

EUROPEAN
CURRICULUM VITAE
FORMAT



PERSONAL INFORMATION

Name

Address

Telephone

Fax

E-mail

Nationality

Date of birth

WORK EXPERIENCE

• Dates (from – to)

- Name and address of employer
- Type of business or sector
- Occupation or position held
- Main activities and responsibilities

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• Dates (from – to)

- Name and address of employer



ION, RODICA-MARIANA

National Institute of Research and Development in Chemistry and Petrochemistry – ICECHIM, Bucharest

Valahia University, Doctoral School of Engineering Sciences, Targoviste
00-40-21-316.30.94/0245.206106
00-40-21-316.30.94/0245.206106

Romanian

2015-PRESENT

European Commission, Commission of Health, Environment and Emerging Risks

Evaluation activity

Member of commission

Scientific opinion on different subjects-based on health and risk assessment

2012-PRESENT

Ministry of National Education, National Council for the Recognition of Degrees, Diplomas and Certificates, Materials Engineering Commission

Evaluation activity

Member of "Materials Engineering" commission

Ph.D. thesis evaluation, habilitation thesis, confirmation the rank of professor

2013-PRESENT

ICECHIM, 202 Splaiul Independentei Bucharest-060021, Romania

Scientific Research and management activity

Head of NANOMEDICINE GROUP

Coordination, participation and valuation of scientific projects and studies of applied research (materials, drugs, risk assessment, materials)

Project proposals writing, modeling, writing and evaluation in the field of public health and toxicology; grant foundations searching (national, European Commission funds), writing of applications for grants, administrative assistance, national and international projects coordination, accomplishment and evaluation.

Participation on national and international studies and scientific activities related to nanomaterials

Planning, implementation and evaluation of scientific programs; administrative co-ordination and organization of collaborative groups.

Presentation of results in seminars, workshops and National and International congresses

Publication of results of research studies and projects in peer-reviewed periodicals

2008-PRESENT

ICECHIM, 202 Splaiul Independentei Bucharest-060021, Romania

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EDUCATION AND TRAINING

Dates (from – to)

- Name and type of organisation providing education and training
- Principal subjects/occupational skills covered
- Title of qualification awarded
- Level in national classification (if appropriate)
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- Dates (from – to)

Scientific Research and management activity; President of Scientific Council; Board Vicepresident.
Head Department of Analytic Department
Coordination of scientific and laboratory tests for *third parties*

2004-PRESENT

VALAHIA University, Targoviste, Romania

Teaching activity

Full professor on Nanomaterials

Profesor and supervisor of thesis of diploma work, thesis of dissertation for university students and for scientific works.

2007-PRESENT

VALAHIA University, Targoviste, Romania

Teaching activity and Scientific activity

Ph.D.Thesis supervisor

Profesor and supervisor of thesis of PhD students based on nanomaterials production, risks, tests, analytical characterization

25 PhD students in coordination, of which 15 doctoral students who graduated and obtained his Ph.D., another 10 are in progress, and was a member of the evaluation committee on 13 theses MA / PhD International University in Lithuania (1) University of Johannesburg (10), Istanbul University (1), University of Antakya (1)

2012-present

Valahia University

Director of the Research Center: Nanomaterials for mechanical microsystems

Director of Research Center

Coordination of Research Center activity and managerial activity

1984-2001

ZECASIN S.A., 202 Splaiul Independentei, 060021 Bucharest, Romania

Scientific Research

Head of Photochemistry Department

Coordination of Research Center activity and managerial activity

2010

ASE Bucharest, Bucharest, Romania.

Master of University Management

Master

Diploma of master

FIATEST S.A., Bucharest, Romania, Governmental Institution.

Management of internal and international projects

Certificate

Post-graduate studies

- Name and type of organisation providing education and training
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- Title of qualification awarded
- Level in national classification (if appropriate)

RENAR S.A., Bucharest, Romania, Governmental Institution.

Quality Auditor for ISO 9001 and ISO SR EN 17025:2005 standards

Certificate
Post-graduate studies

2004

RENAR S.A., Bucharest, Romania, Governmental Institution.

Practical solutions for uncertainty measurements for laboratory accreditation, Accreditation and validation after UE rules

Certificate
Post-graduate studies

2001

MBA International Institute by Correspondence, Bucharest.

Diploma on Management of Organizations
Post-graduate studies

1994-1995

Polytechnical University of Bucharest, Chemical Engineering Faculty, Bucharest, Romania

Post-Doctoral Fellowship Analytical Methods and characterization of surfaces and films

Diploma
Post doctoral professional formation

1988-1989

University of Bucharest, Physics Faculty, Solid State Physics, Magurele Bucharest

Post-graduate Fellowship

Diploma
Post graduate professional formation

1987-1988

Polytechnic Institute, Bucharest

Post-university Fellowship on photochemistry

Diploma
Post graduate professional formation

• **Dates (from – to)**

1990-1995

• Name and type of organisation providing education and training

University of Bucharest

• Principal subjects/occupational skills covered

Doctoral studies on spectroscopy for porphyrins

• Title of qualification awarded

Doctor Diploma

• Level in national classification (if appropriate)

Doctoral diploma

• **Dates (from – to)**

1977-1982

• Name and type of organisation providing education and training

Polytechnic Institute, Bucharest

• Principal subjects/occupational skills covered

Chemistry

• Title of qualification awarded

Licence in chemistry

• Level in national classification (if appropriate)

Graduation diploma on chemistry

PERSONAL SKILLS AND COMPETENCES

Acquired in the course of life and career but not necessarily covered by formal certificates and diplomas.

