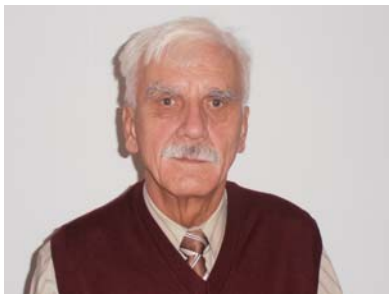
Curriculum vitae Europass



Personal information

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E-mail(s)	zaharescu@icle-ca.ro; traian_zaharescu@yahoo.com
Nationality	Romanian
Data of birth	09.03.1942
Sex	Male

Place of work / Activity range

Senior researcher, radiation chemistry of materials

Professional experience

Period	From May 2001 up to present time
Position	Senior researcher
Main activities and duties	Modification induced by high energy radiation in polymers, inorganic dosimeters, in material stabilization. Education
Name and address of unity	INCDIE ICPE CA, 313 Splaiul Unirii, District 3, Bucharest, Romania
Type of activities	Radiation chemistry. Education
Period	From December 1990 till May 2001
Position	Senior researcher
Main activities and duties	Modification induced by high energy radiation in polymers, inorganic dosimeters, in material stabilization
Name and address of unity	ICPE SA, 313 Splaiul Unirii, District 3, Bucharest, Romania
Type of activities	Radiation chemistry
Period	From Aprilie 1985 till December 1990
Position	Senior researcher
Main activities and duties	Design and testing of materials for electrical turbines
Name and address of unity	ICSITEE, 20-30 Berceni Av., District 3, Bucharest, Romania
Type of activities	Chemistry of electrical insulation materials
Period	From May 1980 till Aprilie 1985
Position	Chemist
Main activities and duties	Lab analysis of materials for aircraft manufacture
Name and address of unity	ROMAERO, 14 Ficusului, District 1, Bucharest, Romania
Type of activities	Analytical chemistry, organic chemistry

Period	From Aprilie 1979 till May 1980
Position	Chemist
Main activities and duties	Metallic alloys analysis
Name and address of unity	Heavy Engine Enterprise, 20-30 Berceni Av., District 3, Bucharest, Romania
Type of activities	Analytical chemistry
Period	From March 1971 till Aprilie 1979
Position	Senior researcher
Main activities and duties	Qualification of fuel elements for nuclear power stations
Name and address of unity	ICN, Mioveni, Arges, Romania
Type of activities	Nuclear chemistry
Period	From March 1975 till February 1976
Position	Fellow
Main activities and duties	Examination of irrdaiated fuel elements
Name and address of unity	SCN Mol, Belgium
Type of activities	Nuclear chemistry
Period	From September 1965 till March 1975
Position	Chemist
Main activities and duties	Radiation chemistry
Name and address of unity	IFA, Magurele, Romania
Type of activities	Radiation chemistry

Education

Period	From September 1996 till Aprilie 2000
Qualification / diploma	Doctor in scences
Main studied ranges/ professional competences	Irradiation of polymers, Termodynamics of polymers, Chemical kinetics, Nuclear Chemistry, Nuclear Physics
Name of institution / Qualification level	University of Bucharest, Faculty of Chemistry International qualification (IAEA)
Period	From September 1960 till June 1965
Qualification / diploma	Bachelor in radiation chemistry
Main studied ranges/ professional competences	Irradiation of polymers, Termodynamics of polymers, Chemical kinetics, Nuclear Chemistry, Nuclear Physics
Name of institution / Qualification level	University of Bucharest, Faculty of Chemistry National qualification
Period	From September 1956 till June 1960
Qualification / diploma	Graduation diploma
Main studied ranges/ professional competences	General knowledge
Name of institution / Qualification level	„Gh. Lazar" College, Bucharest, Roamnia National qualification
Period	From September 1949 till June 1965
Qualification / diploma	Graduation diploma
Main studied ranges/ professional competences	General knowledge
Name of institution / Qualification level	Primary school, Bucharest, Romania National qualification

