

TABEL  
cu rezultatele institutelor Academiei Romane in 2018  
(in completare pt. „Anexa 2”)

A. Articole publicate in reviste cotate ISI din străinătate.

- [1] **Corina Vasilescu**, M. Latikka, K. D. Knudsen, V. M. Garamus, **V. Socoliuc**, Rodica Turcu, Etelka Tombacz, **Daniela Susan-Resiga**, R. H. A. Ras and **L. Vekas**, High concentration aqueous magnetic fluids: structure, colloidal stability, magnetic and flow properties, *Soft Matter* (**Q1**), 2018, 14, 6648—6666, **Factor de impact: 3,709**.
- [2] V.I.Petrenko, O.P.Artykulnyi, L.A.Bulavin, L.Almásy, V.M.Garamus, O.I.Ivankov, N.A.Grigoryev, **L.Vekas**, P.Kopcansky, M.V.Avdeev, On the impact of surfactant type on the structure of aqueous ferrofluids, *Colloids and Surfaces A: Physicochemical and Engineering Aspects* (**Q2**), Vol 541, 222-226(2018). **Factor de impact: 3,997**.
- [3] Erzsébet Illés, Márta Szekeres, Ildikó Y.Tóth, Ákos Szabó, Béla Iván, Rodica Turcu, **Ladislau Vékás**, István Zupkó, György Jaics, Etelka Tombacz, Multifunctional PEG-carboxylate copolymer coated superparamagnetic iron oxide nanoparticles for biomedical application, *Journal of Magnetism and Magnetic Materials* (**Q2**), 451, 710-720(2018). **Factor de impact: 3,046**.
- [4] L. Pislaru-Danescu, A. M. Morega, J. B. Dumitru, M. Morega, **Nicolae C. Popa**, Floriana D. Stoian, **Daniela Susan-Resiga**, Sorin Holotescu, M. Popa, *Miniature Planar Spiral Transformer with Hybrid, Ferrite and Magnetic Nanofluid Core*, *IEEE Transactions on Magnetics* (**Q3**), **54** (10), 2018, Article No. 4600614. **Factor de impact: 1,467**.
- [5] **V. Sofonea**, T.Biciusca, S.Busuioc, V.E.Ambrus, G.Gonnella, A.Lamura, *Corner-transport-upwind lattice Boltzmann model for bubble cavitation* *Physical Review E* (**Q1**) 97 (2018) 023309, **Factor de impact: 2,284**.
- [6] **D. Susan-Resiga** and P. Barvinschi, *Correlation of rheological properties of ferrofluid-based magnetorheological fluids using the concentration-magnetization superposition*, *Journal of Rheology* (**Q1**) **62**(3), 2018, pg. 739-752, Doi: 10.1122/1.5017674. **Factor de impact: 2,969**. ISSN: 0148-6055
- [7] M. Cîrcu, A. Bunge, **C. Vasilescu**, S. Porav, A. Nan, *Non-catalytic, solvent-free synthesis of poly(tartronic-co-glycolic acid) as a versatile coating for different surfaces*, *Polymer International* (**Q2**), vol. 67 (issue 2), pp. 212-219, 2018 **Factor de impact: 2,352**.
- [8] **I. Boldea**, **L.N. Tutelea**, Wei Xu, Marcello Pucci: *Linear Electric Machines, Drives, and MAGLEVs: An Overview*, *IEEE Transactions on Industrial Electronics* (**Q1**), Year: 2018, Volume: 65, Issue: 9, Page's: 7504-7515, (**Factor impact: 7,05**);
- [9] Xiang Li, Wei Xu, Caiyong Ye, **I. Boldea**: *Comparative Study of Transversal-Flux Permanent-Magnetic Linear Oscillatory Machines for Compressor*, *IEEE Transactions on Industrial Electronics* (**Q1**), Year: 2018, Volume: 65, Issue: 9, Page's: 7437-7446, (**Factor impact: 7,05**).
- [10] B. Marinca, **V. Marinca**, 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* (**Q1**)76(6), 2018, 1515-1524, **Factor de impact (ISI): 1,86**
- [11] A Chesoa, A Stratan, **D Dubina**, Design implementation of re-centring dual eccentrically braced frames with removable links, *Soil Dynamics and Earthquake Engineering* (**Q2**) 112, 174-184
- [12] C Vulcu, A Stratan, A Ciutina, **D Dubina**, Closure to “Beam-to-CFT High-Strength Joints with External Diaphragm. II: Numerical Simulation of Joint Behavior” by Cristian Vulcu, Aurel Stratan, Adrian Ciutina, and Dan Dubina, *Journal of Structural Engineering* (**Q2**) 144 (5), 07018005
- [13] S de Miranda, D Melchionda, **V Ungureanu**, **D Dubina**, A modified ECBL approach for cold-formed steel rack section members, *Thin-Walled Structures* (**Q1**)(**IF 2.881**) 130, 47-56, 2018.
- [14] **V Ungureanu**, M Kotelko, A Karmazyn, **D Dubina**, Plastic mechanisms of thin-walled cold-formed steel members in eccentric compression, *Thin-Walled Structures* (**Q1**) (**IF 2.881**) 128, 184-192,2018

