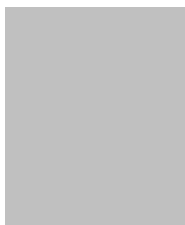


PERSONAL INFORMATION

CRACIUN Gabriela



 **National Institute for Laser, Plasma and Radiation Physics (NILPRP)**

 004 021 457 45 50  004 0722 917410

 gabriela.craciun@inflpr.ro

Sex Female | Date of birth 15/11/1971 | Nationality Romanian

WORK EXPERIENCE

- 2019 to present **Senior Researcher II**
Head of the Electron Accelerators Laboratory
Radiation Protection officer, CNCAN expert in radiological protection at the particle accelerators handling
National Institute for Lasers, Plasma and Radiation Physics
409 Atomistilor St., Magurele, Ilfov, 077125, Romania
<http://www.inflpr.ro>
- Electron beam dosimetry using standard dosimeters;
 - Material processing by means of electron beam and microwave (polymerization, grafting, cross-linking) in order to obtain new materials or materials with improved properties (polyelectrolytes, hydrogels, composites and bio-composites);
 - Wastewater treatment.
- Business or sector:** Research & Development
- 2001 to 2019 **Scientific Researcher III**
National Institute for Lasers, Plasma and Radiation Physics
409 Atomistilor St., Magurele, Ilfov, 077125, Romania
<http://www.inflpr.ro>
- Phenomena that occur at the interaction of electron beam and microwave with matter;
 - Chemical dosimetry for electron beams (Fricke, Cu-Fe, Ce³⁺-Ce⁴⁺);
 - Neutron dosimetry;
 - Material processing by means of electron beam and microwave (polymerization, grafting, cross-linking) in order to obtain new materials or materials with improved properties (polyelectrolytes, hydrogels, composites and bio-composites);
 - Wastewater treatment.
- Business or sector:** Research & Development
- 2000 to 2001 **Scientific Researcher**
National Institute for Lasers, Plasma and Radiation Physics
409 Atomistilor St., Magurele, Ilfov, 077125, Romania
<http://www.inflpr.ro>
- Electron beam and microwave interaction with matter;
 - Material processing by means of electron beam and microwave
- Business or sector:** Research & Development
- 1999-2000 **Researcher Assistant**

National Institute for Lasers, Plasma and Radiation Physics
409 Atomistilor St., Magurele, Ilfov, 077125, Romania
<http://www.inflpr.ro>

- Electron beam and microwave interaction with matter;
 - Material processing by means of electron beam and microwave
- Business or sector:** Research & Development

1998-1999 **High school teacher**

Business or sector: Education

EDUCATION AND TRAINING

2022 to present	3rd level licence to pursue authorized activities in the nuclear field, no. 1253/2022 – valid until September 2027 Issued by the Romanian National Commission for Nuclear Activities Control (CNCAN) Accredited expert in radiological protection Field: Particle Accelerators Practice: Manipulation
2017 to 2022	3rd level licence to pursue authorized activities in the nuclear field, no. 167/2017 – valid until February 2022 Issued by the Romanian National Commission for Nuclear Activities Control (CNCAN) Accredited expert in radiological protection Field: Particle Accelerators Practice: Manipulation
2021 to present	2nd level licence to pursue authorized activities in the nuclear field, no. 966/2020 – valid until December 2025 Issued by the Romanian National Commission for Nuclear Activities Control (CNCAN) Field: Particle Accelerators Specialty: Particle Accelerators
2016 to 2021	2nd level licence to pursue authorized activities in the nuclear field, no. 26/2016 – valid until January 2021 Issued by the Romanian National Commission for Nuclear Activities Control (CNCAN) Field: Particle Accelerators Specialty: Particle Accelerators
2010 to 2015	2nd level licence to pursue authorized activities in the nuclear field, no. 716/2010 Issued by the Romanian National Commission for Nuclear Activities Control (CNCAN) Field: Particle Accelerators Specialty: Particle Accelerators
2008, June	Course and training on “Validation and Process Control for Electron Beam Sterilization – Electron Beam Dosimetry Using the Latest Dosimetric Systems ” Risø National Laboratory, Roskilde, Denmark Electron Beam Dosimetry using dosimetric films and alanine
2004, October to December	Neutron Dosimetry – research stage Institute of Plasma Physics and Laser Microfusion Training Center, Warsaw, Poland Neutron dosimetry at the field of thermonuclear fusion
1998 to 1999	Master’s degree