MOTHER TONGUE

ROMANIAN

OTHER LANGUAGES

English

• Reading skills

B2

• Writing skills

B2

• Verbal skills

B2

OTHER LANGUAGES

French

• Reading skills

B2

• Writing skills

B2

• Verbal skills

B1

SOCIAL SKILLS AND COMPETENCES

Ability of communication acquired through life experience and improved by the Science Program

**ORGANISATIONAL SKILLS
AND COMPETENCES**

Coordination and administration of people, projects and budgets; at work, in voluntary work (for example culture and sports) and at home

Strong sense of leadership' Highly organized; dynamic; excellent planning skills with great attention to detail and ability to prioritize work. My organizing ability was visible during the coordination or participating at the following projects evaluation and/or participation:

- 2015-2017: FP7 HORIZON Marie-Curie Fellowship Evaluation, Bruxelles
2014: National Projects competition Montenegro
2014: FP7 HORIZON Marie-Curie Fellowship Evaluation, Bruxelles
2014: National Science Center, Poland, Project SONATA, PRELUDIUM, OPUS
2007: European Expert for Bulgarian Competition of projects.
2001-2008: INTAS expert evaluator, Brussels;
2000-2014: Scientific expertise activity as member of expert committee at the Ministry of Science and Education of Romania (IDEI, CAPACITIES, PNII)
2014- present: Expertise and presentation of three reviews of the modules and one review of the curriculum in international project "IRRESISTIBLE" (FP7-SCIENCE-IN-SOCIETY-2013-1).
2009-present: Romanian Representant of SUSChem Platform
2007-2010: Participation as Romanian Partner in FP6 UE project DEVELONUTRI
1998-2001: Official representant of Romania in Management Committee of COST D8, EU Programm, Brussels;
2000-2006: Official representant of Romania in Management Committee of COST D18, EU Programm, Brussels;
2001-2010: Official representant of Romania in Management Committee of COST D20, EU Programm, Brussels;
2000-2007: Coordinator of Working Group WG0012-02, with twelve partners, inside of COST D20, EU Programm;
2006-2012: Official representant of Romania in Management Committee of COST D39, EU Programm, Brussels, TD 1002; MC 1202.
2002-2006: Principal coordinator of Working Group 0012-02, of COST D20 UE Programm

**TECHNICAL SKILLS
AND COMPETENCES**

With computers, specific kinds of equipment, machinery, etc.

OTHER SKILLS

AND COMPETENCES

Competences not mentioned above.

Laboratory practice (developed by 5 years of studies in Faculty of Chemistry Department and during my entire activity); language and communication skills. Computer skills, work with different nanomaterials preparation methods, spectral equipments, machinery and devices for their characterization in Romania and abroad during a lot of post-doctoral fellowships and invitations.

Member of the Professional Societies:

- *Chemical Society from Romania;*
- *WHO's WHO from Romania;*
- *WHO's WHO in Photochemistry, Europe*

Papers: 200 published papers in ISI journals; 200 non-ISI published papers

HIRSCH index: 22 (SCHOLAR GOOGLE); 18 (SCOPUS), 18 (ISI WEB OF KNOWLEDGE)

Books: 6 books and 16 book chapters

Patents: 15 national patents; 1 european patent

List of publications (selection)

- 1. In vivo silymarin's antioxidant and anti-apoptotic effects on photodynamic therapy's responsiveness**
Vlad Dionisie, Simona Clichici, Rodica-Mariana Ion, Oana-Ofelia Dănilă, Remus Moldovan, Nicoleta Decea, Dan Gheban, Florin Catalin Olteanu, Adriana Filip
Journal of Porphyrins and Phthalocyanines · May 2017 DOI: 10.1142/S1088424617500304
- 2. Adsorption of chromium (VI) from water solution onto polymeric membrane systems**
Sofia Teodorescu, Rodica Mariana Ion, Gheorghe Nechifor, Ioan Alin Bucurica, Ioana Daniela Dulama, Raluca Maria Stirbescu, Nicolae Mihail Stirbescu
REV.CHIM.(Bucharest), 68, No. 4, 2017, pp.869-875
- 3. Combined regimen of photodynamic therapy mediated by Gallium phthalocyanine chloride and Metformin enhances anti-melanoma efficacy**
Diana Tudor , Iuliana Nenu , Gabriela Adriana Filip , Diana Olteanu, Mihai Cenariu, Flaviu Tabaran, Rodica

