



Curriculum Vitae *

INFORMAȚII PERSONALE AGOP MARICEL

📍 Stradela Florilor nr.2, Iasi, 700514, Romania

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Sexul M | Data nașterii 05/09/1955 | Naționalitatea română

LOCUL DE MUNCA Universitatea Tehnică „Gheorghe Asachi” din Iași/Profesor univ.dr.fiz.

EXPERIENȚA PROFESIONALĂ

- 1997 –prezent - Profesor univ. dr. fiz., Universitatea Tehnică “Gheorghe Asachi” din Iași
- 2002 –prezent - Profesor asociat și conducător de doctorat în domeniul Fizică, Universitatea “Al. I. Cuza” din Iași
- 2011 – prezent - Profesor asociat, Universitatea „Vasile Alecsandri” Bacău.
- 2013 - prezent - Membru al Școlii Doctorale, Universitatea „Vasile Alecsandri” Bacău.
- 1993 – 1997 - Conferențiar dr. fiz., Universitatea Tehnică “Gheorghe Asachi” din Iași.
- 1990 – 1993 - Lector dr. fiz., Institutul Politehnic Iași.
- 1987 – 1990 - Asistent dr. fiz., Institutul Politehnic Iași.
- 1980 – 1983 - Fizician, Institutul de Reactori Nucleari Energetici Pitești.
- 1984 – 1987 - Fizician, Laboratorul de Inventică al Academiei Române – Filiala Iași.

EDUCAȚIE ȘI FORMARE

- 2013 -Titlul de doctor „ HONORIS CAUSA” Universitatea „Vasile Alecsandri” Bacău, 2013
- 1983- Doctor în Fizică, Facultatea de Fizică Universitatea “Al. I. Cuza” Iași.
- 1979 – 1980 -Facultatea de Fizică, Universitatea “Al. I. Cuza” Iași – specializarea „Corp Solid pentru Institute de Cercetare” (student);
- 1975 – 1979 - Facultatea de Fizică, Universitatea “Al. I. Cuza” Iași (student -șef de promoție pe țară cu media 9.98).
- 1970 – 1974 - Liceul Teoretic George Bacovia Bacău (elev).
- 1962 – 1970 - Școala generală nr. 5 Bacău (elev).

Directii de cercetare: Utilizarea dinamicii neliniare în teoria câmpurilor, în diferite procese fizice (fizica plasmei, fizica stării condensate, fizica fluidului, teoria particulelor elementare, mecanica cuantică, etc.)



COMPETENTE PERSONALE

Limba(i) maternă(e) română

Alte limbi străine cunoscute	INTELEGERE		VORBIRE		SCRIERE
	Ascultare	Citire	Participare la conversație	Discurs oral	
Limba engleză	Foarte bine	Foarte bine	Foarte bine	Foarte bine	Foarte bine bine
Limba franceză	bine	Foarte bine	bine	bine	bine

Competențe de comunicare

- Foarte bune competențe de comunicare dobândite prin experiența proprie de cadru didactic
- aptitudini de dialog social
- posibilitatea de a lucra în echipă
- coordonator de programe de cercetare
- participare la parteneriate educative între diferite facultati
- capacitatea de a lucra cu instituțiile statului.

Competențe organizaționale/manageriale

- leadership in cadrul programelor nationale ca Director grant

Competențe dobândite la locul de muncă

1. investigarea științifică structurată, în principal experimentală, a unor fenomene fizice, perceptibile;
2. Explicarea științifică a unor fenomene fizice și a unor aplicații tehnice ale acestora;
3. Interpretarea unor date și informații, obținute experimental sau din alte surse, privind fenomene fizice și aplicații tehnice ale acestora

Competențe digitale

AUTOEVALUARE				
Procesarea informației	Comunicare	Creare de conținut	Securitate	Rezolvarea de probleme
Foarte bine	Foarte bine	Foarte bine	Foarte bine	Foarte bine

Niveluri: Utilizator independent
-o bună cunoaștere a instrumentelor Microsoft Office

Permis de conducere categoria B



INFORMATII SUPLIMENTARE

Membru in organisme stiintifice internationale/societati profesionale:

1. *European Physical Society*, Geneva, 1984-prezent
2. *The Japan Institute of Metals*, Japonia, 1995 - 1999
3. *Societatea Română de Fizică*, România, 1990 – prezent
4. **Membru corespondent al Academiei Oamenilor de Stiinta** (din 2018-prezent)

Membru in Colegiul de redactie (inclusiv referent) al unei reviste

1. *Journal of Mathematical Physics*, AIP Publishing LLC, ISSN: 0022-2488, IF: 1.234, apariție lunară, (*referent*)
2. *International Journal of Nonlinear Science*, World Academic Press, ISSN: 1749-3889, IF: -, apariție bilunară (*referent*)
3. *General Relativity and Gravitation*, Springer Publishers, ISSN: 0001-7701, IF: 1.668, apariție lunară (*referent*)
4. *Chaos, Solitons and Fractals*, Pergamon-Elsevier Science Ltd., ISSN: 0960-0779, IF: 1.611, apariție lunară (*referent*)
5. *Physics Letters A*, Elsevier Science BV, ISSN: 0375-9601, IF: 1.677, apariție săptămânală (*referent*)
6. *Physica Scripta*, IOP Publishing Ltd, ISSN: 0031-8949, IF: 1.194, apariție bilunară (*referent*)
7. *Nonlinearity*, IOP Publishing Ltd, ISSN: 0951-7715, IF: 1.289, apariție lunară (*referent*)
8. *Buletinul Institutului Politehnic Iași*, Secția Matematică, Mecanică și Fizică, Universitatea Tehnică „Gheorghe Asachi” din Iași, ISSN: 1224-7863, IF: -, aparitie trimestrială (editor șef)
9. *Journal of Engineering Studies and Research*, Universitatea „Vasile Alecsandri” Bacău, ISSN: 2068-7559, IF: - (*membru în comitetul de redacție*)
10. Editor șef al revistei *International Journal of Physics* (2008-2012)

Referent stiintific la reviste internaționale:

- *Journal of Mathematical Physics*
- *International Journal of Nonlinear Science*
- *General Relativity and Gravitation*
- *Chaos, Solitons and Fractals*
- *Physics Letters A*
- *Physica Scripta*
- *Nonlinearity*
- *Non-linear dynamics*
- *Complexity*

Editor invitat al revistei *Complexity* pentru numărul special intitulat: „Fractal-Type Dynamical Behaviors of Complex Systems”**Brevete de invenție:**

- procedee de obținere a unei baterii activabile cu apă de mare, Sandu I., Vicol O., Agop M., Lupuțiu M., No. 102.105/1990;
- materiale heterojuncționale semiconductoare obținute prin coprecipitare secvențială, Sandu I., Bălan T., Agop M., Furnica E., Anghel I.;
- Aerogel polimeric fotoluminescent cu continut de nanostructuri de carbon utilizabil in surse de lumina. C.S. Stan, P. Horlescu, M. Agop, C.A. Peptu, S. E. Bacaita (2023)

Profesor invitat pentru prelegeri la universitati de prestigiu din strainatate:

- Universitatea Lille I, Departamentul de Fizică, Franța (poziție permanentă din 2009)
- Universitatea din Atena, Grecia, Departamentul de Fizică (1999-2010)
- Universitatea din Innsbruck, Institutul de Ioni și Fizică Aplicată, Austria (2011-prezent)
- Universitatea din Reykjavik, Departamentul de Fizică, Island (2011)



➤ Universitatea din Hyogo, Laboratorul de Științe Avansate și Tehnologie pentru Industrie, Japonia (2008)

Premii si distinctii internationale:

➤ „Honorable Mention” acordat de Societatea americană Gravity Research Foundation, Massachusetts, în 1986, pentru Awards for Essays on Gravitation (o lucrare de fizică teoretică)

- Medalia de aur, Brussels Eureka 94, pentru invenția Materiaux heterojonctionnelles semiconductereous obtenus par coprecipitation sequentielle, Sandu I., Balan T., Agop M., Furnica E., Anghel I.