1999 to 2004	Faculty of Physics - Polymer Physics and Condensed Matter Physics, University of Bucharest, Romania Polymer Physics PhD Faculty of Physics - Polymer Physics and Condensed Matter Physics, University of Bucharest, Romania
October 2002	Obtaining and characterization of polyelectrolyte made by accelerated electron beams and microwave irradiation. Application to wastewater treatment International school "High Current Plasma Experiments and Diagnostics-stage II" Institute of Plasma Physics and Laser Microfusion Training Center, Warsaw, Poland
October 2001	Plasma physics – experiments and diagnostic International school "High Current Plasma Experiments and Diagnostics-stage I" Institute of Plasma Physics and Laser Microfusion Training Center, Warsaw, Poland
From 1992- to 1997	Plasma physics – experiments and diagnostic Physicist/Bachelor of Science Faculty of Physics - Polymer Physics and Condensed Matter Physics, University of Bucharest, Romania Polymer Physics

PERSONAL SKILLS

Mothertongue(s) Romanian

Otherlanguage(s)	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spokeninteraction	Spokenproduction	
English	B2	B2	B2I	B2	B2
Replace with name of language certificate. Enter level if known.					

Levels: A1/A2: Basic user - B1/B2: Independent user - C1/C2 Proficient user
[Common European Framework of Reference for Languages](#)

Communicationskills ▪ Very good communication skills gained by participating as a member or leader of numerous project teams

Organisational / managerial skills ▪ Research projects leader
 ▪ Head of Electron Accelerators Laboratory

Job-relatedskills ▪ Radiation Protection officer,
 ▪ CNCAN (Romanian National Commission for Nuclear Activities Control) expert in radiological protection at the particle accelerators handling

Digital competence

SELF-ASSESSMENT				
Information processing	Communication	Content creation	Safety	Problem solving
Independent	Independent user	Independent	Independent	Independent

user		user	user	user
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Levels: Basic user - Independent user - Proficient user

[Digital competences - Self-assessment grid](#)

Replace with name of ICT-certificate(s)

- good command of office suite (word processor, spreadsheet, presentation software)

Driving licence Driving licence category: B

ADDITIONAL INFORMATION

- Publications ▪ 7 books/book chapters, 61 ISI papers, 18 ISI proceedings, 22 non-ISI papers, 42 non-ISI proceedings; 6 awarded patents
- Presentations
- Projects ▪ 4 research project as project manager
- Conferences ▪ 81 conference presentations
- Seminars
- Honours and awards ▪ 3
- Memberships ▪ 25 research project
- References
- Citations ▪ Hirsch index 19
- Courses ▪ 8
- Certifications ▪ 8

ANNEXES

List of relevant publications;
List of patents

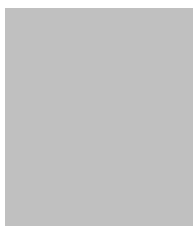
October 2025

Dr. Gabriela CRACIUN



INFORMAȚII PERSONALE

CRACIUN Gabriela



 Magurele, Ilfov, 077125, Romania

 004 021 457 45 50  004 0722 917 410

 gabriela.craciun@infpr.ro

Sexul Femeiesc | Data nașterii 15/11/1971 | Naționalitatea Romana

EXPERIENȚA PROFESIONALĂ

2019 - prezent

Cercetator Stiintific gr. II

Seful Laboratorului de Acceleratoare de Electroni

Institutul National de C-D pentru Fizica Laserilor, Plasmei si Radiatiei

Str. Atomistilor, Nr. 409, Magurele, Ilfov, 077125, Romania

<http://www.infpr.ro>

Interactia electronilor accelerati si microundelor cu materia;

