

## Lista lucrari 2026

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A. E. Bejan, C. P. Constantin, I. Stoica, M. D. Damaceanu  
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6. Mapping of TEMPO-, PROXYL-, and phosphoryl-functionalized spin probes into biointerface fatty acid recognition sites of BSA  
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7. The role of spacer segments in increasing the transfection efficacy of Au-core polymeric shell nanoparticulate gene vectors  
D. I. Bostiog, V. Nastasa, C. M. Al-Matarnah, D. Peptanariu, M. Mares, S. A. Pasca, A. C. Bostanaru-Iliescu, B. F. Craciun, T. Vasiliu, R. Puf, S. S. Maier, M. Pinteala  
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M. Wu, G. Zhou, R. Le, Y. Xie, A. Laaksonen, F. Mocci, X. Zhao, M. Cai, R. An  
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9. Crystal structure of bis(2-bromoethylammonium) hexabromidostannate (IV)  
D. S. Kreiman, D. M. Korytko, I. S. Kuzevanova, M. Dascalu, I. A. Guralskiy  
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10. Crystal structure and Hirshfeld surface analysis of 3-(3,5-dimethoxyphenyl)-5-[6-(1H-pyrazol-1-yl)pyridin-2-yl]-1H-1,2,4-triazole  
M. Seredyuk, S. Shova, N. S. Kariaka, Y. S. Moroz, D. M. Panov, O. Tananaiko, K. Znovjyak  
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11. Bis(diallylcarbamodithioato)(quinaldine)zinc (II)  
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| 12. | Selective electrocatalytic oxidation of phenol to benzoquinone via water splitting using a nonprecious metal-based electrocatalyst                | A. Ali, G. Huang, J. Zhu, A. Laaksonen, X. Ji                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Advanced Energy and Sustainability Research, 7, Article e2025000108/1-8 (2026)     |
| 13. | Integrated FTIR chemometric framework combining peak and shoulder detection with multivariate analysis for quality assessment of agarwood resin   | S. F. Sim, M. Brebu, Z. Chen, T. Kuek, L. S. Wong, B. Samling                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Analytical Chemistry Letters, 16, 355-366 (2026)                                   |
| 14. | Harmonized 1H NMR workflow enables quantitative betaine determination from nontargeted metabolite profiling using internal and external standards | B. Musio, M. Trisolini, R. Ragone, S. Todiso, A. Rizzuti, P. Matrorilli, M. Lantronico, N. Intini, A. Greco, M. Antonicelli, C. Airoidi, L. Antoniacomi, L. Goldoni, M. Balan-Porcarasu, F. Benevelli, D. Bertelli, A. Bieliauskas, L. Bontempo, A. Bourafai-Aziez, D. Brancaccio, E. Callone, A. C. Mayordomo, E. Caneva, G. Petrella, R. Consonni, I. J. Day, C. Deborde, C. Deleanu, G. Di Matteo, C. Duduianu, J. Edwards, L. Fusaro, S. Gehanne, N. Genna, D. Gerginova, R. Gobetto, G. Hernandez, N. Iaccarino, P. Illiano, I. Timari, T. Kuballa, D. W. Lachenmeier, Y. Mitrev, R. Molinie, A. Mucci, C. Napoli, A. Nicolescu, V. Petrelli, L. Piemontese, C. Portesi, A. Randazzo, T. Recca, A. Sackus, M. Schmidt, S. Simova, A. P. Sobolev, P. Solovyev, M. Spano, J. Teipel, M. Veronesi, V. Gallo | Analytical Chemistry, 98, 15995-16007 (2026)                                       |
| 15. | Green-synthesized copper and copper oxide nanoparticles: Structural characterization and evaluation of biological activity                        | I. I. Lungu, A. Stefanache, N. Anton, A. Lungu, V. M. Platon, A. M. Mitran, O. Cioanca, C. Mircea, M. Hancianu                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Antioxidants, 15, Article 339/1-21 (2026)                                          |
| 16. | From supramolecular assemblies to intelligent hybrids: The evaluation and design of guanosine quartet-based hydrogels                             | T. Dulgheriu, O. E. Carp, E. L. Ursu, N. L. Marangoci, R. Danac, A. Rotaru                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Applied Materials Today, 52, Article 103381/1-19 (2026)                            |
| 17. | Organic blend films based on metal phthalocyanines deposited by MAPLE on rigid and flexible substrates for optoelectronic applications            | M. Socol, N. Preda, C. Breazu, S. Iftimie, G. Petre, A. Stochioiu, G. Popescu-Pelin, A. M. Catargiu, R. Udrea, G. Socol, A. Stanculescu                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Applied Physics A - Materials Science and Processing, 132, Article 431/1-12 (2026) |

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| 31. | Supramolecular insights into the complexation of $\alpha$ -cyclodextrin for alopecia treatment using mixed cation/anion active principle                               | P. Timnovan, D. L. Isac, N. L. Marangoci, A. Nicolescu, A. Coroaba, B. Cretu, A. Laaksonen, A. Neamtu, T. Pinteala                                              | Carbohydrate Polymer Technologies and Application, 14, Article 101115/1-12 (2026) |
| 32. | Cationic curdlan-based hydrogels loaded with Calendula officinalis-decorated silver nanoparticles: Synthesis, characterization and in vitro biological properties      | D. M. Suflet, I. Popescu, A. Luca, M. Butnaru, C. M. Rumbu, C. E. Horhoge, M. Constantin                                                                        | Carbohydrate Polymers, 389, Article 125623/1-18 (2026)                            |
| 33. | Synthesis of silver nanoparticles using grape pomace extracts with superior visible-light photocatalytic activity and evaluation of their phytostimulatory activity    | R. Strungaru-Jijie, D. Luca, G. Voichita, M. A. Ciolan, C. I. Ciobanu, V. Pohoata, E. L. Ursu, M. N. Grigore, M. Dobromir, V. Tiron, L. Oprica                  | Catalysts, 16, Article 7091/1-23 (2026)                                           |
