

Raport de autoevaluare pentru anul 2021

1. Date de identificare institut/centru

- 1.1. Denumire: *Institutul de Geodinamică "Sabba S.Ștefănescu" al Academiei Române*
- 1.2. Statut juridic: personalitate juridică
- 1.3. Act de înființare: HG 364/1990, HG 89/2019
- 1.4. Număr de înregistrare în Registrul Potențialilor Contractorilor: 346
- 1.5. Director general/Director: Dr.Crișan Demetrescu, membru corespondent al Academiei Române
- 1.6. Adresă: Str. Jean Louis Calderon nr.19-23, sector 2, București, cod poștal 020032
- 1.7. Telefon, fax, pagină web, e-mail: 317 21 26, 317 21 27, fax: 317 21 20, pagina web: www.geodin.ro, e-mail: inst_geodin@geodin.ro, crisan@geodin.ro

2. Domeniu de specialitate

- 2.1. Conform clasificării UNESCO: 2504, 2506, 2507, 2509, 2503, 2599
- 2.2. Conform clasificării CAEN: 7219

3. Stare institut/centru

3.1. Misiunea institutului/centrului, direcțiile de cercetare, dezvoltare, inovare. Rezultate de excelență în îndeplinirea misiunii (maximum 2000 de caractere):

Cercetări fundamentale impuse de rezolvarea Programului prioritar al Academiei Române: **"Cercetări geofizice complexe în zone geodinamic active, cu privire specială asupra zonei seismogene Vrancea"** și, în mod particular, asupra:

- studiului variațiilor spațio-temporale ale unor parametri legați cauzal de cumulara tensiunilor responsabile de producerea cutremurelor de pământ;
- studiilor de hazard natural (tectonic, seismic, alunecări de teren etc);
- monitorizării variațiilor spațio-temporale ale câmpurilor gravific, geomagnetic, electromagnetic, geoelectric și ale deformărilor crustei terestre;
- modelării structurii și evoluției termo-mecanice a litosferei;
- analizei neliniare a sistemelor geodinamice;
- studiului proceselor endogene în conexiune cu procesele geodinamice;
- studiului câmpului geomagnetic în relație cu procese fizice din heliosferă;
- studiului geofizic complex în zone devenite geodinamic active datorită activității antropice

3.2. Modul de valorificare a rezultatelor de cercetare, dezvoltare, inovare și gradul de recunoaștere a acestora (maximum 1000 de caractere)¹:

Rezultatele de cercetare, dezvoltare, inovare au fost valorificate prin:

- articole publicate în reviste de specialitate, recunoașterea conținutului științific fiind reliefată prin numeroasele citări în reviste cotate ISI
- participarea la manifestări științifice internaționale de prestigiu

- participarea la PNCDI, ce a adus Institutului fonduri folosite exclusiv pentru dezvoltarea bazei tehnico-materiale
- participarea la programe internaționale,
- instituție acreditată prin decizia ANCS nr. 9634/14.04.2008 (anexa nr.2)
- indice Hirsch (I.Seghedi – 25, A.Szakacs – 24, P.Luffi – 14, C. Demetrescu – 11, V.Dobrică – 8, D.Stănică – 8)

3.3. Situația financiară - datorii la bugetul de stat: Nu există datorii la bugetul de stat

3.4. Numărul personalului de cercetare (CS - CS I):

	2021
CS I	7
CS II	3
CS III	10
CS	13

3.5. Numărul total al personalului:

	2021
Nr. posturi aprobate	82

4. Criterii de performanță în cercetarea științifică (toate criteriile analizează numai perioada de evaluare) (40%)

Nr. crt.	Criteriu	n	Punctaj unitar	Punctaj acordat
1.	Participarea la un program fundamental sau prioritar al Academiei Române și realizarea obiectivelor sale.			
	Programul prioritar al Academiei Române " Cercetări geofizice complexe în zone geodinamic active, cu privire specială asupra zonei seismogene Vrancea ", conducător: Dorel Zugrăvescu, membru corespondent al Academiei Române	1	25	25
2.	Un tratat apărut într-o editură consacrată din străinătate ²		$25 \times (N_{ic}/N_a)$	0
3.	O carte apărută într-o editură consacrată din străinătate ²		$20 \times (N_{ic}/N_a)$	0
4.	O monografie apărută într-o editură consacrată din străinătate ²		$15 \times (N_{ic}/N_a)$	0
5.	O carte editată într-o editură consacrată din străinătate ²		$10 \times (N_{ic}/N_a)$	0
6.	Un tratat editat într-o editură consacrată din străinătate ² Lithos-Elsevier		$13 \times (N_{ic}/N_a)$	0
7.	O monografie editată într-o editură consacrată din străinătate ²		$8 \times (N_{ic}/N_a)$	0
8.	Un tratat apărut în Editura Academiei Române		$13 \times (N_{ic}/N_a)$	0
9.	O carte apărută în Editura Academiei Române		$10 \times (N_{ic}/N_a)$	0
10.	O monografie apărută în Editura Academiei Române		$8 \times (N_{ic}/N_a)$	0
11.	Un tratat editat în Editura Academiei Române		$7 \times (N_{ic}/N_a)$	0
12.	O carte editată în Editura Academiei Române		$5 \times (N_{ic}/N_a)$	0
13.	O monografie editată în Editura Academiei Române		$3 \times (N_{ic}/N_a)$	0