Dozimetria fasciculelor de electroni accelerati utilizand sisteme dozimetrice standard;

Procesarea de materiale cu fascicule de electroni accelerati si microunde (polimerizari, grefari, reticulari, compozite pe baza de materiale naturale si sintetice) in vederea obtinerii de noi materiale sau materiale cu proprietati imbunatatite;

Caracterizarea fizico-chimica si structurala a materialelor procesate cu fascicule de electroni accelerati si microunde; Depoluarea apelor reziduale (caracterizare si tratare pe baza de sisteme cu polielectroliti si/sau hibride);

Cercetare-Dezvoltare

2001 - 2019

Cercetator Stiintific gr. III

Institutul National de C-D pentru Fizica Laserilor, Plasmei si Radiatiei

Str. Atomistilor, Nr. 409, Magurele, Ilfov, 077125, Romania

<http://www.infpr.ro>

Interactia electronilor accelerati si microundelor cu materia;

Dozimetria chimica a fasciculului de electroni (Fricke, Cu-Fe, Ce3+-Ce4+);

Dozimetria neutronilor;

Procesarea materialelor cu electroni accelerati si microunde (polimerizari, grefari, reticulari) in vederea obtinerii de noi materiale sau materiale cu proprietati imbunatatite (polielectroliti, hidrogeluri, compozite, bio-compozite);

Caracterizarea fizico-chimica si structurala a materialelor procesate cu fascicule de electroni accelerati si microunde; Depoluarea apelor reziduale (tratare si caracterizare);

Cercetare-Dezvoltare

2000 - 2001

Cercetator Stiintific

Institutul National de C-D pentru Fizica Laserilor, Plasmei si Radiatiei

Str. Atomistilor, Nr. 409, Magurele, Ilfov, 077125, Romania

<http://www.infpr.ro>

Fizica interactiei electronilor accelerati si microundelor cu materia;

Fizica procesarii materialelor cu electroni accelerati si microunde, monitorizarea procesului prin intermediul dozimetriei radiatiilor;

Cercetare-Dezvoltare

1999 - 2000

Asistent de cercetare

Institutul National de C-D pentru Fizica Laserilor, Plasmei si Radiatiei

Str. Atomistilor, Nr. 409, Magurele, Ilfov, 077125, Romania

<http://www.infpr.ro>

Fizica interactiei electronilor accelerati si microundelor cu materia;

Fizica procesarii materialelor cu electroni accelerati si microunde;

Cercetare-Dezvoltare

1998 - 1999 **Profesor de fizica**
Liceul Teoretic Baicoi

Invatamant preuniversitar

EDUCAȚIE ȘI FORMARE

- 2022 - prezent **Permis CNCAN nivel III de exercitare de activitati in domeniul nuclear, nr. 1253/2022 (expert CNCAN)**
Eliberat de catre Comisia Nationala pentru Controlul Activitatilor Nucleare (CNCAN)
Domeniu: Acceleratoare de particule
Practica: Manipulare
- 2017- 2022 **Permis CNCAN nivel III de exercitare de activitati in domeniul nuclear, nr. 167/2017 (expert CNCAN)**
Eliberat de catre Comisia Nationala pentru Controlul Activitatilor Nucleare (CNCAN)
Domeniu: Acceleratoare de particule
Practica: Manipulare
- 2021 - prezent **Permis CNCAN nivel II de exercitare de activitati in domeniul nuclear, nr. 966/2020 – valabil Decembrie 2025**
- 2016 - 2021 **Permis CNCAN nivel II de exercitare de activitati in domeniul nuclear, nr. 26/2016**
- 2010 – 2015 **Permis CNCAN nivel II de exercitare de activitati in domeniul nuclear, nr. 716/2010**
Eliberat de catre Comisia Nationala pentru Controlul Activitatilor Nucleare (CNCAN)
Domeniu: Acceleratoare de particule
Specialitatea: Acceleratoare de particule
- 2008 **Curs si training: Validarea si controlul proceselor la sterilizarea cu fascicul de electroni – Dozimetria fasciculului de electroni utilizand cele mai noi sisteme dozimetrice**
Risø National Laboratory, Roskilde, Danmarca
Dozimetria fasciculului de electroni utilizand sistemele cu film si alanina
- 2008 **Dozimetria neutronilor – stagiul de cercetare**
Institute of Plasma Physics and Laser Microfusion Training Center, Varsovia, Polonia
Dozimetria neutronilor
- 2002 **International school “High Current Plasma Experiments and Diagnostics-stage II”**
Institute of Plasma Physics and Laser Microfusion Training Center, Varsovia, Polonia
Fizica plasmei – experimente si diagnoza
- 2001 **International school “High Current Plasma Experiments and Diagnostics-stage I”**
Institute of Plasma Physics and Laser Microfusion Training Center, Varsovia, Polonia
Fizica plasmei – experimente si diagnoza