B. Articole publicate in reviste cotate ISI din Romania.

- [1] **D. Susan-Resiga**, **L. Vékás**, *From high magnetization ferrofluids to nano-micro composite magnetorheological fluids: properties and applications*, *Romanian Reports in Physics* (**Q3**) **70**, Article No. 501 (2018). **Factor de impact: 1.582**. ISSN: 1221-1451, 1841-8759
- [2] **Ghe. Madescu**, E. Berwanger, M. Biriescu, M. Moț: *Fast Analysis of MMF Harmonics Content in Three-Phase Electrical Machines*, *Proceedings of the Romanian Academy, Series A* (**Q2**), Volume 19, Number 2/2018, pp. 369-376. **Factor de impact (ISI): 1,752**
- [3] B. Marinca, **V. Marinca**, 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* (**Q2**), **Factor de impact (ISI): 1,752**.
- [4] Zub, C.I., Stratan, A., Dogariu, A. and **Dubina, D.** (2018), "*Development of a finite element model for a buckling restrained brace*", *Proceedings of the Romanian Academy Series A*, (**Q2**), Vol 19, No. 4, 2018, 581-588. **Factor de impact (ISI): 1,752**

## B'. Articole in publicatii non/necotate-ISI in strainatate si ISI Conference Proceedings

- [1] Ivo Safarik\*, Kristyna Pospiskova, Eva Baldikova, Ioanna Savva\*, **Ladislau Vekas**, Oana Marinica, Eugenia Tanasa, and Theodora Krasia-Christoforou, Fabrication and Bioapplications of Magnetically Modified Chitosan-based Electrospun Nanofibers, *Electrospinning 2018*; 2:29–39.
- [2] Totorean A.F, Hudrea I.C., **Bernad S.I.**, Gaita, D.I., Anastomosis Configuration Influence on Local Hemodynamics in Coronary Bypass, *Proceedings of the 15th International Conference on Numerical Analysis and Applied Mathematics 20176 (ICNAAM-2017)*, AIP Conference Proceedings, Volume: 1978, Article Number: UNSP 030015-1, DOI: 10.1063/1.5043665, Published: 2018, ISBN: 978-0-7354-1690-1, ISSN: 0094-243X, WOS: 000445105400019
- [3] Totorean A.F., Hudrea I.C., **Bernad S.**, Fluid Dynamics in Simplified pre and post-Stented Coronary Bifurcation, *Proceedings of the 14th International Conference on Acoustics and Vibration of Mechanical Structures (AVMS)*, Springer Proceedings in Physics, Volume: 198, Pages: 173-180, DOI: 10.1007/978-3-319-69823-6\_21, Published:2018, ISBN: 978-3-319-69823-6, 978-3-319-69822-9, ISSN: 0930-8989, eISSN: 1867-4941, WOS:000437313600021
- [4] **Bosioc A.I., Muntean S.**, Anton L.E., Numerical Simulation of an Axial Rotor with Variable Speed in a Pump Impeller, *Proceedings of the 15th International Conference on Numerical Analysis and Applied Mathematics (ICNAAM 2017) AIP Conference Proceedings*, Volume: 1978 Article Number: UNSP 030017-1 Published: 2018 DOI: 10.1063/1.5043667 WOS:000445105400021.
- [5] Galatanu S.V, **Muntean S.**, Marsavina L., Micota D. and Draghici I., 2018, Integrity Analysis of the Rainwater Pump Impeller, *MATEC Web of Conf.*, Volume 188, Art. nr.04005. (BDI Scopus)
- [6] Micota D, Galațanu S.V, Marșavina L. and **Muntean S.**, 2018, Evaluation of the mechanical properties and failure mechanism of fibres formed in municipal wastewater systems, *IOP Conf. Series: Materials Science and Engineering* 416 (2018) 012038 doi:10.1088/1757-899X/416/1/012038.
- [7] **L. N. Tutulea, Ileana Torac**, G. Giovinco, F. Marignetti, **I. Boldea**, *1.2 MW, 2-6Krpm BLDC-MRM traction drive: preliminary design with key FEM inquiries*, Conferința ICEM, Alexandroupolis , Grecia – 31.08-6.09.2018 articol AF-002208, ISBN 978-1-5386-2476-0;
- [8] M. Greconici, **Ghe. Madescu**, M. Moț, M. Biriescu, Danijela Milosevici: *Analysis of a PM Generator with Inset Magnets*, International Symposium on Electronics and Telecommunications, 8-9 nov. 2018, Timișoara, ISBN 978-1-5386-5925-0/18;
