

EXECUTIVE UNIT FOR FINANCING HIGHER EDUCATION, RESEARCH, DEVELOPMENT AND INNOVATION - UEFISCDI AWARDS - ARTICLES

Through these awards UEFISCDI aims to increase quality, impact and international visibility of Romanian research by recognizing and rewarding significant results published in prestigious journals from international senior scientific stream.

Within this competition can participate the researchers affiliated to institutions in Romania, authors of scientific articles published in journals indexed by Clarivate Analytics Science Citation Index Expanded ("Science"), Social Sciences Citation Index ("Social Sciences") or Arts & Humanities Citation Index ("Arts & Humanities").

More information at <http://uefiscdi.gov.ro/Public/cat/471/Premierea-rezultatelor-cercetarii.html>

1. Baloi, M.A., Crucean, C. Fermion production by a dependent of time electric field in de Sitter universe, INTERNATIONAL JOURNAL OF MODERN PHYSICS A, Volume: 32, Issue: 36, Special Issue: SI, Article Number: 1750208, ISSN: 0217-751X, eISSN: 1793-656X, 2017;
2. Fagadar-Cosma, E., Badea, V., Fagadar-Cosma, G., Palade, A., Lascu, A., Fringu, I., Birdeanu, M. Trace Oxygen Sensitive Material Based on Two Porphyrin Derivatives in a Heterodimeric Complex, MOLECULES, Volume: 22, Issue: 10, Article Number: 1787, ISSN: 1420-3049, 2017;
3. Gabor, A., Davidescu, C.M., Negrea, A., Ciopec, M., Grozav, I., Negrea, P., Duteanu, N. Optimizing the lanthanum adsorption process onto chemically modified biomaterials using factorial and response surface design, JOURNAL OF ENVIRONMENTAL MANAGEMENT, Volume: 204, Special Issue: SI, Pages: 839-844, PubMed ID: 28148453, ISSN: 0301-4797, eISSN: 1095-8630, 2017;
4. Herban, I.S., Vilceanu, C.B., Grecea, C. Road-Structure Monitoring with Modern Geodetic Technologies, JOURNAL OF SURVEYING ENGINEERING, Volume: 143, Issue: 4, Article Number: 05017004, ISSN: 0733-9453, eISSN: 1943-5428, 2017;
5. Iliă, R., Liatsou, I., Savva, I., Vasile, E., Vekas, L., Marinica, O., Mpekris, F., Pashalidis, I., Krasia-Christoforou, T. Magnetoresponse polymer networks as adsorbents for the removal of U (VI) ions from aqueous media, EUROPEAN POLYMER JOURNAL, Volume: 97, Pages: 138-146, ISSN: 0014-3057, eISSN: 1873-1945, 2017;
6. Linul, E., Marsavina, L., Kovacic, J., Sadowski, T. DYNAMIC AND QUASI-STATIC COMPRESSION TESTS OF CLOSED-CELL ALUMINIUM ALLOY FOAMS, PROCEEDINGS OF THE ROMANIAN ACADEMY SERIES A-MATHEMATICS PHYSICS TECHNICAL SCIENCES INFORMATION SCIENCE, Volume: 18, Issue: 4, Pages: 361-369, ISSN: 1454-9069, 2017;
7. Marinca, B., Marinca, V. NEW EXACT AND EXPLICIT SOLUTIONS OF THE ZAKHAROV EQUATIONS AND GENERALIZED ZAKHAROV EQUATIONS BY THE QUOTIENT TRIGONOMETRIC FUNCTION EXPANSION METHOD, PROCEEDINGS OF THE ROMANIAN ACADEMY SERIES A-MATHEMATICS PHYSICS TECHNICAL SCIENCES INFORMATION SCIENCE, Volume: 18, Issue: 2, Pages: 166-173, ISSN: 1454-9069, 2017;
8. Mnerie, C., Preitl, S., Duma, V.F. Galvanometer-Based Scanners: Mathematical Model and Alternative Control Structures for Improved Dynamics and Immunity to Disturbances, INTERNATIONAL JOURNAL OF STRUCTURAL STABILITY AND DYNAMICS, Volume: 17, Issue: 5, Special Issue: SI, Article Number: 1740006, ISSN: 0219-4554, eISSN: 1793-6764, 2017;
9. Moisa, M.E., Spelmezan, C.G., Paul, C., Bartha-Vari, J.H., Bencz, L.C., Irimie, F.D., Paizs, C., Peter, F., Tosa, M.I. Tailored sol-gel immobilized lipase preparates for the enzymatic kinetic resolution of heteroaromatic alcohols in batch and continuous flow systems, RSC ADVANCES, Volume: 7, Issue: 83, Pages: 52977-52987, ISSN: 2046-2069, 2017;
10. Mosoarca, M., Keller, A.I., Petrus, C., Racolta, A. Failure analysis of historical buildings due to climate change, ENGINEERING FAILURE ANALYSIS, Volume: 82, Pages: 666-680, ISSN: 1350-6307, eISSN: 1873-1961, 2017;
11. Paulescu, M., Pop, N., Stefu, N., Paulescu, E., Boata, R., Calinoiu, D. SEASONAL MODELING OF HOURLY SOLAR IRRADIATION SERIES, ROMANIAN JOURNAL OF PHYSICS, Volume: 62, Issue: 7-8, Article Number: 813, ISSN: 1221-146X, 2017;
12. Popov, D. ON SOME PROPERTIES OF THE K-COHERENT STATES, PROCEEDINGS OF THE ROMANIAN ACADEMY SERIES A-MATHEMATICS PHYSICS TECHNICAL SCIENCES INFORMATION SCIENCE, Volume: 18, Issue: 4, Pages: 323-330, ISSN: 1454-9069, 2017;
13. Racuciu, M., Iftode, C., Miclaus, S. ULTRAHIGH FREQUENCY-LOW POWER ELECTROMAGNETIC FIELD IMPACT ON PHYSIOLOGICAL PARAMETERS OF TWO TYPES OF CEREALS, ROMANIAN REPORTS IN PHYSICS, Volume: 69, Issue: 4, Article Number: 712, ISSN: 1221-1451, eISSN: 1841-8759, 2017;

