

Curriculum Vitae *

INFORMAȚII PERSONALE AGOP MARICEL

 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 in teoria campurilor, in diferite procese fizice (fizica plasmei, fizica starii condensate, fizica fluidului, teoria particulelor elementare, mecanica cuantica, etc.)

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**

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 heterojoncționale semiconductoare obținute prin coprecipitare secvențială”, Sandu I., Bălan T., Agop M., Furnica E., Anghel I.;

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)

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. Alegris, "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 Croația, 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 Croația, 2011) p. 451-485
10. M. Agop, The Fractal Space-Time Theory and its Implications "Horizons in World Physics" (vol.: 273) Ed. A. Reirnu (Nova Publishing, New York, 2011) p. 133-171
11. M. Agop, D. Magop, New Considerations in Fractal Space-Time Theory "Clasification 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 Phylosophy" 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 Croația, 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 Croația, 2013) p. 723-779
16. M. Agop, N. Teodorescu, Quantum Effect through Non-differentiability of Movements Curves "Contemporary Research in Quantum Systems" Ed. Zoheir Ezziane (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

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 reforșați 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.
45. V. R. Radu, M. Agop "Sisteme complexe" Editura Ars Longa Iași, 2013, 169 pag.
46. E. Poll, M. Agop "Efecte neliniare în plasmă de descărcare și ablație" Editura Ars Longa Iași, 2013, 141 pag.

10. Gheorghe Maftai, Mihaela Buzdugan, Maricel Agop, Irina Mazilu - GAURA NEAGRĂ - între început și sfârșit, ISBN: 978-973-8912-46-5, apărut 2007, Ed. Ars Longa;
11. Maricel Agop, Simona Băcăiță - SPAȚIU-TIMP FRACTALIC ȘI STRATURI DUBLE ÎN PLASME DE DESCĂRCARE, ISBN: 978-973-8912-58-8, 2007, Ed. Ars Longa;
12. Maricel Agop, Cristina Radu, Petru Nica, Vlăduț Enache - AUTO-ORGANIZAREA INTERFEȚEI SOLID-LICHID ȘI APLIACȚII, ISBN: 978-973-8912-56-4, 2007, Ed. Ars Longa;
13. Anca Harabagiu, Daniela Magop, Maricel Agop - FRACTALITATE ȘI MECANICĂ CUANTICĂ, ISBN: 978-073-148-059-6, 2010, Ed. Ars Longa;
14. Maricel Agop, Petrică Crăciun, MICROFRACTALITATE, MACROFRACTALITATE ȘI GRAVITAȚIE, ISBN 978-973-8912-99-1, 2008, Ed. Ars Longa;
15. Michael Buzdugan, Ștefan Rusu, Maricel Agop, INTERACȚIUNI ALE CÂMPURILOR FIZICE CU MATERIA, ISBN 978-973-148-004-6, 2008, Ed. Ars Longa;
16. Zoltan Borsos, Ion Simaciu, Mihai Hotinceanu, Maricel Agop, SISTEME STOCASTICE CLASICE ȘI CUANTICE, ISBN 978-973-148-014-5, 2008, Ed. Ars Longa;
17. Vlăduț Enache, Maricel Agop, TEORII DEPENDENTE DE SCALĂ ȘI INTERACȚIA CÂMP-MATERIE, ISBN 978-973-148-012-1, 2008, Ed. Ars Longa;
18. Sergiu-Dan Abăcioaie, Maricel Agop, ELEMENTE DE DINAMICĂ NELINIARĂ ȘI APLICAȚII, ISBN 978-973-148-011-4, 2008, Ed. Ars Longa;
19. Adina Antici, Corina Marin, Maricel Agop, HAOS PRIN STOCASTICIZARE, ISBN 978-973-148-040-4, 2009, Ed. Ars Longa;
20. Camelia Popa, Maricel Agop, GRAVITAȚIA CA TEORIE GAUGE ȘI RUPEREA SPONTANĂ DE SIMETRIE, ISBN 978-973-148-018-3, 2009, Ed. Ars Longa;
21. M. Agop, M. Colotin, V. P. Păun (editori), HAOTICITATE, FRACTALITATE ȘI CÂMPURI, ISBN 978-973-148-034-3, 2009, Ed. Ars Longa;
22. Sergiu-Dan Abăcioaie, Maricel Agop, DINAMICĂ NELINIARĂ ȘI GRAVITAȚIE, ISBN 978-973-148-027-5, 2009, Ed. Ars Longa;
23. Manuela Cristina Perju, Gelu-Dan Gălușcă, Carmen Nejneru, Maricel Agop, STRATURI SUBȚIRI: DESCĂRCĂRI ÎN IMPULS, ISBN 978-973-148-049-7, 2010, Ed. Ars Longa;
24. Nicolae Mazilu, Maricel Agop, LA RĂSCRUCEA TEORIILOR. ÎNTRE NEWTON ȘI EINSTEIN-UNIVERSUL BARBILIAN, ISBN 978-973-148-035-0, 2010, Ed. Ars Longa;
25. Nicanor Cimpoeșu, Ramona Cimpoeșu, Ion Ionașcu, Maricel Agop, "INTELIGENȚA" MATERIEI DIN PERSPECTIVA ALIAJELOR CU MEMORIA FORMEI, ISBN 978-973-148-044-2, 2010, Ed. Ars Longa;
26. Mazilu, Nicolae, Agop, Maricel - Fizica procesului de măsură, (monografie), Editura Ștefan Procopiu, Iași, 1994, ISBN 973-95852-5-6, 80 p.;
27. Marcel Agop, - PROBLEME DE INVARIANTA SI HAOS IN TEORIA MISCARII, Editura "Ghe Asachi" Iasi, ISBN 9739565034, 1992;

