



Europass Curriculum Vitae

Personal information

First name(s) / Surname(s)

Olaru Ion

Address(es)

102A/45 Independenței Street, 3100, Balti, the Republic of Moldova

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(+373 231 52323 (laboratory) Mobile: +373 69950103

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+373 231 52 4 39

E-mail

ionolaru@mail.ru; ionolaru@gmx.de

Nationality

Romanian

Date of birth

18.11.1956

Gender

Male

Desired employment / Occupational field

“Alecu Russo” Balti State University

Work experience

Dates

2008 to present

Occupation or position held

associate professor

Main activities and responsibilities

Courses and seminars for undergraduate, master students, research activities

Name and address of employer

Faculty of Real Sciences, Alecu Russo Balti State University, Puskin Str. 38, 3100, Balti, Moldova

Type of business or sector

Higher Education

Dates

2002-2008

Occupation or position held

senior lecturer

Main activities and responsibilities

Courses and seminars for undergraduate, master students, research activities

Name and address of employer

Faculty of Real Sciences, Alecu Russo Balti State University, Puskin Str. 38, 3100, Balti, Moldova

Type of business or sector

Higher Education

Dates

1992-2002

Occupation or position held

Senior Scientific Co-worker

Main activities and responsibilities

Research activities

Name and address of employer

Faculty of Real Sciences, Alecu Russo Balti State University,, Puskin Str. 38, 3100, Balti, Moldova

Type of business or sector

Scientific Department

Dates

1988-1992

Occupation or position held

Engineer 1st category

Main activities and responsibilities

Research activities

Name and address of employer

Faculty of Real Sciences, Alecu Russo Balti State University,, Puskin Str. 38, 3100, Balti, Moldova

Type of business or sector

Scientific Department

Dates

1979-1984

Occupation or position held

Senior

Main activities and responsibilities

Research activities

Name and address of employer

Engineer (Technical Disciplines Chair) Faculty of Real Sciences, Alecu Russo Balti State University

Type of business or sector

Higher Education



Education and training

Dates	01.10.1984- 22.03.1987
Title of qualification awarded	PhD
Principal subjects/occupational skills covered	PhD preparation stage / documentation, exams and research activities for PhD thesis preparation
Name and type of organisation providing education and training	Laboratory of Electrochemical Machining, Institute of Applied Physics of the Academy of Science of Moldova,
Level in national or international classification	doctoral Studies
Dates	1974- 1979
Title of qualification awarded	teacher of technical subjects and physics
Principal subjects/occupational skills covered	general physics and technical disciplines (electronics, electrical engineering, materials technology, hydraulics)
Name and type of organisation providing education and training	Faculty of Physics and Technical Disciplines, Alecu Russo Balti State University
Level in national or international classification	
Mother tongue	Romanian / Russian

Other language(s)

Self-assessment

European level (*)

French

English

Understanding				Speaking				Writing	
Listening		Reading		Spoken interaction		Spoken production			
B1	Independent user	B2	Independent user	B1	Independent user	B1	Independent user	B1	Independent user
A1	Basic user	A1	Basic user	A1	Basic user	A1	Basic user	A1	Basic user

(*) Common European Framework of Reference for Languages

Organisational skills and competences	- Director of 2 institutional research projects and member in the research teams of 10 research projects
Scientific and Technical skills and competences	- Design and manufacture of lasers with gaseous active medium; - Physics laboratory: laser application research and measurements parameters; - spectral measurements. - designing electronic circuits and devices: - Vacuum equipments and technologies; - crystalline, nanocrystalline and amorphous thin films deposition techniques; - Synthesis of nanostructured materials using combined technologies. - Synthesis of new material using laser and plasma techniques for applications in various fields,
Computer skills and competences	Windows, Office (MS Word, MS Excel, PowerPoint), Internet, Scientific Software (Microcal Origin).
Distinctions::	Silver medal at the II-nd Saloon of Inventions, Research and Technologic Transfer (Iasi, 1994); Bronze medal at the III-rd Saloon of Inventions, Research and Technologic Transfer (Iasi, 1996); Bronze medal at the International specialized Exhibition "INFOINVENT- 2009" (Chishinau, 2009); Diploma of Bonour at the XV-th international exhibition of research , innovation and technological transfer "Inventica 2011" Iasi, Romania The Gold Medal at the XV-th international exhibition of research , innovation and technological transfer "Inventica 2011" Iasi, Romania
Driving licence	B

