

TABEL  
cu rezultatele institutelor Academiei Romane in 2019  
(in completare pt. „Anexa 2”)

A. Articole publicate in reviste cotate ISI din străinătate.

- [1] **Bernad, Sandor I.; Susan-Resiga, Daniela; Vekas, Ladislau;** et al., *Drug targeting investigation in the critical region of the arterial bypass graft*, Conference: 12th International Conference on the Scientific and Clinical Applications of Magnetic Carriers (MagMeet) Location: Copenhagen, DENMARK Date: MAY 22-26, 2018 **Journal of Magnetism and Magnetic Materials** Volume: 475 Pages: 14- 23 Published: APR 1 2019; FI=2.683(Q2).
- [2] **Susan-Resiga D, Socoliuc V,** Bunge A, Turcu R, **L. Vékás,** *From high colloidal stability ferrofluids to magnetorheological fluids: tuning the flow behavior by magnetite nanoclusters*, **Smart Materials and Structures**, 28, 115014(2019)(13pp) FI=3.543 (Q1)
- [3] G. Negro, S. Busuioc, V.E. Ambrus, G. Gonnella, A. Lamura, **V. Sofonea,** Comparison between isothermal collision-streaming and finite-difference lattice Boltzmann, **International Journal of Modern Physics C**, 30 (2019) 1941005 ; FI=1.017(Q3)
- [4] Amanda Moyano, María Salvador, José C. Martínez-García, **Vlad Socoliuc, Ladislau Vékás,** Davide Peddis, Miguel A. Alvarez, María Fernández, Montserrat Rivas, M. Carmen Blanco-López: *Magnetic immunochromatographic test for histamine detection in wine*, **Analytical and Bioanalytical Chemistry** **411**(25) (2019) 6615–6624; FI=3.286 (Q1)
- [5] **Bernad, S.I., Susan-Resiga, D.,** Bernad, E.S., *Hemodynamic Effects on Particle Targeting in the Arterial Bifurcation for Different Magnet Positions*, **Molecules** (Basel, Switzerland), **24** (13), 2019. ISSN:1420-3049, FI= 3.060. (Q2).
- [6] Kougias I., Aggidis G., Avellan F., Deniz S., Lundin U., Moro A., **Muntean S.,** Novara D., Pérez-Díaz J.I., Quaranta E., Schild P. and Theodossiou N. (2019) *Analysis of emerging technologies in the hydropower sector* (Review paper), **Renewable and Sustainable Energy Reviews**, **113**(11), Article number 109257. FI=10.556 (Q1)
- [7] **Muntean S.,** Marşavina L., Hedeş A., Anton L.E. and Vlaicu I., (2019) *In situ investigations and failure analysis of the rainwater pumps installed in a wastewater treatment plant*, **WasserWirtschaft Extra**, **109**, pp. 46-51. FI=0.202(Q4)
- [8] Moş D.C., **Muntean S.,** and Anton L.E., (2019) *3D numerical flow analysis of the non-uniformity induced by a reshaped geometry of the symmetrical suction elbow*, **WasserWirtschaft Extra**, **109**, pp. 86-91. FI=0.202 (Q4)
- [9] **N. Herişanu, V. Marinca, G. Madescu:** „Application of the Optimal Auxiliary Functions to a Permanent Magnet Synchronous Generator”. **International Journal of Nonlinear Sciences and Numerical Simulation**, Vol. 20(3-4) Pag.399-406 (2019), ISSN: 1565-1339, FI=1.033 (Q3)
- [10] **N. Herişanu, V. Marinca, G. Madescu, F. Dragan:** „Dynamic Response of a Permanent Magnet Synchronous Generator to a Wind Gust”. **Energies**, Vol. 12(5), Article Number 915 (2019), ISSN: 1996-1073, FI=2.707 (Q3)
- [11] **Dubina Dan,** Marginean Ioan, **Dinu Florea,** Impact modelling for progressive collapse assessment of selective rack systems, **Thin-Walled Structures**, Volume: 143, DOI: 10.1016/j.tws.2019.106201. FI=3.488 (Q1)
- [12] Anwar, Ghazanfar Ali; **Dinu Florea;** Ahmed, Munir, Numerical Study on Ultimate Deformation and Resistance Capacity of Bolted T-Stub Connection, **International Journal of Steel Structures**, Volume: 19, Issue: 3, Pages: 970-977, Jun 2019, DOI: 10.1007/s13296-018-0186-8. FI=0.873 (Q4)
- [13] Vares S., Hradil P., Sansom M., **Ungureanu V.** (2019): Economic potential and environmental impacts of reused steel structures. **Structure and Infrastructure Engineering**, <https://doi.org/10.1080/15732479.2019.1662064>. FI=2.43 (Q2)

