

TABEL  
cu rezultatele institutelor Academiei Romane in anul 2020  
(in completare pt. „Anexa 2”)

A. Articole publicate in reviste cotate ISI din străinătate.

- [1] **Socoliuc V.**, Peddis D., Petrenko V.I., Avdeev M.V., **Susan-Resiga D.**, Szabó T., Turcu R., Tombácz E. and **Vékás L.**, *Magnetic Nanoparticle Systems for Nanomedicine—A Materials Science Perspective*, Magnetochemistry 2020, **6** (1), 2 (36 pg); FI: 1.947, doi:10.3390/magnetochemistry6010002. (**Q2**)
- [2] A.V. Nagorny, **V. Socoliuc**, V.I. Petrenko, L. Almasy, O.I. Ivankov, M.V. Avdeev, L.A. Bulavin, **L. Vekas**, *Structural characterization of concentrated aqueous ferrofluids*, J.Magn.Magn.Mater., **501**,166445(2020); FI=2.717 (**Q2**)
- [3] S. Karagiorgis, A. Tsamis, C. Voutouri, R. Turcu, S.A. Porav, **V. Socoliuc**, **L. Vekas**, M. Louca, T. Stylianopoulos, V. Vavourakis, T. Krasia-Christoforou, *Engineered magnetoactive collagen hydrogels with tunable and predictable mechanical response*, Materials Science and Engineering: C, **114**, 111089(2020); FI=5.880 (**Q1**)
- [4] Thomas Vangijzegem, Dimitri Stanicki, Adriano Panepinto, **Vlad Socoliuc**, **Ladislau Vekas**, Robert N. Muller, Sophie Laurent, *Influence of Experimental Parameters of a Continuous Flow Process on the Properties of very Small Iron Oxide Nanoparticles (VSION) Designed for T1-weighted Magnetic Resonance Imaging (MRI)*, Nanomaterials, **10**, 757 (2020)(17pp); doi:10.3390/nano10040757; FI=4.324 (**Q2**)
- [5] **Sandor I. Bernad**, Izabell Craciunescu, Gurpreet S. Sandhu, Dan Dragomir-Daescu, Etelka Tombacz, **Ladislau Vekas**, Rodica Turcu, *Fluid targeted delivery of functionalized magnetoresponsive nanocomposite particles to a ferromagnetic stent*, Journal of Magnetism and Magnetic Materials, **519**, (2020) https://doi.org/10.1016/j.jmmm.2020.167489 (FI=2.717, **Q2**).
- [6] Theodora Krasia-Christoforou, **V. Socoliuc**, K.D. Knudsen, Etelka Tombácz, Rodica Turcu, **L. Vékás**, *From Single-Core Nanoparticles in Ferrofluids to Multi-Core Magnetic Nanocomposites: Assembly Strategies, Structure, and Magnetic Behavior*, Nanomaterials, **10**, 2178(2020)(67 pg); FI=4.324 (**Q2**)
- [7] S. Busuioc, V.E. Ambrus, T. Biciusca, **V. Sofonea**, *Two-dimensional off-lattice Boltzmann model for van der Waals fluids with variable temperature*, Computers & Mathematics with Applications **79** (2020) 111 – 140, DOI https://doi.org/10.1016/j.camwa.2018.12.015 Factor impact (JCR 2019): FI = 3.370, Clasificare UEFISCDI (2020): **Q1**
- [8] V.E.Ambrus, F.Sharipov, **V.Sofonea**, *Comparison of the Shakhov and ellipsoidal models for the Boltzmann equation and DSMC for ab initio – based particle interactions*, Computers & Fluids, 211 (2020) 104637, DOI, https://doi.org/10.1016/j.compfluid.2020.104637 Factor impact (JCR 2019): FI = 2.399, Clasificare UEFISCDI (2020): **Q1**