- [9] D. Hulea, O. Cornea, **N. Muntean**: *Energy Management Strategy for Supercapacitor Storage using a Nonlinear Virtual Impedance*, *Proceedings of the 2018 IEEE 18th International Conference on Power Electronics and Motion Control (PEMC)*, Budapest, Hungary.
- [10] **N. Herişanu, V. Marinca**, Free Oscillations of Euler-Bernoulli Beams on Nonlinear Winkler-Pasternak Foundation, *Springer Proceedings in Physics* Vol. 198 pp. 41-48, 2018
- [11] **V. Marinca, N. Herisanu**, Vibration of Nonlinear Nonlocal Elastic Column with Initial Imperfection, *Springer Proceedings in Physics* Vol. 198, pp. 49-56, 2018.
- [12] **Dubina D, Dinu F**, Marginean I. Multi-hazard risk mitigation through application of seismic design rules. *Key Engineering Materials*, 2018; 763: 1139-1146.
- [13] **D Dubină, F Dinu**, I Marginean, Multi-hazard risk mitigation through application of seismic design rules, *Key Engineering Materials* 763, 1139-1146.
- [14] A Stratan, CI Zub, **D Dubină**, Experimental Tests for Pre-Qualification of a Set of Buckling-Restrained Braces, *Key Engineering Materials* 763, 450-457.
- [15] M Zimbru, M D'Aniello, A Stratan, R Landolfo, **D Dubină**, Finite Element Analysis of Composite Replaceable Short Links, *Key Engineering Materials* 763, 576-583.
- [16] Vătămănuș Adina, Ciutina Adrian, **Grecea D.**, “Seismic response of composite eccentrically braced frames with short dissipative element”, *Proceedings of The 9th International Conference on the Behaviour of Steel Structures in Seismic Areas*, STESSA, Christchurch, Noua Zeelandă, feb. 2018 (ISI)
- [17] Vătămănuș Adina, Ciutina Adrian, **Grecea D.**, “A numerical investigation for the optimisation of the seismic response of steel eccentrically braced frames with short dissipative elements”. *Proceedings of The 17th edition International Technical-Scientific Conference „Modern Technologies for the 3rd Millennium”*, March 22-23, 2018, Oradea (Romania) (ISI)
- [18] Marco Bruno, **D. Grecea**, “Sustainable retrofitting of existing residential buildings: A study of energy consumption”, *5th International Multidisciplinary Scientific Conference on Social Sciences and Arts SGEM*, Conference Proceedings Vol.5, 5.1 Architecture & Design, pp.345-352, 19-21 March 2018, Hofburg Congress Centre, Vienna (Austria) (ISI).
- [19] **Georgescu M., Ungureanu V.**, Marsavina L., Floricel A., Gruin A. “Composite roofing of PIR sandwich panels: numerical and experimental approach”, *World Multidisciplinary Civil Engineering-Architecture-Urban Planning Symposium 2018*, Prague, Czech Republic, WMCAUS 2018, Procedia Engineering, 2017 IOP Conf. Ser.: Mater. Sci. Eng. 245 022056.
- [20] **V Ungureanu**, I Both, M Burca, Ș Benzar, TH Nguyen, C Neagu, **D Dubină**, Experimental Investigations on Spot Welded Built-Up Cold-Formed Steel Beams, *Advanced Materials Research* 1146, 142-151
- [21] CI Zub, A Stratan, A Dogariu, C Vulcu, **D Dubina**, Development of Two Types of Buckling Restrained Braces Using Finite Element Modelling, Seismic Hazard and Risk Assessment, Updated Overview with Emphasis on Romania, Ed. R. Vacareanu, C. Ionescu, Conference proceedings, 373-387, 2018.
- [22] D.M. Muntean, **V. Ungureanu**: Smart grid integration towards sustainable retrofitting of large prefabricated concrete panels collective housing built in the 1970s. *Life-Cycle Analysis and Assessment in Civil Engineering: Towards an Integrated Vision – Caspeele, Taerwe & Frangopol (Eds) © 2019 Taylor & Francis Group, London, ISBN 978-1-138-62633-1, pp. 539*