4. **Polymeric Membrane for Verteporfin Purification**
Stefania Simionescu, Sofia Teodorescu, Rodica Mariana Ion, Elena Voicila, Gheorghe Nechifor
MATERIALE PLASTICE, 54, No.1, 2017, 14-17
5. **Improvement Of Spectrophotometric Method For Quantitative Determination Of Phenolic Compounds By Statistical Investigations**
O.-R. Bancuta, A. Chilian, I. Bancuta, R.-M. Ion, R. Setnescu, T. Setnescu, A. Gheboianu. -
Romanian Journal of Physics 61(1-2):000-000, 2016
6. **Efficiency of photodynamic therapy on WM35 melanoma with synthetic porphyrins: Role of chemical structure, intracellular targeting and antioxidant defense**
I. Baldea, D. E. Olteanu, P. Bolfa, R. M. Ion, N. Decea, M. Cenariu, M. Banciu, A. V. Sesarman, A. G. Filip
Journal of Photochemistry and Photobiology B Biology 151, 2015, pp.142-152
7. **Silver Nanoparticles Obtained Via Morus Nigra Extract Synthesis And Antioxidant Activity**
I.R. Bunghez, O. Dumitrescu, R. Somoghi, I. Ionita, R.M. Ion
Rev.Chim.(Bucharest) 66(8)(2015), 112-115
8. **Spectral and photochemical properties of hyperbranched nanostructures based on gardiquimod and TPPS₄**
Boda, D., Negrei, C., Arsene, A.-L., Căruntu, C., Lupuleasa, D., Ion Rodica Mariana
Farmacia, 63(2) (2015) 218-223
9. **Thermal and mineralogical investigations of iron archaeological materials**
Ion, Rodica-Mariana, Radovici, C., Fierascu, R.C., Fierascu, I.
Journal of Thermal Analysis and Calorimetry, 121(30) (2015) 1247-1253
10. **Archaeometallurgical Characterization of Numismatic Artifacts**
R.C. Fierascu, R.M.Ion, I.Fierascu
Instrumentation Science & Technology 43(1) (2015) 107-114
11. **Study of influence of Zn concentration on the absorption and transport of Fe in maize by AAS and EDXRF analysis techniques**
Chilian, O.R. Bancuta, I. Bancuta, R. Setnescu, C. Radulescu, C. Stih, I.V. Popescu, Gh. V. Cimpoca, A. Gheboianu
Romanian Reports in Physics, 67(3) 2015, pp.1138-1151
12. **Characterization Of ZnO And SNO₂:F Materials By SEM For Their Use In The Manufacture Of DSSC**
A. Chilian, Oana-Roxana Bancuta, Iulian Bancuta, Rodica-Mariana Ion, Radu Setnescu, Tanta Setnescu, Anca Gheboianu, Virgil Marinescu, Cristiana Radulescu
Rev. Roum. Chim., 2015, 60(5-6), 549-554
13. **Electrical Characterization Of Transparent Conducting Materials,**
A. Chilian, O.-R. Bancuta, I. Bancuta, R.-M. Ion, R. Setnescu, T. Setnescu, A. Gheboianu, I.V. Popescu.
Revista De Chimie - 2016
14. **FT-IR And Uv-Vis Characterization Of Grape Extracts Used As Antioxidants In Polymers**
Oana-Roxana Bancuta, Andrei Chilian, Iulian Bancuta, Rodica-Mariana Ion, Radu Setnescu, Tanta Setnescu, Anca Gheboianu, Marius Lungulescu
Rev. Roum. Chim., 2015, 60(5-6), 571-577
15. **Mechanical properties of polypropylene - REOGARD 2000® composite**
VILCEA Elena Janina · ION Rodica-Mariana,
Applied Mechanics and Materials 05/2015; 760:317-322
16. **Characterization Of Silver Nanoparticles Obtained By Lavandula Angustifolia Extract**
Ioana Raluca BUNGHEZ · Radu Claudiu FIERASCU · Ovidiu DUMITRESCU · Irina FIERASCU, Rodica Mariana ION
Revue Roumaine de Chimie 60(5-6):515-519 · August 2015
17. **Hydroxyapatite Composition As Consolidating Material For The Chalk Stone From Basarabi-Murfatlar Churches Ensemble,**

R.M. Ion, D. Turcanu-Caruțiu, R.C. Fierăscu, I. Fierăscu, I.R. Bunghez, M.L. Ion, S. Teodorescu, G. Vasilievici, V. Rădițoiu,
Applied Surface Science, 2015, doi:10.1016/j.apsusc.2015.08.196

18. Thermal characterization of the resveratrol

Bancuta, I. Bancuta, A. Chilian, **R.-M. Ion**, R. Setnescu, T. Setnescu, A. Gheboianu,
Revista de Chimie, 2016

19. FT-IR And Uv-Vis Characterization Of Grape Extracts Used As Antioxidants In Polymers

Oana-Roxana Bancuta, Andrei Chilian, Iulian Bancuta, Rodica-Mariana Ion, Radu Setnescu, Tanta Setnescu,
Anca Gheboianu, Marius Lungulescu
Rev. Roum. Chim., 2015, 60(5-6), 571-577

20. Synthesis, spectral and photodynamic Properties of Lithium Phthalocyanine

D. Boda, R.M. Ion
Revista de Chimie (Bucharest), 2014, 65(11), pp.1271-1274

21. Protein microarray for complex apoptosis monitoring of dysplastic oral keratinocytes in experimental photodynamic therapy

C. Matei, M. Tampa, C. Caruntu, R.M. Ion, S.R. Georgescu, G.R. Dumitrascu, C. Constantin, M. Neagu
Biological research 07/2014; 47(1):33-42 (1.13 Impact Factor)

22. Behaviour of 316l Stainless Steel In Simulated Physiological Fluids

A.A. Poinescu, R.M. Ion, I. Ionita, I.D. Dulama, A. Chilian,
Revista de Chimie (Bucharest), 65(11), pp.1351-1356

23. Effect Of Porphyrins On The Photobleaching Of Violamycin B1

D.Boda, RM Ion
Rev.Chim. (Bucharest), 65(10), 2014, pp.1190-1194

24. The effect of TSPP-mediated photodynamic therapy and Parecoxib in experimental tumours

T.Popescu, I.Nenu, MD Aldea, D.Olteanu, D.Gheban, C.Tatomir, P.Bolfa, A.Muresan, RM Ion, AG Filip
Life Sciences, 117(2), 2014, pp. 75–83.

25. Synthesized Apatitic Materials For Artefacts Protection Against Biodeterioration

Irina Fierascu, Radu Claudiu Fierascu, **Rodica Mariana Ion**, Constantin Radovici
Romanian Journal of Materials 2014, 44(3),292 -297

26. Metformin associated with photodynamic therapy - A novel oncological direction

Nenu, I., Popescu, T., Aldea, M.D., Craciun, L., Olteanu, D., Tatomir, C., Bolfa, P., **Ion RM**, Muresan A.,
Filip, A.G.
Journal of Photochemistry and Photobiology B: Biology, 138, (2014) pp. 80-91.

27. Novel three-component composite materials (hydroxyapatite/polymer mixtures) for bone regeneration

Ion, R.-M., Poinescu, A.A., Doncea, S.-M.
Key Engineering Materials, 587, (2014) pp. 197-204.

28. Characterization and antioxidant activity of phytosynthesised silver nanoparticles using Calendula officinalis extract

Fierascu, I., Bunghez, I.-R., Fierascu, R., **Ion, R.-M.**, Dinu-Pîrvu, C.E., Nuță, D.
Farmacia, 62 (1), (2014) pp. 129-136.