- 1999 - 2004 **Doctorat Fizica polimerilor si starii condensate**
Facultatea de Fizica – Fizica polimerilor si starii condensate, Universitatea Bucuresti, Romania
Obtinerea si caracterizarea de polielectroliti prin iradiere cu electroni accelerati si microunde. Aplicatii la epurarea apelor reziduale
- 1998 - 1999 **Masterat Fizica polimerilor si starii condensate**
Facultatea de Fizica – Fizica polimerilor si starii condensate, Universitatea Bucuresti, Romania
Specializare: Cristale lichide
- 1992 - 1997 **Licenta in fizica**
Facultatea de Fizica, Universitatea Bucuresti, Romania
Specializare: Fizica polimerilor si starii condensate

COMPETENTE PERSONALE

Limba maternă Romana

Alte limbi străine cunoscute

	INTELEGERE		VORBIRE		SCRIERE
	Ascultare	Citire	Participare la conversație	Discurs oral	
Engleza	B2	B2	B2	B2	B2
Scrieți denumirea certificatului. Scrieți nivelul, dacă îl cunoașteți.					
Franceza	A2	A2	A2	A2	A2
Scrieți denumirea certificatului. Scrieți nivelul, dacă îl cunoașteți.					

Niveluri: A1/A2: Utilizator elementar - B1/B2: Utilizator independent - C1/C2: Utilizator experimentat
[Cadrul european comun de referință pentru limbi străine](#)

Competențe de comunicare

Foarte bune competențe de comunicare, claritate si elecventa in expunerea ideilor, avantaje de comunicare ce mi-au permis interactia facila si constructiva in calitate de membru/coordonator al echipelor proiectelor de cercetare, realizarea de prezentari orale la conferinte nationale si internationale, participarea Workshop-uri/Simpozioane /stagii de lucru sau pregatire, nationale si internationale;
Foarte buna capacitate de analiza si sinteza, flexibilitate in gandire si actiune, perseverenta;
Capacitate de decizie si de asumare a raspunderii pentru deciziile luate;

Competențe organizaționale/manageriale

Altruism in relatia cu colegii si partenerii.

Director/responsabil de proiecte de cercetare

In calitate de director de proiect/responsabil de proiect am urmarit indeplinirea obiectivele proiectelor, delegarea de sarcini precise membrilor echipelor - proportional cu pregatirea si capacitatea de munca a fiecaruia, evitarea supraincarii cu mai multe sarcini respectiv distribuirea acelorasi sarcini mai multor membri ai echipei daca acest lucru nu era necesar, evitarea delegarii executiei de sarcini in timpi mai lungi decat era necesar, evitarea delegarii de sarcini contradictorii, diseminarea la o scara cat mai larga rezultatele proiectelor, astfel incat la final activitatile asumate prin contracte sa fie realizate in totalitate si la termenele stabilite.