E. Cărți (manuale, monografii, tratate, îndrumare etc.) publicate pe web.

F. Lucrări științifice publicate în reviste cotate ISI sau indexate în baze de date internaționale.

1. A Drug Release Mechanism Controlled by Hydrophobic/Hydrophilic Balance of the Matrix. Theoretical and Experimental Perspectives

Himiniuc, L ; Agop, M ; Ghizdovat, V ; Paun, MA; Paun, VA ; Baciuc, C ; Paun, VP ; Toma, B
MATERIALE PLASTICE Volume: 57 Issue: 4 Pages: 155-165 Published: DEC 2020

2. Dynamic Evaluation of Traffic Noise through Standard and Multifractal Models

Petrovici, A; Cueto, JL; Nedeff, V ; Nava, E; Nedeff, F ; Hernandez, R ; Bujoreanu, C ; Irimiciuc, SA ; Agop, M

Computational And Mathematical Methods In Medicine Volume: 2020 Article Number:
6217691 Published: JAN 6 2020

15.Released Diclofenac Sodium Salt From Chitosan Embedding In A Hydrogel Matrix. A Theoretical And Experimental Study

By: Agop, M; Ghizdovat, V; Petrescu, T ; Oprea, I; Paun, MA ; Paun, VA ; Paun, VP ; Volovat, S

University Politehnica Of Bucharest Scientific Bulletin-Series A-Applied Mathematics And Physics Volume: 82 Issue: 4 Pages: 201-212 Published: 2020

16.Experimental And Theoretical Insight Into Formulations Based On Poly(Vinyl Alcohol Boric Acid) And Diclofenac Sodium Salt

By: Irimiciuc, SA; Ianus, G ; Agop, M; Crumpei Tanasa, I ; Paun, MA ; Mandalian, TL; Crumpei, J; Paun, VA ; Paun, VP

UNIVERSITY POLITEHNICA OF BUCHAREST SCIENTIFIC BULLETIN-SERIES A-APPLIED MATHEMATICS AND PHYSICS Volume: 82 Issue: 3 Pages: 219-230 Published: 2020

17.A theoretical mathematical model for assessing diclofenac release from chitosan-based formulations

By: Iftime, MM; Dobreci, DL; Irimiciuc, SA ; Agop, M ; Petrescu, T; Doroftei, B

DRUG DELIVERY Volume: 27 Issue: 1 Pages: 1125-1133 Published: JAN 1 2020

18.On The Heat Transfer Of Holographic Type In Nanostructures

By: Petrescu, Tc ; Paun, Ma ; Mihai, P; Irimiciuc, Sa ; Paun, Va ; Agop, M

University Politehnica Of Bucharest Scientific Bulletin-Series A-Applied Mathematics And Physics Volume: 82 Issue: 2 Pages: 251-262 Published: 2020

19.Investigations of Transient Plasma Generated by Laser Ablation of Hydroxyapatite during the Pulsed Laser Deposition Process

By: Agop, M ; Cimpoesu, N ; Gurlui, S; Irimiciuc, SA

SYMMETRY-BASEL Volume: 12 Issue: 1 Article Number: 132 Published: JAN 2020

20.In-Situ Plasma Monitoring during the Pulsed Laser Deposition of Ni60Ti40 Thin Films

By: Cimpoesu, N; Gurlui, S; Bulai, G; Cimpoesu, R ; Paun, VP ; Irimiciuc, SA; Agop, M

SYMMETRY-BASEL Volume: 12 Issue: 1 Article Number: 109 Published: JAN 2020

21.Complex System Dynamics Through A Fractal Paradigm

By: Vaideanu, D ; Paun, Ma ; Agop, M ; Paun, Va; Petrescu, Tc ; Placinta, C; Vasincu, D

University Politehnica Of Bucharest Scientific Bulletin-Series A-Applied Mathematics And Physics Volume: 82 Issue: 1 Pages: 317-326 Published: 2020

22.Accelerating the Bone Healing Process by the Intervention of the Platelet Growth Factors Impregnated in Collagen An experimental and theoretical mathematical model

By: Susanu, S; Popescu, M; Caba, B; Plamadeala, P; Moraru, A; Costin, D; Gavrilut, G; Agop, M; Cioca, G

MATERIALE PLASTICE Volume: 56 Issue: 4 Pages: 973-979 Published: DEC 2019

23.Investigations of Laser Produced Plasmas Generated by Laser Ablation on Geomaterials. Experimental and Theoretical Aspects