Personal skills and competences

Mother tongue: Romanian

Other languages: English, French

Selfqualification	Understanding				Speaking				Writing	
Nivel european (*)	Leasening		Reading		Conversation		Oral speach		Writing skill	
Language	C2	English	C2	English	C2	English	C2	English	C2	English
Language	C1	French	B2	French	B2	French	B2	French	B1	French

(*) Nivelul Cadrului European Comun de Referinţă Pentru Limbi Străine

Social competences and skill: Obtained from long activity, education and during the direct contacts with foreign experts

Organizing competences and skill: Obtained from different jobs contacts with foreign experts

Technial competences and skill: All these features were obtained during the research activity and the job in industry

Computer usage competences and skill: These aptidudes were gained during the preparation and editing of papers and books (Word™, Excel™ and PowerPoint™)

Permis(e) de conducere: My driving licence, type B, was obtained in 1975

Supplementary details: 350 papers, 1200 citations, 15 books, 170 participations at international scientific meetings, reviewer for Radiation Physics and Chemistry, Journal of Applied Polymer Science, Polymer Bulletin, Polymer, Polymer testing, Polymer Degradation and Stability, Chemistry Review; IAEA Expert in irradiation of polymers, member in the organizing committee of biannial conferences on Irradiation of Polymers (IRaP), director of two IAEA projects funded for industrial applicatios of polymer processing.
Skill ranges: radiation processing (polymerization, grafting, crosslinking, compatibilization, degradation) of all kinds of polymer materials (polyolefins, polyurethanes, polyesters, polycarbonates, polystyrene, biopolymers, nanocoposites), preparation of new materials by gamma irradiation, recycling of polymer wastes for ecological purposes, assessment of polymer material durability, certification of stabilization effects induced by several categories of antioxidants, modification of polymert materials for ecological compatibility, radiation treatments on the healthy materials for medicine and pharmacy applications.

July 21, 2020

PhD. Traian ZAHARESCU

Published papers in international journals

A1. ***T. Zaharescu***
Thermal degradation of ethylene-propylene rubbers
Polymer, **35**, 3795-3796 (1994).

A2. ***T. Zaharescu,*** N. Luca şi I. Mihalcea
Radiochemical behaviour of ethylene-propylene elastomers in salt solutions
Part I. SEM Investigation of Gamma Irradiation Effects
Balkan Physical Letters, **2 (Supplement)**, 23-27 (1994).

A3. ***T. Zaharescu*** şi L. Caramitu
Radiochemical behaviour of ethylene-propylene elastomers in salt solutions
Part II. Electrical Properties
Balkan Physical Letters, **2 (Supplement)**, 28-32 (1994).

A4. ***T. Zaharescu***, V. Meltzer şi R. Vîlcu

Radiochemical behaviour of ethylene-propylene elastomers in salt solutions
Part III. Specific heat capacity
Balkan Physical Letters, **2 (Supplement)**, 33-37 (1994).

A5. ***T. Zaharescu***, M. Giurginca şi I. Mihalcea
Effects of some antioxidants on the stability of ethylene-propylene elastomers
Polym. Degrad. Stabil., **48**, 151-154 (1995).

A6. ***T. Zaharescu*** şi I. Mihalcea
Behaviour of ethylene-propylene elastomers in salt solutions
Part I. SEM Investigations on gamma irradiation effects
Polym. Degrad. Stabil., **50**, 39-44 (1995).

A7. M. Giurginca, ***T. Zaharescu*** şi A. Meghea
Degradation of ethylene-propylene elastomers in the presence of ozone
Polym. Degrad. Stabil., **50**, 45-48 (1995).

A8. ***T. Zaharescu***
Degradation of ethylene-propylene copolymer in the presence of phenolic antioxidants
J. Mater. Sci. Lett., **14**, 923-925 (1995).

A9. ***T. Zaharescu***
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Polym. Testing, **15**, 69-74 (1996).

A10. ***T. Zaharescu***, M. Giurginca şi C. Postolache
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J. Appl. Polym. Sci., **59**, 969-974 (1996).