29. Photo-induced formation of Au-Ag nanowires complex on DNA support

Bunghez, I.R., Dumitrescu, O., Vasile, E., Doncea, S., Ion, R.M.
Journal of Optoelectronics and Advanced Materials, 15 (11-12), (2013) pp. 1380-1384.

30. Surface investigations of old book paper treated with hydroxyapatite nanoparticles

Ion, R.-M., Doncea, S.M., Ion, M.-L., Rădițoiu, V., Amăriuței, V.
(2013) Applied Surface Science, 285, pp. 27-32.

31. Evaluation of natural polyphenols entrapped in calcium alginate beads prepared by the ionotropic gelation method

Stoica, R., Pop, S.F., Ion, R.M.
(2013) Journal of Optoelectronics and Advanced Materials, 15 (7-8), pp. 893-898.

32. **Thermal analysis of the chemical weathering of chalk stone materials**
Pop, S.-F., Ion, R.-M.
(2013) *Journal of Optoelectronics and Advanced Materials*, 15 (7-8), pp. 888-892.
33. **Hybrid composite materials with biofunctional properties**
Poinescu, A.A., Ion, R.M., Vasile, B.
(2013) *Journal of Optoelectronics and Advanced Materials*, 15 (7-8), pp. 874-878.
34. **Ethanol concentration effect on the extraction of phenolic compounds from ribes nigrum assessed by spectrophotometric and HPLC-DAD methods**
Stoica, R., Senin, R.M., Ion, R.-M.
(2013) *Revista de Chimie*, 64 (6), pp. 620-624.
35. **Zinc trisulphonated phthalocyanine used in photodynamic therapy of dysplastic oral keratinocytes**
Tampa, M., Matei, C., Popescu, S., Georgescu, S.-R., Neagu, M., Constantin, C., Ion, R.-M.
(2013) *Revista de Chimie*, 64 (6), pp. 639-645.
36. **Synthesis, photophysical properties and photocatalytic activity of tungsten porphyrin (TPPWCl4)**
Ion, R.-M.
(2013) *Journal of Porphyrins and Phthalocyanines*, 17 (6-7), pp. 460-472.
37. **A new approach for the remediation of biodeteriorated mobile and immobile cultural artefacts**
Fierascu, I., Dima, R., Ion, R.M., Fierascu, R.C.
(2013) *European Journal of Science and Theology*, 9 (2), pp. 161-168.
38. **The influence of ethanol concentration on the total phenolics and antioxidant activity of scenedesmus opoliensis algal biomass extracts**
Stoica, R., Velea, S., Iue, L., Calugareanu, M., Ghimis, S.B., Ion, R.-M.
(2013) *Revista de Chimie*, 64 (3), pp. 304-306.
39. **Antioxidant properties of biohybrids based on liposomes and sage silver nanoparticles** Barbinta-Patrascu, M.E., Bunghez, I.-R., Iordache, S.M., Badea, N., Fierascu, R.-C., Ion, R.M.
(2013) *Journal of Nanoscience and Nanotechnology*, 13 (3), pp. 2051-2060.
40. **Chemical weathering of chalk stone materials from basarabi churches**
Ion, R.-M., Bunghez, I.R., Pop, S.-F., Fierascu, R.-C., Ion, M.-L., Leahu, M.
(2013) *Metalurgia International*, 18 (2), pp. 89-93.
41. **DNA as biotemplate for photochemically-induced generation of Au and/or Ag nanoparticles**
Bunghez, I.-R., Pop, S.-F., Ion, R.-M.
(2013) *Metalurgia International*, 18 (2), pp. 94-96.
42. **Antioxidant silver nanoparticles green synthesized using ornamental plants,**
Bunghez, I.R., Patrascu, M.E.B., Badea, N., Doncea, S.M., Popescu, A., Ion, R.M.
(2012) *Journal of Optoelectronics and Advanced Materials*, 14 (11-12), pp. 1016-1022.
43. **Photodynamic properties of aluminium sulphonated phthalocyanines in human displazic oral keratinocytes experimental model**
Matei, C., Tampa, M., Ion, R.M., Neagu, M., Constantin, C.
(2012) *Digest Journal of Nanomaterials and Biostructures*, 7 (4), pp. 1535-1547.
44. **In vitro release of local anaesthetic and anti-inflammatory drugs from crosslinked collagen based device,**
Petrisor, G., Ion, R.M., Brachais, C.-H., Boni, G., Plasseraud, L., Couvercelle, J.-P., Chambin, O.
(2012) *Journal of Macromolecular Science, Part A: Pure and Applied Chemistry*, 49 (9), pp. 699-705.
45. **Photomedicine and photo nanosystems**
Ion, R.-M., Nyokong, T., Gyulkhandanyan, G., Wrobel, D.
(2012) *International Journal of Photoenergy*, 2012, art. no. 127309
46. **New evidence of adhesive as hafting material on Middle and Upper Palaeolithic artefacts from Gura Cheii-Râșnov Cave (Romania)**
Cârciumaru, M., Ion, R.-M., Nițu, E.-C., Ștefănescu, R.
(2012) *Journal of Archaeological Science*, 39 (7), pp. 1942-1950.
47. **Oxidative stress effects of fullerene-porphyrin derivatives in photodynamic therapy**

Ion, R.M., Daicoviciu, D., Filip, A.G., Clichici, S., Muresan, A.
(2012) *Journal of Porphyrins and Phthalocyanines*, 16 (7-8), pp. 870-877.

