*

Deuxieme ATELIER SCIENTIFIQUE Franco-Canadien- Roumain, Bucarest, Romania , 17 – 19 Mai 1999

a. M. D. Chipara, P. Notingher, C. Morosanu, M. I. Chipara, L. Georgescu, P. Budrugaec, J. Reyes Romero și B. Negreanu, Laser Induced Modifications in PET

b. P. Budrugaec, The application of the thermogravimetric analysis (TGA) and the differential thermoanalysis (DTA) for rapid thermal endurance testing of electrical insulating materials

The 11th Romanian International Conference on Chemistry and Chemical Engineering, Bucuresti, 1999, 30 septembrie – 2 octombrie

P. Budrugaec și E. Segal, *Activation parameters depending on the degree of conversion*

ICTAC – 12 th International Congress on Thermal Analysis and Calorimetry (August 14 – 18, 2000, Copenhagen, Denmark)

a. C. Popescu, E. Segal și P. Budrugaec, Critical considerations on some methods to determine kinetic parameters from non-isothermal data

b. P. Budrugaec, E. Segal și C. Popescu, Change of the apparent reaction order with temperature as a consequence of reaction mechanism

XXVI IULTC Congress – Cape Town, South Africa, 7th –14th March 2001

V. Trandafir, H. Akutsu, L. Albu, B. G. Albu și P. Budrugaec, The evidence of collagen polypeptides sequences responsible for hydration degree

3th International Workshop: MATERIALS FOR ELECTROTECHNICS, Bucharest, Romania May 21 –23, 2001.

a. R. Setnescu, S. Jipa, M. Dumitru, T. Zaharescu, **P. Budrugaec**, P. V. Notingher, F. Ciuprina, I. Mihalcea, T. Setnescu, G. Mares, G. Marin, V. Popescu, I. Ciobanu, V. Baladica, *Correlation of chemiluminescence with other techniques in characterization of the degradation of polyethylene subjected to various stress factors*

b. **P. Budrugaec**, *Thermal degradation of glass reinforced epoxy resin and polychloroprene rubber: the correlation of kinetic parameters of isothermal accelerated ageing with those obtained from non-isothermal data*

29th Aachen Textile Conference, Aachen (Germany) 27 – 28 November 2002

P. Budrugaec, L. Miu, C. Popescu și F. J. Wortmann, *Investigating patrimonial leather and parchment objects by thermal analysis*

30th Aachen Textile Conference Aachen-Germany, 2003

C. Popescu, **P. Budrugaec**, L. Miu, Cornelia Iditoiu, F. J. Wortmann, *Thermal analysis of patrimonial leather objects*

NATAS 2003 - North American Thermal Analysis Society 2003 Conference, SPRING/SUMMER 2003 VOL. 35 NO. 1 & 2

a. Popescu, C.; **Budrugaec, P.**; Wortmann, F.-J., *Investigating Patrimonial Leather and Parchment Objects by Thermal Analysis*

b. Popescu, C.; Wortmann, F.-J.; de Klerk, W.; **Budrugaec, P.**, *Life-Time Prediction: Can We Foresee Everything?*

ICOM 93, Atena 2004-05-02

Lucretia Miu, Carmen Gaidau, Victoria Bratulescu, Viorica Deselnicu, **Petru Budrugaec**, Aurelia Meghea, Rodica Antonescu, Alexandrina Olariu, Roxana Diaconu, Ion Neacșu și Doina Seclaman , *Research on old and new leathers for patrimony objects restauration*

4th International Workshop: MATERIALS FOR ELECTROTECHNICS, Bucharest, Romania May 26 –28, 2004.

M. Marcuta, P. Budrugaec și T. Zaharescu , Gh. Marin, *Characterization of a polymeric material based on EVA processed with accelerated electron beams*

The 9th ICOM-CC – WOAM Conference, Copenhagen, 6th – 11th June 2004

Lucretia Miu, Carmen Gaidau, Victoria Bratulescu, **Petru Budrugaec**, Aurelia Meghea, Maria Giurginca, Adriana Ioniuc și Maria Geba, *Physical-Chemical Investigation of some Archeological Leathers from Romanian Sites*

8th European Symposium on Polymer Blends, Eurofillers 2005, May 9-12, 2005, Bruges/Belgium.

