

Lista de lucrari publicate

a. Capitol de carte publicat la editura internationala

Luminita David, **Bianca Moldovan**

„Extraction, characterization and potential health benefits of bioactive compounds from selected *Cornus* fruits”

In: Fruits and pomace extracts: biological activity, potential applications and beneficial health effects. Owen J. P. Editor, New-York, Nova Science Publishers, Inc. **2015**, pp. 157-188

b. Articole publicate în reviste Web of Science (WoS)

1. Quantitative Structure-Enantioselective Retention Relationships for Chromatographic Separation of Arylalkylcarbinols on Pirkle type Chiral Stationary Phases
T. Suzuki, S. Timofei, **B.E. Iuoras (Moldovan)**, G.Uray, P.Verdino, W.Fabian
Journal of Chromatography A, **2001**, 922, 13-23
2. Sinteza ipsenolului și ipsidienolului, componenți feromonali de agregare ai unor *Scolytidae*
I. Vasian, I. Oprean, L.Oprean, **B. Moldovan**, V. Mihalciuc
Revista de Chimie, **2007**, 58, 296-299
3. Synthesis and Structural Analysis of Some New Saturated Six-membered Ring Heterocyclic Compounds Obtained From Terpenoids
D. Prodan, **B. Moldovan**, L. David, I. Grosu
Studia Universitatis “Babeș-Bolyai”, Ser. Chemia, **2008**, 53, 15-20
4. Degradation kinetics of anthocyanins from crude ethanolic extract from sour cherries
B. Moldovan, L. David, R. Donca, C. Chișbora
Studia Universitatis “Babeș-Bolyai”, Ser. Chemia, **2011**, LVI(2), 189-194
5. The Influence of Storage on the Total Phenols Content and Antioxidant Activity of the Cranberrybush (*Viburnum opulus* L.) Fruits Extract
B. Moldovan, O. Ghic, L. David, C. Chișbora
Revista de Chimie, **2012**, 63, 463-464
6. Degradation Kinetics of Anthocyanins from European Cranberrybush (*Viburnum opulus* L.) Fruit Extracts. Effects of Temperature, pH and Storage Solvent
B. Moldovan, L. David, C. Chișbora, C. Cimpoiu
Molecules, **2012**, 17, 11655-11666
7. New Nanomaterials for the Improvement of Psoriatic Lesions
M. Crisan, L. David, **B. Moldovan**, A.Vulcu, S. Dreve, M. Perde-Schrepler, C. Tatomir, A. G. Filip, P. Bolfa, M. Achim, I. Chiorean, I. Kacso, C. Berghian Grosan, L. Olenic
Journal of Materials Chemistry B, **2013**, 1, 3152-3158
8. The evaluation and authentication of red fruits teas by high performance thin-layer chromatography fingerprinting
L. David, A. Hosu, **B. Moldovan**, C. Cimpoiu
Journal of Liquid Chromatography & Related Techniques, **2014**, 37 (12), 1644-1653
9. Influence of Temperature and Preserving Agents on the Stability of Cornelian Cherries Anthocyanins
B. Moldovan, L. David
Molecules, **2014**, 19, 8177-8188
10. Green synthesis, characterization and anti-inflammatory activity of silver nanoparticles using European black elderberry fruits extract
L. David, **B. Moldovan**, A. Vulcu, L. Olenic, M. Perde-Schrepler, E. Fischer-Fodor, A. Florea, M. Crisan, I. Chiorean, S. Clichici, G. A. Filip
Colloids and Surfaces B: Biointerfaces, **2014**, 122, 767-777
11. Betanin from Red Beet (*Beta vulgaris* L.) Extraction conditions and evaluation of the thermal stability
A. Popa, **B. Moldovan**, L. David

