

**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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- Type of business or sector
- Occupation or position held

ION, RODICA-MARIANA

1. VALAHIA University, Targoviste, Romania
 2. National Institute of Research and Development in Chemistry and Petrochemistry – ICECHIM, Bucharest, Romania
- 00-40-21-316.30.94**
00-40-21-316.30.94
rodica_ion2000@yahoo.co.uk; analize@icechim.ro
Romanian
07 XII 1958

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

2004-PRESENT

VALAHIA University, Targoviste, Romania

Teaching activity

Full professor on Nanomaterials

Professor 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

Professor 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 Antalya (1)

2012-prezent

Valahia University

Director of the Research Center: Nanomaterials for mechanical microsystems
Director of Research Center

<ul style="list-style-type: none"> • Main activities and responsibilities 	<p>Coordination of Research Center activity and managerial activity</p>
<p>Dates (from – to)</p> <ul style="list-style-type: none"> • Name and address of employer • Type of business or sector • Occupation or position held • Main activities and responsibilities 	<p>2013-2018</p> <p>ICECHIM, 202 Splaiul Independentei Bucharest-060021, Romania</p> <p>Scientific Research and management activity</p> <p>Head of NANOMEDICINE GROUP</p> <p>Coordination, participation and valuation of scientific projects and studies of applied research (materials, drugs, risk assessment, materials)</p> <p>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.</p> <p>Participation on national and international studies and scientific activities related to nanomaterials</p> <p>Planning, implementation and evaluation of scientific programs; administrative co-ordination and organization of collaborative groups.</p> <p>Presentation of results in seminars, workshops and National and International congresses</p> <p>Publication of results of research studies and projects in peer-reviewed periodicals</p>
<p>Dates (from – to)</p> <ul style="list-style-type: none"> • Name and address of employer • Type of business or sector • Occupation or position held • Main activities and responsibilities 	<p>2018-PRESENT</p> <p>ICECHIM, 202 Splaiul Independentei Bucharest-060021, Romania</p> <p>Scientific Research and management activity</p> <p>Head of Evaluation and conservation of cultural heritage Research Group</p> <p>Coordination, participation and valuation of scientific projects and studies of applied research (nanomaterials, risk assessment, materials)</p> <p>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.</p> <p>Participation on national and international studies and scientific activities related to nanomaterials application on Monuments and artifacts</p> <p>Planning, implementation and evaluation of scientific programs; administrative co-ordination and organization of collaborative groups.</p> <p>Presentation of results in seminars, workshops and National and International congresses</p> <p>Publication of results of research studies and projects in peer-reviewed periodicals</p>
<p>Dates (from – to)</p> <ul style="list-style-type: none"> • Name and address of employer • Type of business or sector • Occupation or position held • Main activities and responsibilities 	<p>2008-PRESENT</p> <p>ICECHIM, 202 Splaiul Independentei Bucharest-060021, Romania</p> <p>Scientific Research and management activity; President of Scientific Council; Board Vicepresident.</p> <p>Head Department of Analytic Departament</p> <p>Coordination of scientific and laboratory tests for <i>third parties</i></p>
<p>Dates (from – to)</p> <ul style="list-style-type: none"> • Name and address of employer • Type of business or sector • Occupation or position held • Main activities and responsibilities 	<p>1984-2001</p> <p>ZECASIN S.A., 202 Splaiul Independentei, 060021 Bucharest, Romania</p> <p>Scientific Research</p> <p>Head of Photochemistry Department</p> <p>Coordination of Research Center activity and managerial activity</p>
<p>EDUCATION AND TRAINING</p> <p>Dates (from – to)</p> <ul style="list-style-type: none"> • Name and type of organisation providing education and training 	<p>2010</p> <p>ASE Bucharest, Bucharest, Romania.</p>