Ionescu Florica, Alexandrescu Laura, Moldovan Zenovia și **Budrugaec Petre**, *Polymer blends based on ethylenevinylacetate crosslinked dinamically in the presence of polyvinylchloride*

9th European Symposium on Thermal Analysis and Calorimetry – ESTAC'9, August 2006, Krakow, Poland

a. **P. Budrugaec**, E. Segal *Applicability of the Kissinger equation in thermal analysis: revisited*

b. **P. Budrugaec**, L. Miu, M. Soukova, *Use of thermal analysis methods and scanning electron microscopy to asses the damage in the patrimonial books from Romanian libraries*

c, **P. Budrugaec**, V. Musat, E. Segal, *Non-isothermal kinetic study of the decomposition of Zn acetate-based sol-gel precursor. II. Aplication of IKP method*

d. A. Balu, L. Patron, **P. Budrugaec**, L. Diamandescu, O. Carp, *Polynuclear coordination compounds containing as ligand tartaric anions, precursors of LnFeO₃ perovskites (Ln = La⁺³, Pr⁺³, Nd⁺³, Gd⁺³ and Eu⁺³)*

International Conference of Physical Chemistry – ROMPHYSCHEM-12, Bucuresti, 2006

P. Budrugaec, E. Segal, *Applicability of the Kissinger equation in thermal analysis: revisited*

XXVIII National Conference on Thermal Analysis and Calorimetry, 11-15 Decembre 2006, Milan, Italy

Elena Badea, Lucreția Miu, **Petru Budrugaec**, Maria Giurginca, Admir Mašić, Giuseppe Della Gatta, *Damage assessment of historical parchments by DSC and thermal analysis, complemented by SEM, FTIR, UV-VIS-NIR and unilateral RMN*

7-th European Conference “SAUVEUR” Safeguarded Cultural Heritage, Prague, 31st May- 3rd June 2006

Lucretia Miu, **Petru Budrugaec**, maria Giurginca, Aurelia Meghea, Nicoleta Badea, Carmen Gaidau, Doina Seclaman, Use of thermal, spectral and scanning electron microscopy methods to assess the damage of Romanian heritage leather and parchments objects

41st IUPAC World Chemistry Congree, Chemistry Protecting Health, Natural Environment and Cultural Heritage, 2007 Edizioni MAF Servizi-Torino-Italy, Turin (Italy), August 5-11, 2007

L. Miu, **P. Budrugaec**, C. Gaidău, A. Kuryshcheva, E. Badea, G. Della Gatta, *Age-related stability of old leather*

MEDICTA 2007, The 8-th Mediterranean Conference on Calorimetry and Thermal Analysis, Palermo, 25 – 28 septembrie 2007

P. Budrugaec, Carmen Racles, Vasile Cozan, Maria Cazacu, *Thermal and thermo-oxidative stabilities of some poly(siloxane-azomethine)s*

P. Budrugaec, *Kinetic of the complex process of thermo-oxidative degradation of poly (vinyl alcohol)*

14th International Congress on Thermal Analysis and Calorimetry, São Pedro – Brazil, 14-18 September 2008

a. P. Budrugaec, *On the application of isoconversional and multivariate non-linear methods for evaluation of the mechanism and kinetic parameters for complex processes*

b. P. Budrugaec, *Application of model-free and multivariate non-linear methods for evaluation of the thermo-oxidative endurance of a recent manufactured parchment*

DHA 27 Meeting of Dyes in History and Archeology Istanbul 8-11 october 2008

a. Ana Emandi, Ioan Stamatina, Petru Budrugaec, Gheorghe Niculescu, *Integrated Methods on Studying Wood Support Weathering of Some Sacral Oil Paints from Stelea-Targoviste Church*

The 2-nd International Conference on Advanced materials and Systems-ICAMS-2008. Bucharest 23-24 October 2008

a. E. Badea, L. Miu, P. Budrugaec, M. Giurginca, G. Della Gatta, *Damage assessment of parchments. I. An innovative multidisciplinary approach*

b. E. Badea, L. Miu, P. Budrugaec, M. Giurginca, G. Della Gatta, *Damage assessment of parchments. II. Evaluation of historical parchments*

c. L. Miu, M. Giurginca, P. Budrugaec, *Study of deterioration of Romanian historical parchments by thermal analysis, FTIR, UV-VIS-NIR investigation techniques*

International Seminar and Workshop “Conservation and Restoration of Parchments (CRP2008)”, Torino, 2008.