➤ Medalia de aur, Brussels Eureka 94, pentru Piles activables a leau, Sandu I., Gulea A., Agop M., Lupuțiu M., Popa L.

Premii si distinctii nationale:

➤ **Premiul de excelență acordat de Uniunea Armenilor din România pentru întreaga activitate (1995)**

➤ **Doctor Honoris Causa al Universității „Vasile Alecsandri” din Bacău (2013);**

➤ **Membru corespondent al Academiei Oamenilor de Știință din România (din 2018-prezent)**

➤ **Premiile ACADEMIEI ROMANE:**

➤ **1. Secțiunea Științe Fizice**, Premiul ȘERBAN ȚIȚEICA, Nicolae MAZILU, Maricel AGOP, Ioan MERCHEȘ pentru lucrarea *The Mathematical Principles of Scale Relativity Physics. The Concept of Interpretation*, Editura CRC Press, 2020;

➤ **2. Secțiunea Știința și Tehnologia Informației**, Premiul CORNELIU PENESCU, Călin BUZEA, Viorel-Puiu PĂUN, Lucian EVA, Maricel AGOP, Ionel Daniel COJOCARU, Roxana Irina IANCU, Dragoș Teodor IANCU pentru lucrarea *Radiomica. Fundamente și aplicații*, Editura Academiei Române, 2020;

➤ **Premiul pentru cea mai buna carte in domeniu pe anul 2020 („Atomicity through Fractal Measure Theory”**

- Alina Gavriluț, Ioan Mercheș, Maricel Agop, Ed. SPRINGER) **si a 58-a din istoria Editurii SPRINGER;**

➤ Invitație în cadrul Parlamentului European de la Bruxelles, unde a avut loc lansarea volumului **„Towards the multifractal brain by means of informational paradigm”**, realizată de Prof. univ. dr. Maricel Agop, Lector univ. dr. Alina Gavriluț, Manager Dr. Lucian Eva și Dr. Gabriel Crumpei,

➤ Un nr. de 51 de teze finalizate

➤ O carieră academică bogată datorită publicațiilor realizate: 335 articole în jurnale ISI și 80 articole în jurnale indexate BDI;

➤ 26 de cărți publicate la edituri din străinătate

➤ 61 de cărți publicate în țară, la edituri recunoscute CNCSIS (sau CNCS)

➤ H-index=31 (Web of Science)/389 publicatii

Lista de lucrări în domeniul de studii universitare de licență

Numele și prenumele: AGOP MARICEL

A. Teza de doctorat.

Utilizarea funcțiilor eliptice în studiul unor interacțiuni, în special eliptice și gravitaționale