- [9] Claudia Geanina Farcas, Cristina Dehelean, Iulia Andreea Pinzaru, Marius Mioc, **Vlad Socoliuc**, Elena-Alina Moaca, Stefana Avram, Roxana Ghiulai, Dorina Coricovac, Ioana Pavel, Praveen Kumar Alla, Octavian Marius Cretu, Codruta Soica, Felicia Loghin: *“Thermosensitive Betulinic Acid-Loaded Magnetoliposomes: A Promising Antitumor Potential for Highly Aggressive Human Breast Adenocarcinoma Cells Under Hyperthermic Conditions”*, International Journal of Nanomedicine 15 (2020) 8175-8200; http://doi.org/10.2147/IJN.S269630; FI=5.115 (**Q1**)
- [10] Cristian Zaharia, Virgil-Florin Duma, Cosmin Sinescu, **Vlad Socoliuc**, Izabell Craciunescu, Rodica Paula Turcu, Catalin Nicolae Marin, Anca Tudor, Mihai Rominu and Meda-Lavinia Negrutiu: *“Dental Adhesive Interfaces Reinforced with Magnetic Nanoparticles: Evaluation and Modeling with Micro-CT versus Optical Microscopy”*, Materials 13 (2020) 3908(24pp); doi:10.3390/ma13183908; FI=3.057 (**Q2**)
- [11] D. Lazič, I. Malaescu, O.M. Bunoiu, I. Marin, F.G. Popescu, **V. Socoliuc**, C.N. Marin: *“Investigation of therapeutic-like irradiation effect on magnetic hyperthermia characteristics of a water-based ferrofluid with magnetite particles”*, JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS 502 (2020) 166605(pp.5); DOI 10.1016/j.jmmm.2020.166605; FI=2.717 (**Q2**)
- [12] G. Papaparaskaeva, M. M. Dinev, T. Krasia-Christoforou, R. Turcu, S. A. Porav, F. Balanean and **V. Socoliuc**: *“White Magnetic Paper with Zero Remanence Based on Electrospun Cellulose Microfibers Doped with Iron Oxide Nanoparticles”*, NANOMATERIALS 10 (2020) 517(pp.12); DOI 10.3390/nano10030517; IF=4.324 (**Q2**)
- [13] **V. Socoliuc** and L.B. Popescu: *“Determination of the statistics of magnetically induced particle chains in concentrated ferrofluids”*, JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS 502 (2020) 166532 (pp.4); DOI 10.1016/j.jmmm.2020.166532; FI=2.717 (**Q2**)
- [14] **Socoliuc, V**; Turcu, R: *“Large scale aggregation in magnetic colloids induced by high frequency magnetic fields”*, JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS 500 (2020) 166348(pp.); DOI 10.1016/j.jmmm.2019.166348; FI=2.717.(**Q2**)
- [15] Tănasă C., Bosioc A., **Muntean S.** and **Susan-Resiga R.** (2019) *A novel passive method to control the swirling flow with vortex rope from the conical diffuser of hydraulic turbines with fixed blades*, Applied Sciences **9**(22), 4910. (aparuta in decembrie 2019), (FI=2.474 **Q2**), WOS:000502570800187.
- [16] Stratan A., Zub C.I., **Dubina D.**, Prequalification of a set of buckling restrained braces: Part I - experimental tests, Steel and Composite Structures, Volume: 34 Issue: 4 Pages: 547-559, DOI: 10.12989/scs.2020.34.4.547 [**Q1, IF 4.394**].
- [17] Stratan A., Zub C.I., **Dubina D.**, Prequalification of a set of buckling restrained braces: Part II - numerical simulations, Steel and Composite Structures, Volume: 34 Issue: 4 Pages: 561-580, DOI: 10.12989/scs.2020.34.4.561 [**Q1, IF 4.394**].