No.

UEFISCDI Awards

14. Aliha, M.R.M., Linul, E., Bahmani, A., Marsavina, L. Experimental and theoretical fracture toughness investigation of PUR foams under mixed mode I plus III loading, *POLYMER TESTING*, Volume: 67, Pages: 75-83, ISSN: 0142-9418, eISSN: 1873-2348, 2018;
15. Ancuti, C.O., Ancuti, C., De Vleeschouwer, C., Bekaert, P. Color Balance and Fusion for Underwater Image Enhancement, *IEEE TRANSACTIONS ON IMAGE PROCESSING*, Volume: 27, Issue: 1, Pages: 379-393, PubMed ID: 28981416, ISSN: 1057-7149, eISSN: 1941-0042, 2018;
16. Baloi, M.A., Crucean, C., Popescu, D. Scalar pair production in a magnetic field in de Sitter universe, *EUROPEAN PHYSICAL JOURNAL C*, Volume: 78, Issue: 5, Article Number: 398, ISSN: 1434-6044, eISSN: 1434-6052, 2018;
17. Belega, D., Petri, D., Dallet, D. Accurate amplitude and phase estimation of noisy sine-waves via two-point interpolated DTFT algorithms, *MEASUREMENT*, Volume: 127, Pages: 89-97, ISSN: 0263-2241, eISSN: 1873-412X, 2018;
18. Belega, D., Petri, D., Dallet, D. Accurate frequency estimation of a noisy sine-wave by means of an interpolated discrete-time Fourier transform algorithm, *MEASUREMENT*, Volume: 116, Pages: 685-691, ISSN: 0263-2241, eISSN: 1873-412X, 2018;
19. Belega, D., Petri, D., Dallet, D. INFLUENCE OF THE SPECTRAL IMAGE COMPONENT ON THE AMPLITUDE AND PHASE ESTIMATORS PROVIDED BY THE INTERPOLATED DFT METHOD, *PROCEEDINGS OF THE ROMANIAN ACADEMY SERIES A-MATHEMATICS PHYSICS TECHNICAL SCIENCES INFORMATION SCIENCE*, Volume: 19, Issue: 2, Pages: 377-384, ISSN: 1454-9069, 2018;
20. Berei, E., Stefanescu, O., Muntean, C., Vlase, T., Taranu, B.O., Dabici, A., Stefanescu, M. A novel route for the preparation of CoCr204/SiO2 nanocomposite starting from Co(II)-Cr(III) carboxylate complex combinations, *JOURNAL OF MATERIALS SCIENCE*, Volume: 53, Issue: 6, Pages: 4159-4172, ISSN: 0022-2461, eISSN: 1573-4803, 2018;
21. Binzar, T., Lazureanu, C. Wold-Type Decompositions for a Commutative Pair of Noncommutative Semigroups of Isometries, *BULLETIN OF THE MALAYSIAN MATHEMATICAL SCIENCES SOCIETY*, Volume: 41, Issue: 2, Pages: 1139-1150, ISSN: 0126-6705, eISSN: 2180-4206, 2018;