48. **Designing medical devices based on silicon polymeric material with controlled release of local anesthetics**
Petrisor, G., Ion, R.M., Brachais, C.H., Couvercelle, J.-P., Chambin, O.
(2012) *Journal of Macromolecular Science, Part A: Pure and Applied Chemistry*, 49 (5), pp. 439-444.
49. **Amperometric dot-sensors based on zinc porphyrins for sildenafil citrate determination**
Balasoiu, S.-C., Stefan-Van Staden, R.-I., Van Staden, J.F., Ion, R.-M., Radu, G.-L., Aboul-Enein, H.Y.
(2011) *Electrochimica Acta*, 58 (1), pp. 290-295.
50. **Analytical methods for artefacts complex analysis**
Dumitriu, I., Fierascu, R.C., Bunghez, R.I., Pop, S.F., Doncea, S.M., Ion, M.L., Ion, R.M.
(2011) *Revue Roumaine de Chimie*, 56 (10-11), pp. 931-940.
51. **Lycopene determination in tomatoes by different spectral techniques (UV-VIS, FTIR and HPLC)**
Bunghez, I.R., Raduly, M., Doncea, S., Aksahin, I., Ion, R.M.
(2011) *Digest Journal of Nanomaterials and Biostructures*, 6 (3), pp. 1349-1356.
52. **Green synthesis of silver nanoparticles obtained from plant extracts and their antimicrobial activities**
Bunghez, I.R., Ghiurea, M., Faraon, V., Ion, R.M.
(2011) *Journal of Optoelectronics and Advanced Materials*, 13 (7), pp. 870-873.
53. **Spectral and thermal investigations of porphyrin and phthalocyanine nanomaterials**
Pop, S.-F., Ion, R.-M., Corobea, M.C., Raditoiu, V.
(2011) *Journal of Optoelectronics and Advanced Materials*, 13 (7), pp. 906-911.
54. **A synthetic approach into the restoration and conservation of metal artifacts (coins)**
Dumitriu, I., Fierascu, R.C., Catangiu, A., Neata, M., Ion, R.M., Somoghi, R.
(2011) *Journal of Optoelectronics and Advanced Materials*, 13 (7), pp. 874-878.
55. **Thermal and mineralogical investigations of historical ceramic: A case study**
Ion, R.M., Dumitriu, I., Fierascu, R.C., Ion, M.-L., Pop, S.F., Radovici, C., Bunghez, R.I., Niculescu, V.I.R.
(2011) *Journal of Thermal Analysis and Calorimetry*, 104 (2), pp. 487-493.
56. **Different microscopic characterization techniques on hydroxyapatite powder**
Poinescu, A.A., Ion, R.M., Van Staden, R.-I., Van Staden, J.F., Ghiurea, M.
(2011) *Journal of Optoelectronics and Advanced Materials*, 13 (4), pp. 416-421.
57. **Oxidative photodamage induced by photodynamic therapy with methoxyphenyl porphyrin derivatives in tumour-bearing rats.**
Daicoviciu, D., Filip, A. G., Ion, R. M., Clichici, S., Decea, N., & Muresan, A.
(2011). *Folia Biologica*, 57(1), 12-19.
58. **Photodamaging effects of porphyrins and chitosan on primary human keratinocytes and carcinoma cell cultures**
Susan, M., Baldea, I., Senila, S., Macovei, V., Dreve, S., Ion, R. M., et al.
(2011) *International Journal of Dermatology*, 50(3), 280-286.
59. **Optical method for monitoring of photodynamic inactivation of bacteria.**
Calin, M. A., & Ion, R. M.
(2011). *Journal of Biological Physics*, 37(1), 107-116.
60. **Possible in vivo mechanisms involved in photodynamic therapy using tetrapyrrolic macrocycles.**
Filip, A. G., Clichici, S., Daicoviciu, D., Ion, R. M., Tatomir, C., Rogoian, L., et al.
(2011). *Brazilian Journal of Medical and Biological Research*, 44(1), 53-61.
61. **Investigations on hydroxyapatite powder obtained by wet precipitation.**
Poinescu, A. A., Ion, R. M., Van Staden, R. -, Van Staden, J. F., & Ghiurea, M.
(2010). *Proceedings of SPIE - the International Society for Optical Engineering*, 7821
62. **Synthesis and characterization of magnetic nanoparticles embedded in polyacrylonitrile nanofibers.**
Munteanu, D., Ion, R.M., Cocina, G. C.
(2010). *Proceedings of SPIE - the International Society for Optical Engineering*, 7821

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6. Ion, R.M., Fierascu, R.C., Dumitriu, I., Nanomateriale fulerenice, **Editura: Transversal Targoviste**, 210 p, 2011, ISBN: 978-606-8042-87-9

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4. RM Ion, in "New trends in photodynamic therapy-review, in „Aspects of Photodynamic medicine” Biomedicine Engineering Acta", 3/2008, pp.123-159, H.Podbielska, A.Sieron, W.Strek, (Eds.), Wroclaw, Poland, 2008 (English)
5. RM Ion, Nanomedicine between laboratory and clinical applications, in Nanostructuring and Nanocharacterization, in Series in Micro and Nanoengineering (eds. M.Zaharescu, M.Ciurea, D.Dascalu), Ed. Academiei, 241–256, 2010, 272-293, ISBN: 978-973-27-1905-3 (English)
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1. Ion Rodica-Mariana [Ro]; Doncea Sanda Maria [Ro], Composition For Paper Deacidification, Process To Obtain It And Method For Its Application, EP 2626464 B1

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10. Ion Rodica Mariana; Doncea Sanda Maria; Moraru Ionut; Stoica Rusandica; Bunghez Ioana Raluca; Moraru Horia; Oancea Florin, Process For Complex Exploitation Of Beneficial Active Ingredients From Plants Containing Allergens And/Or Toxic Compounds, RO128904 (A0) — 2013-10-30
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VISITING POSITIONS

2013-Invited professor at Dijon University, France

2007- Invited professor at **Rouen University**, France

2007-RM Ion, Photodynamic therapy: sensitizers, mechanism, and clinical applications, **Pierre-Marie Curie University, Paris**.