- [18] **N. Herișanu, V. Marinca:** *An Efficient Analytical Approach to Investigate the Dynamics of a Misaligned Multirotor System*. MATHEMATICS Vol. 8 (7), Article Number 1083 (2020), IF= 1,747 (Q1)
- [19] **V. Marinca, N. Herișanu:** *Optimal Auxiliary Functions Method for a Pendulum Wrapping on Two Cylinders*. MATHEMATICS Vol. 8 (8), Article Number 1364 (2020), IF= 1,747 (Q1)
- [20] **V. Marinca, N. Herișanu:** *Construction of Analytic Solution to Axisymmetric Flow and Heat Transfer on a Moving Cylinder*. SYMMETRY, ISSN: 2073-8994, Vol. 12(8), Article Number 1335 (2020), IF=2,645 (Q2)

#### B. Articole publicate in reviste cotate ISI din Romania.

- [21] Sida Manea A., **Muntean S.**, and Stroiță D.C., (2020) *Analytical approach and numerical methodology validated against experimental data on S shape airfoil for wide flow angles of attack*, Proceedings of the Romanian Academy Series A Mathematics, Physics, Technical Sciences, Information Science, **21**(2) pp. 163-172. (FI=1.294 Q3), WOS:000545333700009

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

- [1] **Dubina D., Dinu F.**, Stratan A., High-strength steel and dissipative fuse solutions for seismic-resistant building structures, Steel Construction-Design and Research, Volume: 13, Issue: 3, Pages: 154-164, DOI: 10.1002/stco.202000028, Published: AUG 2020 (indexata ISI)
- [2] **Bernad I. Sandor**, Moza Andreea, Bernad Elena, *Hyper-Coiled Umbilical Cord Numerical Investigation*, PROCEEDINGS OF SOGR 2018: THE 17TH NATIONAL CONGRESS OF THE ROMANIAN SOCIETY OF OBSTETRICS AND GYNECOLOGY & FIRST ADVANCED COLPOSCOPY COURSE, Published 2019, pp: 111-115, ISBN:978-88-85813-33-5, WOS:000531013600020.
- [3] **Bernad I. Sandor**, Moza Andreea, Bernad Elena, *Placenta Perfusion Under Pathologic Condition*, PROCEEDINGS OF SOGR 2018: THE 17TH NATIONAL CONGRESS OF THE ROMANIAN SOCIETY OF OBSTETRICS AND GYNECOLOGY & FIRST ADVANCED COLPOSCOPY COURSE, pp: 116-120, Published: 2019, ISBN:978-88-85813-33-5, WOS:000531013600021.
- [4] **N. Herișanu, V. Marinca:** *An approximate analytical solution of transversal oscillations with quintic nonlinearities*. Springer Proceedings in Physics, ISBN 978-3-030-54135-4, vol.251, pp. 41-50, 2020
- [5] **V. Marinca, N. Herișanu:** *Optimal Auxiliary Functions Method for Nonlinear Vibration of Doubly Clamped Nanobeam Incorporating the Casimir Force*. Springer Proceedings in Physics, ISBN 978-3-030-54135-4, vol.251, pp. 51-58, 2020
- [6] **I. Boldea, L.N. Tutulea, I. Torac,** "10MW, 10rpm, 15Hz directly-driven reluctance synchronous generator system: preliminary design with key FEM validations", record of International Conference on Electrical Machines ICEM 2020, 23-26 august - <https://icem2020.se/>
- [7] D. Hulea, M. Gireada, D. Vitan, O. Cornea, **N. Muntean** - "An Improved Bidirectional Hybrid Switched Inductor Converter", The 22<sup>nd</sup> European Conference on Power Electronics and Applications EPE'20 ECCE Europe - septembrie 2020, Lyon, Franta- <https://epe-ecce-conferences.com/epe2020/>
- [8] **N. Muntean** et all, "Low Cost Implementation of a Wind Turbine Emulator", EEEIC 2020 (International Conference on Environment and Electrical Engineering) <https://www.eeeic.net/eeeic/>
- [9] Ghe. Madescu, M. Biriescu, M. Mot, **L.-N. Tutulea** "Investigation of Rotor Current Spectrum signature in the Healthy and Faulty Cage of a Dedicated Induction Motors in Load Conditions", record of International Conference on Electrical Machines ICEM 2020, 23-26 august - <https://icem2020.se/>
- [10] A. D. Martin, **L. N. Tutulea, I. Boldea:** „Twin induction machines artificial loading without mechanical coupling”, record of International Conference on Electrical Machines ICEM 2020, 23-26 august , - <https://icem2020.se/>

