Institutul de Geodinamică
"Sabba S.Ştefănescu"
al Academiei Române

Raport de autoevaluare pentru anul 2015

1. Date de identificare institut/centru

1.1. Denumire: ***Institutul de Geodinamică "Sabba S.Ştefănescu" al Academiei Române***

1.2. Statut juridic: personalitate juridică

1.3. Act de înfiinţare: HG 364/03.04.1990

1.4. Număr de înregistrare în Registrul Potenţialilor Contractori: 346

1.5. Director general/Director: Dr.Crişan Demetrescu, membru corespondent al Academiei Române

1.6. Adresă: Str. Jean Louis Calderon nr.19-21, sector 2, Bucureşti, cod poştal 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, direcţiile de cercetare, dezvoltare, inovare. Rezultate de excelenţă 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"** şi, în mod particular, asupra:

- studiului variaţiilor spaţio-temporale ale unor parametri legaţi cauzal de cumularea tensiunilor responsabile de producerea cutremurelor de pământ;
- studiilor de hazard natural (tectonic, seismic, alunecări de teren etc);
- monitorizării variaţiilor spaţio-temporale ale câmpurilor gravific, geomagnetic, electromagnetic, geoelectric şi ale deformărilor crustei terestre;
- modelării structurii şi evoluţiei termo-mecanice a litosferei;
- analizei neliniare a sistemelor geodinamice;
- studiului proceselor endogene în conexiune cu procesele geodinamice;
- studiului câmpului geomagnetic în relaţie cu procese fizice din heliosferă;
- studiului geofizic complex în zone devenite geodinamic active datorită activităţii antropice

3.2. Modul de valorificare a rezultatelor de cercetare, dezvoltare, inovare şi gradul de recunoaştere a acestora (maximum 1000 de caractere)[1]:

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

- articole publicate în reviste de specialitate, recunoaşterea conţinutului ştiinţific fiind reliefată prin numeroasele citări în reviste cotate ISI
- participarea la manifestări ştiinţifice internaţionale de prestigiu

- participarea la PNCDI, ce a adus Institutului fonduri folosite exclusiv pentru dezvoltarea bazei tehnico-materiale
- participarea la programe internaţionale,
- instituţie acreditată prin decizia ANCS nr. 9634/14.04.2008 (anexa nr.2)
- indice Hirsch (Acad.A.Săndulescu – 27, I.Seghedi – 17, A.Szakacs – 16, C. Demetrescu – 9, Stănică – 8)

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

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

	2015
CS I	6
CS II	4
CS III	10
CS	13

3.5. Numărul total al personalului:

	2015
Nr. posturi aprobate	82

4. Criterii de performanţă in cercetarea stiintifica (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 şi 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 cotată de *Web of Science* (Thomson Reuters) **Vezi Anexa 1**	7	$(1 + FI)\times(N_{ic}/N_a)^4$	8,34
15.	O lucrare prezentată la o manifestare ştiinţifică internaţională, publicată integral într-o revistă cotată de *Web of Science* (Thomson Reuters)	0	$(1 + FI)\times(N_{ic}/N_a)^4$	0
16.	O lucrare prezentată la o manifestare ştiinţifică internaţională, publicată integral într-un volum editat într-o editură consacrată din străinătate, inclusiv electronic (*Conference Proceedings Citation Index- Science*, *Web of Science*, Thomson Reuters)[2] **Vezi Anexa 2**	7	$2\times(N_{ic}/N_a)$	5,4
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	0	$7\times(N_{ic}/N_a)\times(N_p/N_{tp})$	0
19.	Număr de citări conform *Web of Science* (Thomson Reuters) **Vezi Anexa 3**	176	0,5	88
20.	Factor de impact cumulat conform *Web of Science* (Thomson Reuters)[3]	-	$FI\times(N_{ic}/N_a)$	6,04
21.	O carte apărută într-o editură consacrată din ţară[7]	0	$7\times(N_{ic}/N_a)$	0
22.	O carte editată într-o editură consacrată din ţară[7] **Planeta Pământ. Planeta vie,** Eds. Zugrăvescu D., Munteanu Fl., ISBN 978-973-720-582-7, Ed.AGIR, 2015	1	$3\times(N_{ic}/N_a)$	3
23.	Un articol apărut într-o revistă recunoscută de CNCS (B+) sau indexată într-o bază internaţională de date (BDI) **Vezi Anexa 4**	6	$1\times(N_{ic}/N_a)$	4,4
24.	O conferinţă invitată/plenară/*keynote* prezentată la o manifestare ştiinţifică internaţională **Vezi Anexa 5**	4	10	40
25.	O conferinţă invitată/plenară/*keynote* prezentată la o manifestare ştiinţifică naţională	0	5	0
26.	O comunicare orală prezentată la o manifestare ştiinţifică internaţională **Vezi Anexa 6**	51	$5\times(N_{ic}/N_a)$	196,42
27.	O comunicare orală prezentată la o manifestare ştiinţifică naţională **Vezi Anexa 7**	9	$2\times(N_{ic}/N_a)$	14,67
Punctaj total criterii de performanţă in cercetarea stiintifica				**391,27**

[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 straine de aceeasi anvergura.