22. Boldea, I., Tutelea, L.N., Xu, W., Pucci, M. Linear Electric Machines, Drives, and MAGLEVs: An Overview, *IEEE TRANSACTIONS ON INDUSTRIAL ELECTRONICS*, Volume: 65, Issue: 9, Pages: 7504-7515, ISSN: 0278-0046, eISSN: 1557-9948, 2018;
23. Calinoiu, D., Stefu, N., Boata, R., Blaga, R., Pop, N., Paulescu, E., Sabadus, A., Paulescu, M. Parametric modeling: A simple and versatile route to solar irradiance, *ENERGY CONVERSION AND MANAGEMENT*, Volume: 164, Pages: 175-187, ISSN: 0196-8904, eISSN: 1879-2227, 2018;
24. Chesoi, A., Stratan, A., Dubina, D. Design implementation of re-centring dual eccentrically braced frames with removable links, *SOIL DYNAMICS AND EARTHQUAKE ENGINEERING*, Volume: 112, Pages: 174-184, ISSN: 0267-7261, eISSN: 1879-341X, 2018;
25. Cocheci, L., Lupa, L., Gheju, M., Golban, A., Lazau, R., Pode, R. Zn-Al-CO3 layered double hydroxides prepared from a waste of hot-dip galvanizing process, *CLEAN TECHNOLOGIES AND ENVIRONMENTAL POLICY*, Volume: 20, Issue: 5, Pages: 1105-1112, ISSN: 1618-954X, eISSN: 1618-9558, 2018;
26. Craciunescu, C., Mitelea, I. Combined effects in quasisimilar NiTi joints manufactured by pulsed laser welding, *MATERIALS SCIENCE AND ENGINEERING A-STRUCTURAL MATERIALS PROPERTIES MICROSTRUCTURE AND PROCESSING*, Volume: 737, Pages: 364-372, ISSN: 0921-5093, eISSN: 1873-4936, 2018;
27. Curiac, D.I., Baniac, O., Volosencu, C., Curiac, C.D. Novel Bioinspired Approach Based on Chaotic Dynamics for Robot Patrolling Missions with Adversaries, *ENTROPY*, Volume: 20, Issue: 5, Article Number: UNSP 378, ISSN: 1099-4300, 2018;
28. Declercq, D., Savin, V., Boncalo, O., Ghaffari, F. An Imprecise Stopping Criterion Based on In-Between Layers Partial Syndromes, *IEEE COMMUNICATIONS LETTERS*, Volume: 22, Issue: 1, Pages: 13-16, ISSN: 1089-7798, eISSN: 1558-2558, 2018;
29. Dumitru, R., Manea, F., Pacurariu, C., Lupa, L., Pop, A., Cioabla, A., Surdu, A., Ianculescu, A. Synthesis, Characterization of Nanosized ZnCr2O4 and Its Photocatalytic Performance in the Degradation of Humic Acid from Drinking Water, *CATALYSTS*, Volume: 8, Issue: 5, Article Number: 210, ISSN: 2073-4344, 2018;
30. Gheju, M. Progress in Understanding the Mechanism of Cr-VI Removal in Fe-O-Based Filtration Systems, *WATER*, Volume: 10, Issue: 5, Article Number: 651, ISSN: 2073-4441, Published: 2018;

No.