+ pp. 3045-3050.

- [23] Marginean I, **Dinu F**, **Dubina D**. Simulation of the dynamic response of steel moment frames following sudden column loss. Experimental calibration of the numerical model and application, *Steel Construction-Design and Research*, Volume: 11 Issue: 1 Pages: 57-64 Published: FEB 2018.

#### C. Articole publicate in reviste/proceedings conferinte din Romania.

- [1] Bernad E., Moza A., **Bernad S.I.**, (2018), Ultrasound Assessment of the Umbilical Cord Knot, *Proceedings of the 6th Congress of the Ultrasound Society in Obstetrics and Gynecology*, Published July 2018, pp: 46-50, ISBN: 978-88-85813-20-5.
- [2] **Bernad S.I.**, Moza A., Bernad E., (2018), Umbilical cord Sonographic and Numerical Investigation, *Proceedings of the 6th Congress of the Ultrasound Society in Obstetrics and Gynecology*, Published July 2018, pp: 349-352, ISBN: 978-88-85813-20-5
- [3] **L.C. Ocolişan**, S.M. Iancu, Ghe. Vertan: *Aspecte IT privind modul de calcul și analiză a performanțelor mașinile electrice de inducție utilizând programe de tip "IND"*, A XVIII-a Conferință internațională multidisciplinară „Prof. Dorin Pavel - fondatorul hidroenergeticii românești”, Sebeș jud. Alba, 1-2 iunie 2018, Editura „EA”, „Știință și inginerie” București, an XVIII - Vol. 33-34/2018, ISSN 2067-7138, pag. 7-14;
- [4] **L.C. Ocolişan**, S.M. Iancu, Ghe. Vertan: *Calculul parametrilor unui motor de inducție la diferite valori ale sarcinii, folosind programe de tipul IND*, A XVIII-a Conferință internațională multidisciplinară „Prof. Dorin Pavel - fondatorul hidroenergeticii românești”, Sebeș jud. Alba, 1-2 iunie 2018, Editura „EA”, „Știință și inginerie” București, an XVIII - Vol. 33-34/2018, ISSN 2067-7138, pag. 15-22.
- [5] **Ungureanu V.**, **Dubina D.**, Both I., Neagu C., Benzar St., Burca M., Tunea D., **Georgescu M.**, „Incerari Experimentale si simulari numerice pe grinzi compuse din hotel realizate din elemente cu pereti subtiri formate la rece asamblate cu tehnologii de sudare cu productivitate ridicata” *Revista AICPS*, nr. 3-4 /2018

#### D. Carti/capitole carti publicate in străinătate.

- [1] **Vlad Socoliuc**, Victor Kuncser, Rodica Turcu, **Ladislau Vékás**, 4.5 *Magnetic characterization*, in: Chapter 4: Iron oxide nanoparticle-based contrast agents, in: *Contrast Agents for MRI: Physical Methods*, Editors: Valerie C. Pierre and Matthew J. Allen (Royal Society of Chemistry UK (2018)) pp. 387-422;
- [2] V. I. Petrenko, A. V. Nagorny, I. V. Gapon, **L. Vekas**, V. M. Garamus, L. Almasy, A. V. Feoktystov, M. V. Avdeev, *Magnetic Fluids: Structural Aspects by Scattering Techniques*, *Modern Problems of Molecular Physics*, Editors Leonid A. Bulavin, Alexander V. Chalyi, pp. 205-226(2017) First Online: 22 December 2017.
- [3] **I. Boldea**, **L. Tutulea** “Reluctance electric machines design and control”, 417pp, CRC Press, Florida, Taylor&Francis NewYork, 2018.