B. Articole publicate in reviste cotate ISI din Romania.

- [14] Cristian Zaharia, Cosmin Sinescu, Alin-Gabriel Gabor, Andreea Codruta Cojocariu, **Vlad Socoliuc,** Camelia Szuhaneck, Meda-Lavinia Negrutiu: *MicroCT Analysis of Dental Adhesives Loaded with Nanoparticles*, **Revista de Chimie** (Bucharest) 70(5) (2019) 1769-1773; FI=1.605 (Q3)
- [15] Roxana Oancea, Cristian Zaharia, Alin-Gabriel Gabor, Cosmin Sinescu, Marius Mioc, Delia Berceanu Vaduva, Catalin Petru Simon, **Vlad Socoliuc,** Mihai Rominu, Meda-Lavinia Negrutiu: *Imagistic Analysis of Dental Adhesives Loaded with Nanoparticles Used on Teeth Sealing of Pits and Fissures with Resin Based Materials*, **Materiale Plastice** 56(2) (2019) 449-453; FI=1.393 (Q4)
- [16] Cristian Zaharia, Cosmin Sinescu, Alin-Gabriel Gabor, **Vlad Socoliuc,** Serban Talpos, Tareq Hajaj, Paula Sfirloaga, Roxana Oancea, Marinela Miclau, Meda-Lavinia Negrutiu: *Influences of Polymeric Magnetic Encapsulated Nanoparticles on the Adhesive Layer for Composite Materials Used for Class I Dental Fillings*, **Materiale Plastice** 56(2) (2019) 399-404; FI=1.393 (Q4)
- [17] Zub Ciprian Ionut; Stratan Aurel; Dogariu Adrian; **Dan Dubina,** Development of a Finite Element Model for a Buckling Restrained Brace, **Proceedings of the Romanian Academy Series A-Mathematics Physics Technical Sciences Information Science**, Volume: 19, Issue: 4, Pages: 581-588, Published: OCT-DEC 2018. IF 1.402 (Q3)