2006-RM Ion, Photodynamic therapy: sensitizers, mechanism, and clinical applications, Invited speaker at Oxford University, Queen's College, **Oxford**;

2006-RM Ion, Recent developments at the iterace between nanomaterials and medicine, NANOMEDICINE, **Barcelona**, Spain;

2006-RM Ion, Terapia fotodinamica – de la cercetarea de laborator la aplicatiile clinice, ITIM Cluj Napoca;

2006-R.M.Ion, Chemical and Clinical aspects of PDT, **Humboldt University**;

2006: Invited speaker at **Sorbona University**, Paris, France.

1999: Invited Profesor - Universitatea Mustafa-Kemal, **Antakya-Hatay, Turcia**, "Combined therapied for cancer therapies", Turcia.

2000: Invited Profesor **Lisbon University** "Photophysical and photochemical properties of porphyrins and

phthalocyanines", Portugalia;

1998: Invited Profesor **Technical University Istanbul** "Photophysical and photochemical properties of porphyrins and phthalocyanines", Turcia.

1998: NATO stage, **Technical University Istanbul, Turkey**; Visiting Professor;

1999: Mustafa Kemal University, **Antakia-Hatay, Turkey**; Visiting Professor;

1996: **Poznan Technical University**, Poland; Visiting Professor;

1997: **Poznan Technical University**, Poland; Visiting Professor;

1994: Invited Profesor **Chisinau Academy**, "Fotodegradarea porfirinelor-metode teoretice si cuantice", Republica Moldova.

1987: Invited Profesor at Institute of **Physical Chemistry Moscow**, "Porfirine ca modele biomimetice in conversia fotoelectrochimica a energiei solare", URSS

INTERNATIONAL PROGRAMMS AND PROJECTS

- a. 2016-2018: Bilateral Cooperation Romania-Republic of South Republic: A METHOD BASED ON NANOMATERIALS FOR CONSERVATION OF PAPER AND WOOD ARTIFACTS
- b. UE- FP6 – 2007-2010: Development of high throughput approaches to optimize the nutritional value of crops and crop-based foods – DEVELONUTRI, <http://www.scri.ac.uk/research/ppfq/foodquality/foodsafety/develonutri>
- c. 2016-2018: Bilateral Cooperation Romania-Republic of South Republic: Tehnologia nanoparticulelor pentru terapia fotodinamica a cancerului
- d. 2002-2006: Principal Coordinator at COST D20/WG0012/02 : "New Molecular systems with therapeutic applications in photodynamic therapy of cancer and microbial infections"http://w3.cost.esf.org/index.php?id=189&action_number=D20
- e. 2006-present: Romanian Representant of EuCheMS platform (European Association for Chemistry for Life Science) <http://www.euchems.org/CFECS/location.cfm>
- f. 2009-present: Romanian Representant of Chem Platform (European Technology Platform For Sustainable Chemistry) <http://www.suschem.org/en/related/links-to-national-platforms-or-contact-points>
- g. 2005-2010: Management Committee of COST Chemistry Action D39 - "Metallo-Drug design and action" http://w3.cost.esf.org/index.php?id=189&action_number=D39
- h. 2000-2006: Management Committee of COST Chemistry Action D20/WG0012/02 "New Molecular systems with therapeutic applications in photodynamic therapy of cancer and microbial infections" http://w3.cost.esf.org/index.php?id=189&action_number=D20
- i. 2000-2006: Management Committee of COST Chemistry Action D18/0003/00 "Lanthanides in diagnosis (in vivo and in vitro)" http://www.cost.esf.org/domains_actions/cmst/Actions/Lanthanide_Chemistry_Diagnosis_Therapy
- j. 2010-2014: Management Committee of COST TD1002 "European network on applications of Atomic Force Microscopy to NanoMedicine and Life Sciences (AFM4NanoMed&Bio)" http://www.cost.esf.org/domains_actions/bmbs/Actions/TD1002
- k. 1996-2001: Management Committee of COST D8: "Chemistry of metals in medicine (COMM)" http://www.cost.eu/COST_Actions/cmst/D8?

AWARDS

Diploma de Onoare « Omul Zilei », Romanian Biographic Institute, Romania, 2017

IWIS, 2017, Warsaw, Poland

1. Gold medal and Diploma de Excelenta pentru inventia Compozitiei pentru brevetul de inventie: Deacidifierea hartiei, procedeu de obtinere si procedeu de aplicare a acesteia - International Warsaw Inventions Show, 2017
2. Silver medal and Diploma de Exceenta pentru brevetul de inventie: Deacidifierea hartiei, procedeu de obtinere si procedeu de aplicare a acesteia - International Warsaw Inventions Show, 2017
3. Special award offered by Thailand at International Warsaw Inventions Show, 2017

Infoinvent Chisinau, Moldova, 2017

1. Certificatul de excelenta al Portugaliei pentru inventia Compozitiei pentru brevetul de inventie: Deacidifierea hartiei, procedeu de obtinere si procedeu de aplicare a acesteia
2. Diploma si medalia de aur pentru brevetul Compozitiei pentru deacidifierea hartiei, procedeu de obtinere si procedeu de aplicare a acesteia

Inova, Zagreb, 2017

1. Gold medal and Diploma de Excelenta pentru inventia Compozitiei pentru brevetul de inventie: Deacidifierea hartiei, procedeu de obtinere si procedeu de aplicare a acesteia – Inova International Inventions Show, Zagreb, 2017
2. Silver medal and Diploma de Excelenta pentru brevetul de inventie: Deacidifierea hartiei, procedeu de obtinere si procedeu de aplicare a acesteia Inova International Inventions Show, Zagreb, 2017