UEFISCDI Awards

31. Gherhes, V., Obrad, C. Technical and Humanities Students' Perspectives on the Development and Sustainability of Artificial Intelligence (AI), SUSTAINABILITY, Volume: 10, Issue: 9, Article Number: 3066, ISSN: 2071-1050, 2018;
32. Gontean, A., Lica, S., Bularka, S., Szabo, R., Lascu, D. A Novel High Accuracy PV Cell Model Including Self Heating and Parameter Variation, ENERGIES, Volume: 11, Issue: 1, Article Number: 36, ISSN: 1996-1073, 2018;
33. Grecu, E., Aceleanu, M.I., Albulescu, C.T. The economic, social and environmental impact of shale gas exploitation in Romania: A cost-benefit analysis, RENEWABLE & SUSTAINABLE ENERGY REVIEWS, Volume: 93, Pages: 691-700, ISSN: 1364-0321, Published: 2018;
34. Grigorie, A.C., Muntean, C., Vlase, G., Stefanescu, M. Synthesis and characterization of ZnAl₂O₄ spinel from Zn(II) and Al(III) carboxylates, JOURNAL OF THERMAL ANALYSIS AND CALORIMETRY, Volume: 131, Issue: 1, Pages: 183-189, ISSN: 1388-6150, eISSN: 1588-2926, 2018;
35. Groza, B., Murvay, P.S. SECURITY SOLUTIONS FOR THE CONTROLLER AREA NETWORK Bringing Authentication to In-Vehicle Networks, IEEE VEHICULAR TECHNOLOGY MAGAZINE, Volume: 13, Issue: 1, Pages: 40-47, ISSN: 1556-6072, eISSN: 1556-6080, 2018;
36. Gurbina, M., Ciresan, A., Lascu, D., Lica, S., Pop-Calimanu, I.M. A New Exact Mathematical Approach for Studying Bifurcation in DCM Operated dc-dc Switching Converters, ENERGIES, Volume: 11, Issue: 3, Article Number: 663, ISSN: 1996-1073, 2018;
37. Ianos, R. Key-role of the recipe formulation in the solution combustion synthesis of monocalcium aluminate, CaAl₂O₄, CERAMICS INTERNATIONAL, Volume: 44, Issue: 17, Pages: 21908-21913, ISSN: 0272-8842, eISSN: 1873-3956, 2018;
38. Ianos, R., Lazau, R., Babuta, R., Muntean, E., Moaca, E.A., Pacurariu, C. Solution combustion synthesis: a straightforward route for the preparation of chromium-doped lanthanum aluminate, LaAl_{1-x}Cr_xO₃, pink red pigments, DYES AND PIGMENTS, Volume: 155, Pages: 218-224, ISSN: 0143-7208, eISSN: 1873-3743, 2018;
39. Ianos, R., Moaca, E.A., Caprarua, A., Lazau, R., Pacurariu, C. Maghemite, gamma-Fe₂O₃, nanoparticles preparation via carbon-templated solution combustion synthesis, CERAMICS INTERNATIONAL, Volume: 44, Issue: 12, Pages: 14090-14094, ISSN: 0272-8842, eISSN: 1873-3956, 2018;
40. Ianos, R., Muntean, E., Lazau, R., Babuta, R., Moaca, E.A., Pacurariu, C., Dabici, A., Hulka, I. One-step synthesis of near-infrared reflective brown pigments based on iron-doped lanthanum aluminate, LaAl_{1-x}Fe_xO₃, DYES AND PIGMENTS, Volume: 152, Pages: 105-111, ISSN: 0143-7208, eISSN: 1873-3743, 2018;
41. Ianos, R., Pacurariu, C., Muntean, S.G., Muntean, E., Nistor, M.A., Niznansky, D. Combustion synthesis of iron oxide/carbon nanocomposites, efficient adsorbents for anionic and cationic dyes removal from wastewaters, JOURNAL OF ALLOYS AND COMPOUNDS, Volume: 741, Pages: 1235-1246, ISSN: 0925-8388, eISSN: 1873-4669, 2018;
42. Khoa L., Declercq, D., Ghaffari, F., Kessal, L., Boncalo, O., Savin, V. Variable-Node-Shift Based Architecture for Probabilistic Gradient Descent Bit Flipping on QC-LDPC Codes, IEEE TRANSACTIONS ON CIRCUITS AND SYSTEMS I-REGULAR PAPERS, Volume: 65, Issue: 7, Pages: 2183-2195, ISSN: 1549-8328, eISSN: 1558-0806, 2018;
43. Kovacic, J., Marsavina, L., Linul, E. Poisson's Ratio of Closed-Cell Aluminium Foams, MATERIALS, Volume: 11, Issue: 10, Article Number: 1904, PubMed ID: 30301257, ISSN: 1996-1944, 2018;
44. Lazureanu, C. Integrable Deformations of Three-Dimensional Chaotic Systems, INTERNATIONAL JOURNAL OF BIFURCATION AND CHAOS, Volume: 28, Issue: 5, Article Number: 1850066, ISSN: 0218-1274, eISSN: 1793-6551, 2018;
45. Li, X., Xu, W., Ye, C.Y., Boldea, I. Comparative Study of Transversal-Flux Permanent-Magnetic Linear Oscillatory Machines for Compressor, IEEE TRANSACTIONS ON INDUSTRIAL ELECTRONICS, Volume: 65, Issue: 9, Pages: 7437-7446, ISSN: 0278-0046, eISSN: 1557-9948, 2018;
46. Linul, E., Movahedi, N., Marsavina, L. On the Lateral Compressive Behavior of Empty and Ex-Situ Aluminum Foam-Filled Tubes at High Temperature, MATERIALS, Volume: 11, Issue: 4, Article Number: 554, PubMed ID: 29617300, ISSN: 1996-1944, 2018;
47. Linul, E., Movahedi, N., Marsavina, L. The temperature and anisotropy effect on compressive behavior of cylindrical closed-cell aluminum-alloy foams, JOURNAL OF ALLOYS AND COMPOUNDS, Volume: 740, Pages: 1172-1179, ISSN: 0925-8388, eISSN: 1873-4669, 2018;