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

- [1] Panteli, Sotiris; Savva, Ioanna; Efstathiou, Maria; **Vekas, Ladislau**, et al. *beta-ketoester-functionalized magnetoactive electrospun polymer fibers as Eu(III) adsorbents*, **SN Applied Sciences** Volume: 1 Issue: 1 Article Number: 30 Published: JAN 2019
- [2] V.E. Ambrus, F. Sharipov, **V. Sofonea**, *Lattice Boltzmann approach to rarefied gas flows using half-range Gauss-Hermite quadratures: Comparison to DSMC results based on ab initio potentials* AIP Conference Proceedings 2132 (2019) 010001, 31st International Symposium on Rarefied Gas Dynamics (RGD31), July 23 – 27, Glasgow, United Kingdom. Editors: Yonghao Zhang, David R. Emerson, Duncan Lockerby and Lei Wu
- [3] D. Lazic, P. C. Fannin, P. Sfirloaga, P. Barvinschi, I. Malaescu, **V. Socoliuc**, C. N. Marin: *Influence of the Size of Particles on the Magnetic Heating of a Mixed Ferrite*, AIP Conference Proceedings 2071 (2019) 040012(5pp);
- [4] **Bernad S.I.**, Moza A., Bernad E., (2019) *Numerical Analysis of the Umbilical Cord under Different Outlet Pressure Conditions*, Proceedings of 4th Congress of the Romanian Society for Minimal Invasive Surgery in Gynecology, July 2019, pp: 139-143.
- [5] Totorean AF, Totorean IC, **Bernad SI**, (2019) *Local vs. Global Parameters in Case of Grid-Sensitivity Study for Computational Fluid Dynamics with Application in Bypass Hemodynamics*, AIP Conference Proceedings, **2116**, 030032.
- [6] Totorean IC, Totorean AF, **Bernad SI**, Gaita D, (2019) *Flow field alterations in case of coronary stent malapposition - A computational fluid dynamics study*, AIP Conference Proceedings, **2116**, 030033.
- [7] Totorean AF, Totorean IC, **Bernad SI**, Gaita D, (2019) *Numerical investigation of an idealized overlapping coronary stents configuration*, 15th International Conference on Acoustics and Vibration of Mechanical Structures (AVMS), Timisoara, Romania. May 30-31, 2019.
- [8] **Susan-Resiga R.F.**, Stuparu A. and **Muntean S.** (2019) *Francis turbine with tandem runners: A proof of concept*, IOP Conference Series: Earth and Environmental Science, **240**(2), 022012.
- [9] **Susan-Resiga R.F.**, Popescu C., Szakal R., **Muntean S.** and Stuparu A. (2019) *A benchmark test case for swirling flows. Design of the swirl apparatus, experimental data and numerical challenges*, IOP Conference Series: Earth and Environmental Science, **240**(7), 072004.
- [10] **Muntean S.**, Bosioc A.I., Marşavina L., Gălăţanu S.V., Drăghici I. and Anton L.E. (2019) *Failure analysis of the rainwater axial pumps installed in a wastewater pumping station*, IOP Conference Series: Earth and Environmental Science, **240**(3), 032022.
- [11] Bosioc A.I., Moş D.C., Drăghici I., **Muntean S.** and Anton L.E. (2019) *Experimental analysis of a pump equipped with an axial rotor with variable speed*, IOP Conference Series: Earth and Environmental Science, **240**(3), 032021.
- [12] Tănasă C., Szakal R., Moş D., Ciocan T. and **Muntean S.** (2019) *Experimental and numerical analysis of decelerated swirling flow in the discharge cone of hydraulic turbines using pulsating jet techniques*, IOP Conference Series: Earth and Environmental Science, **240**(2), 022010.
- [13] **Muntean S.**, Bosioc A.I., Drăghici I.A. and Anton L.E., (2019) *Investigation and Analysis of the Flow Field Induced by a Symmetrical Suction Elbow at the Pump Inlet*, Proceedings of the ASME-JSME-KSME 2019, 8th Joint Fluids Engineering Conference AJKFluids2019, July 28-August 1, 2019, San Francisco, CA, USA. Paper no. AJKFluids2019-5066, pp. 1 – 10.
- [14] Bosioc A.I., Moş D.C., **Muntean S.** and Anton L.E., (2019) *Analysis of a Centrifugal Pump Equipped With an Axial Rotor with Variable Speed*, Proceedings of the ASME-JSME-KSME 2019, 8th Joint Fluids Engineering Conference AJKFluids2019, July 28-August 1, 2019, San Francisco, CA, USA. Paper no. AJKFluids2019-5617, pp. 1 – 10.
- [15] Ardelean T., **Muntean S.** and **Susan-Resiga R.**, (2019) *Vortex Breakdown in Decelerated Swirling Flows*, in Conference Proceedings of the 9th International Conference on Energy and Environment CIEM 2019, October 19-20, 2019, Timisoara, Romania, Paper #13.
- [16] Szakal R.A., **Susan-Resiga D.**, **Muntean S.** and **Vékás L.**, (2019) *Magneto-rheological Fluids Flow Modelling Used in a Magneto-rheological Brake Configuration*, in Conference Proceedings of the 9th International Conference on Energy and Environment CIEM 2019, October 19-20, 2019, Timisoara, Romania, Paper #120.
- [17] Moş D.C., Opreş V., **Muntean S.** and Anton L.E., (2019) *Experimental analysis of the unsteady pressure field induced by a simplified geometry of the suction elbow at the pump inlet*, in Conference Proceedings of the 9th International Conference on Energy and Environment CIEM 2019, October 19-20, 2019, Timisoara, Romania, Paper #121.
- [18] Anton A., Mos D., **Muntean S.**, Draghici I., *Software Solution for Efficiency Assessment of the Hydraulic Pumps in Service*, in Conference Proceedings of the 9th International Conference on Energy and Environment CIEM 2019, October 19-20, 2019, Timisoara, Romania, Paper #111.
- [19] Predoiu I.-C., Marsavina L., **Muntean S.**, (2019) *Numerical assessment of stress concentration in Francis runner blade – crown/band junctions*, ITM Web of Conferences **29**, 02006.
- [20] **G. Madescu**, E Berwanger, M. Biriescu, M Mot, M. Greconici, “Very Fast Prediction of MMF Harmonics Content in Multiphase Electrical Machines”, *Proceedings of IEEE EUROCON 2019* -18th International Conference on Smart Technologies, 1-4 July 2019, Novi Sad, Serbia, DOI: 10.1109/EUROCON.2019.8861728; lucrari ISI Sectiunea A a raportului)
- [21] **N. Herişanu, V. Marinca** “Optimal homotopy asymptotic method in the study of energy harvesting problems” AIP Conference Proceedings, vol. 2116, 300002, (2019).
- [22] **V. Marinca, N. Herişanu**:”Optimal homotopy asymptotic method for polytrophic spheres of the Lane-Emden type equation AIP Conference Proceedings, vol. 2116, 300003, (2019)”