B. Cărți (manuale, monografii, tratate, îndrumare etc.) publicate în străinătate.

1. M. Agop, C. Gh. Buzea, A. Zacharias, E. Marinakis, A. Alegric, "Fundamentals of Space-Time Theory", Athens University Press, Greece, 1997, 106 pag.
2. "Nonlinearities Phenomena in Materials Science", Ed. M. Agop, N. Răzlescu, G. Kalogirou (ed.), Athens University Press, Greece, 1999, 120 pag.
3. "Non-linearities in Materials Science", Ed. M. Agop, E. Zerikiotis (Athens University Press, 2002), 241 pag.
4. "Particles and Fields", Ed. M. Agop, P.D. Ioannou (Athens University Press, 2005), 323 pag.
5. M. Agop, P.D. Ioannou, P. Vizureanu, "Self-structuring in Nature", Athens University Press, Greece, 2006, 311 pag.
6. "The fractal and its implications in the material science", Ed. M. Agop, P.D. Ioannou, P.N. Edward, V. Păun (Athens University Press, 2008), 213 pag.
7. M. Agop, R. Eugen, M. Gârțu, R. Stana, Unified Superconductivity through a Fractal Space-time Theory "Magnetic Mechanism of Superconductivity in Cooper Oxide", Ed. Tanmoy Das (Nova Publishing, New York, 2011) p. 197-235
8. P. Vizureanu, M. Agop, On the Transport Phenomena in Composite Materials using the Fractal Space-Time Theory "Advances in Composite Materials for Medicine and Nanotechnology" Ed. Brahim Attaf (Intech Publishing Croatia, 2011) p. 477-495
9. M. Agop, I. C. Botez, R.S. Luciu, M. Gârțu, Heat Transfer in Nanostructures using the Fractal Approximation of Motion "Two phase flow, phase change and Numerical Modeling" Ed. Amiml Ahsan (Intech Publishing Croatia, 2011) p. 451-485
10. M. Agop, The Fractal Space-Time Theory and its Implications "Horizons in World Physics" (vol.: 273) Ed. A. Reimu (Nova Publishing, New York, 2011) p. 133-171
11. M. Agop, D. Magop, New Considerations in Fractal Space-Time Theory "Clasificati on and Application of Fractals: New research" Eds. E. W. Mitchell, S. R. Murray (Nova Publishing New York, 2012) p. 131-161
12. M. Agop, D. Magop, S. Bacaita, Fractal Hydrodynamic Model and its Implications "New Developments in hydrodynamics research" Eds. M. I. Ibrajmov, M.A. Anisimov (Nova Publishing New York, 2012) p. 159-211
13. N. Mazilu, M. Agop "Skyrmions. A Great Finishing Touch to Classical Newtonian Philosophy" Nova Publishing New York, 2012, 230 pag.
14. C.Gh. Buzea, M. Agop, C. Nejneru, Correspondences of Scale Relativity Theory with Quantum Mechanics "Theoretical Concepts of Quantum Mechanics" Ed. M. R. Pahlavani (Intech Publishing Croatia, 2012) p. 409-445
15. M. Agop, C. Gh. Buzea, S. Băcăiță, A. Stroe, Quantum Effects through a Fractal Theory of Motion "Advances in Quantum Mechanics" Ed. P. Bracken (Intech Publishing Croatia, 2013) p. 723-779
16. M. Agop, N. Teodorescu, Quantum Effect through Non-differentiability of Movements Curves "Contemporary Research in Quantum Systems" Ed. Zoheir Ezziene (Nova Publishing New York, 2014), p. 181-199
17. M. Agop, A. Gavriluț, D. Vasincu, D. Timofte, G. Crumpei, L. Burlea, Possible Correlations among Physical Frame and Quantum Mechanics on Wave-Information-Triad and Cellular Neural Networks via Non-Differentiability "Horizons in World Physics" Ed. Albert Reimer (Nova Publishing New York, 2015), p. 167-205
18. M. Agop, A. Gavriluț, C. Buzea, L. Ochiuz, N. D. Tesloianu, G. Crumpei, C. Popa, Implications of Quantum Informational Entropy in Some Fundamental Physical and Biophysical Models "Selected Topics in Applications of Quantum Mechanics" Ed. M. R. Pahlavani (Intech Publishing Croatia, 2015), pp. 311-345
19. N. D. Tesloianu, V. Ghizdovăț, M. Agop, "Flow Dynamics via Non-Differentiability and Cardiovascular Disease. A Proposal for an Interdisciplinary Approach between Non-Differentiable Physics and Cardiovascular Morphopathology" Scholars Press, Saabracken, Germany, 2015
20. I. Mercheș, M. Agop, "Differentiability and Fractality in Dynamics of Physical Systems" World Scientific, 2016, 299 pages, ISBN: 978-981-4678-39-1;
21. Dan Gh. Dimitriu, M. Agop, Chaos in Plasma Physics "Handbook of Applications of Chaos Theory" Ed. C. H. Skiadas, C. Skiadas (CRC Press Taylor and Francis Group, 2016), p. 321-403;
22. M. Agop, L. Ochiuz, D. Tesloianu, C. G. Buzea and S.A. Irimiciuc, "Non-Differentiable Dynamics in Complex Systems", Nova Science Publisher, ISBN: 978-1-53613-137-6, 2018
23. Nicolae Mazilu, Maricel Agop, Ioan Mercheș, The Mathematical Principles of Scale Relativity Physics: The Concept of Interpretation, CRC Press, 12 sept. 2019 - 252 pagini;
24. Gavriluț, Alina, Mercheș, Ioan, Agop, Maricel