No.

UEFISCDI Awards

48. Linul, E., Serban, D.A., Marsavina, L. Influence of Cell Topology on Mode I Fracture Toughness of Cellular Structures, *PHYSICAL MESOMECHANICS*, Volume: 21, Issue: 2 Pages: 178-186, ISSN: 1029-9599, eISSN: 1990-5424, 2018;
49. Lupa, L., Cocheci, L., Pode, R., Hulka, I. Phenol adsorption using Aliquat 336 functionalized Zn-Al layered double hydroxide, *SEPARATION AND PURIFICATION TECHNOLOGY*, Volume: 196, Special Issue: SI, Pages: 82-95, ISSN: 1383-5866, eISSN: 1873-3794, 2018;
50. Maranescu, B., Lupa, L., Visa, A. Heavy metal removal from waste waters by phosphonate metal organic frameworks, *PURE AND APPLIED CHEMISTRY*, Volume: 90, Issue: 1, Pages: 35-47, ISSN: 0033-4545, eISSN: 1365-3075, 2018;
51. Marc, S., Kirovski, D., Mircu, C., Hutu, I., Otava, G., Paul, C., Boldura, O.M., Tulcan, C. Serum Protein Electrophoretic Pattern in Neonatal Calves Treated with Clinoptilolite, *MOLECULES*, Volume: 23, Issue: 6, Article Number: 1278, PubMed ID: 29861463, ISSN: 1420-3049, 2018;
52. Marinca, B., Marinca, V. APPROXIMATE ANALYTICAL SOLUTIONS FOR THIN FILM FLOW OF A FOURTH GRADE FLUID DOWN A VERTICAL CYLINDER, *PROCEEDINGS OF THE ROMANIAN ACADEMY SERIES A-MATHEMATICS PHYSICS TECHNICAL SCIENCES INFORMATION SCIENCE*, Volume: 19, Issue: 1, Pages: 69-76, ISSN: 1454-9069, 2018;
53. Marinca, B., Marinca, V. Some exact solutions for MHD flow and heat transfer to modified second grade fluid with variable thermal conductivity in the presence of thermal radiation and heat generation/absorption, *COMPUTERS & MATHEMATICS WITH APPLICATIONS*, Volume: 76, Issue: 6, Pages: 1515-1524, ISSN: 0898-1221, eISSN: 1873-7668, 2018;
54. Mitelea, I., Ghera, C., Bordeasu, I., Craciunescu, C. Assessment of Cavitation Erosion of Gas-Nitrided Cr-Ni-Mo Steels, *JOURNAL OF TRIBOLOGY-TRANSACTIONS OF THE ASME*, Volume: 140, Issue: 6, Article Number: 061601, ISSN: 0742-4787, eISSN: 1528-8897, 2018;
55. Moisa, M.E., Poppe, L., Gal, C.A., Bencze, L.C., Irimie, F.D., Paizs, C., Peter, F., Tosa, M.I. Click reaction- aided enzymatic kinetic resolution of secondary alcohols, *REACTION CHEMISTRY & ENGINEERING*, Volume: 3, Issue: 5, Pages: 790-798, ISSN: 2058-9883, 2018;