Additional information

LIST OF PAPERS

Articles in international journals

1. Эрлихман Ф.М., Энгельгардт Г.Р., Оларь И. Н., Зайдман Г.Н., Доменте Г.С.. Электрохимическое формообразование при наличии изоляции в межэлектродном промежутке, Электронная обработка материалов, 1988, N 2, С. 5-8. (ISSN 0013-5739)
2. Оларь И. Н., Хаселев О. И., Эрлихман Ф.М., Зайдман Г.Н., Влияние особенностей анодных реакций на процесс электрохимического формообразования при изготовлении кольцевых оребрений на внутренних поверхностях теплообменных труб, Электронная обработка материалов, 1988, N 5, С. 9-13. (ISSN 0013-5739)
3. Оларь И. Н., Хаселев О., Эрлихман Ф., Зайдман Г. Влияние состава электролита на электрохимическое формообразование турбулизаторов потока в теплообменных трубах из титанового сплава ПТ-1М, Электронная обработка материалов, 1989, N 2, С.12-15. (ISSN 0013-5739)
4. Дикусар А., Оларь И. Н., О влиянии поверхностного тепловыделения на локализацию анодного растворения в условиях электрохимического формообразования при частичной изоляции катодной поверхности, Электронная обработка материалов, 1994, N 5, с. 74-76. (ISSN 0013-5739)
5. Topală P., Olaru I., New Episodes At The Physical Phenomena Of Electroerosion, Nonconventional tehnologies reviev Nr.3 Editura BREN, București, 2005, p.97-102. (ISSN 1454-3087)
6. Sharagov V., Azarenco O., Lysenco G., Olaru I. The structure and mechanical properties of industrial glasses after action of the constant magnetic field. Nonconventional Technologies Review (Romania).2007. № 2. P. 105–108. (ISSN 1454-3087)

Articles in international collections

7. Șaragov V.A., Olaru I.N., Properties of glass container after Electromagnetic treatment, Proc. of the International Congress on Glass Kyoto, Japan, 2004, CD-ROM 4. (O-07-082)
8. Шарагов В. А., Азаренко О. В., Олару И. Н., Лысенко Г. А. HF–секционирование листового стекла, обработанного импульсным магнитным полем . Lucrările conferinței internaționale „Tehnologii moderne. Calitate. Restructurare.” Chișinău: Tehnica-info. 2005. Vol. V. P. 516-519. (ISBN 9975-9775-8-3)
9. Topală, Pavel; Olaru, Ion; Rusnac, Vladislav; Noi secvențe la tabloul fizic al fenomenului electroeroziunii, Culegerea de lucrări științifice Tehnologii Moderne, Calitate, Restructurare. Chișinău, UTM (recenzată), 2005, p. 298-302. (ISBN 9975-9875-5-9)
10. Topală, Pavel; Olaru, Ion; Balanici, Alexandru; Pereteatcu, Pavel; Interacțiunea particulelor de pulberi cu canalul descărcării electrice în impuls, Culegerea de lucrări științifice Tehnologii Moderne, Calitate, Restructurare. Chișinău, UTM (recenzată), 2005, vol. II, p.302-306. (ISBN 9975-9875-5-9)
11. Pereteatcu, Pavel; Topală, Pavel; Balanici, Alexandru; Olaru, Ion; Mihailov, Valentin; Efecte rezultante ale aplicării cîmpului magnetic asupra interstițiului la alierea suprafețelor prin descărcări electrice, Culegerea de lucrări științifice. Tehnologii Moderne, Calitate, Restructurare. Chișinău, UTM (recenzată), 2005, p. 239-243. (ISBN 9975-9875-5-9)
12. Sharagov V. A., Olaru I. N., Azarenco O. V., Lysenco G. A. Influence constant magnetic field on the microhardness of industrial glasses. Proc. of the Romanian International conference on chemistry and chemical engineering. RICCE XIV. Bucharest, 2005. V. 1. P. S08-264–S08-268
13. Topală P., Stoicev P, Olaru I, Applying strata of depositing formed by the electroerosion method at increasing tool heardening., Buletinul Institutului Politehnic din Iași, T.LII, Fasc 5C, 2006, P.963-969, (ISSN 1223-8139)