[3] Pentru fiecare articol se va lua în calcul factorul de impact (FI) al revistei împărţit la numărul total de autori (N_a) şi înmulţit 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 apariţiei articolului.

[4] Pentru revistele din domeniile: Botanică, Zoologie, Ecologie, Agronomie etc., al căror FI este ≤ 2,0 punctajul total se înmulţeşte cu 1,5.

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

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

n = număr programe, tratate, cărţi, 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 cărţile ştiinţifice de autor ce apar în evidenţa Bibliotecii Naţionale.

n = număr programe, tratate, cărţi, 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 câştigat de către institut/centru de la organizaţii internaţionale **Vezi Anexa 8**	5000 - 10000 EUR		2	8
		10001 - 50000 EUR		4	
		50001 - 200000 EUR		6	
		200001 - 1000000 EUR	1	8	
		peste 1000000 EUR		10	
2.	Un grant câştigat de către institut/centru de la organisme naţionale **Vezi Anexa 8**	sub 10000 RON		1	4
		10001 - 100000 RON		2	
		100001 - 500000 RON		3	
		peste 500000 RON	1	4	
3.	Un contract extrabugetar obţinut de către institut/centru de la organizaţii internaţionale sau naţionale	sub 5000 RON		0,5	
		5001 - 10000 RON		1	
		10001 - 100000 RON		2	
		peste 100000 RON		3	
4.	O manifestare ştiinţifică (congres, conferinţă, simpozion) sau şcoală de vară internaţională organizată de institut		0	10	0
5.	O manifestare ştiinţifică (congres, conferinţă, simpozion) sau şcoală de vară naţională organizată de institut			5	
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 internaţional		10	
		la nivel naţional		5	
2.	Un brevet aplicat	la nivel internaţional		20	
		la nivel naţional		10	
3.	Un brevet citat în *Web of Science* (Thomson Reuters)			5	
4.	Produse şi tehnologii rezultate din activităţi de cercetare bazate pe omologări sau inovaţii proprii (produs vândut, sume încasate)[6]			20	
5	Un laborator de cercetare-dezvoltare acreditat			20	
6	Studii de impact si servicii comandate de un beneficiar			5	
	Punctaj total dezvoltare servicii s.a.				

7. Capacitatea de a pregati superior tineri cercetatori (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.ing.Dorel Zugrăvescu, membru corespondent al Academiei Române - Dr.Crişan Demetrescu, membru corespondent al Academiei Române	2	20	40
3.	Un doctorand (**Vezi Anexa 9**)	12	10	120
4.	Un post-doctorand	0	10	0
5.	Un cercetător angajat in institut/centru care a obținut titlul de doctor in perioada de evaluare	1	10	10
Punctaj total pregatire tineri cercetatori				**190**

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

Nr. crt.	Criteriu	n	Punctaj unitar	Punctaj acordat
1.	Un membru în colectivul de redacţie al unei reviste naţionale/internaţionale (cotată de *Web of Science*, Thomson Reuters sau indexată într-o BDI) sau în colectivul editorial al unor edituri internaţionale consacrate **Vezi Anexa 10**	13	20	260
2.	Un membru în conducerea unei organizaţii internaţionale de specialitate	0	20	0
3.	Un membru al Academiei Române Acad.A.Săndulescu, Dr.ing. Dorel Zugrăvescu, membru corespondent al Academiei Române, Dr. Crişan Demetrescu, membru corespondent al Academiei Române	3	50	150
4.	Un cercetător cu un indice Hirsch peste 8 **Vezi Anexa 11**	5	20	100
5.	Un membru de onoare (*fellow*, *senior*) al unei societăţi ştiinţifice naţionale/internaţionale **Vezi Anexa 12**	7	20	140
6.	Un premiu al Academiei Române **Vezi Anexa 12**	8	20	160
7.	Un premiu (distincţie) al unei societăţi ştiinţifice naţionale obţinut printr-un proces de selecţie **Vezi Anexa 12**	17	10	170
	Un premiu (distincţie) al unei societăţi ştiinţifice internaţionale obţinut printr-un proces de selecţie – **Vezi Anexa 12**	4	40	160
Punctaj total prestigiu ştiinţific				**1140**