Nr. crt.	Criteriu	n	Punctaj unitar	Punctaj acordat
14.	Un articol publicat într-o revistă cotate de <i>Web of Science</i> (Thomson Reuters) Vezi Anexa 1	21	$(1 + FI) \times (N_{ic}/N_a)^4$	39,329
15.	O lucrare prezentată la o manifestare științifică internațională, publicată integral într-o revistă cotate de <i>Web of Science</i> (Thomson Reuters) Vezi Anexa 2.1	1	$(1 + FI) \times (N_{ic}/N_a)^4$	3,524
16.	O lucrare prezentată la o manifestare științifică internațională, publicată integral într-un volum editat într-o editură consacrată din străinătate, inclusiv electronic (<i>Conference Proceedings Citation Index-Science</i> , <i>Web of Science</i> , Thomson Reuters) ² Vezi Anexa 2.2	0	$2 \times (N_{ic}/N_a)$	0
17.	Un capitol într-un tratat, carte sau monografie editate într-o editură consacrată din străinătate ²	0	$13 \times (N_{ic}/N_a) \times (N_p/N_{tp})$	0
18.	Un capitol într-un tratat, carte sau monografie editate în Editura Academiei Române Vezi Anexa 3	4	$7 \times (N_{ic}/N_a) \times (N_p/N_{tp})$	1,88
19.	Număr de citări conform <i>Web of Science</i> (Thomson Reuters) Vezi Anexa 4	607	0,5	303,5
20.	Factor de impact cumulat conform <i>Web of Science</i> (Thomson Reuters) ³	-	$FI \times (N_{ic}/N_a)$	
21.	O carte apărută într-o editură consacrată din țară ⁷	0	$7 \times (N_{ic}/N_a)$	0
22.	O carte editată într-o editură consacrată din țară – Editura Academiei Române Vezi Anexa 3 ⁷	2	$3 \times (N_{ic}/N_a)$	4
23.	Un articol apărut într-o revistă recunoscută de CNCS (B+) sau indexată într-o bază internațională de date (BDI) Vezi Anexa 5	5	$1 \times (N_{ic}/N_a)$	4,4
24.	O conferință invitată/plenară/keynote prezentată la o manifestare științifică internațională	0	10	0
25.	O conferință invitată/plenară/keynote prezentată la o manifestare științifică națională	0	5	0
26.	O comunicare orală prezentată la o manifestare științifică internațională Vezi Anexa 6	23	$5 \times (N_{ic}/N_a)$	77,5
27.	O comunicare orală prezentată la o manifestare științifică națională	0	$2 \times (N_{ic}/N_a)$	0
Punctaj total criterii de performanță în cercetarea științifică				459,433

² Se vor lua în considerare următoarele edituri străine: Academic Press, Appleton & Lange, Birkhauser, Blackwell, Cambridge University Press, CRC Press, Elsevier, Garland Publishing, Kluwer Academic Publishers, McGraw-Hill, Mosby, Nova Science Publishers, Oxford University Press, QMP, Springer Verlag, Thieme, Willey-Liss, Williams and Wilkins, World Scientific Publishing, alte edituri străine de aceeași anvergură.

³ Pentru fiecare articol se va lua în calcul factorul de impact (FI) al revistei împărțit la numărul total de autori (N_a) și înmulțit cu numărul de autori din institutul/centrul evaluat (N_{ic}). Factorul de impact este publicat anual de *Web of Knowledge*, *Journal Citation Report* (Thomson Reuters), iar pentru calcul se va utiliza valoarea corespunzătoare anului apariției articolului.

⁴ Pentru revistele din domeniile: Botanică, Zoologie, Ecologie, Agronomie etc., al căror FI este $\leq 2,0$ punctajul total se înmulțește cu 1,5.

⁵ Punctajul total va fi suma punctajelor unitare rezultate prin calcul.

⁶ Pentru domeniul Științe Agricole produsele sunt soiuri noi de plante, hibrizi etc., iar punctajul unitar va fi 30.

n = număr programe, tratate, cărți, monografii, lucrări, citări etc.; FI = factor de impact; N_{ic} = număr autori din institut/centru; N_a = număr total de autori; N_p = număr pagini capitol; N_{tp} = număr total de pagini volum.

⁷ Se vor lua în considerare cărțile științifice de autor ce apar în evidența Bibliotecii Naționale.

n = număr programe, tratate, cărți, monografii, lucrări, citări etc.; FI = factor de impact; N_{ic} = număr autori din institut/centru; N_a = număr total de autori; N_p = număr pagini capitol; N_{tp} = număr total de pagini volum.

5. Capacitatea de a atrage fonduri de cercetare (20%)

Nr. crt.	Criteriu	n	Punctaj unitar	Punctaj acordat
1.	Un grant câștigat de către institut/centru de la organizații internaționale Vezi Anexa 8	5000 - 10000 EUR	2	0
		10001 - 50000 EUR	4	
		50001 - 200000 EUR	6	
		200001 - 1 000 000 EUR	8	
		peste 1 000 000 EUR	10	
2.	Un grant câștigat de către institut/centru de la organisme naționale	sub 10000 RON	1	
		10001 - 100000 RON	2	
		100001 - 500000 RON	3	
		peste 500000 RON	4	
3.	Un contract extrabugetar obținut de către institut/centru de la organizații internaționale sau naționale	sub 5000 RON	0,5	12
		5001 - 10000 RON	1	
		10001 - 100000 RON	3	
		peste 100000 RON	2	
4.	O manifestare științifică (congres, conferință, simpozion) sau școală de vară internațională organizată de institut		10	
5.	O manifestare științifică (congres, conferință, simpozion) sau școală de vară națională organizată de institut	0	5	0
Punctaj total atragere fonduri de cercetare				12