P. Budrugaec, Elena Badea, G. Della Gatta, Lucretia Miu, Alina Comanescu, V. Marinescu, *DSC study of deterioration of parchment exposed to gaseous chemical pollutants (SO₂, NO_x)*

TECHNART 2009-Non-destructive and Microanalytical Techniques in Art and Cultural Heritage, Athens, 27 - 30 April 2009

E. Badea, L. Miu, **P. Budrugaec**, M. Saczuki, G. Della Gatta, *Thermal stability of parchments by MHT: a reliable method for grading deterioration of archival fonds*

E-MRS European Materials Research Science Strasbourg 08-16.06.2009

a. Ana Emandi, Ioan Stamatina, Petru Budrugaec, *Integrated thermal and spectroscopic methods in structural characterization of early and old wood*

b. Ana Emandi, Ioan Stamatina, Petru Budrugaec, *Investigation of different species of archaeological wood by FT-Raman, FTIR, FTIR-ATR techniques*

c. Ana Emandi, Ioan Stamatina, Petru Budrugaec, *Spectroscopic properties of early wood species involved in wooden artifacts*

III^D International Scientific-Practical Conference – devoted to 80-anniversary department of leather and fur technology „Modern Eco-Friendly Technologies for the Leather and Fur Manufacturing”, Kiev, 27-28 April 2010

Lucreția Miu, Petru Budrugaec, Maria Giurginca, Vyctoria Plavan, Carmen Gaidău, Aliye Ibrahimova, *Physical chemical methods for characterization of archaeological leather*

2010 南京国际热分析动力学论坛, 2010 Nanjing International Thermal Analysis Kinetics Forum, 13-14-September 2010

a. **P. Budrugaec**, *General algorithm for evaluation of the kinetic parameters from non-isothermal data*

b. **P. Budrugaec**, *Kinetics of isothermal and non-isothermal decompositions in heterogeneous solid-gas system*

„Nanjing Young University” - China – conferinta invitata, 15-September 2010

P. Budrugaec, *General algorithm for evaluation of the kinetic parameters from non-isothermal data*

„Yangzhou University” - China – conferinta invitata, 16-September 2010

P. Budrugaec, *General algorithm for evaluation of the kinetic parameters from non-isothermal data*

THE 3rd INTERNATIONAL CONFERENCE ON ADVANCED MATERIALS AND SYSTEMS, Bucharest, ROMANIA, September 16th – 18th, 2010, INCDTP – ICPI ROMANIA

Andrei Cucos, **Petru Budrugaec**, Lucretia Miu, *Dynamic mechanical behaviour of new and historical parchments and leathers*

7th International Conference of Chemical Societies from South-East European Countries on “Chemistry – Beauty and Application” , Bucharest, 15-17 September 2010

Bernadeth Pataki, **Petru Budrugaec**, Emil Indrea, Iosif Lingvay, Gindele Robert, Ioan Bratu, Erzsebet Veress, THERMOANALYTICAL AND SPECTROSCOPIC STUDY OF ANCIENT CERAMIC SHARDS FROM TĂȘNAD, SATU MARE COUNTY, ROMANIA

1st Central and Eastern European Conference on Thermal Analysis and Calorimetry - 1st CEEC-TAC 7-10 septembrie 2011

a. **P. Budrugaec**, *Isoconversional kinetics*

b. **P. Budrugaec**, A. Cucos, L. Miu, *Thermal analysis techniques applied to the study of some Romanian cultural and historical objects manufactured from collagen-based materials*

ICAMS 2012-4th. International Conference on Advanced Materials and Systems, Bucharest, septembrie 2012

ELENA BADEA, CRISTINA CARȘOTE, WILFRIED VETTER, IRINA PETROVICIU, LUCREȚIA MIU, MANFRED SCHREINER, **PETRU BUDRUGAEC**, GIUSEPPE DELLA GATTA, *HOW PARCHMENT RESPONDS TO TEMPERATURE AND RELATIVE HUMIDITY: A COMBINED MICRO DSC, MHT, SEM AND ATR-FTIR STUDY*

The 11th Conference on Calorimetry and Thermal Analysis (CCTA 11), Zakopane – Polonia, septembrie 2012

a. **Petru Budrugaec**, Andrei Cucos, *Non-isothermal kinetics of denaturation and melting of crystalline phase of collagen, and of new and old parchments*

b. Andrei Cucos, **Petru Budrugaec**, *Investigations of thermal denaturation and melting of crystalline phase of collagen*