12. Thermal stability of anthocyanins from Common dogwood (*Cornus sanguinea* L.) fruits
B. Moldovan, R. Mintau, L. David
Studia Universitatis "Babeş-Bolyai", Ser. Chemia, **2015**, 60(1), 139-146
13. Comparative evaluation by scanning confocal Raman spectroscopy and transmission electron microscopy of therapeutic effects of noble metal nanoparticles in experimental acute inflammation
A. Filip, M. Potara, A. Florea, I. Baldea, D. Olteanu, P. Bolfa, S. Clichici, L. David, **B. Moldovan**, L. Olenic, S. Astilean
RSC Advances, **2015**, 5, 67435-67448
14. Effects of storage temperature on the total phenolic content of Cornelian Cherry (*Cornus mas* L.) fruits extracts
B. Moldovan, A. Popa, L. David
Journal of Applied Botany and Food Quality, **2016**, 89, 208 – 211
15. Total phenolics, anthocyanins, antioxidant and pro-oxidant activity of some red fruits teas
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16. A green approach to phytomediated synthesis of silver nanoparticles using *Sambucus nigra* L. fruits extract and their antioxidant activity
B. Moldovan, L. David, M. Achim, S. Clichici, G.A. Filip
Journal of Molecular Liquids, **2016**, 221, 271-278
17. Antioxidant activity of Cornelian cherry (*Cornus mas* L.) fruits extract and the *in vivo* evaluation of its anti-inflammatory effects
B. Moldovan, A. Filip, S. Clichici, R. Suharoschi, P. Bolfa, L. David
Journal of Functional Foods, **2016**, 26, 77-87
18. Antioxidant Activity and Total Phenolic Content of Some Commercial Fruit Flavoured Yogurts
B. Moldovan, B. Iasko, L. David
Studia Universitatis "Babeş-Bolyai", Ser. Chemia, **2016**, 61(3), 101-108
19. Study of the Antioxidant Property Variation of Cornelian Cherry Fruits during Storage Using HPTLC and Spectrophotometric Assays
A. Hosu, C. Cimpoiu, L. David, **B. Moldovan*** (* autor correspondent)
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20. The effect of *Sambucus Nigra* L. extract and phytosynthesized gold nanoparticles on diabetic rats
R. Opris, C. Tatomir, D. Olteanu, R. Moldovan, **B. Moldovan**, L. David, A. Nagy, N. Decea, M. L. Kiss, G. A. Filip
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21. Bioactive Flavonoids from *Cornus Mas* L. Fruits
B. Moldovan, L. David
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22. In vitro and in vivo anti-inflammatory properties of green synthesized silver nanoparticles using *Viburnum opulus* L. fruits extract
B. Moldovan, L. David, A. Vulcu, L. Olenic, M. Perde-Schrepler, E. Fischer-Fodor, I. Baldea, S. Clichici, G. A. Filip
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23. The effects of silver nanoparticles on behavior, apoptosis and nitro-oxidative stress in offspring Wistar rats
O. Danila, A. Sevastre Berghian, V. Dionisie, D. Gheban, D. Olteanu, F. Tabaran, I. Baldea, G. Katona, **B. Moldovan**, S. Clichici, L. David, G.A. Filip
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24. Impact of thermal treatment on the antioxidant activity of cornelian cherries extract
B. Moldovan, L. David, S. Man
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25. Biosynthesis of silver nanoparticles using *Ligustrum ovalifolium* fruits and their cytotoxic effects
B. Moldovan, V. Sincari, M. Perde-Schrepler, L. David
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26. Effects of silver nanoparticles functionalized with *Cornus mas* L. extract on architecture and apoptosis in rat testicle
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27. UV-light mediated green synthesis of silver and gold nanoparticles using Cornelian cherry fruit extract and their comparative effects in experimental inflammation
G.A.Filip*, **B. Moldovan***, I. Baldea, D. Olteanu , R. Suharoschi , N. Decea , C. M. Cismaru , E. Gal , M. Cenariu , S. Clichici , L. David
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L.David, V. Danciu, **B.Moldovan***, A. Filip
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29. Degradation Kinetics of Anthocyanins During Heat Treatment of Wild Blackthorn (*Prunus Spinosa* L.) Fruits Extract
B.Moldovan, A. Ardelean, L.David
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30. Effects of silver and gold nanoparticles phytosynthesized with Cornus mas extract on oral dysplastic human cells
I. Baldea, A. Florea, D. Olteanu, S. Clichici, L. David, **B. Moldovan**, M. Cenariu, M. Achim, R. Suharoschi, S. Danescu, A. Vulcu, G. A. Filip
Nanomedicine, **2020**, 15(1), 55-75
31. The in vivo modulatory effects of Cornus mas extract on photodynamic therapy in experimental tumors
I.P. Laszló , M. R. Laszló , V. Toma , I. Baldea , D. Olteanu , L. David , **B. Moldovan** , R. M. Ion , R. Moldovan , G. A. Filip , G. Kacso, C. Cainap, S. Clichici , A. Muresan
Photodiagnosis and Photodynamic Therapy, **2020**, 30, 101656
32. Green synthesis of biogenic silver nanoparticles for efficient catalytic removal of harmful organic dyes
L.David, **B.Moldovan***
Nanomaterials, **2020**, 10(2), 202
33. Modulatory effects of *Cornus sanguinea* L. mediated green synthesized silver nanoparticles on oxidative stress, COX-2/NOS2 and NFkB/pNFkB expressions in experimental inflammation in Wistar rats
L. David, **B.Moldovan***, I. Baldea, D. Olteanu, P. Bolfa, S. Clichici, G. A. Filip
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34. Effects of some antioxidant additives on the degradation of Cornelian cherries anthocyanins
B.Moldovan, L.David
Studia Universitatis "Babeş-Bolyai", Ser. Chemia, **2020**, 65, 83-92
35. Hepatoprotective effects of Silymarin coated gold nanoparticles in experimental tumors
S. Clichici, L. David, **B.Moldovan***, I. Baldea, D. Olteanu, M. Filip, A. Nagy, V. Luca, C. Crivii, P. Mircea, G. Katona, G. A. Filip
Materials Science and Engineering C: Materials for Biological Applications, **2020**, 115, 111117
36. Gold nanoparticles phyto-reduced with Cornus mas extract mitigate some of gliadin effects on Caco-2 cells
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Journal of Physiology and Pharmacology, **2020**, 71, 201-212
37. Influence of different sweeteners on the stability of anthocyanins from Cornelian Cherry juice
B. Moldovan, L. David
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38. The impact of silver nanoparticles phytosynthesized with *Viburnum opulus* L. extract on the ultrastructure and cell death in the testis of offspring rats
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39. Biosynthesis of silver nanoparticles using *Sambucus nigra* L. fruit extract for targeting cell death in oral dysplastic cells
G.A. Filip, A. Florea, D. Olteanu, S. Clichici, L. David, **B. Moldovan***, M. Cenariu, I. Scrobota , M. Potara, I. Baldea
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41. Neurobehavioral and ultrastructural changes induced by phytosynthesized silver-nanoparticle toxicity in an in vivo rat model
R.V. Opris, V. Toma, A.M. Baci, R. Moldovan, B. Dume, A. Berghian-Sevastre, **B. Moldovan**, S. Clichici, L. David, G.A. Filip, A. Florea
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42. *Viburnum opulus* fruit extract-capped gold nanoparticles attenuated oxidative stress and acute inflammation in carrageenan-induced paw edema model
C. Bidian, G.A.Filip, L. David, **B. Moldovan**, I. Baldea, D. Olteanu, M. Filip, P. Bolfa, M. Potara, A.M. Toader, S. Clichici
Green Chemistry Letters and Reviews, **2022**, 15 (2), 319-335