<ul style="list-style-type: none"> • Principal subjects/occupational skills covered • Title of qualification awarded • Level in national classification (if appropriate) 	<p>Master of University Management</p> <p>Master Diploma of master</p>
<ul style="list-style-type: none"> • 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) 	<p>FIATEST S.A., Bucharest, Romania, Governmental Institution.</p> <p>Management of internal and international projects</p> <p>Certificate Post-graduate studies</p>
<ul style="list-style-type: none"> • 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) 	<p>RENAR S.A., Bucharest, Romania, Governmental Institution.</p> <p>Quality Auditor for ISO 9001 and ISO SR EN 17025:2005 standards</p> <p>Certificate Post-graduate studies</p>
<ul style="list-style-type: none"> • 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) 	<p>2004</p> <p>RENAR S.A., Bucharest, Romania, Governmental Institution.</p> <p>Practical solutions for uncertainty measurements for laboratory accreditation, Accreditation and validation after UE rules</p> <p>Certificate Post-graduate studies</p>
<ul style="list-style-type: none"> • Dates (from – to) • Name and type of organisation providing education and training • Title of qualification awarded • Level in national classification (if appropriate) 	<p>2001</p> <p>MBA International Institute by Correspondence, Bucharest.</p> <p>Diploma on Management of Organizations</p> <p>Post-graduate studies</p>
<ul style="list-style-type: none"> • Dates (from – to) • Name and type of organization providing education and training • Principal subjects/occupational skills covered • Title of qualification awarded • Level in national classification (if appropriate) 	<p>1994-1995</p> <p>Polytechnical University of Bucharest, Chemical Engineering Faculty, Bucharest, Romania</p> <p>Post-Doctoral Fellowship Analytical Methods and characterization of surfaces and films</p> <p>Diploma Post doctoral professional formation</p>
<ul style="list-style-type: none"> • Dates (from – to) • Name and type of organisation providing education and training 	<p>1988-1989</p> <p>University of Bucharest, Physics Faculty, Solid State Physics, Magurele Bucharest</p>

<ul style="list-style-type: none"> • Principal subjects/occupational skills covered • Title of qualification awarded • Level in national classification (if appropriate) 	Post-graduate Fellowship
<ul style="list-style-type: none"> • Dates (from – to) 	1987-1988
<ul style="list-style-type: none"> • Name and type of organisation providing education and training • Principal subjects/occupational skills covered • Title of qualification awarded • Level in national classification (if appropriate) 	Polytechnic Institute, Bucharest Post-university Fellowship on photochemistry
<ul style="list-style-type: none"> • Dates (from – to) 	1990-1995
<ul style="list-style-type: none"> • Name and type of organisation providing education and training • Principal subjects/occupational skills covered • Title of qualification awarded • Level in national classification (if appropriate) 	University of Bucharest Doctoral studies on spectroscopy for porphyrins
<ul style="list-style-type: none"> • Dates (from – to) 	1977-1982
<ul style="list-style-type: none"> • Name and type of organisation providing education and training • Principal subjects/occupational skills covered • Title of qualification awarded • Level in national classification (if appropriate) 	Polytechnic Institute, Bucharest Chemistry Licence in chemistry Graduation diploma on chemistry
PERSONAL SKILLS AND COMPETENCES <i>Acquired in the course of life and career but not necessarily covered by formal certificates and diplomas.</i>	
MOTHER TONGUE OTHER LANGUAGES	ROMANIAN
<ul style="list-style-type: none"> • Reading skills • Writing skills • Verbal skills 	English B2 B2 B2
OTHER LANGUAGES	French B2 B2 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:

2015-2018: 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: 220 published papers in ISI journals; 200 non-ISI published papers

HIRSCH index: 23 (SCHOLAR GOOGLE); 19 (SCOPUS), 17 (ISI WEB OF KNOWLEDGE)