#### E. Carti publicate in EAR.

- [1] **Dubina D.** (coordonator), **Dinu F.**, Vacareanu R., Cap. 12 *Istoria Constructiilor*, in *Istoria Tehnicii si Industriei Romanesti*, Vol. I (editor Banabic D.), Ed. Academiei Romane, 2018.

#### F. Carti publicate in tara.

- G. **Citări ISI ale lucrărilor anterioare, în anul 2018 (fara autocitari): 815** (in fisier separat)  
**Citari non ISI in anul 2018 (fara autocitari): 34** (in acelasi fisier separat)

#### H. Conferinte.

- [1] **L Vekas**: From ferrofluids to magneto-responsive nanocomposites and magnetorheological suspensions: tuning properties to applications, keynote lecture, 11th Int.Conf. Colloid Chemistry, 28-30 May, 2018, Eger, Ungaria
- [2] **Corina Vasilescu**, M. Latikka, K. D. Knudsen, V.M. Garamus, **V. Socoliuc**, Rodica Turcu, Etelka Tombácz, **Daniela Susan-Resiga**, R.H.A. Ras, **L. Vékás**, High magnetization water-based ferrofluids: electrostatic vs. electro-steric stabilization, structure, magnetic and flow properties, prezentare orală, ANNIC Berlin, 22-24 October, 2018
- [3] **L. Vekas**, From ferrofluids to magnetorheological suspensions: tuning properties to applications, prelegere invitata la Seminarul *Magnetic nanoparticle applications: a perspective from Romania*, Physikalisches-Technische Bundesanstalt, 25 Oct., 2018, Berlin
- [4] Crainic Nicolae, Torres Marques Antonio, **Vekas Ladislau**, Correia Nuno, **Popa Nicolae Calin**, Nova Paulo, Maria Inês da Rocha Barros, *The use of the nanomagnetic fluids and the magnetic field to enhance the production of nanomagnetic composite systems*, **4th International Conference on Mechanics of Composites**, 9 – 12 July 2018, Universidad Carlos III de Madrid, Spain (prezentare orală), Book of Abstracts, paper 14469, pg. 53.
- [5] **V. Sofonea**, V.E.Ambrus, *Lattice Boltzmann approach to evaporation – condensation* COST Conference Flowing Matter 2018, February 5 – 9, 2018, Lisbon (Portugal)