56. Mosoarca, M., Keller, A.I. A complex assessment methodology and procedure for historic roof structures, *INTERNATIONAL JOURNAL OF ARCHITECTURAL HERITAGE*, Volume: 12, Issue: 4, Special Issue: SI, Pages: 578-598, ISSN: 1558-3058, eISSN: 1558-3066, 2018;
57. Movahedi, N., Linul, E. Mechanical properties of Light Expanded Clay Aggregated (LECA) filled tubes, *MATERIALS LETTERS*, Volume: 217, Pages: 194-197, ISSN: 0167-577X, eISSN: 1873-4979, 2018;
58. Murvay, P.S., Groza, B. Security Shortcomings and Countermeasures for the SAE J1939 Commercial Vehicle Bus Protocol, *IEEE TRANSACTIONS ON VEHICULAR TECHNOLOGY*, Volume: 67, Issue: 5, Pages: 4325-4339, ISSN: 0018-9545, eISSN: 1939-9359, 2018;
59. Negrea, A., Gabor, A., Davidescu, C.M., Ciopec, M., Negrea, P., Duteanu, N., Barbulescu, A. Rare Earth Elements Removal from Water Using Natural Polymers, *SCIENTIFIC REPORTS*, Volume: 8, Article Number: 316, PubMed ID: 29321487, ISSN: 2045-2322, 2018;
60. Negru, R., Serban, D.A., Pop, C., Marsavina, L. Notch effect assessment in a PUR material using a ring shaped specimen, *THEORETICAL AND APPLIED FRACTURE MECHANICS*, Volume: 97, Pages: 500-506, ISSN: 0167-8442, eISSN: 1872-7638, 2018;
61. Nelson, J.D.B., Gibberd, A.J., Nafornita, C., Kingsbury, N. The locally stationary dual-tree complex wavelet model, *STATISTICS AND COMPUTING*, Volume: 28, Issue: 6, Pages: 1139-1154, ISSN: 0960-3174, eISSN: 1573-1375, 2018;
62. Niyonzima, S., Pop, N., Iacob, F., Larson, A., Orel, A.E., Mezei, J.Z., Chakrabarti, K., Laporta, V., Hassouni, K., Benredjem, D., Bultel, A., Tennyson, J., Reiter, D., Schneider, I.F. Low-energy collisions between electrons and BeD⁺, *PLASMA SOURCES SCIENCE & TECHNOLOGY*, Volume: 27, Issue: 2, Article Number: 025015, ISSN: 0963-0252, eISSN: 1361-6595, 2018;
63. Obrad, C., Gherhes, V. A Human Resources Perspective on Responsible Corporate Behavior. Case Study: The Multinational Companies in Western Romania, *SUSTAINABILITY*, Volume: 10, Issue: 3, Article Number: 726, ISSN: 2071-1050, 2018;
64. Pana, A., Baloi, A., Molnar-Matei, F. From the Balancing Reactive Compensator to the Balancing Capacitive Compensator, *ENERGIES*, Volume: 11, Issue: 8, Article Number: 1979, ISSN: 1996-1073, 2018;
65. Pop, C., Ene, R.D. Stability problems and numerical integration on the Lie group $SO(3) \times R-3 \times R-3$, *OPEN MATHEMATICS*, Volume: 16, Pages: 219-234, ISSN: 2391-5455, 2018;