Atomicity through Fractal Measure Theory, Mathematical and Physical Fundamentals with Applications, ISBN 978-3-030-29593-6, 184 pages, Springer International Publishing, 2019;

25. Operational Procedures Describing Physical Systems;

Marciel Agop, Ioan Merches; ISBN 9780367570972

224 Pages; Published June 30, 2020 by CRC Press

26. N. Mazilu, M. Agop, I. Merches, "The Mathematical Principles of Scale Relativity Physics. The Concept of Interpretation" CRC Press Taylor & Francis Group, Boca Raton, London New York, 2020;

27. Ioan Merches, Maricel Agop, Nicolae Mazilu

Scale Transitions as Foundations of Physics

World Scientific Publishing Co.Pte.Ltd., 2021, 399 pages

28. Buzea, C. G., Eva, L., Prelipceanu, M., Cazacu, M. M., Garofalide, S., & Agop, M. (2021). Coronavirus disease COVID-19 tracking the global outbreak. SEIR compartmental model applied to SARS-CoV-2 epidemic in Romania. Biomedical Engineering Tools for Management for Patients with COVID-19, 87–102, Capitolul 5, <https://doi.org/10.1016/B978-0-12-824473-9.00002-1>

29. Mireștean, C. C., Agop, M., Buzea, C. G., Cazacu, M. M., Prelipceanu, M., Iancu, R. I., & Iancu, D. T. (2021). Radiotherapy challenges in COVID era. Biomedical Engineering Tools for Management for Patients with COVID-19, 41–72, Capitolul 3, <https://doi.org/10.1016/B978-0-12-824473-9.00009-4>

30. Mireștean, C. C., Agop M., Buzea C. G., Cazacu M. M., Prelipceanu M., Iancu R. I., Iancu D. T. (2022). Radiotherapy for pelvic malignancies in a COVID-19 pandemic scenario: Focus on rectal and cervical cancers, Biomedical Engineering Applications for People with Disabilities and the Elderly in the COVID-19 Pandemic and Beyond, 131 – 143, Capitolul 14, <https://doi.org/10.1016/B978-0-323-85174-9.00006-6>

31. Maricel Agop and Ștefan Andrei Irimiciuc (2022), A Holographic Implementation for Understanding Nanostructure Dynamics, Series on the Foundations of Natural Science and Technology: Volume 15

Topics in Nanoscience, Part II: Quantized Structures, Nanoelectronics, Thin Films, <https://doi.org/10.1142/12419-vol2> | February 2022, Pages: 408, Edited By: Wolfram Schommers;

32. Ștefan Andrei Irimiciuc, Maricel Agop, and Ioan Merches; Insight on Multifractal Dynamics of ns-Laser Produced Plasmas; <https://doi.org/10.1142/13259> | September 2023, ISBN: 978-981-12-7066-6 (hardcover) Pages: 232;

33. Holographic-Type Behaviors in Complex Systems Dynamics from a Multifractal Perspective of Motion, Catalin Gabriel Dumitras, Vlad Ghizdovat, Cristina Maricela Rusu, Emanuel Nazaretian, Florin Nedeff, Valentin Nedeff, Iosif Iojă and Maricel Agop

Published: 20 February 2025. DOI: 10.5772/intechopen.1009339, 2025;

C. Cărți (manuale, monografii, tratate, îndrumare etc.) publicate în țară, la edituri recunoscute CNCSIS (sau CNCS).

1. M. Agop, N. Mazilu "Fundamente ale fizicii moderne" Editura Junimea Iași, 1989, 179 pag.

2. M. Agop "Probleme de invarianță și haos în teoria mișcării" Editura Gh. Asachi Iași, 1992, 146 pag.

3. M. Agop, N. Mazilu "Fizica procesului de măsură" Editura Ștefan Procopiu, Iași, 1994, 80 pag.

4. M. Agop "Gravitația. Pledoarie pentru o nouă teorie a spațiului și timpului" Editura Graphix, Iași, 1992, 162 pag.

5. C. Cotaie, M. Agop, B. Ciobanu "Fizica, vol. 1 – Mecanica și termodinamica clasică" Editura Ștefan Procopiu Iași, 1999, 357 pag.