“The 11th Mediterranean Conference on Calorimetry and Thermal Analysis” MEDICTA 2013, Atena, iulie 2013

a. **Petru Budrugaec**, Andrei Cucos, Lucretia Miu, *Use of thermal analysis methods to asses the damage in the bookbindings of some Romanian religious books from XVIII century*

b. Andrei Cucos, **Petru Budrugaec**, Lucretia Miu, *Accelerating ageing effects on denaturation and softening behavior of parchments*

“Central and Eastern European Conference on Thermal Analysis and Calorimetry (CEEC-TAC2)”, Vilnius, 2013 Cristina Carșote, **Petru Budrugaec**, Roumiana Decheva , Nikifor Stefanov Haralampiev , Elena Badea, Lucretia Miu, *Characterization of a Byzantine manuscript by DSC, thermal microscopy and FTIR*

ROMPHYSICHEM-15, Bucuresti, septembrie 2013

a. **P. Budrugaec**, *Some actual problems in theory and practice in thermal analysis kinetics*

b. M. Badea, **P. Budrugaec**, E. Segal, A. Cucos, *Thermal decomposition kinetics of bis(pyridine)manganese(II) chloride*

“Chemistry for Cultural Heritage”(ChemCH 2014), Viena, iulie 2014

Cristina Carsote, Elena Badea, Lucretia Miu, Giuseppe Della Gatta, **Petru Budrugeac**, *Differential Scanning Calorimetry for quantifying damage in artificial aged leather*

The 11th European Symposium on Thermal Analysis and Calorimetry, Helsinki, august 2014

Petru Budrugeac, Phase transitions of a parchment manufactured from deer leather: A calorimetric and kinetic analysis

European Chemistry Congress - 5th EuCheMS August 31 - September 4, Istanbul 2014

Cristina Carsote, Elena Badea, Fatih Yalçın, Hüseyin Ata Karavana, **Petru Budrugeac**, Lucretia Miu, Damage assessment of vegetable-tanned leather artefacts by thermal microscopy and differential scanning calorimetry

XII Congresso Nazionale IGIIC – Lo Stato dell’Arte – Accademia Di Belle Arti di Brera – Milano 23/24 ottobre 2014

Elena Badea, Lucretia Miu, Cristina Carsote, Irina Petroviciu, Rosetta Granziero, Silvia Perona, Veronique Cachia, Battista Pittari, Cecilia Laurora, Giuseppe Della Gatta, Andrei Cucos, **Petru Budrugeac**, Alessandro Vitale Brovarone, VALIDAZIONE DI INTERVENTI DI RECUPERO CONSERVATIVO DI MANUFATTI IN PERGAMENA

Chemistry for Cultural Heritage”(ChemCH 2014), Viena, iulie 2014

Cristina Carsote, Elena Badea, Lucretia Miu, Giuseppe Della Gatta, **Petru Budrugeac**, Differential Scanning Calorimetry for quantifying damage in artificial aged leather

ICAMS 2014 – 5th International Conference on Advanced Materials and Systems, București, octombrie 2014

a. Cristina Carșote, **Petru Budrugeac**, Lucreția Miu, Hüseyin Ata Karavana, Elena Badea, Study of the environmental impact on vegetable tanned leather by thermal analysis

b. Wuyong Chen, Yanping Gao, Gong Ying, Madalina Ignat, Lucretia Miu, **Petru Budrugeac**, Testing of leather artificially aged in acid rain

“3rd International Leather Engineering Congress” (IAFLI 2015), Izmir, Turcia, 2015

Petru Budrugeac, Cristina Carsote, Andrei Cucos, Elena Badea, Applications of Thermal Analysis Methods in the Investigation of Cultural and Historical Objects Manufactured from Leather

3rd Central and Eastern European Conference on Thermal Analysis and Calorimetry (CEEC-TAC3), Liubliana, Slovenia, 2015

a. **Petru Budrugeac**, Cristina Carșote, Lucreția Miu, Application of thermal analysis methods for damage assessment of leather in an old military coat belonging to History Museum of Brașov – Romania

b. **Petru Budrugeac** The validity of non-isothermal model-free predictions methods for assessment of conversion vs. time curves for decomposition of calcium carbonate under quasi-isothermal conditions

International Conference of Physical Chemistry – ROMPHYSICHEM 16th edition, September 21-24, 2016, Galați, Romania

Petru Budrugeac, Phase transitions of a parchment: A calorimetric and kinetic analysis

18.01. 2017

Dr. P. Budrugeac