6. Capacitatea de a dezvolta servicii, tehnologii, produse (10%)

Nr. crt.	Criteriu	n	Punctaj unitar	Punctaj acordat
1.	Un brevet acordat	la nivel internațional	10	20
		la nivel național	5	
2.	Un brevet aplicat	la nivel internațional	20	
		la nivel național	10	
3.	Un brevet citat în <i>Web of Science</i> (Thomson Reuters)		5	
4.	Produse și tehnologii rezultate din activități de cercetare bazate pe omologări sau inovații proprii (produs vândut, sume încasate) ⁶		20	
5.	Un laborator de cercetare-dezvoltare acreditat		20	
6.	Studii de impact și servicii comandate de un beneficiar		5	
Punctaj total dezvoltare servicii s.a.				20

7. Capacitatea de a pregăti superior tineri cercetători (doctorat, post-doctorat) (10%)

Nr. crt.	Criteriu	n	Punctaj unitar	Punctaj acordat
1.	Institutul/centrul are dreptul de a conduce doctorate	1	20	20
2.	Un conducător de doctorat care activează în institut/centru - Dr.Crișan Demetrescu, membru corespondent al Academiei Române - Dr.Ioan Seghedi, CS I - Dr.Marian Munteanu, CS I	3	20	60
3.	Un doctorand (Vezi Anexa 8)	10	10	100
4.	Un post-doctorand	0	10	0
5.	Un cercetător angajat în institut/centru care a obținut titlul de doctor în perioada de evaluare	0	10	0
Punctaj total pregătire tineri cercetători				180

8. Prestigiu științific (toată perioada de activitate) (20%)

Nr. crt.	Criteriu	n	Punctaj unitar	Punctaj acordat
1.	Un membru în colectivul de redacție al unei reviste naționale/internaționale (cotată de <i>Web of Science</i> , Thomson Reuters sau indexată într-o BDI) sau în colectivul editorial al unor edituri internaționale consacrate Vezi Anexa 9	11	20	220
2.	Un membru în conducerea unei organizații internaționale de specialitate	0	20	0
3.	Un membru al Academiei Române Dr. Crișan Demetrescu, membru corespondent al Academiei Române	1	50	50
4.	Un cercetător cu un indice Hirsch peste 8 Vezi Anexa 10	6	20	120
5.	Un membru de onoare (<i>fellow, senior</i>) al unei societăți științifice naționale/internaționale Vezi Anexa 11	1	20	20
6.	Un premiu al Academiei Române Vezi Anexa 11	13	20	260
7.	Un premiu (distincție) al unei societăți științifice naționale obținut printr-un proces de selecție Vezi Anexa 11	10	10	100
	Un premiu (distincție) al unei societăți științifice internaționale obținut printr-un proces de selecție – Vezi Anexa 11	5	40	200
Punctaj total prestigiu științific				970

Punctaj total criterii performanță științifică, atragere de fonduri, performanță dezvoltare, pregătire tineri și prestigiu științific	1641,433
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**Un articol publicat într-o revistă cotate de Web of Science (Thomson Reuters)
în 2021**

- Besliu-Ionescu, D., Mierla, M.**, 2021, Geoeffectiveness Prediction of CMEs, *Front. Astron. Space Sci.*, 8:672203. doi: 10.3389/fspas.2021.672203, **FI=1.5**
- Besutiu L., Szakács A., Zlagnean L.**, Isac A., Romanescu D., 2021, On the uncertainty of geophysical data interpretation in volcanic areas through a case study: Ciomadul Volcano. *Physics of the Earth and Planetary Interiors*, 319, 106781, **FI= 2.261**
- Dobrica, V., Stefan, C., Demetrescu, C.**, 2021, Planetary scale geomagnetic secular variation foci in the last 400 years, *Global and Planetary Change*, 199, 103430. **FI=5.114**
- Hencz M., Biró T., Cseri Z., Karátson D., Márton E., Németh K., **Szakács A.**, Pécskay Z., Kovács I.- J., 2021, A Lower Miocene pyroclastic-fall deposit from the Bükk Foreland Volcanic Area, Northern Hungary – clues for an eastward-located source. *Geologica Carpathica*, 72, 1, 26-47, doi1031577, **FI= 1.535**
- Hencz M., Biró T., Kovács I.-J., Stalder R., Németh K., **Szakács A.**, Pálos Zs., Pécskay Z., Karátson D., 2021, Uniform “water” content in quartz phenocrysts from silicic pyroclastic fallout deposits – implications on pre-eruptive conditions. *Eur. J. Mineral.*, 33, 571–589 <https://doi.org/10.5194/ejm-33-571-2021> , **FI= 1.665**
- Inhester, B., **Mierla, M.**, Shestov, S., Zhukov, A.N., 2021, Error Estimation of Linear Polarization Data from Coronagraphs – Application to STEREO-A/SECCHI-COR1 Observations, *Solar Physics*, 296, 72, <https://doi.org/10.1007/s11207-021-01815-3>. **FI=2.671**
- Kovács I. J., Liptai N., Koptev A., Cloetingh S.A.P.L., Lange T. P., Mațenco L., **Szakács A.**, Radulian M., Berkesi M., Patkó L., Molnár G., Novák A., Wesztergom V., Szabó Cs., Fancsik T., 2021, The ‘pargasosphere’ hypothesis: looking at global plate tectonics from a new perspective. *Global and Planetary Change*, DOI: [10.1016/j.gloplacha.2021.103547](https://doi.org/10.1016/j.gloplacha.2021.103547), **FI= 4.448**
- Kovacs, M., Fülöp, A., **Seghedi, I.**, Pécskay, Z., 2021, Architecture of volcanic plumbing systems inferred from thermobarometry: A case study from the Miocene Gutâi