Books: 6 books and 16 book chapters

Patents: 19 national patents; 1 european patent

List of publications

1. R.M. Ion, T. Nyokong, N. Nwahara, I.R Suica-Bunghez, L. Iancu, S. Teodorescu, I. D. Dulama, R. M. Stirbescu, A. Gheboianu, R. M. Grigorescu, Wood preservation with gold hydroxyapatite system, *Heritage Science*, 2018, 6:37, pp.1-12
2. Marius Bumbac, Radu Lucian Olteanu, Rodica-Mariana Ion, Cristina Nicolescu, Influence of temperature on the growth of silver nanoparticles synthesized using salvia officinalis aqueous extract, Revista de Chimie -Bucharest- Original Edition- 69(8):1934-1938, 2018
3. Nicolae Mihail Stirbescu, Rodica Mariana Ion, Adrian Radu, Sofia Teodorescu, Ioan Alin Bucurica, Raluca Maria Stirbescu, Maria Geba, Ioana Daniela Dulama, Complex Analytical Investigations of Old Wax - sealed Romanian Paper Documents, *REV.CHIM.(Bucharest)*, 69(7), 2018, 1608-1611

4. Carolina Constantin, Andreea-Roxana Lupu, Tudor Emanuel Fertig, Mihaela Gherghiceanu, Sevinci Pop, Rodica-Mariana Ion, Monica Neagu, *Unveiling Ga (III) phthalocyanine – a different photosensitizer in neuroblastoma cellular model*, Journal of Cellular and Molecular Medicine 2018:1-9, IF=4.403
5. Fierascu RC, Fierascu R, Somoghi R, Ion RM, Moanta A, Avramescu SM, Damian CM, Ditu LM. Tuned apatitic materials: synthesis, characterization and potential antimicrobial applications. *Applied Surface Science, Vol.438, 127-135, 2018*
6. S.Dragomir, A.Hudita, B.Galateanu, M.Costache, R.M.Ion, O.Ginghina, M.Stan, D.L.Baconi, C.Negrei, Alginate microencapsulated capsaicin suppresses ROS production and sustains human dermal fibroblasts cells viability, *Toxicology Letters*, Volume 295, Supplement 1, 10 October 2018, Pages S265-S266, DOI: 10.1016/j.toxlet.2018.06.1073; IF=3.166
7. RL Olteanu, CM Nicolescu, M. Bumbac, ID Dulama, RM Ion, IR Suica Bunghez Study on Critical Micelle Concentration Influence in Green Synthesis of Silver Nanoparticles Assisted by Sapindus mukorossi Aqueous Extract, *REV.CHIM.(Bucharest), 69 (6), 2018, 1339-1345*
8. OR Bancuta, A Chilian, I. Bancuta, R. Setnescu, T. Setnescu, RM.Ion, Thermal Characterization of Resveratrol, *REV.CHIM.(Bucharest), 69 (6), 2018,1346-1351.*
9. R.M. Ion, L. Iancu, R. M. Grigorescu, S. Tincu, G. Vasilievici, N. Ion, I. A. Bucurica, S. Teodorescu, I. D. Dulama, R. M. Stirbescu, C. Radulescu, M. L. Ion, Arhaeometric investigations on ceramic materials from Hunedoara – The Court Area, *Journal of Science and Arts, Year 18, No. 2(43), pp. 471-480, 2018*
10. P. Ghioca, R.M. Grigorescu, L. Iancu, B. Spurcaci, C.A. Nicolae, A.R. Gabor, Styrene-diene Block-copolymers Reinforced with Polystyrene, *Materiale Plastice, 55 (1), 2018, pp. 14-19.*
11. R.M Ion, L. Iancu, R.M. Grigorescu, D. Carutiu-Turcanu, S. Tincu, N. Ion, I.A. Bucurica, S. Teodorescu, I.D. Dulama, R.M. Stirbescu, A. Gheboianu, M.L. Ion, Arhaeometric Concepts and Methods of Intervention on Historical Monument Buildings. The Case of the Corvins' Castle, *IOP Conf. Ser.: Mater. Sci. Eng. 374 012073, DOI: 10.1088/1757-899X/374/1/012073*
12. R.M. Ion, V. Gurgu, I.A. Bucurica, S. Teodorescu, I. D. Dulama, R. M. Stirbescu, A. Gheboianu, Digital scanning and non-destructive techniques for size recovering and rehabilitating the structural performance of traditional stuccoes, Proc. *VRTCH'18 – Springer, 2018*
13. **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
14. **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
15. **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 Mariana Ion, Lucian Gligor, Ioana Baldea
PLOS, March 9, 2017, <https://doi.org/10.1371/journal.pone.0173241>
16. **Polymeric Membrane for Verteporfin Purification**
Stefania Simionescu, Sofia Teodorescu, Rodica Mariana Ion, Elena Voicila, Gheorghe Nechifor
MATERIALE PLASTICE, 54, No.1 , 2017, 14-17