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

- [1] **Susan-Resiga D**, Barvinschi P., *Nano-microstructured magnetorheological fluids and engineering applications*, Ro. J. Techn. Sci. – Appl. Mechanics, Vol. 65, N° 2, P. 87–121, Bucharest, 2020.
- [2] Adrian Ciutina, Raluca Buzatu, Daniel M. Muntean, **Viorel Ungureanu:** Sisteme moderne de fațade metalice - Analize termice și de impact asupra mediului. Revista construcțiilor, nr. 166, ianuarie-februarie 2020, pp. 36 - 38, 40, 42, 43.
- [3] **Viorel Ungureanu**, Ivan Lukacevic, Ioan Both, Mircea Burcă, **Dan Dubină:** Studii numerice pe grinzi compuse realizate din bare cu pereți subțiri formate la rece și inimă din tablă cutată asamblate cu sudură. Revista construcțiilor, nr. 167, martie 2020, pp. 16 - 18, 20, 21.
- [4] Adriana Chesoan, Aurel Stratan, Dominiq Jakab, **Dan Dubină:** Modelarea îmbinărilor grindă-stâlp pentru analiza seismică a structurilor metalice. Revista construcțiilor, nr. 169, mai 2020, pp. 30 - 32, 34, 36, 38.
- [5] Mircea Georgescu, **Viorel Ungureanu, Daniel Grecea:** Clădire industrială cu structură metalică dispusă în consolă pe un versant stâncos. Revista construcțiilor, nr. 175, noiembrie 2020, pp. 60-63.
- [6] Adrian Dogariu, **Daniel Grecea:** Aspecte privind dimensionarea structurilor de depozitare alcătuite din tablă ondulată. Revista construcții, nr. 176, decembrie 2020, pp. 20-24.
- [7] **Dubina D., Dinu F., Ungureanu V.**, Keynote Lecture, Using Steel Solutions to Enhance Seismic Resilience of Reinforced Concrete Buildings, Proceedings of the SAFESUST2 - SURECON Workshop, 23-24 October, 2018, JRC Conference and Workshop Report „A Roadmap for a Sustainable Integrated Retrofit of Concrete Buildings” (Ed. Iurio O., Negro P.), JRC119041 PDF, ISBN 978-92-76-23865-2, doi:10.2760/78996, Print ISBN 978-92-76-23864-5, doi:10.2760/35903, Luxembourg: Publications Office of the European Union, 2020, pp. 10-23.

- [8] **Ungureanu V.**, Fülöp L.A., Ciutina A., Botici A.A., **Dubina D.**, Structural and thermal interventions for rehabilitation of precast large concrete panels for residential buildings. Proceedings of the SAFESUST2 - SURECON Workshop, 23-24 October, 2018, JRC Conference and Workshop Report „A Roadmap for a Sustainable Integrated Retrofit of Concrete Buildings” (Ed. Iurio O., Negro P.), JRC119041 PDF, ISBN 978-92-76-23865-2, doi:10.2760/78996, Print ISBN 978-92-76-23864-5, doi:10.2760/35903, Luxembourg: Publications Office of the European Union, 2020, pp. 70-79.
- [9] Fülöp L.A., **Ungureanu V.**, Nagy Zs., Muntean D.M., Opportunities and barriers to the deep rehabilitation of the collective buildings in East Europe. Proceedings of the SAFESUST2 - SURECON Workshop, 23-24 October, 2018, JRC Conference and Workshop Report „A Roadmap for a Sustainable Integrated Retrofit of Concrete Buildings” (Ed. Iurio O., Negro P.), JRC119041 PDF, ISBN 978-92-76-23865-2, doi:10.2760/78996, Print ISBN 978-92-76-23864-5, doi:10.2760/35903, Luxembourg: Publications Office of the European Union, 2020, pp. 114-120.

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

- [1] **Ion Boldea** ”Induction Machines Handbook third edition Steady State Modeling and Performance, CRC Press, Taylor & Francis Group, ISBN 978-0-367-46612-1
- [2] **Ion Boldea** ”Induction Machines Handbook third edition Transients, Control Principles, Design and Testing”, CRC Press, Taylor & Francis Group ISBN 978-0-367-46618-3

#### E. Carti publicate in EAR.

- [1] -

#### F. Carti publicate in tara.

- [1] Acad **I. Boldea** Editor and Coauthor, “Electric Machines: UPT Selected Contributions”: 1920-2020,, Editura Politehnica Timisoara 2020, 463pp ISBN 978-606-35-0356-6
- [2] Cornea O., Hulea D., **Muntean N.** Convertoare hibride de c.c., Editura POLITEHNICA, ISBN 978-606-35-0333-7, 245 pag. (aparuta in dec.2019, dupa raportarea pe 2019)

#### G. Citări ISI ale lucrărilor anterioare, în 2020 si neraportate din 2019 (fara autocitari):

	<b>613+</b>
	<b>159</b>
	<b>233</b>
<b>citari BDI:</b>	<b>38</b>
<b>TOTAL</b>	<b>1043 citari</b>

(in fisier separat)