- Volcaic Zone in the Eastern Carpathians, Romania. *Lithos*, <https://doi.org/10.1016/j.lithos.2021.106191>. **FI= 4.004**
- Lukács, R., Caricchi, L., Schmitt, A.K., Bachmann, O., Karakas, O., Guillong, M., Molnár, K., **Seghedi, I.**, Harangi Sz., 2021, Zircon geochronology suggests a long-living and active magmatic system beneath the Ciomadul volcanic dome field (eastern-central Europe). *Earth and Planetary Science Letters*. <https://doi.org/10.1016/j.epsl.2021.116965>. **FI= 5.255**
- Mares, C., Mares, I., Dobrica, V., Demetrescu, C.**, 2021, Quantification of the Direct Solar Impact on Some Components of the Hydro-Climatic System, *Entropy*, 23, 691, <https://doi.org/10.3390/e23060691>. **FI=2.524**
- Mares, I., Dobrica, V., Mares, C., Demetrescu, C.**, 2021, Assessing the solar variability signature in climate variables by information theory and wavelet coherence, *Scientific Reports*, 11:11337, <https://doi.org/10.1038/s41598-021-90044-6>. **FI=4.379**
- Mitrofan H., Marin C., Chitea, F., Cadicheanu N., Povară I., Tudorache A., Ioniță D.E., Anghelache M.-A.**: Multi-kilometre long pathway of geofluids migration: Clues concerning an ophiolite serpentization setting possibly responsible for the inferred abiogenic provenance of methane in thermal water outflows of the South-West Carpathians (Romania). *Terra Nova*, 33(1), p. 56-73, (2021). DOI: 10.1111/ter.12491, **FI=3.037**
- Nitta, N.V., Mulligan, T., **Mierla, M.**, O'Kane, J., Richardson, I. G., et al., 2021, Investigating Remote-sensing Techniques to Reveal Stealth Coronal Mass Ejections", *Frontiers in Astronomy and Space Sciences*, Volume 8:695966, doi: 10.3389/fspas.2021.695966, **FI=1.5.**
- Palmerio, E., Kilpua, E. K. J., Witasse, O., Barnes, D., Sánchez-Cano, B., Weiss, A. J., Nieves-Chinchilla, T., Möstl, C., Jian, L.K., **Mierla, M.**, et al., 2021, CME magnetic structure and IMF preconditioning affecting SEP transport. *Space Weather*, 19, e2020SW002654. <https://doi.org/10.1029/2020SW002654>. **FI=4.46**
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<https://doi.org/10.1051/0004-6361/202140467>. **FI=5.802**

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Szakács A., 2021, Precursor-Based Earthquake Prediction Research: Proposal for a Paradigm-Shifting Strategy. *Front. Earth Sci., Geohazards and Georisks*, doi.org/10.3389/feart.2020.548398. Open Access, **FI= 3.498**

Szücs, E., Gönczy, S., Bozsó, I., Bányai L, **Szakács A.**, Szárnya, C., Wesztergom, V., 2021, Evolution of surface deformation related to salt-extraction-caused sinkholes in Solotvyno (Ukraine) revealed by Sentinel-1 radar interferometry. *Natural Hazards and Earth System Sciences*, 21(3), pp. 977–993, **FI= 3.102**

Vlasceanu M., Ducea M. N., **Luffi P.**, Barla A., **Seghedi I.**, 2021, Carpathian-Pannonian Magmatism Database. *Geochemistry, Geophysics, Geosystems*, 22, e2021GC009970. <https://doi.org/10.1029/2021GC009970>. **FI= 3.62**

**O lucrare prezentată la o manifestare științifică internațională, publicată integral
într-un volum editat într-o editură consacrată din străinătate
(Conference Proceedings)
2021**

**O lucrare prezentată la o manifestare științifică internațională, publicată integral
într-un volum editat într-o editură consacrată din străinătate, inclusiv electronic
(Conference Proceedings Citation Index-Science, Web of Science, Thomson Reuters)**

Stanica D., Stanica, D. A., Pre-seismic geomagnetic anomalous signature related to the Mw7.0 earthquake generated in the northern coastal zone of Samos island – Greece, on October 30, 2020, EGU General Assembly 2021, online, 19–30 Apr 2021, EGU21-1078, <https://doi.org/10.5194/egusphere-egu21-1078>

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Orlyuk M., Besutiu L., Romenets A., Zlagnean L., Bakarzhieva M., Atanasiu L., Marchenko A., Makarenko I. (2021), Model magnetic al zonei comune a Carpaților Orientali și a cratonului est-european în zona geotraversei „RomUkrSeis”, *VIII International Scientific Conference - Geophysics and Geodynamics: Prediction and Monitoring of Geological Medium*, , Lviv, 5-7 oct 2021, *Proceedings ed. V.Yu.Maksymchuk*, pg 171-174

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- Mirea V., Szakacs A., Seghedi I.** (2021) An investigation approach of the volcanic geomorphology in the Călimani – Gurghiu – Harghita volcanic chain, Romania. EGU21-10745. <https://doi.org/10.5194/egusphere-egu21-10745>, 8th MSCC 8th Mineral Sciences in the Carpathians Conference, Miskolc, Hungary, May 13-14, 2021
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1. Lukács, R., Guillong, M., Bachmann, O., Fodor, L., Harangi, S. 2021 Tephrostratigraphy and Magma Evolution Based on Combined Zircon Trace Element and U-Pb Age Data: Fingerprinting Miocene Silicic Pyroclastic Rocks in the Pannonian Basin. *Frontiers in Earth Science*, 9,615768