17. *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
18. *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
19. *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
20. *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
21. *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
22. *Archaeometallurgical Characterization of Numismatic Artifacts*
R.C. Fierascu, R.M.Ion, I.Fierascu
Instrumentation Science & Technology 43(1) (2015) 107-114
23. *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. Stihi, I.V. Popescu, Gh. V. Cimpoca, A. Gheboianu
Romanian Reports in Physics, 67(3) 2015, pp.1138-1151
24. *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
25. *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
26. *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
27. *Mechanical properties of polypropylene - REOGARD 2000® composite*
VILCEA Elena Janina · ION Rodica-Mariana,
Applied Mechanics and Materials 05/2015; 760:317-322

28. ***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
29. ***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. Bunghes, M.L. Ion, S. Teodorescu, G. Vasilievici, V. Rădițoiu,
Applied Surface Science, 2015, doi:10.1016/j.apsusc.2015.08.196
30. ***Thermal characterization of the resveratrol***
Bancuta, I. Bancuta, A. Chilian, **R.-M. Ion**, R. Setnescu, T. Setnescu, A. Gheboianu,
Revista de Chimie, 2016
31. ***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
32. ***Synthesis, spectral and photodynamic Properties of Lithium Phthalocyanine***
D. Boda, R.M. Ion
Revista de Chimie (Bucharest), 2014, 65(11), pp.1271-1274
33. ***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. Dumitrescu, C. Constantin, M. Neagu
Biological research 07/2014; 47(1):33-42 (1.13 Impact Factor)
34. ***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
35. ***Effect Of Porphyrins On The Photobleaching Of Violamycin B1***
D.Boda, RM Ion
Rev.Chim. (Bucharest), 65(10), 2014, pp.1190-1194
36. ***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.
37. ***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
38. ***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.
39. ***Novel three-component composite materials (hydroxyapatite/polymer mixtures) for bone regeneration***

40. *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.
41. *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.
42. *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.
43. *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.
44. *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.
45. **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.
46. *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.
47. *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.
48. *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.
49. *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.
50. *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.

51. **Antioxidant properties of biohybrids based on liposomes and sage silver nanoparticles** Barbintă-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.
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1. **R.M.Ion**, "Fotochimie. Principii si Aplicatii". Editura FMR, Bucuresti, Vol.1, 2005; ISBN 973-8151-40-6; ISBN Vol. 1: 973-8151-41-4 (Romanian); Vol.2, 2006; ISBN (10): 973-8151-40-6; ISBN (10); Vol.2: 973-8151-42-2; ISBN (13): 978-8151-42-0 (Romanian); Vol.3, 2006; ISBN (10) 973-8151-40-6; Vol.3-2006-Bibliogr.- ISBN (10): 973-8151-43-0; ISBN (13): 978-973-8151-43-7 (Romanian); Vol.4, 2007; ISBN 973-8151-40-6; Vol. 4-2007- Bibliogr.- ISBN: 978-973-8151-44-4 (Romanian)
2. **R.M. Ion**, "Porphyrins and photodynamic therapy of cancer", FMR Ed., Bucharest 2003, ISBN 973-8151-13-9, 317 pp. (Romanian)
3. **R.M. Ion**, "Nanocrystalline materials", FMR Ed., Bucharest, 2003, ISBN 973-8151-12-0, 283 pp. (Romanian)
4. I. Dumitriu, **R.M. Ion**, R.C. Fierascu, "Arheometria materialelor support", Ed.Transversal, 178 pp, 2011; ISBN: 978-606-8042-86-2 (Romanian)
5. M.A. Calin, **R.M. Ion**, "Terapia Fotodinamica: Principii si aplicatii", BREN Ed., Bucuresti, 2010; ISBN: 978-973-648-929-7 (Romanian)
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International Patents