A11. ***T. Zaharescu***, L. Caramitu şi F. Iliescu
Influence of thermal ageing on electrical properties of ethylene-propylene elastomers
J. Mater. Sci. Lett., **15**, 871-873 (1996).

A12. ***T. Zaharescu***, V. Meltzer şi R. Vîlcu
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J. Mater. Sci. Lett., **15**, 1212-1215 (1996).

A13. ***T. Zaharescu***, V. Meltzer şi R. Vîlcu
Radiochemical behaviour of ethylene–propylene elastomers in salt solutions
Part II. Specific heat capacity
Polym. Degrad. Stabil., **55**, 135-140 (1997).

A14. ***T. Zaharescu*** şi I. Mihalcea
Radiochemical behaviour of ethylene-propylene elastomers in salt solutions
Part III. Gel content investigations
Polym. Degrad. Stabil., **55**, 265-268 (1997).

A15. ***T. Zaharescu*** şi S. Jipa
Evaluation of radiochemical effects in ethylene-propylene elastomers
Polym. Testing, **16**, 107-114 (1997).

A16. ***T. Zaharescu*** şi C. Podină
Radiochemical stability of butyl rubber
J. Mater. Sci. Lett., **16**, 761-762 (1997).

A17. ***T. Zaharescu***, S. Jipa şi R. Setnescu
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A18. ***T. Zaharescu***, S. Jipa şi C. Podină
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A19. ***T. Zaharescu***, C. Wurm şi C. Podină
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A20. ***T. Zaharescu*** şi C. Podină
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Part IV. Oxygen uptake testing
J. Radioanal. Nucl. Lett., **237**, 63-67 (1998).

A21. ***T. Zaharescu*** şi D. Oprea
Radiochemical behaviour of ethylene-propylene elastomers in salt solutions
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A22. ***T. Zaharescu***, R. Vîlcu, şi C. Podină
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A23. ***T. Zaharescu***, S. Jipa, M. Giurginca şi C. Podină
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A25. G. Ivan, M. Giurginca şi ***T. Zaharescu***
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A26. ***T. Zaharescu***, S. Jipa şi M. Giurginca
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Polym. Degrad. Stabil., **66**, 5-8 (1999).

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Polym. Degrad. Stabil., **68**, 159-164 (2000). Doi: 10.1016/S0141-3910(99)00180-9.

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A41. ***T. Zaharescu*** şi C. Podină
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A58. S. Jipa, ***T. Zaharescu***, R. Setnescu, T. Setnescu, M. Dumitru, L. M. Gorghiu, W. Kappel, B. Gigante, C. Santos şi I. Mihalcea
Chemiluminescence investigation on thermal degradation of several polyethylenes stabilized with fullerene
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A59. E. Grosu, M. Râpă, A. Tomescu, E. Nemeş, ***T. Zaharescu***, S. Jipa şi R. Setnescu
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Termooxidative destruction and radioprocessing of ethylene vinylacetate type elastomers
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A61 ***T. Zaharescu***, M. Kaci, G. Hebal, R. Setnescu, T. Setnescu, R. Khima, C. Remili şi S. Jipa
Thermal stability of gamma irradiated low density polyethylene films containing hindered amine stabilizers
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Chemiluminescence study on irradiated LDPE containing various photo-stabilizers
Polym. Degrad. Stabil., **84**, 475-481 (2004).

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A64 V. Dinoiu, L. M. Gorghiu, S. Jipa, ***T. Zaharescu***, R. Setnescu şi C. Dumitrescu
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LDPE protected by secondary amines of dehydroabietic methyl ester derivatives
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Polym. Degrad. Stabil., **85**, 997-1001 (2004).

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A72. S. Jipa, ***T. Zaharescu***, M. Mărcuţă, R. Setnescu, L. M. Gorghiu şi C. Dumitrescu
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Radiation modifications of functional properties in PVC/mica electrical insulations

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Macromol. Symp., **242**, 87-92 (2006). DOI: 10.1002/masy.200651014

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A 92. ***T. Zaharescu***

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