No.

UEFISCDI Awards

66. Popa, C.A. Global exponential stability of neutral-type octonion-valued neural networks with time-varying delays, *NEUROCOMPUTING*, Volume: 309, Pages: 117-133, ISSN: 0925-2312, eISSN: 1872-8286, 2018;
67. Popa, C.A. Global exponential stability of octonion-valued neural networks with leakage delay and mixed delays, *NEURAL NETWORKS*, Volume: 105, Pages: 277-293, PubMed ID: 29890384, ISSN: 0893-6080, eISSN: 1879-2782, 2018;
68. Popa, C.A. Learning Algorithms for Quaternion-Valued Neural Networks, *NEURAL PROCESSING LETTERS*, Volume: 47, Issue: 3, Special Issue: SI, Pages: 949-973, ISSN: 1370-4621, eISSN: 1573-773X, 2018;
69. Popa, C.A., Kaslik, E. Multistability and multiperiodicity in impulsive hybrid quaternion-valued neural networks with mixed delays, *NEURAL NETWORKS*, Volume: 99, Pages: 1-18, PubMed ID: 29306800, ISSN: 0893-6080, eISSN: 1879-2782, 2018;
70. Popov, D. THERMAL STATES IN THE k-GENERALIZED HYPERGEOMETRIC COHERENT STATES REPRESENTATION, *PROCEEDINGS OF THE ROMANIAN ACADEMY SERIES A-MATHEMATICS PHYSICS TECHNICAL SCIENCES INFORMATION SCIENCE*, Volume: 19, Issue: 3, Pages: 431-438, ISSN: 1454-9069, 2018;
71. Radac, M.B., Precup, R.E. Data-driven model-free slip control of anti-lock braking systems using reinforcement Q-learning, *NEUROCOMPUTING*, Volume: 275, Pages: 317-329, ISSN: 0925-2312, eISSN: 1872-8286, 2018;
72. Radac, M.B., Precup, R.E., Roman, R.C. Data-driven model reference control of MIMO vertical tank systems with model-free VRFT and Q-Learning, *ISA TRANSACTIONS*, Volume: 73, Pages: 227-238, PubMed ID: 29325777, ISSN: 0019-0578, eISSN: 1879-2022, 2018;
73. Radu, D., Sedmak, A., Bancila, R. Determining the crack acceptability in the welded joints of a wind loaded cylindrical steel shell structure, *ENGINEERING FAILURE ANALYSIS*, Volume: 91, Pages: 341-353, ISSN: 1350-6307, eISSN: 1873-1961, 2018;
74. Reisz, E., von Sonntag, C., Tekle-Rottering, A., Naumov, S., Schmidt, W., Schmidt, T.C. Reaction of 2-propanol with ozone in aqueous media, *WATER RESEARCH*, Volume: 128, Pages: 171-182, PubMed ID: 29102696, ISSN: 0043-1354, 2018;
75. Roman, M., Roman, D.L., Ostafe, V., Ciorsac, A., Isvoran, A. Computational Assessment of Pharmacokinetics and Biological Effects of Some Anabolic and Androgen Steroids, *PHARMACEUTICAL RESEARCH*, Volume: 35, Issue: 2, Article Number: UNSP 41, PubMed ID: 29404794, ISSN: 0724-8741, eISSN: 1573-904X, 2018;
76. Sarbu, I., Dorca, A. A comprehensive review of solar thermoelectric cooling systems, *INTERNATIONAL JOURNAL OF ENERGY RESEARCH*, Volume: 42, Issue: 2, Pages: 395-415, ISSN: 0363-907X, eISSN: 1099-114X, Published: 2018;
77. Sarbu, I., Sebarchievici, C. A Comprehensive Review of Thermal Energy Storage, *SUSTAINABILITY*, Volume: 10, Issue: 1, Article Number: 191, ISSN: 2071-1050, Published: 2018;
78. Stanciu, E.M., Pascu, A., Roata, I.C., Croitoru, C., Tieren, M., Rosca, J.M., Hulka, I. Solar radiation synthesis of functional carbonaceous materials using Al₂O₃/TiO₂-Cu-HA doped catalyst, *APPLIED SURFACE SCIENCE*, Volume: 438, Pages: 33-40, ISSN: 0169-4332, eISSN: 1873-5584, 2018;
79. Taherishargh, M., Linul, E., Broxtermann, S., Fiedler, T. The mechanical properties of expanded perlite-aluminium syntactic foam at elevated temperatures, *JOURNAL OF ALLOYS AND COMPOUNDS*, Volume: 737, Pages: 590-596, ISSN: 0925-8388, eISSN: 1873-4669, 2018;
80. Tigan, G., Analysis of Degenerate Fold-Hopf Bifurcation in a Three-Dimensional Differential System, *QUALITATIVE THEORY OF DYNAMICAL SYSTEMS*, Volume: 17, Issue: 2, Pages: 387-402, ISSN: 1575-5460, eISSN: 1662-3592, 2018;
81. Todea, A., Borza, P., Cimporescu, A., Paul, C., Peter, F. Continuous kinetic resolution of aliphatic and aromatic secondary alcohols by sol-gel entrapped lipases in packed bed bioreactors, *CATALYSIS TODAY*, Volume: 306, Pages: 223-232, ISSN: 0920-5861, eISSN: 1873-4308, 2018;
82. Topirceanu, A., Udrescu, M., Marculescu, R. Weighted Betweenness Preferential Attachment: A New Mechanism Explaining Social Network Formation and Evolution, *SCIENTIFIC REPORTS*, Volume: 8, Article Number: 10871, PubMed ID: 30022079, ISSN: 2045-2322, 2018;