6. B. Ciobanu, M. Agop, C. Cotaie "Fizica, vol. 2 – Optică și electromagnetism" Editura Ștefan Procopiu Iași, 1999, 300 pag.

7. C. Buzea, C. Gh. Buzea, P.D. Ioannou, N. Rezlescu, M. Agop "Fizică pentru ingineri. Supraconductibilitate de înaltă temperatură critică" Editura Ștefan Procopiu Iași, 2001, 294 pag.

8. S. Toma, M. Agop, V. Enache "Tehnici moderne de studiu a interferențelor ca aplicații în stomatologie" Editura Ars Longa Iași, 2006, 242 pag.

9. M. Agop, C. Murguleț "Dinamică neliniară, fulgere globulare și structuri cosmice" Editura Ars Longa Iași, 2006, 136 pag.

10. M. Agop, M. P. Jarcău "Fractalitate și Gravitație" Editura Ars Longa Iași, 2006, 138 pag.

11. M. Agop, C. Rusu, P. Nica, V. Enache "Auto-organizarea interferenței solid-lichid și implicații" Editura Ars Longa Iași, 2007, 179 pag.

12. M. Agop, S. Băcăiță "Spațiul-timp fractalic și straturi duble în plasme de descărcare" Editura Ars Longa Iași, 2007, 210 pag.

13. Gh. Maței, M. Buzdugan, M. Agop, I. Mazilu "Gaura neagră între început și sfârșit" Editura Ars Longa Iași, 2007, 176 pag.

14. M. Agop, L.E. Chicoș, "Contribuții la studiul interacțiunii plasmei cu câmpurile fizice" Editura Ars Longa Iași, 2007, 151 pag.