In vederea administrarii judicioase a bugetelor proiectelor m-am asigurat in permanenta de eligibilitatea cheltuielilor, de achizitionarea materialelor si echipamentelor conform cu planificarea dar si cu necesitățile bune desfășurări a activităților proiectelor precum și de remunerarea onestă și stimulativă a membrilor echipelor de cercetare;

Seful Laboratorului de Acceleratoare de Electroni

In calitate de sef al Laboratorului de Acceleratoare de electroni stabilesc obiectivele stiintifice si administrative ale laboratorului si monitorizez indeplinirea acestora, implementez si mentin obiectivele Sistemului de Management Integrat al INFLPR la nivelul laboratorului, reprezint laboratorul in Comitetul director al INFLPR, administrez bugetul laboratorului din alte surse de cat proiectele de cercetare (NUCLEU si IOSIN), realizez evaluarea anuala a membrilor laboratorului pe baza fiselor de evaluare individuala etc.

Competențe dobândite la locul de muncă

Responsabil cu Protecția Radiologică în Laboratorul de Acceleratoare de Electroni

1. Experiența de peste 20 ani în următoarele domenii:

Utilizarea fasciculelor de electroni accelerați și microundelor în procesarea materialelor (polimerizări, grefări, reticulări, degradări), în vederea obținerii de materiale noi sau materiale cu proprietăți îmbunătățite precum și în caracterizarea fizico-chimică a acestora (determinare concentrație de monomer rezidual în polimer și coeficient de conversie a monomerului în polimer prin metode chimice pe baza de titrare, determinare viscozitate intrinsecă, masă moleculară, coeficient de liniaritate, rază de giratie, grad de reticulare și fracție de gel, parametri de gonflare, eficiența și randament de grefare etc.);

Utilizarea fasciculelor de electroni accelerați pentru sterilizare și decontaminare microbiană în vederea conservării sau tratării alimentelor depreciate;

Elaborarea de metode și rețete specifice pentru epurarea apelor reziduale provenite din activități industriale generatoare de ape reziduale puternic încărcate cu poluanți organici/anorganici și în special a celor puternic încărcate cu metale grele care și în acest moment sunt extrem de dificil de soluționat;

Analize de laborator specifice caracterizării apelor reziduale brute/tratate (pH, Materii organice în suspensie prin metodele CCO-Mn și CCO-Cr, consum biochimic de oxigen la 5 zile - CBO₅, turbiditate, conținut de substanțe extractibile cu eteri de petrol, determinare metale grele prin metode spectrofotometrice, etc.);

Dozimetria chimică a fasciculelor de electroni accelerați, fiind prima persoană din INFLPR care a adaptat dozimetria chimică a surselor de Co-60 la fascicule de electroni accelerați;

Spectroscopie FTIR, programe de bază și speciale ale spectrofotometrelor UV-VIS;

Utilizarea facilă a tuturor instrumentelor și aparatelor de bază cu care este dotat un laborator de analize fizico-chimice și microbiologice;

2. Experiența de peste 10 ani în organizarea sistemului de radioprotecție operațională la utilizarea și manipularea acceleratoarelor liniare de electroni respectând principiile de bază ale radioprotecției adică, justificarea practicii, optimizarea acesteia și limitarea dozelor la personal și mediu;

Cunoașterea legislației naționale specifice utilizării instalațiilor radiologice/surselor de radiații precum și a modalităților de aplicare a acesteia (*Legea 111/1996 republicată* privind desfasurarea în siguranță, reglementarea autorizarea și controlul activităților nucleare, *Normele de Securitate Radiologică (NSR 01 – NSR 38)*, a recomandărilor Comisiei Internaționale de Radioprotecție - *ICRP Publication No. 104*, a standardelor în vigoare specifice organizării radioprotecției laboratoarelor care utilizează instalații radiologice de tip acceleratoare de electroni (*ANSI-HPS N43.3-2008*) precum și a ghidurilor pentru radioprotecție elaborate de către IAEA (*International Basic Safety Standard for Protection against Ionizing Radiation and for the Safety of Radiation Sources* 1996 și 2014);

Elaborarea de proceduri tehnice de lucru și de sistem la utilizarea și manipularea acceleratoarelor liniare de electroni;