| 34. | Chitosan-citral coated paper: A simple and sustainable approach to eco-friendly food packaging                                                                         | R. Lungu, F. Ciolacu, I. Rosca, L. Marin, I. Spiridon                                                                                                           | Cellulose, 33, 4833-4852 (2026)                                                   |
| 35. | Ca <sub>1-x</sub> BixFeO <sub>3</sub> - ceramics: from synthesis and characterization to electronics and gas sensing properties for next-generation electronic devices | A. Benatia, N. Gouitaa, M. Daoudy, C. Sрати, I. Turcan, F. Gheorghiu, F. Z. Ahjyaje, M. Dobromir, L. E. Ursu, L. Leontie, L. Mitoseriu, T. Lamcharfi, F. Abdi   | Ceramics International, 52, 19018-19036 (2026)                                    |
| 36. | Enhancing dielectric, electrical and gas sensing properties of CaFeO <sub>3</sub> - through sintering temperature optimization                                         | A. Benatia, N. Gouitaa, I. Turcan, F. Gheorghiu, L. E. Ursu, L. Leontie, L. Mitoseriu, F. Z. Ahjyaje, T. Lamcharfi, F. Abdi                                     | Ceramics, 9, Article 33/1-24 (2026)                                               |
| 37. | ProDOT conjugated polymer-powdered electrode materials: From rigid to flexible electrochromic supercapacitors                                                          | A. E. Bejan, C. P. Constantin, A. Nicolescu, M. D. Damaceanu                                                                                                    | Chemical Engineering Journal, 532, Article 174223/1-20 (2026)                     |
| 38. | Hydrogen-bond networks govern ionic liquid dynamics within the interfacial contact layer of sub-nanometer confinement                                                  | M. Wei, X. Xia, Y. Qin, W. Wang, X. Lu, A. Laaksonen, Y. Zhu                                                                                                    | Chemical Engineering Science, 327, Article 123505/1-13 (2026)                     |
| 39. | Mechanisms and manifestations of ligand bias in signaling: Focus on receptor tyrosine kinases                                                                          | R. J. Schuck, T. Roy, A. N. Bondar, P. Krejci, K. Hristova                                                                                                      | Chemical Reviews, 126, 8487-8516 (2026)                                           |
| 40. | Synthesis and characterization of a conjugated multifunctional oligomer derived from para-phenylenediamine and catechol                                                | R. Rzayev, N. Sucman, E. Monaico, I. Geru, A. Nicolescu, C. Deleanu, V. Batir, B. Mammadov, R. Akhmedova, F. Macaev                                             | Chemistry Journal of Moldova, 21, 112-124 (2026)                                  |
| 41. | Pd(II) complexes of Schiff base ligands derived from 4-aminoantipyrine: Synthesis, characterization, crystal structure and acute toxicity evaluation                   | A. E. Stefan, C. E. Dinu-Pirvu, S. Shova, F. Barbuceanu, T. V. Apostol, R. Boscencu, D. C. Ilies, M. Badea, M. Dinu, R. V. Ancuceanu, D. Draganescu, E. Pahontu | ChemistrySelect, 11, Article 05644/1-21 (2026)                                    |
| 42. | Development of new benzo[b]thiophene-2-carboxamide derivatives as advanced                                                                                             | L. Bonin, M. Hedouin, C. Furman, O. Not, S. Lancel,                                                                                                             | ChemMedChem, 21, Article                                                          |

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|     | glycation end-products receptor (RAGE) antagonists                                                                                                | M. Bensalah, G. Coadou, E. Boulanger, S. Shova, H. Oulyadi, A. Ghinet                                                                             | e202500593/1-16 (2026)                                                                                                                                                                                                                                                               |
| 43. | Effect of green light on citrate-coated gold nanoparticles and their effect on the growth of cellulolytic fungi                                   | D. A. Pricop, A. Arvinte, L. Oprica, F. Doroftei, L. Ursu, G. Voichita, E. Olteanu, S. Pricop, S. Gurlui, D. Creanga                              | Coatings, 16, Article 657/1-15 (2026)                                                                                                                                                                                                                                                |
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| 48. | Investigation of some water-soluble binuclear complexes of copper(II) based on bis-isothiosemicarbazones                                          | T. Jovmir, S. Shova, L. Lupascu, G. Balan, O. Burduniuc, N. Gaiu, I. Geru, A. Gulea, V. Lozan                                                     | Conferinta "Materiale avansate in biofarmaceutica si tehnica". Dedicata aniversarii a 80-a de la nasterea ilustrului savant chimist acad. Aurelian Gulea si aniversarea a 80 de ani de la fondarea Universitatii de Stat din Moldova, 29 mai 2026, Chisinau, Moldova, 353-368 (2026) |