EUROINVENT 2017, Iasi, Romania

1. Diploma si medalia de aur pentru brevetul de inventie: Composition for paper deacidification, process to obtain it and method for its application, Patent no. EP2626464
2. Diploma si cupa Universitatii Politehnica Bucuresti pentru brevetul de inventie: Composition for paper deacidification, process to obtain it and method for its application, Patent no. EP2626464

INVENTICA, Iasi, Romania

1. Diploma si medalia de aur pentru brevetul de inventie Composition for paper deacidification, process to obtain it and method for its application
2. Diploma si medalie Formul Inventarilor „inventica 2017 pentru brevetul de inventie” Composition for paper deacidification, process to obtain it and method for its application
3. Diploma si medalia de aur pentru brevetul de inventie Paste gel for desulfurisation of calcareous stone surfaces and process for preparing and applying the same
4. Diploma si medalie Formul Inventarilor „inventica 2017 pentru brevetul de inventie: Paste gel for desulfurisation of calcareous stone surfaces and process for preparing and applying the same
5. The Politehnica Innovation award offered by UPB pentru brevetul de inventie: Paste gel for desulfurisation of calcareous stone surfaces and process for preparing and applying the same

EUROINVENT 2016, Iasi, Romania, 2017:

1. Rodica-Mariana Ion, Woman inventor award: National award: EUROINVENT 2016
2. Diploma si medalia de aur pentru proiectul: Cr6+ retention from waste water with polymer membrane systems
3. Diploma si medalia de aur pentru brevetul: Composition of conservation/restoration for surfaces of chalk monuments and its implementation process

CADET-INNOVA, Sibiu Prima Ediție a Salonului Național cu Participare Internațională a Inovării și Cercetării Științifice studențești "Cadet INOVA'16"

1. Sofia Teodorescu, **Rodica Mariana Ion**, Ioana Raluca Șuică Bunghez, Raluca Maria Știrbescu, Ioana Daniela Dulamă, Sisteme polimerice membranare pentru reducerea conținutului de crom (VI) din ape reziduale, Mențiune a Salonului "Cadet INOVA'16", Sibiu

EUROINVENT 2015, Iasi, Romania, 2017:

1. Diploma / Medalie de aur pentru brevetul EPO: Compozitie pentru dezacidifierea hârtiei, procesul de obținere și metoda de aplicare a acesteia
2. Diploma, Cupa si Premiul de Inovare de la Universitatea Politehnica, Bucuresti, brevetul EPO: Compozitie pentru dezacidifierea hârtiei, procesul de obținere și metoda de aplicare a acesteia
3. Diploma de Excelență cu certificat Apreciere pentru RMIon

Excellency Award from the company She Business, at the section „Inovatie & Cercetare” .

Proinvent Cluj-Napoca, Romania, 2015

1. DIPLOMA OF EXCELENCY and GOLD MEDAL for the patent: Composite biomaterials and process for preparing thereof
2. Special prize of Lucian Blaga University of Sibiu for the patent: Composite biomaterials and process for preparing thereof

EUROINVENT 2015, Iassy, Romania, 2015:

1. Diploma / Gold Medal for the patent: Sun protection gel to the skin, and process for producing and use thereof
2. Diploma / Gold Medal for the patent: Composite biomaterials and process for preparing thereof
3. Diploma/Gold Medal and Placca of Haller Foundation, Poland for the patent: Composite biomaterials and process for preparing thereof

4. Diploma of Excelency and EUROINVENT CUP with Appreciation certificate for R.M.Ion

INVENTICA 2015, Iassy, Romania

1. Diploma / Gold Medal for the patent: Sun protection gel to the skin, and process for producing and use thereof
2. Diploma / Gold Medal for the patent: Composition for paper deacidification, process to obtain it and method for its application
3. Honorary Diploma for the high scientific level for the project: CHALK RESTORE

EUROINVENT 2014, Iassy, Romania:

1. Diploma / Gold Medal for the patent: Composition and method for treating, chemical restoration and biological disinfection of paper surface for documents oif archives and libraries
2. Diploma / Gold Medal and Certificat of Malaysia University for the patent: Utilizarea porfirinei tetrasulfonate in fabricarea unui agent fotosensibilizator pentru terapia dermatologica
3. The best research project: Innovative Method Based On Nanomaterials For Cultural Heritage Conservation

EUREKA-INNOVA, Bruxelles, 2014

1. Diploma / Gold Medal for the patent: Composition and method for treating, chemical restoration and biological disinfection of paper surface for documents oif archives and libraries
2. Haller Foundation Diploma for the patent: Composition and method for treating, chemical restoration and biological disinfection of paper surface for documents oif archives and libraries
3. Diploma awarded by the Industrial Chemistry Institute Warsaw, Poland for the patent: Composition and method for treating, chemical restoration and biological disinfection of paper surface for documents oif archives and libraries
4. Order Innovative Merit as Officer of Belgium, awarded to Rodica-Mariana Ion for the entire innovative activity

National Salon of Research and Innovation, BACAU, Romania, 2014

1. Diploma / Gold Medal for the patent: Composition and method for treating, chemical restoration and biological disinfection of paper surface for documents of archives and libraries
2. Diploma / Gold Medal for the patent: Using porphyrin photosensitizer tetrasulfonate in the manufacture of a dermatological therapy
3. Diploma / Gold Medal for the patent: Biomaterial compozit și procedeu de obținere

THE 3RD VIRTUAL INTERNATIONAL CONFERENCE ON ADVANCED RESEARCH IN SCIENTIFIC AREAS (ARSA-2014) SLOVAKIA

1. The best paper: NEW METALLO-SENSITIZERS IN PHOTODYNAMIC THERAPY, Rodica-Mariana Ion, Ana-Alexandra Sorescu, Alexandrina Nuta, Rodica-Mariana Ion