2. Hencz M., Biró T., Cseri Z., Karátson D., Márton E., Németh K., Szakács A., Pécskay Z., Kovács I.- J. 2021 A Lower Miocene pyroclastic-fall deposit from the Bükk Foreland Volcanic Area, Northern Hungary – clues for an eastward-located source. *Geologica Carpathica*, 72, 1, 26-47, doi1031577
3. Hencz M., Biró T., Kovács I.-J., Stalder R., Németh K., Szakács A., Pálos Zs., Pécskay Z., Karátson D. 2021 Uniform “water” content in quartz phenocrysts from silicic pyroclastic fallout deposits – implications on pre-eruptive conditions. *Eur. J. Mineral.*, 33, 571–589. <https://doi.org/10.5194/ejm-33-571-2021>

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Lucrarea Szakács A. (2021) Precursor-Based Earthquake Prediction Research: Proposal for a Paradigm-Shifting Strategy. *Front. Earth Sci., Geohazards and Georisks*, doi.org/10.3389/feart.2020.548398. Open Access, a fost citată în:

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2. Whitehead M. G., Bebbington M. S. 2021 Method selection in short-term eruption forecasting. *Journal of Volcanology and Geothermal Research* 419(8):107386, DOI: 10.1016/j.jvolgeores.2021.107386

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1. Margiotta, S., Marini, G., Fay, S., (...), Parise, M., Pinna, M. 2021 Hydro-stratigraphic conditions and human activity leading to development of a sinkhole cluster in a mediterranean water ecosystem. *Hydrology*, 8(3), 111, *Open Access*
2. Bayik, C., Abdikan, S., Arıkan, M. 2021 Long term displacement observation of the Atatürk Dam, Turkey by multi-temporal InSAR analysis. *Acta Astronautica*, 189, pp. 483-491

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1. Hencz M., Biró T., Kovács I.-J., Stalder R., Németh K., Szakács A., Pálos Zs., Pécskay Z., Karátson D. 2021 Uniform “water” content in quartz phenocrysts from silicic pyroclastic fallout deposits – implications on pre-eruptive conditions. *Eur. J. Mineral.*, 33, 571–589. <https://doi.org/10.5194/ejm-33-571-2021>

Total citări 2021 = 607

Un articol apărut într-o revistă recunoscută de CNCS (B+) sau indexată într-o bază internațională de date (BDI) în 2021

- Dobrica, V., Demetrescu, C.,** 2021, Oscillations at sub-centennial time scales in the space climate of the last 150 years, *Rom. Geophys. Journal*, 65, p.71-77.
- Iatan E.L.** (2021). Optical mineralogy and magnetic properties of four chondritic meteorites from Algerian West Sahara Desert. *Rom. J. Mineral Deposits*, vol. 94 (2021), No. 1-2, ISSN 1220-5648.
- Pintea I., Berbeleac I., Udubașa S.S., **Nuțu-Dragomir M.L., Iatan E.L.** (2021). Fluid and melt inclusions study related to the magmatic-hydrothermal apatite-anhydrite association from Voia porphyry Cu-Au-(Mo) prospect (Metaliferi Mountains, Romania). *Revue Roumaine de Geologie, Romanian Academy, Publishing House of the Romanian Academy*, p.15.
- Moraru M.** (2021), Studiu realizat pe baza metodei rezistive concepute și dezvoltate de către Conrad și Sabba, Doi titani ai Geofizicii, vol. XIV/2021 al revistei *Studii și comunicări /DIS*, editată sub auspiciile CRIFST al Academiei Române, p. 8.
- Anghelache M.A.**(2021): *Scurt istoric al deducerii relațiilor actuale dintre energia seismică și magnitudine*, [ISSN 1844 – 9220] vol. XIV/2021 al revistei *Studii și comunicări /DIS*, editată sub auspiciile CRIFST al Academiei Române.