#### G. Conferinte.

- [1] Nicolae Crainic, Antonio Torres Marques, **Ladislau Vékás**, Nuno Correia, Paulo Novoa, Carlos Pinto Morreira de Sa, Pedro Vieira, **Nicolae Calin Popa**, *The preparation and characterization of the nano / micro magnetizable composites materials, by using the nanomagnetic fluids*, lucrare prezentata la **ICCS23 - 23rd International Conference on Composite Structures & MECHCOMP6 - 6th International Conference on Mechanics of Composites**, University of Porto, Portugal, 1-4 September 2020 (on-line). <https://events.unibo.it/iccs23>
- [2] Morărescu A., Herban S., **Grecea D.**, Grecea C. (2020): Virtual reconstruction of the heritage objects – Recas – by terrestrial laser scanning. Conferința națională tehnico-științifică (cu participare internațională) “Tehnologii Moderne pentru Mileniul III” - a 19-a ediție - Oradea, România, 23 oct 2020.
- [3] Cristian A.A., **Ungureanu V.**: *Numerical Investigation of Built-up Cold-Formed Steel Beams with Web Opening*. The National Technical-Scientific Conference (with international participation) - the 19th edition - „Modern Technologies for the 3rd Millennium”, 23 October 2020, Oradea, Romania, **online conference** (acceptata pentru publicare). The conference’s volume will be **ISI Proceedings** indexed.
- [4] Buzatu R.I., **Ungureanu V.**: Environmental and economic benefits of building with reclaimed elements. The National Technical-Scientific Conference (with international participation) - the 19th edition - „Modern Technologies for the 3rd Millennium”, 23 October 2020, Oradea, Romania, **online conference** (acceptata pentru publicare).
- [5] R. Buzatu, D. Muntean, **V. Ungureanu**, A. Ciutina, M. Gireadă, D. Vitan: *Holistic energy efficient design approach to sustainable building using monitored energy management system*. The 7th Conference of the Sustainable Solutions for Energy and Environment, EENVIRO 2020, 21 - 23 October, Bucharest, Romania, **online conference** (acceptata pentru publicare).
- [6] A. Ciutina, M. Mirea, A. Ciopec, **V. Ungureanu**, R. Buzatu, R. Morovan: Behaviour of wedge foundations under axial compression. The 7th Conference of the Sustainable Solutions for Energy and Environment, EENVIRO 2020, 21 - 23 October, Bucharest, Romania, **online conference** (acceptata pentru publicare).
- [7] Raluca Buzatu, Daniel Muntean, Adrian Ciutina, **Viorel Ungureanu**: *Thermal Performance and Energy Efficiency of Lightweight Steel Buildings: A Case-Study*. The 5th World Multidisciplinary Civil Engineering-Architecture-Urban Planning Symposium WMCAUS 2020, 15-19 June, 2020 – Prague (Czech Republic), **online conference**. (abstract page 299/478 - [http://www.wmcaus.org/files/WMCAUS2020\\_Book.pdf](http://www.wmcaus.org/files/WMCAUS2020_Book.pdf)) (acceptata pentru publicare).

- [8] **Dinu F., Dubina D.,** Ioan Marginean, Constantin Stanciu, Calin Neagu, and Dan Constantinescu, Rehabilitation and extension interventions on a building with concrete shear walls and steel frames structure, 4th International Conference on Protection of Historical Constructions, PROHITECH 2020, 6-8 July 2020, Athens, Greece (reprogramata pentru 5-7 July, 2021, Athens, Greece) (acceptata pentru publicare).
- [9] **Dubina D., Dinu F.,** and Ioan Marginean, Influence of connection properties on the robustness of steel storage racks under forklift truck impact, IX Connections, 9th International Workshop on Connections in Steel Structures, 2-4 June, 2020, Coimbra, Portugal (reprogramat pentru 21 - 23 July, 2021) (acceptata pentru publicare).
- [10] Ioan Marginean, **Dinu F., Dubina D.,** Balanced design of beam-to-column moment connections for steel frame structures subjected to extreme loading conditions, IX Connections, 9th International Workshop on Connections in Steel Structures, 2-4 June, 2020, Coimbra, Portugal (reprogramat pentru 21 - 23 July, 2021) (acceptata pentru publicare).
- [11] **Dan Dubina, Viorel Ungureanu,** Maria Kotelko: *Post-elastic capacity of thin-walled cold-formed steel members*, PAPER ID#:64. Cold-Formed Steel Research Consortium Colloquium, 20-21 October 2020, Johns Hopkins University, **online conference.**
- [12] **Dubina D.,** Apply the high strength steels to enhance the robustness of building frames in seismic areas. The dual steel concept, Second Workshop of High-Performance Steel Structures Research Council- HPSSRC, 12-13 November 2020, Delft, Netherland (in print).
- [13] Ivan Lukačević, **Viorel Ungureanu,** Anđelo Valčić, Ivan Čurković. Numerical study on bending resistance of cold-formed steel back-to-back built-up elements. The 9th European Conference on Steel and Composite Structures. 1-3 September 2021 (acceptata pentru publicare).
- [14] **Viorel Ungureanu,** Ivan Lukačević, Ioan Both. Numerical investigations on built-up cold-formed steel beams for long spans. The 9th European Conference on Steel and Composite Structures. 1-3 September 2021 (acceptata pentru publicare).