43. Effects of Gold Nanoparticles Functionalized with Bioactive Compounds from *Cornus mas* Fruit on Aorta Ultrastructural and Biochemical changes in Rats on a Hyperlipid Diet -A Preliminary Study
R. Moldovan, D. R. Mitrea, A. Florea, I. C. Chiș, Ș. Suci, L. David, **B. E. Moldovan**, L. E. Mureșan, M. Lenghel, R. A. Ungur, R. V. Opris, N. Decea S. V. Clichici
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44. Optimization of the eco-friendly synthesis of silver nanoparticles using goji berries' bioactive compounds
L. David, **B. Moldovan***
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45. Effects of Gold Nanoparticles Functionalized with *Cornus mas* L. Fruit Extract on the Aorta Wall in Rats with a High-Fat Diet and Experimental-Induced Diabetes Mellitus-An Imaging Study
R. Moldovan, D.R. Mitrea, A. Florea, L. David, L.E. Muresan, I.C. Chis, S.M.Suci, **B.E.Moldovan**, M. Lenghel, L.B. Chiriac, I. Ielciu, D. Hanganu, T. Bab, S. Clichici
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46. Green Synthesized Gold and Silver Nanoparticles Increased Oxidative Stress and Induced Cell Death in Colorectal Adenocarcinoma Cells
C. Bidian, G.A. Filip, L. David, **B. Moldovan**, D. Olteanu, S. Clichici, M.C. Olanescu-Vaida-Voevod, C. Leostean, S. Macavei, D.M. Muntean, M. Cenariu, A. Albu, I. Baldea
Nanomaterials, **2023**, 13(7), 1251