O comunicare prezentată la o manifestare științifică internațională în 2021

- Chitea F.,** Ioane D., Diaconescu M., Constantinescu E.G. (2021), Salt mining subsidence and its effects in urban areas, *The 3rd International City, Environmnet, and Health Congress, Turkey, 16-21 April, 2021*
- Chitea F.** (2021), Hazards triggered by salt mining, 2021, *The 3rd International City, Environmnet, and Health Congress, Turkey, 16-21 April, 2021*
- Niculae L., Chitea F., Nutu-Dragomir L.-M.,** Ioane D.; Stanciu I., Barbu B. (2021), Landscape evolution in landslide prone areas of the Subcarpathian. Case study: Dâmbovița County, oral presentation, *The 3rd International City, Environmnet, and Health Congress, Turkey, 16-21 April, 2021*
- Iatan E.L.** (2021), The occurrence of gold in Voia deposit, South Apuseni Mountains, Romania. *European Geosciences Union General Assembly (EGU General Assembly) 2021, 19–30 April, Vienna, Austria.*
- Mares, I., Dobrica, V., Mares, C., Demetrescu, C.,** Uncertainty analysis of solar/geomagnetic activity impact on terrestrial variables, based on the information theory, *European Geosciences Union General Assembly, Vienna, Austria, 19 – 30 April 2021*
- Tatu M., Iatan E.L.** (2021). Late Cretaceous short-lived magmatism and related metallogenesis in the Carpathian area (Romania): connections with Balkans. *EGU General Assembly 2021, Vienna, Austria, 19–30 Aprilie 2021.*
- Pintea I., **Iatan E.L.,** Udubasa S. S., Berbeleac I., Ghinescu E. (2021). Is there a eutectic mixture of the halite daughter phase with sulphate± carbonate± phosphate± borate± fluoride in the hydrosaline melt inclusions from porphyry Cu-Au (±Mo) deposits in Metaliferi Mountains, Western Romania? *Goldschmidt 2021, Lyon, France, 4 - 9 July 2021.*
- Pintea I., Udubasa S. S., Ghinescu E., **Nutu M.L., Iatan E.L.,** Berbeleac I. (2021). Minerals-, glassy-, globular opaque and fluid inclusions from metamorphic recrystallized “MVT” sulfide mineralization from Blazna-Gușet prospect, Rodna Mountains, Romania. *Goldschmidt 2021, Lyon, France, 4 - 9 July 2021.*
- Chitea F.,** Diaconu A., **Niculae L.** (2021), Geophysics for transportation infrastructure – construction and maintenance, *IXth International Conference, Biomedicine and Geosciences – Influence of Environment on Human Health, Serbia, July 6-9, 2021.*
- Niculae L., Chitea F., Nutu-Dragomir L.-M.** (2021), Landslide threatens and investigation possibilities, *IXth International Conference, Biomedicine and Geosciences – Influence of Environment on Human Health, Serbia, July 6-9, 2021.*
- Demetrescu, C., Dobrica, V., Stefan, C.,** Oscillations in the geomagnetic field at sub-centennial time scales and their sources, *Joint Scientific Assembly IAGA-IASPEI, Hyderabad, India, 21 – 27 August 2021*
- Demetrescu, C., Dobrica, V., Stefan, C.,** On the long-term evolution of the ring current, *Joint Scientific Assembly IAGA-IASPEI, Hyderabad, India, 21 – 27 August 2021*
- Demetrescu, C., Dobrica, V.,** Induction in the Earth by long-term variations in the external current systems, *Joint Scientific Assembly IAGA-IASPEI, Hyderabad, India, 21 – 27 August 2021*
- Mierla, M.,** et al., Three Eruptions Observed by EUI Onboard Solar Orbite, *16th European Solar Physics Meeting, 6 – 10 September 2021*

- Demetrescu, C., Dobrica, V., Stefan, C.,** Geomagnetic data as a source of information on past evolution of the solar activity/space climate, *13th Workshop "Solar Influences on the Magnetosphere, Ionosphere and Atmosphere", Primorsko, Bulgaria, 13 - 17 September 2021*
- Dobrica, V., Demetrescu, C., Stefan, C., Savescu, B.,** Certain space weather events in SC24 and their associated hazard assessed by surface geoelectric field, *13th Workshop "Solar Influences on the Magnetosphere, Ionosphere and Atmosphere", Primorsko, Bulgaria, 13 - 17 September 2021*
- Sima, A. R., Dobrica, V., Demetrescu, C.,** On the magnetosphere stand-off distance at the timescale of geomagnetic storms, *13th Workshop "Solar Influences on the Magnetosphere, Ionosphere and Atmosphere", Primorsko, Bulgaria, 13 - 17 September 2021*
- Orlyuk M., **Besutiu L.**, Romenets A., **Zlagnan L.**, Bakarzhieva M., **Atanasiu L.**, Marchenko A., Makarenko I., (2021), Model magnetic al zonei comune a Carpaților Orientali și a cratonului est-european în zona geotraversei „RomUkrSeis”, *VIII International Scientific Conference - Geophysics and Geodynamics: Prediction and Monitoring of Geological Medium, Proceedings ed. V.Yu.Maksymchuk, pg 171-174*, Lviv, 5-7 oct 2021
- Gheorghe M.V, Voda-Marc I.A, **Chitea F.** (2021), Evaluation of the landslide hazard and risk assessment using GIS and Remote Sensing – Dambovită County, *11th Congress of the Balkan Geophysical Society, Bucharest, Romania, 10-14 October 2021.*
- Mitrofan H., Niculae L. Nutu-Dragomir L.-M.,** Cruceru N. (2021), Tectonic tilting responsible for fluviokarst development in the Mehedinți Plateau (Romania). *11th Edition of the Balkan Geophysical Society Congress, 10-14 October, Bucharest.*
- Mitrofan H.,** Marin C., **Chitea F.,** Povară I., Tudorache A., Ioniță D.E.(2021), A partial assessment of the geothermal energy potential available at Băile Herculane (Romania), *11th Congress of the Balkan Geophysical Society, Bucharest, Romania, 10-14 October 2021.*
- Bostenaru D.M., Petrișor Al. I., **Anghelache M.A.** (2021). Monolith churches underground built heritage survey: Romania in European context, a contribution to the COST action. Rezumat extins, *11th Congress of the Balkan Geophysical Society, Bucharest, Romania, 10-14 October 2021.*
- Bostenaru D.M., **Anghelache M.A.,** Petrișor Al. I., Halmagi Șt.-R. (2021). Mines (salt and gold) and infrastructure underground built heritage survey: Romania, contribution to the COST action. *11th Congress of the Balkan Geophysical Society, Bucharest, Romania, 10-14 October 2021.*

Un contract extrabugetar obținut de către institut/centru de la organizații internaționale sau naționale în 2021

Capacități și servicii instituționale pentru cercetarea, monitorizarea și prognoza riscurilor din spațiul extraatmosferic/SAFESPACE, PCCDI/ PNIII-P1, Dr.Venera Dobrică, total: 195.000 ron, 2021: 10.719 ron

Dezvoltarea de aplicatii de securitate pe baza tehnologiilor experimentale complexe utilizate in studiul radiatiei cosmice/DEXTER, PCCDI/ PNIII-P1, Dr.Crișan Demetrescu, total: 410.000 ron, 2021: 33.005 ron