Punctaj total criterii performanta ştiinţifică, atragere de fonduri, performanta dezvoltare, pregătire tineri şi prestigiu ştiinţific	**1733,27**

Academia Română
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Anexa 1

Un articol publicat într-o revistă cotată de Web of Science (Thomson Reuters) în 2015

Paraschiv, A. R., Bemporad, A., Sterling, A. C., Physical properties of solar polar jets. A statistical study with Hinode XRT data, *Astronomy & Astrophysics*, 579, A96, 2015, doi: 10.1051/0004-6361/201525671. FI=4,378

Harangi, S., Novák, A., Kiss, B., **Seghedi, I.**, Lukács, R., Szarka. L., Wesztergom, V., Metwaly, M., Gribovszki, K. 2015. Combined magnetotelluric and petrologic constrains for the nature of the magma storage system beneath the Late Pleistocene Ciomadul volcano (SE Carpathians**).** *Journal of Volcanology and Geothermal Research* 290, 82-96. FI=2.54

Seghedi, I., Helvacı, C., Pécskay, Z., 2015. Composite volcanoes in the south-eastern part of İzmir–Balıkesir transfer zone, Western Anatolia, Turkey. *Journal of Volcanology and Geothermal Research* 291, pp. 72-85. FI=2.54

Szakács, A., Seghedi, I., Pécskay, Z., **Mirea, V**., 2015. Eruptive history of a low frequency and low-output rate Pleistocene volcano, Ciomadul, South Harghita Mts., Romania. *Bulletin of Volcanology*, 77:12, DOI 10.1007/s00445-014-0894-7. FI=2.519;

Harangi S., Lukács R., Schmitt A.K., Dunkl I., Molnár K., Kiss B., **Seghedi I.**, Novothny Á., Molnár M. 2015. Constraints on the timing of Quaternary volcanism and duration of magma residence at Ciomadul volcano, east–central Europe, from combined U–Th/He and U–Th zircon geochronology. *Journal of Volcanology and Geothermal Research* 301 (2015) 66–80. FI=2.54

Mitrofan H., Marin C., Povară I., Possible conduit-matrix water exchange signatures outlined at a karst spring. *Groundwater*, 53, 2015, Supplement 1, 113-122, FI= 2.307

Panaiotu C.G., Dimofte D., Necula C., Dumitru A., **Seghedi I., Popa R-G.** 2015. Revised paleosecular variation from Quaternary lava flows from the East Carpathians. *Romanian Reports in Physics* (in press). FI=1.517

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Anexa 2

O lucrare prezentată la o manifestare ştiinţifică internaţională, publicată integral într-un volum editat într-o editură consacrată din străinătate
(*Conference Proceedings)*
2015

Nuțu M.L., Vaselli O., (2015) Fault-related fluid flow within Subcarpathian nappe domain (East Carpathians) during post-collision stage. *Conference Proceedings, 15th International Multidisciplinary Scientific GeoConferences SGEM, vol. I, p. 141-150.*

Berbeleac I., **Nuțu M.L., Chitea F.,** (2015) Relationships between crustal faults, shallow magmatic chamber and Neogene porphyry Cu-Au systems. *Conference Proceedings, 15th International Multidisciplinary Scientific GeoConferences SGEM, vol. I, p. 435-442.*

Serban A., **Chitea F.,** Ioane D., (2015), ERT investigation of a buried water reservoir, *Conference Proceedings, 15th International Multidisciplinary Scientific GeoConferences, SGEM, vol III, p. 839-846.*

Chitea F., Ioane D., Serban A., (2015). Electrical properties of groundwater resources and its importance for geophysical prospection, *Proceedings of 15th International Multidisciplinary Scientific GeoConferences SGEM 2105, Vol 3, pp 823-830*.

Chitea F., Ioane D., Damian A., (2015),Geophysical studies for hazard delineation in salt mine environments *Proceedings of 15th International Multidisciplinary Scientific GeoConferences SGEM 2105, Vol 3, pp 871-878.*

Ioane D., Serban A., Diaconescu M., **Chitea F.,** Caragea I., (2015), High seismicity sequence in the izvoarelearea (Galati County)- Romania, *Proceedings of 15th International Multidisciplinary Scientific GeoConferences SGEM 2105, Vol 3, 1043-1050.*

Serban A., **Chitea F.,** Ioane D., 2015, ERT investigation of a buried water reservoir, *Proceedings of 15th International Multidisciplinary Scientific GeoConferences SGEM 2105, Vol 3, pp 839-846*

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Anexa 3

Număr de citări conform *Web of Science* (Thomson Reuters) în 2015

Lucrarea **Demetrescu, C., Dobrica, V.,** 2008, Signature of Hale and Gleissberg solar cycles in the geomagnetic activity, *J. Geophys. Res., 113, A02103, doi:10.1029/ 2007JA012570*. a fost citată de:

1. Feynman, J., Ruzmaikin, A., The Earth's climate at minima of Centennial Gleissberg Cycles, *Advances in Space Research*, 56, 8, 1590-1599, 2015.