- [6] **V. Sofonea**, V.E. Ambrus, *Lattice Boltzmann approach to evaporation – condensation between parallel plates* 3rd European Conference on Non-Equilibrium Gas Flows, February 28 – March 2, 2018, Strasbourg (France)
- [7] V.E. Ambrus, **V. Sofonea**, *Lattice Boltzmann approach to rarefied channel flows using half-range Gauss-Hermite quadratures* 31st International Symposium on Rarefied Gas Dynamics, July 23 – 27, Glasgow (United Kingdom)
- [8] D. Lazic, P. C. Fannin, **V. Socoliuc**, P. Sfirloaga, P. Barvinschi, I. Malaescu, C. N. Marin: “*The influence of the size of particles on magnetic heating of a mixed ferrite*”, TIM 18 Physics Conference 24 - 26 May 2018, Timisoara, Romania;
- [9] **V. Socoliuc**, R. Turcu: “*High frequency ac magnetic field induced large scale aggregation in magnetic colloids*”, TIM 18 Physics Conference 24 - 26 May 2018, Timisoara, Romania;
- [10] **V. Socoliuc**, R. Turcu: „*High frequency magnetic field induces large scale aggregates in a colloidal dispersion of magnetic microgels*”, 11th Conference on Colloid Chemistry 28-30 May 2018 Eger, Hungary;
- [11] T. Vangijzegem, D. Stanicki, S. Boutry, Q. Paternoster, **V. Socoliuc**, **L. Vekas**, L. Vander Elst, R.N. Muller, S. Laurent: “*VISION : evidence of their potential as T1 contrast agents for MRI and development of a production method by means of continuous flow process*”, COST – RADIOMAG Final Conference & MC meeting, 16-18 Oct 2018 Florence, Italy;
- [12] **V. Socoliuc**, R. Turcu: „*High frequency magnetic fields can induce large scale aggregates in magnetic colloids*”, COST – RADIOMAG Annual Action Progress Conference & MC meeting, 22-23 March 2018 Timisoara, Romania;
- [13] R.A. Szakal, A.I. Bosioc, S. Muntean, **D. Susan-Resiga** and **L. Vékás**, 2018, *Experimental investigations in a magnetorheological brake embedded in a swirl generator apparatus*, 2nd Int. Conf. on Mater. Design and Applic. (MDA2018), 5-6 July 2018, Porto, Portugal – prezentare orală R.A. Szakal.
- [14] S. Bernad, **D. Susan-Resiga**, **L. Vékás**, *Influence of the hemodynamics on drug particle targeting*, COST – RADIOMAG Annual Action Progress Conference & MC meeting Timisoara, Romania, 22-23 March 2018 – prezentare orală S. Bernad
- [15] S.I. Bernad, **D. Susan-Resiga**, E. Bernad, **L. Vékás**, *Drug targeting investigation in the critical region of the arterial bypass graft*, COST – RADIOMAG Annual Action Progress Conference & MC meeting Timisoara, Romania, 22-23 March 2018 – poster
- [16] S.I. Bernad, **D. Susan-Resiga**, R.P. Turcu, I. Craciunescu, E.S. Bernad, **L. Vékás**, *Hemodynamic effects on particle targeting in the arterial bifurcation for a different type of particles*, COST – RADIOMAG Annual Action Progress Conference & MC meeting Timisoara, Romania, 22-23 March 2018 – poster
- [17] I. Malaescu, **D. Susan-Resiga**, C. N. Marin and P. C. Fannin, *Thermal conductivity and rheological behavior of ferrofluids in polarizing magnetic field*, TIM 18 Physics Conference, Timisoara, Romania, 24-26 May 2018 – poster
- [18] Corina Vasilescu, M. Latikka, K.D. Knudsen, V.M. Garamus, **V. Socoliuc**, R. Turcu, E. Tombácz, **D. Susan-Resiga**, R.H.A. Ras, **L. Vékás**, *High concentration aqueous magnetic fluids: structure, colloidal stability, magnetic and flow properties*, RADIOMAG Annual Action Progress Conference & MC meeting, Florence. Italy, October 16-18, 2018.
- [19] Corina Vasilescu, Cristina Paul, Ioana-Cristina Benea, Anamaria Todea, Alexandrina Nan, Rodica Turcu, Francisc Peter, *New multilayer magnetic biocatalyst for esterification and transesterification reactions*, 18<sup>th</sup> European Congress on Biotechnology, 1-4 iulie 2018, Geneva, Elveția
- [20] Hedeş A., Svoboda M., Anton L.E., Vitan D. and **Muntean S.**, 2018, *In situ measurements on the axial pumps motors of a wastewater station*, 18th IEEE Int. Conf. on Environ. and Electrical Eng. 12-15 June 2018 (Palermo, Italy)
- [21] Szakal R.A., **Bosioc A.I.**, **Muntean S.**, Susan-Resiga D. and Vékás L., 2018, *Experimental investigations in a magnetorheological brake embedded in a swirl generator apparatus*, 2nd Int. Conf. on Mater. Design and Applic. (MDA2018), 5-6 July 2018, (Porto, Portugal)
- [22] **Bosioc A.I.**, Ardelean T., Szakal R., **Muntean S.**, Borbath I. and Vékás L., 2018, *Experimental investigations of a MR clutch for a centrifugal pump*, 2nd Int. Conf. on Mater. Design and Applic. (MDA2018), 5-6 July 2018, (Porto, Portugal)
- [23] **Muntean S.**, **Bosioc A.I.**, Marşavina L., Galaşanu S.V., Drăghici I., and Anton L.E., 2018, *Failure analysis of the rainwater axial pumps installed in a wastewater pumping station*, 29th IAHR Symp. on Hydr. Mach. and Syst. 17-21 September 2018 (Kyoto, Japan). Paper no. 147
- [24] **Susan-Resiga R.F.**, Popescu C., Szakal R., **Muntean S.** and Stuparu A., 2018, *A benchmark test case for swirling flows: design of the swirl apparatus, experimental data, and numerical challenges*, 29th IAHR Symp. on Hydr. Mach. and Syst. 17-21 September 2018 (Kyoto, Japan). Paper no. 93
- [25] **Susan-Resiga R.F.**, Stuparu A. and **Muntean S.**, 2018, *Francis turbine with tandem runners: a proof of concept*, 29th IAHR Symp. on Hydr. Mach. and Syst. 17-21 September 2018 (Kyoto, Japan). Paper no. 82
- [26] Tanasa C., Szakal R., Mos D., **Muntean S.**, and Ciocan T., 2018, *Numerical and Experimental Assessment of the Pulsating Water Jet in Conical Diffusers*, 29th IAHR Symp. on Hydr. Mach. and Syst. 17-21 September 2018 (Kyoto, Japan). Paper no. 61
- [27] **Bosioc A.I.**, Mos D.C., Draghici I., **Muntean S.** and Anton L.E., 2018, *Experimental Analysis of a Pump Equipped with an Axial Rotor with Variable Speed*, 29th IAHR Symp. on Hydr. Mach. and Syst. 17-21 September 2018 (Kyoto, Japan). Paper no. 131
- [28] **Muntean S.**, Marşavina L., Hedeş A., Anton L.E. and Vlaicu I., 2018, *In situ investigations and failure analysis of the rainwater pumps from a wastewater treatment plant*, 20th Int. Conf. on Hydropower Plants 14-16 November 2018 (Vienna, Austria)
- [29] Moş D.C., **Muntean S.** and Anton L.E., 2018, *3D Numerical Flow Analysis of the Non-uniformity Induced by a Reshaped Geometry of the Symmetrical Suction Elbow*, 20th Int. Conf. on Hydropower Plants 14-16 November 2018 (Vienna, Austria)