47. Goji-Berry-Mediated Green Synthesis of Gold Nanoparticles and Their Promising Effect on Reducing Oxidative Stress and Inflammation in Experimental Hyperglycemia
L. David, V. Morosan, **B. Moldovan***, G.A. Filip, I. Baldea
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48. Effects of Gold Nanoparticles Phytoreduced with Rutin in an Early Rat Model of Diabetic Retinopathy and Cataracts
M. Moldovan, A.M. Papurica, M. Muntean, R.M. Bungardean, D. Gheban, **B. Moldovan**, G. Katona, L. David, G.A. Filip,
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M. Filip, I. Baldea, L. David, **B. Moldovan**, G.C. Flontas, S. Macavei, D.M. Muntean, N. Decea, A.B. Tig, S.V. Clichici
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50. Doxorubicin incorporation into gold nanoparticles: An in vivo study of its effects on cardiac tissue in rats
P.L. Dulf, C.A. Coadă, A. Florea, R. Moldovan, I. Bâldea, D.V. Dulf, D. Blendea, L. David, **B. Moldovan**, V. Moroșan, S. Macavei, G.A.Filip
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51. Influence of different sweeteners on the total anthocyanin content of homemade forest fruit jam
B. Moldovan, L. David
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52. The impact of hybrid bionanomaterials based on gold nanoparticles on liver injury in an experimental model of thioacetamide-induced hepatopathy
M. Filip, S.V. Clichici, M. Muntean, L. David, **B. Moldovan**, V.A. Toma, C. Login, S.M. Suci
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53. Green-synthesized rutin-capped gold nanoparticles attenuate experimental liver fibrosis by targeting oxidative stress and TGF- β signaling
 R.M. Decea, I. Bâldea, G.A. Filip, L. David, **B. Moldovan**, V. Toma, C.A. Moldoveanu, M. Muntean, S.V. Clichici
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c. Articole publicate in reviste indexate in BDI

1. Unidirectional Triple Hydrogen Rearrangement, a Useful Method in Insect's Pheromones Structure Determination
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2. EI-MS Unidirectional Triple Hydrogen Rearrangement. I. The case of Long Chain Phenylazobenzoates
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3. EI-MS Unidirectional Triple Hydrogen Rearrangement. II. The case of Long Chain Benzoates
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4. Etudes Concernant l'Arret de la Fermentation Alcoolique dans les Processus de l'Obtention des Vins Blancs Demi-secs et Doux
 R. Iuoraş, **B. Moldovan**
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d. Participări la conferințe