Proiect suport pentru pregătirea DANUBIUS-RI - DANS2, POC 2014 – 2020, Axa 1 – Cercetare, dezvoltare tehnologică și inovare (CDI) în sprijinul competitivității economice și dezvoltării afacerilor, Acțiunea: Mari infrastructuri de CD, cod SMIS 139648, ctr. 329/04.12.2020, IGSSSAR-Partener (N. Panin), 2021: 591.589,99 ron

Geologia resurselor naturale ca instrument de bază pentru dezvoltarea durabilă în concordanță cu standardele europene (GEORES), PCCDI/ PNIII-P1, Dr.Mihai Tatu, total: 400.000 ron, 2021: 18.508 ron

Noi metode de urmărire a modificărilor crustale regionale și globale utilizând geochimia rocilor magmatice și a sedimentelor derivate (CUTE), PN-III-ID-PCCF, Dr.Ioan Seghedi, total: 838.750 ron, 2021: 621.000 ron

Propuneri de proiecte:

- Evoluția câmpului geomagnetic din perspectivă heliosferică. O abordare multidisciplinară, PCE-2021-1532, PN-III-P4-PCE-2021-1452 (V. Dobrica) – 1.200.000 ron
- Explorarea legăturii lineare/nelineare dintre variabilitatea solară/geomagnetică și clima, PN-III-P4-PCE-2021-1767 (C. Mares) – 1.200.000 ron
- Advanced Research Tool for a strategic sector to enhance safety in aeronautics by using state-of-the-art geomagnetic measurements (ART-AeroMag), PN-III-P2-2.1-PED-2021-1245, IGSSSAR – Partener (V. Dobrica) – 200.000 ron

Total: 3 x 2 puncte (sub 100.000 ron) + 2 x 3 puncte (peste 100.000 ron) = **12 puncte**

Capacitatea de a pregăti superior tineri cercetători (doctorat) în 2021

1. Filipciuc Constantina
2. Lorincz Sarolta
3. Mirea Viorel Marian
4. Moraru Monica
5. Pomeran Mihai
6. Stochici Răsvan
7. Ștefan Gabriel-Corneliu
8. Tătaru Adrian
9. Tudor Elena Aurelia
10. Vornicu Violeta Mihaela

**Membri în colectivele de redacție ale revistelor ISI
2021**

Membru în Advisory Scientific Board al revistei **Geologica Balcanica** - Dr. Alexandru Szakacs

Membru în colectivul de redacție (Advisory Board) al revistei **Geologica Carpathica** (Slovacia la Bratislava). www.geologicacarthica.sk and www.versita.com - Dr.Ioan Seghedi

Membru în colectivul de redacție (Scientific Board) al revistei **Central European Geology** (Ungaria, Budapesta) Copyright © 2017 Akadémiai Kiadó Zrt. - Dr.Ioan Seghedi

Membru în colectivul de redacție al revistei **SUN & GEOSPHERE** publicată de „*The Balkan, Black Sea and Caspian Sea Network for Space Weather Studies*” (ISSN: 1819 – 0839) – G. Muntean

Referent al publicației **SUN & GEOSPHERE; Solar Physics; Journal of Geophysical Researches** – G. Muntean

**Membri în colectivele de redacție ale revistelor recunoscute national (categoria B în
clasificarea CNSIS)
2021**

Membri în colectivul de redacție al revistei

Revue Roumaine de Géophysique, Editura Academiei Române, București:

- Dr. Crișan Demetrescu, Membru corespondent al Academiei Române
- Dr.ing. Dumitru Stănică - Romanian Geophysical Journal –BDI

Studii și comunicări/DIS, vol. **XIII/2021**, Editura MEGA, Cluj.Napoca, sub auspiciile CRIFST al Academiei Române, [ISSN 1844–9220], accesibilă online [ISSN-L: 1844 – 9220] Mirela Adriana Anghelache - Secretar de redacție

Membru în colectivul de redacție al **Romanian Journal of Earth Sciences** editata de **IGR Bucuresti** - Dr.Ioan Seghedi

Membru în Editorial Advisory Board al **Studia Universitatis Babes-Bolyai – Geologia** - Dr. Alexandru Szakacs

Membru în comitetul științific al **Geophysical Journal**, ISSN 0203-3100, **Kiev, Ukraine** – Dr. Besutiu Lucian

**Cercetatori cu indice Hirsch peste 8
2021**

Dr.Ioan Seghedi	h=25
Dr.Alexandru Szakacs	h=24
Dr.Peter Luffi	h=14
Dr.Crișan Demetrescu	h=11
Dr.ing.Dumitru Stănică	h=8
Dr.Venera Dobrică	h=8

Premii ale Academiei Române

1. Premiul „Gheorghe Murgoci” – 1985 - Dr.Crișan Demetrescu, membru corespondent al Academiei Române
2. Premiul "Gh. Munteanu Murgoci" – 1987 – Dr. Lucian Besutiu
3. Premiul „Gheorghe Murgoci” – 1996 - Dr.ing. Dumitru Stănică, Maria Stănică
4. Premiul „Lodovic Mrazec” – 2010 - Dr.Ioan Seghedi
5. Premiul „Ștefan Hepites” – 2010 - Dr.Venera Dobrică, Georgeta Mariș
6. Premiul „Ștefan Hepites” – 2010 - Florin Munteanu
7. Premiul „Ștefan Hepites” – 2011 - Dr.Marilena Mierlă
8. Premiul „Lodovic Mrazec” – 2016 - Dr. Mihai Tatu
9. Premiul „Ștefan Hepites” – 2016 - Dr. Horia Mitrofan,
Mirela-Adriana Anghelache,
Dr. Florina Chitea,
Dr.Nicoleta Cadicheanu
10. Premiul „Ștefan Hepites” – 2016 - Dr.Mădălina Vișan
11. Premiul „Ștefan Hepites” – 2017 - Dr.Cristiana Ștefan
12. Premiul „Ștefan Hepites” – 2018 - Dr. Dragoș Armand Stănică
13. Premiul „Ștefan Hepites” – 2019 - Dr. Beșuțiu, Dr. Mihail Diaconescu, Dr. Luminița Zlăgnea, Dr. Andreea Craiu