15. S. D. Abăcioaie, M. Agop "Elemente de dinamică neliniară și aplicații" Editura Ars Longa Iași, 2008, 224 pag.

- 16.M. Buzdugan, S. Rusu, M. Agop "Interacțiuni ale câmpurilor fizice cu materia" Editura Ars Longa Iași, 2008, 200 pag.
- 17.Z. Borsos, I. Simaciu, M. Hotinceanu, M. Agop "Sisteme stocastice clasice și cuantice" Editura Ars Longa Iași, 2008, 162 pag.
- 18.V. Enache, M. Agop "Teorii dependente de scală și interacția câmp-materie" Editura Ars Longa Iași, 2008, 166 pag.
- 19.M. Agop, P. Crăciun "Microfractalitate, macrofractalitate și gravitație" Editura Ars Longa Iași, 2008, 188 pag.
- 20.M. Agop, A. Stroe "Spațiu-timp fractalic și gravitație" Editura Ars Longa Iași, 2008, 171 pag.
- 21.V. P. Păun, L. Munteanu, M. Agop Transport phenomena at nanometer scale "Research Trends in Mechanics" Eds. D. Popa, V. Chiroiu, L. Munteanu (Editura Academiei Române, București, 2009) p. 335-354
- 22."Haoticitate, Fractalitate și Câmpuri" Editori M. Agop, M. Colotin, V. P. Păun (Editura Ars Longa Iași, 2009) 197 pag.
- 23.A. Antici, C. Marin, M. Agop "Haos prin stocasticizare" Editura Ars Longa Iași, 2009, 189 pag.
- 24.S. D. Abăcioaie, M. Agop "Dinamici neliniare și gravitație" Editura Ars Longa Iași, 2009, 171 pag.
- 25.C. Popa, M. Agop "Gravitația ca teorie gauge și ruperea spontană de simetrie" Editura Ars Longa Iași, 2009, 182 pag.
- 26.M. B. Răuț, L. Chicoș, R. A. Stana, M. Agop "Predictibilitate și haoticitate în sisteme gravitaționale" Editura Ars Longa Iași, 2009, 138 pag.
- 27.M. C. Perju, G. Gălușcă, C. Nejneru, M. Agop "Straturi subțiri: descărcări în impuls" Editura Ars Longa Iași, 2010, 339 pag.
- 28.N. Cimpoeșu, R. Cimpoeșu, I. Ionașcu, M. Agop "Inteligența materiei din perspectiva aliajelor cu memoria formei" Editura Ars Longa Iași, 2010, 301 pag.
- 29.M. Buzdugan, M. Gârțu, M. Agop "Interacțiunea câmpului electromagnetic cu alte câmpuri fizice" Editura Ars Longa Iași, 2010, 181 pag.
- 30.N. Mazilu, M. Agop "La răscrucea teoriilor. Între Newton și Einstein. Universul Barbilian" Editura Ars Longa Iași, 2010, 185 pag.
- 31.A. Harabagiu, D. Magop, M. Agop "Fractalitate și mecanică cuantică" Editura Ars Longa Iași, 2010, 154 pag.
- 32.G.V. Muncelleanu, D. Magop, C. Marin, M. Agop "Modele fractale în fizica polimerilor" Editura Ars Longa Iași, 2010, 301 pag.
- 33.M. Agop "Complemente de dinamică neliniară cu aplicații în fizică și inginerie" Editura Universității Petrol și Gaze Ploiești, 2011, 113 pag.
- 34.T. Dandu Bibire, D. Magop, C. Marin, M. Agop "Dezordine și regularitate în sisteme gravitaționale" Editura Ars Longa Iași, 2011, 219 pag.
- 35.O. Niculescu, A. Stroe, C. Marin, M. Agop "Neliniaritate și autoorganizare în plasmă" Editura Ars Longa Iași, 2011, 348 pag.
- 36.M. B. Răuț, A. Stroe, M. Buzdugan, M. Agop "Probleme actuale ale teoriei gravitației" Editura Ars Longa Iași, 2011, 133 pag.
- 37.D. Magop, O. Niculescu, A. Stroe, C. Marin, M. Agop "Implicații ale nediferențiabilității în mecanica cuantică" Editura Ars Longa Iași, 2012, 210 pag.
- 38.A. Costan, M. Agop, N. Forna "Studii avansate privind unele proprietăți ale implanturilor dentare din aliaje de titan" Editura Ars Longa Iași, 2012, 264 pag.
- 39.M. B. Răuț, C. Musteață, A. Stroe, C. Marin, M. Agop "Aplicații ale metodei funcției Green în Fizică" Editura Ars Longa Iași, 2012, 121 pag.
- 40.M. Agop, R.S. Luciu, C. Buzea, P. Nica "Utilizarea dinamicii neliniare în modelarea unor procese fizice" Editura Ars Longa Iași, 2012, 138 pag.
- 41.A. Timofte, M. Agop "Diferențiabilitate și fractalitate în dinamica fluidelor" Editura Ars Longa Iași, 2012, 190 pag.
- 42.R. I. Lițoiu, D. G. Gălușcă, N. Cimpoeșu, M. Agop "Proprietăți fizice și structurale ale unor polimeri reînforțați cu nanotuburi" Editura Ars Longa Iași, 2012, 198 pag.
- 43.A. Aluculesei, C. Baci, M. Agop "Biopolimeri nanostructurați. Proprietăți și aplicații" Editura Ars Longa Iași, 2012, 232 pag.
- 44.A. Gavriliuț, M. Agop "O abordare matematică în dinamica sistemelor complexe" Editura Ars Longa Iași, 2013, 130 pag.
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I. Invenții.

➤ Procedee de obținere a unei baterii activabile cu apă de mare, Sandu I., Vicol O., Agop M., Lupuțiu M.,
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➤ Materiale heterojuncționale semiconductoare obținute prin coprecipitare secvențială, Sandu I., Bălan T.,
Agop M., Furnica E., Anghel I.;

Cerere brevet invenție – Aerogel polimeric fotoluminescent cu continut de nanostructuri de carbon utilizabil in
surse de lumina.