| 49. | Design of metallocages by combining Mannich and Schiff reactions                                                                                  | S. Dimitriu, A. G. Bucur, S. Shova, G. Ionita, M. Raduca, C. Draghici, M. Andruh                                                                  | Crystal Growth and Design, 26, 6069-6078 (2026)                                                                                                                                                                                                                                      |
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| 52. | Subtle ligand effects in Cu(I) thiocyanate complexes: from molecular structure to interfacial electron transfer                                                                                         | A. V. Bounegru, S. Shova, A. Tabacaru                                                                                                                                                                                                                                        | Dalton Transactions, 55, 11014-11025 (2026)                                 |
| 53. | Decoding emission pathways in solid-state salicylaldehydes                                                                                                                                              | O. Morawski, P. Gawrys, J. Olas, S. Shova, K. Suwinska, C. A. Barboza                                                                                                                                                                                                        | Dyes and Pigments, 245, Article 113228/1-9 (2026)                           |
| 54. | Copper(II) complexes with 3-(2-pyridyl)-5R-1,2,4-triazoles: The influence of noncoordinating substituent in ligand on structure and potential for oxidative cleavage of alkene bonds and Henry coupling | Y. P. Petrenko, K. Piasta, D. M. Khomenko, R. O. Doroshchuk, S. Shova, E. Gumienna-Kontecka, L. M. D. R. S. Martins, R. D. Lampeka                                                                                                                                           | European Journal of Inorganic Chemistry, 29, Article e202500630/1-15 (2026) |
| 55. | Copper(II) complexes of indolo[2,3-c]quinoline-derived Schiff bases: Insight into the mechanism of their antiproliferative activity                                                                     | F. Bacher, C. Madejski, I. Kuznetcova, O. Domotor, B. Gyurcsik, Z. H. Nafae, N. Igaz, C. Bocz, B. Pentek, M. Kiricsi, P. Raptova, A. C. Stoica, M. Hejl, M. A. Jakupc, S. M. Alfadul, M. V. Babak, P. Rapt, J. Reynisson, L. Sindlerova, E. A. Enyedy, E. Hamel, V. B. Arion | European Journal of Medicinal Chemistry, 315, Article 118862/1-26 (2026)    |
| 56. | Equilibrium CO <sub>2</sub> solubility in choline chloride-urea confined in ionic cylindrical nanopores model: A molecular simulation study                                                             | M. Niu, W. Wang, R. Ma, Y. Qin, A. Laaksonen, Y. Zhu, X. Lu                                                                                                                                                                                                                  | Fluid Phase Equilibria, 606, Article 114704/1-12 (2026)                     |
| 57. | Preliminary study of the impact of zwitterionic ion-exchange resins on the phenolic and volatile profiles of Feteasca Neagra and Cabernet Sauvignon wines                                               | G. D. Gabur, M. Mihai, M. M. Zaharia, F. Sanchez-Suarez, R. Munoz-Castells, R. A. Peinado, C. Teodosiu, I. B. Cioroiu, I. Gabur                                                                                                                                              | Foods, 15, Article 1621/1-20 (2026)                                         |
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| 59. | Influence of substitution patterns on the antimicrobial properties of pyrrole sulfonamide scaffolds                                                                                                     | I. C. Marinas, N. Simionescu, N. D. Andreiu, A. Al-Matarneh, T. Pinteala, M. C. Chifiriuc, C. M. Al-Matarneh                                                                                                                                                                 | Frontiers in Chemistry, 14, Article 1726389/1-23 (2026)                     |
| 60. | Pigments and pictorial style used in the artworks of the Romanian painter Theodor Aman                                                                                                                  | M. Olaru, A. V. Oancea, L. Stratulat, L. E. Ursu, M. Zaltariov, D. Rusu, M. Niculaua, A. Dascalu, B. Simionescu, A. Drob, S. Scutaru                                                                                                                                         | Heritage, 9, Article 162/1-21 (2026)                                        |
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  66. Influence of non-coordinating substituent in 1-(5R-1,2,4-triazol-3-yl)-methylamines on structure and magnetic properties of corresponding copper(II) complexes Y. P. Petrenko, D. M. Khomenko, R. O. Doroshchuk, O. Y. Vassilyeva, S. Shova, G. Novitchi, R. D. Lampeka
  67. Influence of deposition temperature on the optical, morphological and structural properties of SiPc and AlPc thin films prepared by CSS technique V. Morari, R. Tigoianu, D. Timpu, C. Gherasim, V. Suman, L. Ghimpu, I. Lungu, E. L. Ursu, F. Doroftei, A. Airinei
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