- [30] Ognean D., Moş D.C. and **Muntean S.**, 2018, Technical solution to increase capacity of the centrifugal pumps operated in the protection system against flooding due to climate change, 20th Int. Conf. on Hydropower Plants 14-16 November 2018 (Vienna, Austria)
- [31] Predoiu I.-C., Marsavina L. and **Muntean S.**, 2018, Numerical determination of stress concentration near runner blade – crown/band junctions, 1st Int. Conf. on Comput. Methods and Applicat. Eng., 26-28 May 2018 (Timisoara, Romania).
- [32] L.A. Fülöp, **V. Ungureanu**, Zs. Nagy, D. Muntean (2018): Opportunities and barriers to the deep rehabilitation of the collective buildings in East Europe. A roadmap for a Sustainable integrated Retrofit of CONcrete buildings, SAFESUST 2 - SURECON Workshop, Joint Research Centre, Ispra (VA) – Italy, October 23 - 24, 2018.
- [33] **V. Ungureanu**, L.A. Fülöp, A. Ciutina, A.A. Botici, **D. Dubina** (2018): Structural and thermal interventions for rehabilitation of precast large concrete panels for residential buildings. A roadmap for a Sustainable integrated Retrofit of CONcrete buildings, SAFESUST 2 - SURECON Workshop, Joint Research Centre, Ispra (VA) – Italy, October 23 - 24, 2018.
- [34] **V. Ungureanu**, **D. Dubina** (2018): Built-up cold-formed steel beams with corrugated web connected through spot welding or MIG brazing. ECCS TC7 – TWG 7.5, June 14th -15th, 2018 – Poznań, Poland.
- [35] Marginean I, **Dinu F**, Kulcsár R, Sabău S, **Dubina D**. Ultimate capacity of steel frames with bolted connections under column loss scenarios, IRF2018 6th International Conference on Integrity-Reliability-Failure, Lisbon/Portugal, 22-26 July 2018.
- [36] Influence of 4 bolts-per-row connection on a steel frame building subjected to column loss. Daniel Nunes, I. Marginean, Adrian Ciutina, **F. Dinu**, IRF2018 6th International Conference on Integrity-Reliability-Failure, Lisbon/Portugal, 22-26 July 2018.
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## I. Rapoarte de interes public.

**J. Brevete de inventii.**

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