- [23] **G. Madescu**, M. Greconici, M. Mot, M. Biriescu, V. Mladenović, “Analysis of Stator and Rotor Windings of Induction Motors”, International Maritime Science Conference IMSC-2019, 11-12 april 2019, Budva, Montenegro, *Book of Proceedings*, Kotor, pp. 79-90, ISBN 978-86-80031-64-4.
- [24] M. Greconici, **G. Madescu**, M. Moț, D. Milosevici, M. Biriescu, “Influence of Rotor Structure on Cogging Torque in Surface-Mounted PM-Generator”, International Conference on Applied Electromagnetics - PES 2019. August 26 – 28, 2019, Niš, Serbia, ISBN 978-86-6125-211-2;
- [25] Ciprian Ionut Zub, Aurel Stratan, and **Dan Dubina**, Modelling the cyclic response of structural steel for FEM analyses, ICCMAE 2018 ITM Web of Conferences 29, 02011, EDP Sciences, 2019, <https://doi.org/10.1051/itmconf/20192902011>.
- [26] Dominiq Jakab, Aurel Stratan, **Dan Dubina**, Numerical testing of steel beam-to-column bolted extended end-plate connection with haunches, ITM Web of Conferences 29, 02008, EDP Sciences, 2019, <https://doi.org/10.1051/itmconf/20192902008>.
- [27] Hradil P., **Ungureanu V.**, Fulop L. (2019): Reusability of components from single-storey steel-framed buildings, Steel Construction-Design and Research, Volume 12, Issue 2, 91-97, DOI: 10.1002/stco.201800032
- [28] Vares S., Hradil P., Pulakka S., **Ungureanu V.**, Sansom M. (2019): Environmental- and life cycle cost impact of reused steel structures: A case study. *Life-Cycle Analysis and Assessment in Civil Engineering: Towards an Integrated Vision – Caspeele, Taerwe & Frangopol (Eds)*, Taylor & Francis Group, London, ISBN 978-1-138-62633-1, pp. 433 + pp. 2443-2449.
- [29] Hradil P., Fülöp L., **Ungureanu V.** (2019): Assessment of reusability of components from single-storey steel buildings. *Life-Cycle Analysis and Assessment in Civil Engineering: Towards an Integrated Vision – Caspeele, Taerwe & Frangopol (Eds)*, Taylor & Francis Group, London, ISBN 978-1-138-62633-1, pp. 434 + pp. 2451-2457.
- [30] Muntean D.M., **Ungureanu V.** (2019): 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)*, Taylor & Francis Group, London, ISBN 978-1-138-62633-1, pp. 539 + pp. 3045-3050.
- [31] **M. Georgescu, V. Ungureanu**, A. Gruin, A. Floricel: Building Cladding using Liner Trays: Experimental and Numerical Approach. WMCAUS 2019, IOP Conf. Series: Materials Science and Engineering 603 (2019) 022051, IOP Publishing, doi:10.1088/1757-899X/603/2/022051.
- [32] Ł. Borkowski, **D. Dubina**, J. Grudziecki, A. Karmazyn, M. Kotelko, **V. Ungureanu**: Buckling and ultimate loads of TWCFS open-section members under eccentric compression. Proceedings of the 15th Stability of Structures Symposium, Book Series: AIP Conference Proceedings, Volume: 2060, Article Number: 020002, Published: 2019.