29. Țițanu V., Olaru I., Sava P, *Laser cu excimer XeCl cu excitare prin descărcare electrică transversală*, Tezele Conferinței jubiliare "Realizări și deschideri științifice", Bălți, 1995.p.12-13
30. Țițanu V., Olaru I., *Sursă de alimentare în impuls pentru laserul cu excimer*, Tezele Conferinței jubiliare "Realizări și deschideri științifice", Bălți, 1995, p. 13-14.
31. Valeriu Guțan, Ion Olaru, *Annealing cu radiație laser UV a probelor de siliciu implantate cu ioni*, Tezele Conferinței jubiliare "Cultura tehnică - component important al culturii generale", Bălți., 1997, p.12
32. Valeriu Guțan, Ion Olaru, *Cercetări de optimizare a regimurilor de funcționare a laserului cu excimer XeCl*, Tezele Conferinței jubiliare "Cultura tehnică - component important al culturii generale", Bălți, 1997, p.13.
33. Valeriu Guțan, Ion Olaru, *Annealing Technology of UV Laser Radiation*, International Conference on Materials Science and Condensed Mater Physics. Chișinău, July 5-7, 2001, p.190
34. Șaragov V.A., Olaru I.N., *Microhardness of industrial glasses after action of alternative magnetic field*, Book of abstracts of the 7-th ESG Conference., Athens, 2004, p.118
35. V. Guțan, I. Olaru, M. Negritu, A. Siminel, *ZnO microstructures obtained by IR laser radiation influence*, Abstracts of 3rd International Conference on Materials Science and Condensed Matter Physics, Chishinau, 2008, Moldova, p.50. ISBN 978-9975-66-056-3. CZU 53 (082) C64.
36. V.,Guțan, I., Olaru, Mihail Radcenco, M. Negritu, Andrei Cerneleanu, *Synthesis of Zno structures in plasma obtained by impulse electrical discharge*, Abstracts of 3rd International Conference on Materials Science and Condensed Matter Physics, Chishinau, 2008, Moldova, p.51. ISBN 978-9975-66-056-3. CZU 53 (082) C64.
37. V. Guțan, I. Olaru, M. Negritu, Mihail Radcenco, *Sinteza directă a microstructurilor de oxid de zinc prin influență cu energie termică furnizată de diferite surse*, Tezele comunicărilor la Conferința științifică internațională. Proprietățile fizice ale substanțelor în diverse stări, Bălți, 2009, Moldova, p.26. (ISBN 978-9975-931-66-3)
38. V., Guțan, I., Olaru, Negritu, M., Radcenco, M.,Cerneleanu, A., Siminel, A. *Synthesis of ZnO hollow microspheres in plasma obtained by impulse electrical discharge*, Abstracts of 5rd International Conference on Materials Science and Condensed Matter Physics, Chishinau, 2010, p.112. ISBN 978-9975-66-190-4
39. Sharagov, V., Olaru, I., Botezatu, V., Lysenko. G., Azarenco. O., *Mechanical properties of industrial glassware after action of the impulse magnetic field*, 5TH International conference on materials science and condensed mater physics and symposium „Electrical methods of materials treatment” in memoriam of acad. Boris Lazarenko. 2010. Chișinău. Moldova. P. 295. ISBN 978-9975-66-190-4
40. V.Guțan, I. Olaru, *Combined methods for deposition of zinc oxide thin films*, Abstracts of 5rd International Conference on Materials Science and Condensed Matter Physics, Chishinau, 2010, p.330. ISBN 978-9975-66-190-4
41. Sharagov V., Olaru I., Lysenco G., Botezatu V., Azarenco O. *The influence of electromagnetic fields on the mecanical properties of industrial glasses*. Book of abstracts. XXII International Congres son Glass. Bania. Brazil. 2010. P. 151.
42. ШАРАГОВ, В. А., ДУКА, Г. Г., АГАКИ, М. И., ОЛАРУ, И. Н. Структурные изменения в листовом стекле, обработанном электромагнитными полями. Materials of international scientific – practical conference structural relaxation in solids. May 26-28, 2015. Vinnitsa, Ukraine. P. 134 - 136. ISBN 978-966-2337-43-3.
43. ȘARAGOV, Vasile, AGACHI, Mariana, OLARU, Ion. *The process of improving mechanical properties and thermal resistance of industrial glassware. The XIX-th International Exhibition of Research, Innovation and Technological Transfer „Inventica2015”*. România, Iași, 2015. P.331-332. ISSN 1844-7880.