1. Unidirectional Triple Hydrogen Rearrangement , a Useful Method in Insect's Pheromones Structure Determination
 I.Oprean, **B. Moldovan**, R.Oprean
 47th CIPAC Meeting & 2nd FAO/WHO Joint Meeting of Pesticide Specification, Bucureşti, Iunie **2003**
2. Etudes Concernant l'Arret de la Fermentation Alcoolique dans les Processus de l'Obtention des Vins Blancs Demi-secs et Doux
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3. Compozitia în acizi grași a semințelor de struguri
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 L.David, **B. Moldovan**, C.Lar, D. Vitelaru, M. Mateas, I.Grosu
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6. New Derivatives of Solasodine and Solanidine with potential anti-tumor activity”
B.Moldovan, M.Tamas, I. Vasian, I.Oprean, I.Grosu
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7. New Solasodine Derivatives with Potential Anticancer Activity
B. Moldovan, L. David, E. Fischer-Fodor, I. Grosu
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8. New Ursolic Acid Derivatives with Potential Biological Activity
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9. Designul si sinteza unor noi derivati de acid ursolic cu potentiala acivitate biologica”
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10. The Non-invasive Assessment of the Efficacy of Gold Nanoparticles-Anthocyanins Nanomaterials on Cutaneous Pathology
L. Olenic, A. Vulcu, C. Grosan, L. David, **B. Moldovan**, M. Perde-Schrepler, A. Filip, M. Crisan, I. Chiorean
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11. Modern Therapies based on Nano-biotechnology in Psoriasis”
A. Vulcu, L. Olenic, S. Dreve, L. David, **B. Moldovan**, M. Perde-Schrepler, A. Filip, M. Crisan, I. Chiorean.
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L. David, **B. Moldovan**, L. Olenic, A. Vulcu, M. Perde-Schrepler
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13. Polyphenols from *Sambucus Nigra* Berries as Raw Material for the Synthesis of new functionalized Silver Nanoparticles with Anti-Inflammatory Effect”
B. Moldovan, L. David, L. Olenic, A. Vulcu, G-A. Filip
IUPAC 9th International Conference on Novel Materials and Synthesis (NMS-IX) & 23rd International Symposium on Fine Chemistry and Functional Polymers (FCFP-XXIII), Shanghai, China, **2013**
14. Common Dogwood Berries Extract Mediated Green Synthesis of Silver nanoparticles and Evaluation of Their Anticancer activity
Luminita C. David, **Bianca E. Moldovan**, Liliana Olenic, Adriana Vulcu, Maria Perde-Schrepler,
XII International Conference on Nanostructured Materials (NANO 2014) July 13-18, **2014** Moscow, Russia.
15. Anti-Inflammatory Effect of Some new Biomaterials based on Gold Nanoparticles and Polyphenols from *Cornus Sanguinea* L. fruits
Bianca E. Moldovan, Luminita C. David, Liliana Olenic, Adriana Vulcu, Gabriela-Adriana Filip,
XII International Conference on Nanostructured Materials (NANO 2014) July 13-18, **2014** Moscow, Russia
16. New biomaterials based on gold nanoparticles and evaluation of their antiinflammatory properties
Luminita C. David, **Bianca E. Moldovan**, Liliana Olenic, Adriana Vulcu, Gabriela-Adriana Filip
Sustainable Materials Science and Technology. An International Conference, July 15-17, **2015**, Paris France
17. Antioxidant effect of new green synthesized gold nanoparticles using polyphenols from European black elderberry
Bianca E. Moldovan, Luminita C. David, Liliana Olenic, Adriana Vulcu, Gabriela-Adriana Filip
Sustainable Materials Science and Technology. An International Conference, July 15-17, **2015**, Paris France
18. New biomaterials based on silver nanoparticles: synthesis and evaluation of their cytotoxicity
Bianca Moldovan, Luiza Bobaila, Luminita David, Liliana Olenic, Maria Perde-Schrepler
6th EuCheMS Chemistry Congress, 11-15 September, **2016**, Seville, Spain
19. Anti-inflammatory effects of some new biomaterials based on silver nanoparticles and natural compounds from fruit extracts
Luminita David, Vladislav Sincari, **Bianca Moldovan**, Liliana Olenic, Adriana Filip
6th EuCheMS Chemistry Congress, 11-15 September, **2016**, Seville, Spain
20. Green synthesis of bimetallic Ag-Au and Au-Ag nanoparticles and their catalytic activity in the degradation of harmful dyes;
Morosan V., David L., **Moldovan B.**
4th Young Researchers' International Conference on Chemistry and Chemical Engineering (YRICCCE IV), 01-03.06. **2023**, Debrecen, Hungary
21. Green Synthesis of New Biomaterials Based on Gold Nanoparticles and Phytocompounds from *Lycium barbarum* L. Fruits with Potential Antidiabetic Activity;
Moldovan B., Morosan V., Baldea, I., David L.;
4th International Conference on Materials Science & Nanotechnology, Future Materials, 23-27.10. **2023**, Valencia Spain
22. Studii in vitro și in vivo privind biocompatibilitatea și toxicitatea nanoparticulelor de aur asupra cordului și vaselor de sânge
Filip G., Baldea I., Pratia D., Moldovan R., Florea A., Muntean M., David L., **Moldovan B.**, Toma V., Clichici S.;
Conferința Națională a Societății Române de Fiziologie, 19-21.10. **2023**, Târgu-Mureș, România
23. Catalytic Activity Against Harmful Azoic Dyes of Green Synthesized Silver Nanoparticles Using the Antioxidant Goji Berry Extract;
David L, **Moldovan B.**, Morosan V.,
4th International Conference on Materials Science & Nanotechnology, Future Materials, 23-27.10. **2023**, Valencia Spain
24. Green synthesized Au-Ag core-shell nanoparticles as catalyst for reductive degradation of carmoisine
V. Moroșan, **B. Moldovan** and L. David
9th Edition Smart Materials & Surfaces conference, SMS **2024**, 23-25 oct. 2024, Barcelona, Spain