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

- [1] **Ungureanu V.**, Kotelko M., **Dubina D.** (2018): Ultimate limit capacity of thin-walled cold-formed steel members. Romanian Journal of Technical Sciences - Applied Mechanics, Vol. 63, No. 3, pp. 183–206.
- [2] Ioan Marginean, **Florea Dinu**, Jana Šlancarová, Radim Mach, Influence of modeling criteria on the response of steel frame structures to column removal, Issue No. 2, Volume 64, Number 2, 2019, May - August 2019, pp. 11-122.
- [3] **Dan Dubina, Florea Dinu**, Calin Neagu, Evaluarea solutiei tehnice si a sigurantei în exploatare a structurii acoperisului intermediar al Pietei Badea Cârțan din Timisoara, AICPS Review - 1-2/2019, ISSN 2067-4546, pp. 44-52.
- [4] **Dan Dubina**, Ioan Marginean, **Florea Dinu**, Evaluarea rezistentei la colaps progresiv a sistemelor de rafturi metalice în urma unui impact accidental, AICPS Review - 1-2/2019, ISSN 2067-4546, pp. 84-93.
- [5] **Florea Dinu**, Ioan Marginean, **Dan Dubina**: Evaluarea rezistentei la colaps progresiv a sistemelor de rafturi metalice, în urma unui impact accidental, Revista construcții, nr. 161, august 2019, pp. 60-20-22; 24-25.
- [6] Elena Metes, **Daniel Grecea**, Edward Petzek: Solutii eficiente pentru poduri compuse otel-beton în România, Revista construcții, nr. 162, septembrie 2019, pp. 53-57.
- [7] **Viorel Ungureanu**, Ioan Both, Călin Neagu, Mircea Burcă, **Dan Dubina**, Antonio A. Cristian: Grinzi compuse din profile formate la rece cu goluri în inimă. Revista construcții, nr. 164, noiembrie 2019, pp. 60-65.

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

- [1] R. A. Szakal, A. I. Bosioc, S. Muntean, **D. Susan-Resiga, L. Vékás**, *Experimental Investigations of a Magneto-Rheological Brake Embedded in a Swirl Generator Apparatus*, In: Silva L. (eds) Materials Design and Applications II. Advanced Structured Materials, vol 98. Springer, Cham, 2019, pp. 265-279, [https://doi.org/10.1007/978-3-030-02257-0\\_20-indexata BDI](https://doi.org/10.1007/978-3-030-02257-0_20-indexata%20BDI) (Google Scholar), Print ISBN978-3-030-02256-3, Online ISBN978-3-030-02257-0.
- [2] Bosioc A.I., Ardelean T., Szakal R., **Muntean S.**, Borbath I., **Vékás L.** (2019) *Experimental Investigations of a MR Clutch for a Centrifugal Pump*. In: Silva L. (ed) Materials Design and Applications II. Advanced Structured Materials, vol 98. Springer, Cham, pp. 253-263(2019). DOI: [https://doi.org/10.1007/978-3-030-02257-0\\_19](https://doi.org/10.1007/978-3-030-02257-0_19); [https://link.springer.com/chapter/10.1007/978-3-030-02257-0\\_19#citeas](https://link.springer.com/chapter/10.1007/978-3-030-02257-0_19#citeas).
- [3] V.E. Ambrus, **V. Sofonea**, *Quadrature-Based Lattice Boltzmann Models for Rarefied Gas Flow*, F. Toschi, M. Sega (Editors), *Flowing Matter*, chapter 9 (pages 271 – 299), Springer Open, 2019 disponibilă online: <https://link.springer.com/book/10.1007%2F978-3-030-23370-9>.
- [4] Raffaele Landolfo, Mario D’Aniello ,Silvia Costanzo, Roberto Tartaglia, Jean-François Demonceau, Jean-Pierre Jaspard, Aurel Stratan, Dominiq Jakab, **Dan Dubina**, Ahmed Elghazouli. Dan Bompa, Equaljoints PLUS Volume with information

brochures for 4 seismically qualified joints , 1st Ed., 2018, ECCS – European Convention for Constructional Steelwork, Printed in Macasi Artes Graficas, Coimbra, Portugal ISBN: 978-92-9147-143-0, 116 pag. – publicat in dec. 2018.