By: Enescu, F; Irimiciuc, SA; Cimpoesu, N; Bedeleian, H; Bulai, G; Gurlui, S; Agop, M

SYMMETRY-BASEL Volume: 11 Issue: 11 Article Number: 1391 Published: NOV 2019

24.Tissue Engineering - Collagen Matrix Based Flaps - a Simple Construct Experimental and Theoretical Aspects

By: Susanu, S; Moraru, A ; Costin, D; Rusu, CM; Agop, M ; Cioca, G

REVISTA DE CHIMIE Volume: 70 Issue: 10 Pages: 3694-3699 Published: OCT 2019

25.Particle distribution in transient plasmas generated by ns-laser ablation on ternary metallic alloys

By: Irimiciuc, Stefan Andrei; Gurlui, Silviu; Agop, Maricel

APPLIED PHYSICS B-LASERS AND OPTICS Volume: 125 Issue: 10 Article Number: 190 Published: OCT 2019

26.Lorenz Type Behaviors in the Dynamics of Laser Produced Plasma

39. Experimental and theoretical considerations on sound absorption performance of waste materials including the effect of backing plates
Bujoreanu, Carmen; Nedeff, Florin; Benchea, Marcelin; Agop, Maricel et al.
APPLIED ACOUSTICS Volume: 119 Pages: 88-93 Published: APR 2017
40. Plume splitting and oscillatory behavior in transient plasmas generated by high-fluence laser ablation in vacuum
Focsa, C.; Gurlui, S.; Nica, P.; Agop M., et.al APPLIED SURFACE SCIENCE Volume: 424 Special Issue: SI Pages: 299-309 Part: 3 Published: DEC 1 2017
41. Investigation of femtosecond laser-produced plasma from various metallic targets using the Langmuir probe characteristic
Nica, P.; Gurlui, S.; Osiac, M.; Agop M. et al.
PHYSICS OF PLASMAS Volume: 24 Issue: 10 Article Number: 103119 Published: OCT 2017
42. A fractal physics explanation for acute thrombotic occlusion in an apparently healthy coronary artery
Tesloianu, Nicolae Dan; Nedelciuc, Igor; Ghizdovat, Vlad; Agop, Marcel, et al.
ANATOLIAN JOURNAL OF CARDIOLOGY Volume: 18 Issue: 2
Pages: 155-157 Published: AUG 2017
43. Reducing the Risk in Controlled Drug Release by Using Tannic Acid in Liposomal Formulations
Cioca, Gabriela; Agop, Maricel; Popa, Marcel; et al.
REVISTA DE CHIMIE Volume: 68 Issue: 12 Pages: 2925-2928 Published: DEC 2017
44. Pairs Generating as a Consequence of the Fractal Entropy: Theory and Applications
Grigorovici, Alexandru; Bacaita, Elena Simona; Paun, Viorel Puiu; Agop, Maricel, et al.
ENTROPY Volume: 19 Issue: 3 Article Number: 128 Published: MAR 2017;
45. A compact non-differential approach for modeling laser ablation plasma dynamics
Irimiciuc, S. A.; Gurlui, S.; Nica, P.; Agop, M., et al.
JOURNAL OF APPLIED PHYSICS Volume: 121 Issue: 8 Article Number: 083301 Published: FEB 28 2017
46. Anisotropy Influences on the Drug Delivery Mechanisms by Means of Joint Invariant Functions
Cioca, G.; Bacaita, E. S.; Agop, M.; et al.
COMPUTATIONAL AND MATHEMATICAL METHODS IN MEDICINE Article Number: 5748273 Published: 2017
47. Atomicity via regularity for non-additive set multifunctions
Pap, Endre; Gavrilut, Alina; Agop, Maricel
SOFT COMPUTING Volume: 20 Issue: 12 Special Issue: SI Pages: 4761-4766 Published: DEC 2016
48. A multiscale mechanism of drug release from polymeric matrices: confirmation through a nonlinear theoretical model
Bacaita, E. S.; Agop, M.
PHYSICAL CHEMISTRY CHEMICAL PHYSICS Volume: 18 Issue: 31 Pages: 21809-21816 Published: AUG 31 2016
49. New mechanisms of vesicles migration
Aursulesei, Viviana; Vasincu, Decebal; Timofte, Daniel; Agop, Maricel, et al.
GENERAL PHYSIOLOGY AND BIOPHYSICS Volume: 35 Issue: 3 Pages: 287-298 Published: JUL 2016
50. Fractal analysis and related forms of complexity of embryo development. Is there a new tool for human embryo selection?
Doroftei, B.; Buzea, C.; Simionescu, G.; Agop, Maricel et al.
HUMAN REPRODUCTION Volume: 31 Supplement: 1 Pages: 217-217 Meeting Abstract: P-204 Published: JUL 2016
51. The Classical Theory of Light Colors: a Paradigm for Description of Particle Interactions

65. $SI(2, R)$ Invariance of The Kepler Type Motions And Shannon Informational Entropy. Uncertainty Relations Through the Constant Value of The Onicescu Informational Energy
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4. 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 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)