#### H. Rapoarte de interes public.

- [1] **N. Herişanu, V. Marinca,** *An effective analytical approach to nonlinear free vibration of elastically actuated microtubes*, MECCANICA, ISSN: 0025-6455, **I.F.: 2,153 (Q2)** (preprint)

#### I. Brevete de inventii.

- [1] Brevet de Inventie OSIM: Nr. 129796 / 30.12.2019; Titular: Institutul de Chimie Macromoleculara "Petru Poni", Iasi, Romania; Titlu: "Metoda pentru reglarea unghiului dintre directia de polarizare a unui fascicul laser si directia vectorului intensitatii unui camp magnetic generat de un electromagnet"; Inventatori: **Socoliuc Vlad-Mircea;**

**Dr. L. Vekas, m.c.al AR,**



**20.XI.2020**

## CENTRUL DE CERCETARI TEHNICE FUNDAMENTALE SI AVANSATE

### LISTA PROIECTE AFLATE IN DERULARE

Nr. crt.	Titlu proiect/acronim	Tip proiect/program	Nr. contract	Perioada derulare	Director proiect din AR (nume+coordonate)	Sursa de finantare	BUGET, lei/EURO					
							Total		Anul 2020		Anul 2021	
							F	CF	F	CF	F	CF
1	Noi directii de dezvoltare si de utilizare a materialelor nanocompozite avansate (AdvanceNano)	Proiecte Complexe realizate în consorții CDI PN-III-P1-1.2 PCCDI - 2017	Nr. 47/2018	2018-2021	Responsabil partener CCTFA: Dr. Ladislau Vékás, m.c. AR	buget	F=380.000 lei		F=130.000 lei		F=22.950 lei	
2	Yield line theory for load-capacity estimation of thin-walled cold-formed steel members under combined loading	Acordului de cooperare științifică dintre Academia Română și Academia Polonă de Științe (PAN)		2019-2021	Responsabil partea romana Acad. Dan Dubina							
3	Structural investigations of ferrofluids in bulk and interfaces by neutron scattering methods	Program IUCN Dubna-Romania 04-4-1121-2015/2020 proiect poz.43		2020	Responsabil proiect CCTFA: Dr. Ladislau Vékás, m.c. AR				4500\$			
4	Sistem de conversie a energiei pentru un autobuz/microbuz electric pentru	PN-III-P2-2.1-PED-2019-5230, ctr. 307PED2020		2020 - 2022	Director proiect CCTFA: Prof.dr.ing. Nicolae Muntean	buget	F=599.900 lei		F=199.000 lei CCTFA: 138600 lei		F=300.256 lei CCTFA: 207256 lei	

transport urban, cu stocare in supercondensatoare si actionare electrica cu densitate foarte mare de putere (ECOBUS)									
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F=finantare 100%  
CF=cofinantare

### LISTA PROPUNERI DE PROIECTE DEPUSE IN ANUL 2020

Tip program	Cod apel	Titlu proiect	Director/responsabil proiect	Coordonator/Parteneri	Buget Total/Institutie	Stadiul propunerii Accepta/respins/in evaluare
COST Action	Open Call Collection OC-2020-1	Title: Pan-European network for a sustainable, digitalised hydropower contributing to the energy transition Acronym: PEN@Hydro Proposal Reference OC-2020-1-24652	Director proiect: Dr. Eduard Doujak, Technical University Wien, Austria	Responsabil partener ARFT-CCTFA: Dr.ing. Sebastian Muntean		In evaluare