- [5] Raffaele Landolfo, Mario D'Aniello ,Silvia Costanzo, Roberto Tartaglia, Jean-François Demonceau, Jean-Pierre Jaspert, Aurel Stratan, Dominiq Jakab, **Dan Dubina**, Ahmed Elghazouli. Dan Bompá, Equaljoints PLUS Volume with pre-normative design recommendations for seismically qualified steel joints, 1st Ed., 2018, ECCS – European Convention for Constructional Steelwork, Printed in Macasi Artes Graficas, Coimbra, Portugal, ISBN: 978-92-9147-144-7, 52 pag., dec. 2018.

#### E. Carti publicate in EAR.

#### F. Carti publicate in tara.

- [1] Totorean A.F., **Bernad S.I.**, Totorean C.I., Metode numerice aplicate in investigarea sistemului cardiovascular. Hemodinamica bypass-ului aortocoronarian. Editura Politehica, 2019, ISBN: 978-606-35-0282-8, pp: 149.

#### G. Citări ISI ale lucrărilor anterioare, în 2019 (fara autocitari): ) : \_\_\_ (din care citari ISI 424 + 448 + 108 = **980** si citari non-ISI 8)

(in fisier separat)

#### H. Conferinte.

- [1] **L. Vékás**, Magnetically controllable fluids-tuning the composition, colloidal stability, magnetic and flow properties to the requirements of applications, keynote lecture, Chemistry, Physics and Biology of Colloids and Interfaces, June 2-6, 2019, Eger, Hungary
- [2] **L. Vékás**, From high colloidal stability ferrofluids to magnetorheological suspensions-tuning the properties by composition, invited lecture, International Conference on Magnetic Fluids – ICMF, July 8-12, 2019 Paris; <https://www.youtube.com/watch?v=I92ciD6AqW8&feature=youtu.be>
- [3] Daniela Susan-Resiga, V. Socoliuc, A. Bunge, Rodica Turcu, **L. Vekas**, Ferrofluids and ferrofluid based magnetorheological fluids: tuning the flow behavior by micron-size Fe particles and magnetite nanoclusters (prez oral), Trends in Nanotechnology (TNT), San Sebastian, Spain, 30 September-4 October 2019
- [4] Rodica Turcu, Izabell Craciunescu, A. Nan, A. Bunge, V. Socoliuc, **L. Vekas**: „Magnetoresponsive nanosystems with controlled morphology and surface functionalization”, Trends in Nanotechnology International Conference (TNT2019), 30Sept-4Oct 2019, San Sebastian, Spain (oral);
- [5] **Popa, NC**, Vékás, LN, Crainic, N, Stoian, Floriana Daniela, Holotescu, S., *Gravitational Electrical Generator. Structural Investigation of the Used Magnetic Nano-Fluids*, **7<sup>th</sup> Eur. Conf. Ren. Energy Sys. ECRES 2019**, 10-12 June 2019, Madrid, Spain. (lucrare aparuta in vol. de rezumate si prezentata ca poster de N. C. Popa)
- [6] Maria I. Barros, Maria João Rodrigues, Guilherme Melo, Nicolae Crainic, Ladislau Vekas, Raquel Santos, Nuno Correia, Paulo Nóvoa, **Nicolae C. Popa**, and António T. Marques, *Nanomagnetic advanced composite systems*, **Workshop: Magnetic nanoparticles, magnetoresponsive nanocomposites and magnetically controllable fluids: synthesis, characterization and applications** (lucrare aparuta in vol. de rezumate si expusa oral de Prof. António T. Marques), Timisoara, Romania, 19-20 September 2019.
- [7] V.E. Ambrus , **V. Sofonea**, *Mixed quadrature Lattice Boltzmann models for the simulation of rarefied channel flows* 9th International Congress on Industrial and Applied Mathematics, July 15 – 19, 2019, Valencia, Spain (comunicare prezentata de V.E.Ambrus)
- [8] Moyano, Amanda; Salvador, Maria; Martínez-García, José C.; **Socoliuc, Vlad ; Vékás, Ladislau ;** Peddis, Davide ; Fernández, María ; Blanco, María C. ; Rivas, Montserrat: “Using Superparamagnetic Nanoclusters for Rapid Bioanalysis in Red Wine”, 2019 Joint MMM-Intermag Conference, January 14-18, 2019, Washington DC, USA (**oral**);
- [9] D. Lazič, I. Malaescu, O. M. Bunoiu, **V. Socoliuc**, C.N. Marin: „Investigation of therapeutic-like irradiation effect on magnetic hyperthermia characteristics of water based ferrofluids”, 15<sup>th</sup> International Conference on Magnetic Fluids – ICMF 2019, July 8-12, 2019, Paris, France (**poster**);
- [10] Anatolii Nagorny, Viktor Petrenko, Rodica Turcu, Oleksandr Ivankov, Vlad Socoliuc, Alexander Bunge, Leonid Bulavin, Mikhail Avdeev, **Ladislau Vekas**: “Detailed structural investigation of magnetoresponsive magnetic fluids and nanocomposites by small-angle neutron scattering data”, 15<sup>th</sup> International Conference on Magnetic Fluids – ICMF 2019, July 8-12, 2019, Paris, France (**poster**);
- [11] **Vlad M. Socoliuc**, Rodica P. Turcu: “Large scale aggregation in magnetic colloids induced by high frequency magnetic fields”, 15<sup>th</sup> International Conference on Magnetic Fluids – ICMF 2019, July 8-12, 2019, Paris, France (**poster**);
- [12] A Bunge, T Radu, G Borodi, V Socoliuc, A S Porav, R Turcu: “Influence of reaction parameters on the properties of Zn<sub>x</sub>Mn(1-x)Fe<sub>2</sub>O<sub>4</sub>-nanoparticles synthesized by co-precipitation reaction”, 12<sup>th</sup> International Conference on Processes in Isotopes and Molecules (PIM2019), 25 - 27 September 2019, Cluj-Napoca, Romania (**poster**);