Un premiu (distincție) al unei societăți științifice naționale obținut printr-un proces de selecție

Nutu M.L., Premiul I la Al-II-lea Simpozion National al Studentilor Geologi, Sectia Sedimentologie, organizat de Cluj Student Chapter afiliat la AAPG, 23-25 Martie 2001, pentru lucrarea Analiza sedimentara a Stratelor de Comarnic de varsta Cretacic inferior (Valea Prahovei).

Stănică, D., Diploma de excelență și premiul I, pentru înaltul nivel științific și tehnologic al realizării „Tehnologie și echipament specializat destinate urmării câmpurilor magnetotelurice și de stress în scopul evidențierii unor parametri cu caracter precursor cutremurelor vrâncene”, MENER, CONRO 2004, acordat de Ministerul Educației și Cercetării –

Stănică Dumitru - Diplomă și Plachetă de Aur , acordată de Academia Oamenilor de Știință din România, Noiembrie 2007

Premiu CNCSIS – 2009 – pentru lucrarea Ionescu, C., Hoeck, V., Tomek, C., Koller, F., Balintoni, I., **Besutiu, L.** (2008) *New insights into the basement of the Transylvanian Depression (Romania)*, Lithos, doi:10.1016/j. lithos. 2008.06.004, ISSN: 0024-4937

Premiu CNCSIS – 2010 – pentru lucrarea **Mitrofan, H.**, Marin, C., **Zugravescu, D.**, **Chitea, F.**, **Anghelache, M.-A.**, **Besutiu, L.**, and Tudorache, A. (2010) Persistent pre-seismic signature detected by means of Na-K-Mg geothermometry records in a saline spring of Vrancea area (Romania); *Nat. Hazards Earth Syst. Sci.*, 10, 217–225

Popa, R.G., 2011, Premiul „Dumitru Sandu” pentru Activitate Profesională Meritorie în Domeniul Geofizicii, Universitatea din București

Popa, R.G., 2011, Premiul Hope, pentru Excelență în Cercetare Geologică, Universitatea din București

Popa, R.G., 2012, Premiul Societății de Geofizică Aplicată din România

Mitrofan H., Chitea F., Anghelache M.-A., Visan M., 2014- *Possible triggered seismicity signatures associated with the Vrancea intermediate-depth strong earthquakes (Southeast Carpathians, Romania)*. Seismological Research Letters, March/April 2014 , v. 85, 314-323. doi:10.1785/0220130045, Print ISSN: 0895-0695, Online ISSN: 1938-2057

Nr. crt. 2557

http://uefiscdi.gov.ro/userfiles/file/PREMIERE_ARTICOLE/ARTICOLE%202014/ACTUALIZARE%2023_12_2014/LISTA%205%20REZULTATE%20-%20actualizata%20-%2018_12_2014.pdf

Mitrofan H., Chitea F., Anghelache M.-A., Visan M., Possible triggered seismicity signatures associated with the Vrancea intermediate-depth strong earthquakes (Southeast Carpathians, Romania). Seismological Research Letters, *Geophys. J. Int.*, 2016, 205 (2), 864–875, doi: 10.1093/gji/ggv533, <http://uefiscdi.gov.ro/userfiles/file/PNCIDI%20III/>

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PRECISI_2016_Rezultate%20 eligibilitate_lista%203_actualizare%2028_10_2016.pdf,
la Nr. crt. 419

Un premiu (distincție) al unei societăți științifice internaționale obținut printr-un proces de selecție

1. **Ștefan C.**, „Outstanding young scientist poster” pentru posterul prezentat la Adunarea Generală a EGU (*European Geosciences Union*) 2013 și anume: Ștefan C., Demetrescu C., Dobrica V., Long-term external effects in annual means from observatory and main field models, European Geosciences Union General Assembly, Vienna, Austria, 7 – 12 April 2013.
2. Premiul „Best presentation” la secțiunea de Applied Geophysics, obținut în cadrul „14th International Multidisciplinary Scientific GeoConference SGEM 2014”, Bulgaria pentru lucrarea: **Chitea F.**, Ioane D., Airinei I., Serban A., Dorobantu A., 2014, Geoelectrical methods applied for prospecting an area with geothermal potential
3. **Chitea F.**, Premiul „Best Pitch” Award în cadrul HEPTech Symposium “Connecting Science and Commerce”, Prague, the Czech Republic, 2015
4. Best paper and presentation at 17th International Multidisciplinary Scientific GeoConferences SGEM, Albena (Bulgaria), 27 June - 06 July 2017, Geology section: **Nuțu-Dragomir M-L.**, *Sedimentary characteristics of a Permian continental succession in Sirinia Basin (South Carpathians, Romania)*
5. **Stanica D.** – Certificate for „Remarkable Contributions to exploration Geophysics in Romania”, 2000, by Society of Exploration Geophysicists

Un membru de onoare (*fellow, senior*) al unei societăți științifice naționale/internaționale

1. **Stănică D.**, 2018, membru de onoare al Societății de Geofizică Aplicată din România