International Salon of Inventics, PROINVENT Cluj-Napoca, 2013

1. Excellency award and Gold Medal for the patent: Composition and method for treating, chemical restoration and biological disinfection of paper surface for documents of archives and libraries
2. Diploma of Technical University of Moldova for the patent: Composition and method for treating, chemical restoration and biological disinfection of paper surface for documents of archives and libraries
3. Diploma and gold Medal EUROINVENT for the patent: Composition and method for treating, chemical restoration and biological disinfection of paper surface for documents of archives and libraries

EUROINVENT, Iassy, Romania, 2013

1. Silver Medal for the patent: Composition and method for treating, chemical restoration and biological disinfection of paper surface for documents of archives and libraries
2. Gold Medal for the patent: Using porphyrin photosensitizer tetrasulfonate in the manufacture of a dermatological therapy
3. Diploma / Gold Medal and Certificat of Malaysia University for the patent: Using porphyrin photosensitizer tetrasulfonate in the manufacture of a dermatological therapy
4. Diploma awarded by PRO INVENTIO HALLER FOUNDATION for the patent: Using porphyrin photosensitizer tetrasulfonate in the manufacture of a dermatological therapy

40th Salon of inventions, Geneve, Swiss, 2012

1. Silver Medal for the patent: Soap composition with anti-microbial and anti-bacterian activity

39th Salon of inventions, Geneve, 2011;

1. Gold Medal for the patent: New composition based on hydroxyapatite for chemical treatment and biological disinfection for paper documents

Salonul de Inventica, Bruxelles, 2011

1. Gold Medal for the patent: New composition based on hydroxyapatite for chemical treatment and biological disinfection for paper documents

Salonul de Inventica, IWIS, Polonia, 2011

1. Silver Medal for the patent: New composition based on hydroxyapatite for chemical treatment and biological disinfection for paper documents

ARCA, Zagreb, Croatia, 2011

1. Gold medal for the patent: New composition based on hydroxyapatite for chemical treatment and biological disinfection for paper documents

INVENTICA, Iassy, 2011

1. Honour Diploma for the patent: Composition And Treatment Procedure With Hydroxiapatite Nanoparticles For Chemical Restoration and Biological Desinfection Of Historical Paper Surface
2. The award The Women Inventor
3. Gold Medal for the project PNII 22-110
4. Gold Medal Henry Coanda for the patent: Composition And Treatment Procedure With Hydroxiapatite Nanoparticles For Chemical Restoration And Biological Desinfection Of Historical Paper Surface
5. Gold Medal Henry Coanda for the invention: Tetra-sulphonated porphyrin application for producing a dermatologic therapy – photosensitizer

iENA 2010, Nurnberg, Germany, 2010

1. Silver Medal and Diploma Exhibition of Inventions for the patent: New composition based on hydroxyapatite for chemical treatment and biological disinfection for paper documents
2. Special Prize and Excellency Diploma for the patent: New composition based on hydroxyapatite for chemical treatment and biological disinfection for paper documents
3. Excellency medal from Romanian Authority of Scientific Research, for participation at iENA 2010, Nurnberg

37th Salon of Inventions, Geneva, Swiss, 2009

1. Gold metal with Congratulations of Jury for a patent Tetra-sulphonated porphyrin application for producing a dermatologic therapy – photosensitizer
2. Special prize of Russian Ministry of Science and Education for a patent: Tetra-sulphonated porphyrin application for producing a dermatologic therapy – photosensitizer

ARCA, Zagreb, 2009

1. Silver medal for the patent: New composition based on hydroxyapatite for chemical treatment and biological disinfection for paper documents

PRO INVENT, Cluj, 2009

1. Diploma de Excelenta si Medalia de Argint for the patent: Tetra-sulphonated porphyrin application for producing a dermatologic therapy – photosensitize
2. Award "Best Scientist of the year 2010", Dinu Patriciu Foundation, Bucharest, Romania;

12th Moscow International Salon of Industrial Property "Archimedes – 2009

1. Special award „New Times” awarded by Ukraine, for the patent: Tetra-sulphonated porphyrin application for producing a dermatologic therapy – photosensitizer)
2. Gold medal for the patent: Tetra-sulphonated porphyrin application for producing a dermatologic therapy – photosensitizer)

Romanian Minstry of Scientific Research, 2008

1. Gold Metal – Romanian Award from the Research Ministry for the Project CEEEX 18/2005, Health area, 2008

EUREKA Innova Brussels, Bruxelles, 2008

1. Gold metal for a patent Tetra-sulphonated porphyrin application for producing a dermatologic therapy – photosensitizer
2. Prize of Rudy Demotte, Minister President of the Walloon Government – EUREKA Innova Brussels – First prize for the patent request (Tetra-sulphonated porphyrin application for producing a dermatologic therapy – photosensitizer)

Memberships to Editorials Boards of International Journals

- 1) Scientific Bulletin of valahia University: Materials and Mechanics, ISSN: 1844-1076
- 2) International J.Photoenergy, 2011 "Photomedicine and Photo Nanosystems", Guest Editors: Rodica-Mariana Ion, Tebello Nyokong, G. Gyulkhandanyan, Danuta Wrobel; Manuscript Due: May 15, 2011; Publication Date: November 15, ISSN: 1110-662X; e-ISSN: 1687-529X; doi:10.1155/IJP2011; <http://www.hindawi.com/journals/ijp/osi.html>

- 3) BRAIN. Broad Research in Artificial Intelligence and Neuroscience, ISSN 2067-3957, volume 1, October 2010, Special Issue on Advances in Applied Sciences, Eds Barna Iantovics, Marius Marusteri, Rodica-M. Ion, Roumen Kountchev;
- 4) Editorial Team of Journal of Biophysics and Structural Biology, <http://www.academicjournals.org/JBSB/Email.htm>
- 5) Editor at Journal of Cancer Research and Experimental Oncology; <http://www.academicjournals.org/jcreo/Editors.htm>

14.12.2017 - Bucharest