25. Antioxidant Effect of New Green Synthesized Bimetallic Nanoparticles using Phytocompounds from Goji Fruits
B. Moldovan, V. Morosan, L. David and I. Baldea
9th Edition Smart Materials & Surfaces conference, SMS **2024**, 23-25 oct. 2024, Barcelona, Spain
26. Green synthesis of bimetallic „core-shell” Ag@Au nanoparticles using bioactive compounds from Lycium Barbarum L. fruits and in vitro evaluation of their antioxidant capacity, invited speaker.
Moldovan B., David L., Morosan V., Baldea I., Filip G.A.
The 14th Congress of the Romanian Society of Physiology, 17-19 October **2024**, Cluj-Napoca, Romania
27. The effect of gold and silver nanoparticles capped with Cornus mas L. extract on PI3K-AKT signaling pathway genes expression in oral dysplastic keratinocytes,
Filip, G. A., Clichici, S., Muresan, C., Nistor, A., Baldea, I., **Moldovan, B.**, Suharoschi, R.
XXIII Meeting of the Federation of European Physiological Societies and XLI Meeting of the Spanish Society for Physiological Sciences, **2024**, Granada, Spain
28. Green Synthesis of Bimetallic Nanoparticles and their Catalytic Activity in the Degradation of Harmful Organic Dyes
B. Moldovan, V. Morosan, L. David
Future Materials-2025, October 27-29, **2025**, Tenerife, Canary Islands, Spain

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