- [13] D Buteica, I Borbath, I V Nicolae, R P Turcu, O Marinica, **V Socoliuc**: “Security paper with embedded magnetic nanoparticles”, 12<sup>th</sup> International Conference on Processes in Isotopes and Molecules (PIM2019), 25 - 27 September 2019, Cluj-Napoca, Romania (**oral**);
- [14] A.V. Racu, V. Socoliuc “INVESTIGATION OF OPTICAL AND MAGNETIC PROPERTIES OF YFeO<sub>3</sub> AND YFeO<sub>3</sub>:Er”, TIM 19 Physics Conference 29 - 31 May 2019, Timisoara, Romania (**poster**);
- [15] **Corina Vasilescu**, Alexandrina Nan, Circu Monica, Izabell Craciunescu, Rodica Turcu, Anamaria Todea, Cristina Paul, Francisc Peter, *Tailored magnetic nanoparticle supports for efficient immobilization of enzymes*, WORKSHOP Magnetic nanoparticles, magneto-responsive nanocomposites and magnetically controllable fluids: synthesis, characterization and applications, 19-20 septembrie 2019, Timișoara, România
- [16] **L. Vekas**, From high colloidal stability ferrofluids to nano- micro composite magnetorheological suspensions-tuning the properties to the requirements of applications (invited); Seminarul Național de Nanoștiință și Nanotehnologie (SNN), Ediția a 18-a, ICMPP, Iasi (Romania) 24-25 October 2019
- [17] **I. Boldea, L.N. Tutelea** ; X. Xiao; **I. Torac**; W. Xu, “Modified H-LSM for urban MAGLEVs”, 2019 12th International Symposium on Linear Drives for Industry Applications (LDIA 2019), Neuchâtel, Switzerland, July 1-3, 2019
- [18] **I. Boldea, L. Tutelea, I. Torac**, F. Marignetti “10MW, “10rpm, 10Hz, directly-driven cage rotor induction generator (CRIG): preliminary design with key FEM validations”, Joint International Conference **Aegean Conference on Electrical Machines and Power Electronics and Optimization of Electrical & Electronic Equipment Conference** Istanbul, Turkey, 27-29 August 2019
- [19] L.-D Vitan, **L Tutelea, N Muntean, I Boldea**, “Sensorless Synchronous Reluctance Generator Control Based on q Axis Estimated Current”, Joint International Conference **Aegean Conference on Electrical Machines and Power Electronics and Optimization of Electrical & Electronic Equipment Conference** Istanbul, Turkey, 27-29 August 2019
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