Instruirea personalului expus profesional în vederea prevenirii incidentelor/accidentelor la utilizarea și manipularea acceleratoarelor liniare de electroni cu accent pe evitarea expunerilor care nu sunt necesare;

Măsurări radiometrice de arie în vederea optimizării radioprotecției utilizând radiometre de arie de tip debitmetru integrator VAJ 15 A (0.1 rem/h-30 mrem/h), Monitor Universal pentru radioprotecție UM₀LB₁₂₃ (0.05 μSv/h-10 mSv/h) respectiv dozimetru/debitmetru Survey Meter OD-01 (masoară doze de până la 2000 μSv și debite de doză până la 20 mSv/h), stabilirea punctelor critice și implementarea de măsuri specifice în scopul limitării dozelor la personal;

Calcul de ecrane pentru acceleratoare liniare de electroni utilizând standardul american *ANSI-HPS N43.3-2008*;

Calcularea dozelor efective la personal;

Competențe digitale

AUTOEVALUARE

Procesarea informației	Comunicare	Creare de conținut	Securitate	Rezolvarea de probleme
Utilizator independent	Utilizator independent	Utilizator independent	Utilizator independent	Utilizator independent

Niveluri: Utilizator elementar - Utilizator independent - Utilizator experimentat
Competențele digitale - Grilă de auto-evaluare

Scrieți denumirea certificatului.

Foarte buna cunoastere a programelor de birou (procesor de text, calcul tabelar, software pentru prezentări)

Permis de conducere Posesor permis de conducere categoria B

INFORMATII SUPLIMENTARE

Publicații/Prezentari **7 carti/capitole de carte**, > 150 articole stiintifice si proceedings, din care **61 articole cotate ISI**, **18 proceedings cotate ISI**, 22 articole non-ISI, 42 proceedings non-ISI, **6 patente acordate**, **81 prezentari** la conferinte nationale si internationale

Proiecte **4 proiecte de cercetare** ca director/responsabil de proiect, 27 proiecte ca membru in echipa de cercetare

Distincții **2 (in anul 2002** Third Optim ABB Prize Paper Award pentru competente tehnice aratate in lucrarea "Non thermal Plasma Processing for SO₂ and NOx removal" prezentata la OPTIM 2002, **in anul 2006** Environmental Physics Juniors Prize pentru prezentarea lucrarii "Waste Treatment by Microwave and Electron Beam Irradiation" la 2nd Environmental Physics Conference, Alexandria Egypt)

Citări **> 670**

Cursuri Cursuri de protectie radiologica la utilizarea instalatiilor radiologice cf. prevederilor legale o data la 5 ani, respectiv la preschimbarea permiselor de exercitare de activitati in domeniul nuclear nivel II si III

HIRSH INDEX **19**, cf. Web of Science

ANEXE

Titlul tezei de doctorat; Lista carti si capitole de carte publicate; Lista de lucrari, brevete, carti si capitole de carti