No.

UEFISCDI Awards

83. Truong, N.L.T., Savin, V., Le, K., Declercq, D., Ghaffari, F., Boncalo, O. Analysis and Design of Cost-Effective, High-Throughput LDPC Decoders, IEEE TRANSACTIONS ON VERY LARGE SCALE INTEGRATION (VLSI) SYSTEMS, Volume: 26, Issue: 3, Pages: 508-521, ISSN: 1063-8210, eISSN: 1557-9999, 2018;
84. Ursu, D., Miclau, N., Miclau, M. n-Type Conductivity of Cu₂O Thin Film Prepared in Basic Aqueous Solution Under Hydrothermal Conditions, ELECTRONIC MATERIALS LETTERS, Volume: 14, Issue: 4, Pages: 405-412, ISSN: 1738-8090, eISSN: 2093-6788, 2018;
85. Vlascici, D., Plesu, N., Fagadar-Cosma, G., Lascu, A., Petric, M., Crisan, M., Belean, A., Fagadar-Cosma, E. Potentiometric Sensors for Iodide and Bromide Based on Pt(II)-Porphyrin, SENSORS, Volume: 18, Issue: 7, Article Number: 2297, PubMed ID: 30012951, ISSN: 1424-8220, 2018;
86. Vlazan, P., Stoia, M. Structural and magnetic properties of CoFe₂O₄ nanopowders, prepared using a modified Pechini method, CERAMICS INTERNATIONAL, Volume: 44, Issue: 1, Pages: 530-536, ISSN: 0272-8842, eISSN: 1873-3956, 2018.

EXECUTIVE UNIT FOR FINANCING HIGHER EDUCATION, RESEARCH, DEVELOPMENT AND INNOVATION - UEFISCDI AWARDS - GRANTED PATENTS

1. Iclanzan T.A. Municipal waste collection plant, OSIM, RO 129774 B1, 30.07.2018.