associate professor, Phd, Olaru Ion

44. ШАРАГОВ, В. А., АГАКИ М. И., ОЛАРУ І. Н. Вплив змінного магнітного поля на мікротвердість тарного знебавленого скла. Збірник наукових праць Міжнародної науково-практичної конференції "Хімічна та екологічна освіта: стан і перспективи розвитку". Вінниця, Україна. 2015, Р. 142-146. ISBN 978-966-924-102-3. ŞARAGOV, Vasile, AGACHI, Mariana, OLARU, Ion. The process of improving properties of industrial glassware. The 20th International Salon of Research, Innovation and Technological Transfer „Inventica 2016”. România, Iaşi, 2016. P. 247 - 248. ISSN 1844-7880.
45. ШАРАГОВ, В. А., АГАКИ М. И., ОЛАРУ І. Н. Мікротвердість листового скла, обробленого постійним магнітним полем. III Всеукраїнська науково-технічна конференція "Сучасні тенденції розвитку і виробництва силікатних матеріалів". Львів, Україна. 2016. Р. 14 - 16. ISBN 978-617-7359-48-6.
46. ŞARAGOV, Vasile, OLARU, Ion, AGACHI, Mariana. The process of improving mechanical properties and thermal stability of glass containers. The XXI-th International Exhibition of Inventics „Inventica 2017”. România, Iaşi, 2017. P. 173. ISSN 1844-7880.
47. Василий ШАРАГОВ, Ион ОЛАРУ, Мариана АГАКИ. Применение терромагнитной обработки для повышения термохимических свойств стеклянной тары. *Revistă Tehnoscopia*. 2017, 1(16), р. 14-24. ISBN 1857-3843.
48. Василий Шарагов, Мариана Агаки, Ион Олару. Влияние импульсного магнитного поля на микротвердость листового стекла. "The 9th International Conference on Microelectronics and Computer Science and The 8th Conference of Physicists of Moldova". Chişinău. 2017, P. 491. ISBN 978-9975-4264-8-0.
49. Шарагов, В. А., Агаки М. И., Олару И. Н. Влияние импульсного магнитного поля на микротвердость темно-зеленого бутылочного стекла. Збірник наукових праць Міжнародної науково-практичної конференції "Хімічна та екологічна освіта: стан і перспективи розвитку". Вінниця, Україна. 2017, Р. 211-213. ISBN 978-966-924-684-4.
50. ŞARAGOV, Vasile, OLARU, Ion, AGACHI, Mariana. Process of thermomagnetic treatment of glassware. The XXII-th International Salon of Research, Innovation and Technological Transfer „Inventica 2018”. România, Iaşi, 2018. P. 295. ISSN 1844-7880.
51. ŞARAGOV, V. A., AGACHI M. I., OLARU I. N. Factors affecting the mechanical strength of glass containers exposed to impulse magnetic field. 9th International Conference on materials science and condensed matter physics. Chişinău. 2018. P. 275. ISBN 978-9975-142-35-9.
52. ШАРАГОВ, В. А; ОЛАРУ, И. Н; АГАКИ, М. И. Оценивание структурных изменений в промышленных стеклах под воздействием электромагнитных полей по данным измерения их микротвердости. *Modern engineering and innovative technologies*. 2019, 7 (1), 67–70. ISSN 2567-5273. DOI: 10.30890/2567-5273.
53. ШАРАГОВ, В. А; ОЛАРУ, И. Н; АГАКИ, М. И. Оценивание структурных изменений в промышленных стеклах под воздействием электромагнитных полей по данным измерения их микротвердости.

Modern engineering and innovative technologies. 2019, 7 (1), 67–70. ISSN 2567-5273. DOI: 10.30890/2567-5273.

54. ȘARAGOV, Vasile; AGACHI, Mariana; OLARU, Ion. *Criteria for revealing structural changes in industrial glassware treated by electromagnetic fields*. International Conference „Achievements and perspectives of modern chemistry”. Chișinău. 2019. P. 144. ISBN 978-9975-62-428-2.
55. ȘARAGOV Vasilii, AGACHI Mariana, OLARU Ion. *Elaborarea construcțiilor inductorilor pentru tratarea produselor industriale din sticlă cu câmp magnetic în impuls*. Conferința Științifice Internaționale „Perspectivele și Problemele Integrării în Spațiul European al Cercetării și Educației”. Cahul. 2019. P. 359 - 355. ISSN 2587-3563
56. ȘARAGOV, Vasile, AGACHI, Mariana, OLARU. Ion. *The process of improving mechanical properties and thermal stability of glass containers*. In: *The 24th international exhibition of Inventions Inventica 2020*, July 29-31, 2020, Iași: România, p. 410. ISSN 1844-7880.
57. ШАРАГОВ, В. А., АГАКІ, М. І., ОЛАРУ, І. М. *Вплив електромагнітних полів на склад і структуру промислового скла*. В: *Хімічна наука та освіта в контексті сучасних інтеграційних процесів: збірник наукових праць, за матеріалами Всеукраїнської науково-практичної інтернет-конференції з міжнародною участю, 21 жовтня 2020*. Київ: Україна, с. 25-26.