Data: **octombrie 2025**

Numele si semnatura: **Dr. Gabriela CRACIUN**



List of publications

Dr. Gabriela CRACIUN

Patents

1. Stelescu M.D., Manaila E., Craciun G., Ighigeanu D., Sonmez M., Georgescu M., *Compozite elastomerice pentru garnituri rezistente la radiatii ionizante*, **B.I. nr. 134218 from 29.04.2022, published in BOPI – section INVENTII nr. 4/2022**
2. Stelescu M.D., Manaila E., Craciun G., Alexandrescu L., Sonmez M., *Materiale de etansare pe baza de cauciuc etilen-propilen-terpolimer si cauciuc butilic halogenat*, **B.I. nr. 134225 from 29.04.2022, published in BOPI – section INVENTII nr. 4/2022**
3. Patent Number: RO12674, Inventors: Martin Diana, Neagu Monica, Matei Constantin, Constantin Carolina, Iacob Nicusor, Ighigeanu Daniel, Manaila Elena, Craciun Gabriela.: *Instalatie si procedeu de iradiere cu microunde a unui material biologic simultan cu investigarea acestuia sub un microscop inversat cu modul de fluorescentas*; **B.I. no. 126764 from 30.07.2015, published in BOPI-section INVENTII no. 7/2015;**
4. Patent Number: RO125019-B1, Inventors: Manaila, E., Stelescu, M.D., Martin D., **Craciun G.**, Ighigeanu D.P., Matei C.: *Materials made of EVA (ethylene vinyl acetate copolymer) by new complex methods of crosslinking elastomers by irradiation with electrons accelerated in the presence of polyfunctional monomers*; **B.I. no. 125019 from 01.30.2012, published in BOPI-section INVENTII no. 1/2012**
5. Patent Number: RO126764, Inventors: Martin D., Neagu M., Matei C., Constantin C., Iacob N., Ighigeanu D., Manaila E., **Craciun G.**: *Instalatie si procedeu de iradiere cu microunde a unui material biologic simultan cu investigarea acestuia sub un microscop inversat cu modul de fluorescenta*; **B.I. nr. 126764 from 30.07.2015, published in BOPI – section INVENTII no. 7/2015;**
6. Patent Number: RO126841, Inventors: I ghigeanu D., Martin D., Calinescu I., Matei C., Manaila E., **Craciun G.**: *Procedeu si instalatie pentru cresterea performanteide conversie a poluantilor gazezi din gazele reziduale industriale*; **B.I. nr. 126841 din 21.04.2010, published in BOPI – section INVENTII no. 10/2017**

Books, chapters

1. E. Manaila, DM Stelescu, G. Craciun, *Advanced Elastomers – Technology, Properties and Applications; Chapter 1: Aspects regarding radiation crosslinking of elastomers*; Ed. Intech, Croatia, ISBN 978-953-51-0739-2, **2012**
2. D. Martin, G. Craciun, I. Margaritescu, M. Neagu, E. Manaila, D. Ighigeanu, L. Tudor, N. Iacob, Chapter 9: *Application of Electron Accelerators in Conjunction with Microwave Sources in Medical Studies* in “Practical Aspects and Applications of Electron Beam Irradiation” (eds. M.R. Nemțanu, M. Brașoveanu), ISBN 978-81-7895-541-4, Research Signpost/Transworld Research Network, India, **2011;**
3. E. Manaila, D. Zuga Stelescu, D. Martin, G. Craciun, D. Ighigeanu, Chapter 8: *Electron Beam and Microwaves Processing of Rubber Mixtures with Polyfunctional Monomers* in “Practical Aspects and Applications of Electron Beam Irradiation” (eds. M.R. Nemțanu, M. Brașoveanu), ISBN 978-81-7895-541-4, Research Signpost/Transworld Research Network, India, **2011;**
4. D. Ighigeanu, D. Martin, I. Calinescu, E. Manaila, G. Craciun, Chapter 7: *Gaseous Pollutants Treatment by Combined Electron Beams and Microwaves* in “Practical Aspects and Applications of Electron Beam Irradiation” (eds. M.R. Nemțanu, M. Brașoveanu), ISBN 978-81-7895-541-4, Research Signpost/Transworld Research Network, India, **2011;**
5. G. Craciun, E. Manaila, D. Martin, D. Ighigeanu, Chapter 6: *Polyelectrolytes Obtained by Ionizing and Non-Ionizing Radiation* in “Practical Aspects and Applications of Electron Beam Irradiation” (eds. M.R. Nemțanu, M. Brașoveanu), ISBN 978-81-7895-541-4, Research Signpost/Transworld Research Network, India, **2011;**
6. D.M. Stelescu, E. Manila, D. Martin, G. Craciun, D. Ighigeanu, L. Alexandrescu, *“Noi tehnologii de grefare si reticulare a amestecurilor de cauciuc prin iradiere cu electroni accelerate si microunde”*, autori: D.M. Stelescu, E. Manila, D. Martin, G. Craciun, D. Ighigeanu, L. Alexandrescu, Editura Performantica a Institutului National de Inventica Iasi, ISBN 978-973-730-810-8, **2011;**
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