C.S. Stan, P. Horlescu, M. Agop, C.A. Peptu, S. E. Bacaita

J. Contracte de cercetare/granturi.

1. Pachet de programe bazat pe algoritmi genetici și rețele neuronale cu aplicații în fizica supraconductorilor
ceramic/CERES-57 /2002 / MEC
2. Sisteme avansate de reconstrucție a formei și de determinare a parametrilor fizico-mecanici a obiectelor 2D și
3D în materiale compozite multistrat utilizând tehnici de ultrasunete; aplicații/CERES-2661P /2003 / MEC
3. Metoda fluctuațiilor și teoria descărcării corona. Aplicație la scăderea energiei specifice a generatoarelor de
ozon/RELANSIN 1916P/2004/MEC
4. Modelarea proceselor fizico-chimice in elaborarea unei metode noi, ecologice, de obținere a titanului/CNCSIS
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5. Proiecte PN III Proiect experimental demonstrativ

„O NOUA ABORDARE A DISPOZITIVELOR DE ILUMINAT EFICIENTE ENERGETIC, BAZATA PE AEROGELURI SI CARBON DOTS” Cod proiect PN-III-P2-2.1-PED-2016-0760 Contract finantare: 77PED/2017, Proiect finantat in cadrul PN-III-P2-2.1-PED-2016 de catre UEFISCDI

K. Premii, distincții.

Premii si distinctii internationale:

- „Honorable Mention” acordat de Societatea americană Gravity Research Foundation, Massachusetts, în 1986, pentru Awards for Essays on Gravitation (o lucrare de fizică teoretică)
 - Medalia de aur, Brussels Eureka 94, pentru invenția *Materiaux heterojonctionnelles semiconductereuses obtenus par coprecipitation sequentieles*, Sandu I., Balan T., Agop M., Furnica E., Anghel I.
- Medalia de aur, Brussels Eureka 94, pentru *Piles activables a leau*, Sandu I., Gulea A., Agop M., Lupuțiu M., Popa L.

Premii si distinctii nationale:

- **Premiul de excelență acordat de Uniunea Armenilor din România pentru întreaga activitate (1995)**
- **Doctor Honoris Causa al Universității „Vasile Alecsandri” din Bacău (2013);**
- **Membru corespondent al Academiei Oamenilor de Știință din România (din 2018-prezent)**
- **Premiile ACADEMIEI ROMANE:**

1. Secțiunea Științe Fizice, Premiul ȘERBAN ȚIȚICA, Nicolae MAZILU, Maricel AGOP, Ioan MERCHEȘ pentru lucrarea *The Mathematical Principles of Scale Relativity Physics. The Concept of Interpretation*, Editura CRC Press, 2020;

2. Secțiunea Știința și Tehnologia Informației, Premiul CORNELIU PENESCU, Călin BUZEA, Viorel-Puiu PĂUN, Lucian EVA, Maricel AGOP, Ionel Daniel COJOCARU, Roxana Irina IANCU, Dragoș Teodor IANCU pentru lucrarea *Radiomica. Fundamente și aplicații*, Editura Academiei Române, 2020;

- **Premiul pentru cea mai buna carte in domeniu pe anul 2020 („Atomicity through Fractal Measure Theory”**
 - Alina Gavriluț, Ioan Mercheș, Maricel Agop, Ed. SPRINGER) **si a 58-a din istoria Editurii SPRINGER;**

➤ Invitație în cadrul Parlamentului European de la Bruxelles, unde a avut loc lansarea volumului **„Towards the multifractal brain by means of informational paradigm”**, realizată de Prof. univ. dr. Maricel Agop, Lector univ. dr. Alina Gavriluț, Manager Dr. Lucian Eva și Dr. Gabriel Crumpei;

➤ Un nr. de 45 de doctoranzi confirmați si 8 doctoranzi in stagiul de formare

➤ O carieră academică bogată datorită publicațiilor realizate: 335 articole în jurnale ISI și 80 articole în jurnale indexate BDI;

➤ 33 de cărți publicate la edituri din străinătate

➤ 61 de cărți publicate în țară, la edituri recunoscute CNCSIS (sau CNCS)

➤ H-index=31 (Web of Science)/389 articole