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7. RM Ion, Sm Doncea, Composition For Paper Deacidification, Process For Obtaining And Process For Applying The Same - RO128766 (A2) — 2013-08-30
8. Rm Ion, Process For Preparing Odorizing Chemical Compounds By Photochemical Conversion Of Light Energy - RO128293 (A2) — 2013-04-30
9. Ion Rodica Mariana; Jecu Luiza Maria; Constantin Mariana; Raut Iuliana; Piscureanu Aurelia Alexandrina, Extra Fine Solid Soap Composition Of Antimicrobial Effect, RO 129369 (A2) — 2014-04-30
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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18. RM Ion, N.Ion, L.Stoica, Agent de matuire a vopeselelor acrilice 2017 -1060/08.12.2017
19. RM Ion, GhNechifor, S.Teodorescu, N.Ion, Peliculă filmogenă cu polimer compozit pentru retenția produșilor de degradare de pe suprafățele picturale și procedeu de obținere a acesteia, 2017 - 1062/08.12.2017

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, **Piere-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 interface 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 therapy 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, **Antakya-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.

INTERNATIONAL PROGRAMMS AND PROJECTS

- a. 2018-2022: COMULIS: COST EU, Member of management Committee
- b. 2016-2018: Bilateral Cooperation Romania-Republic of South Republic: A METHOD BASED ON NANOMATERIALS FOR CONSERVATION OF PAPER AND WOOD ARTIFACTS
- c. 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>
- d. 2016-2018: Bilateral Cooperation Romania-Republic of South Republic: Tehnologia nanoparticulelor pentru terapia fotodinamica a cancerului
- e. 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
- f. 2006-present: Romanian Representant of EuCheMS platform (European Association for Chemistry for Life Science) <http://www.euchems.org/CFFECS/location.cfm>
- g. 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
- h. 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
- i. 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
- j. 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
- k. 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
- l. 1996-2001: Management Committee of COST D8: "Chemistry of metals in medicine (COMM)" <http://www.cost.eu/COST Actions/cmst/D8?>

AWARDS

PROINVENT, Cluj-Napoca 2018

1. R.M. Ion, RC Fierascu, I Fierascu, N Ion, IR Bunghes, Composition for preserving and restoring surfaces of chalk monuments process for preparing the same, Brevet nr. RO131329/2016, Diploma si medalia de aur Pro Invent, 21-23 martie 2018, Cluj-Napoca

EUROINVENT, Iasi, 2018

1. R.M. Ion, Activitate de inventica in domeniul Patrimoniului Cultural, Premiul Special si Cupa pentru Patrimoniu Cultural acordat de Platforma Archeoinvest, Euroinvent, 17-19 Mai 2018, Iasi
2. R.M. Ion, Peliculă filmogenă cu polimer compozit pentru retenția produșilor de degradare de pe suprafetele picturale și procedeu de obținere a acesteia, Diploma si medalia de aur
3. R.M. Ion, Agent de matuire a vopselelor acrilice, Diploma si medalia de aur, , Euroinvent, 17-19 Mai 2018, Iasi
4. Compoziție și procedeu pentru restaurarea suprafetelor picturale afectate de săpunuri metalice, Diploma si medalia de aur, Euroinvent, 17-19 Mai 2018, Iasi

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: Deacidificarea 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: Deacidificarea 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: Deacidificarea hartiei, procedeu de obtinere si procedeu de aplicare a acesteia
2. Diploma si medalia de aur pentru brevetul Compozitiei pentru deacidificarea 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: Deacidificarea hartiei, procedeu de obtinere si procedeu de aplicare a acesteia – Inova International Inventions Show, Zagreb, 2017
2. Silver medal and Diploma de Exceenta pentru brevetul de inventie: Deacidificarea 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 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

2. Diploma si medalie Formul Inventarorilor _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 Inventatorilor _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 Šuică 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 dezacidificarea 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 dezacidificarea 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 of archives and libraries
2. Diploma / Gold Medal and Certificat of Malayesia 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 of 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 of 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 of 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 Malayesia 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 CEEX 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>

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