Lucrarea **Mierla, M.**, Inhester, B., Antunes, A. et al.: On *the 3-D reconstruction of Coronal Mass Ejections using coronagraph data,* Annales Geophysicae, 28, 1, 203-215, 2010 a fost citată de:

1. M. L. Mays, B. J. Thompson, L. K. Jian, R. C. Colaninno, D. Odstrcil, C. Möstl, M. Temmer, N. P. Savani, G. Collinson, A. Taktakishvili, P. J. MacNeice, and Y. Zheng: Propagation of the 2014 January 7 CME, and resulting geomagnetic non-event, *The Astrophysical Journal*, 812, 2, 145, 2015
2. Li Feng, Yuming Wang, Fang Shen, Chenglong Shen, Bernd Inhester, Lei Lu, and Weiqun Gan: Why does the apparent mass of a coronal mass ejection increase?, *The Astrophysical Journal*, 812, 1, 70, 2015
3. Kirnosov, Vladimir; Chang, Lin-Ching; Pulkkinen, Antti: Automatic CME front edge detection from STEREO white-light coronagraph images, *Space weather – The international journal of research applications*, 13, 8, 469-483, 2015
4. Howard, Timothy A: Regarding the detectability and measurement of coronal mass ejections, *Journal of space weather and space climate*, 5, A22, 2015
5. Cremades, H.; Mandrini, C. H.; Schmieder, B.; et al. Coronal Mass Ejections from the Same Active Region Cluster: Two Different Perspectives, *Solar physics*, 280, 6, 1671, 2015
6. Zic, T.; Vrsnak, B.; Temmer, M. Heliospheric propagation of coronal mass ejections: Drag-based model fitting, *Astrophysical Journal* supplement series, 218, 2, 32, 2015
7. Janvier, M.; Dasso, S.; Demoulin, P.; et al.: Comparing generic models for interplanetary shocks and magnetic clouds axis configurations at 1 AU, *Journal of Geophysical research – space physics*, 120, 5, 3328-3349, 2015
8. Bemporad, A.; Pagano, P.: Uncertainties in polarimetric 3D reconstructions of coronal mass ejections, *Astronomy &Astrophysics*, 576, A93, 2015
9. Dai, Xinghua; Wang, Huaning; Huang, Xin; et al.: An improvement on mass calculations of solar coronal mass ejections via polarimetric reconstruction, *Astrophysical Journal*, 801, 1, 39, 2015
10. Pasachoff, J. M.; Rusin, V.; Saniga, M.; et al.: Structure and dynamics of the 2012 november 13/14 eclipse white- light corona, *Astrophysical Journal*, 800, 2, 90, 2015
11. Ritter, Birgit; Meskers, Arjan J. H.; Miles, Oscar; et al.: A Space weather information service based upon remote and in-situ measurements of coronal mass ejections heading for Earth, *Journal of Space Weather*, 5, A3, 2015

Lucrarea **Mierla, M**.; Davila, J.; Thompson, W.; et al.: *A Quick Method for Estimating the Propagation Direction of Coronal Mass Ejections Using STEREO-COR1 Images,* Solar physics, 252, 2, 385-396, 2008 a fost citată de:

1. Howard, Timothy A.: Regarding the detectability and measurement of coronal mass ejections*, Journal of space weather and space climate*, 5, A22, 2015
2. Pasachoff, J. M.; Rusin, V.; Saniga, M.; et al.: Structure and dynamics of the 2012 November 13/14 eclipse white- light corona, *Astrophysical Journal*, 800, 2, A 90, 2015
3. Mishra, Wageesh; Srivastava, Nandita; Chakrabarty, D.: Evolution and Consequences of Interacting CMEs of 9-aEuro parts per thousand 10 November 2012 Using STEREO/SECCHI and In Situ Observations, *Solar Physics*, 290, 2, 527-552 , 2015

Lucrarea Zuccarello, F. P.; Bemporad, A.; Jacobs, C.; **Mierla, M.**; Poedts, S.; Zuccarello, F.: The role of streamers in the deflection of coronal mass ejections: comparison between stereo three- dimensional reconstructions and numerical simulations, Astrophysical Journal, 744, 1, 66, 2012 a fost citată de:

1. Liu, Ying D.; Hu, Huidong; Wang, Rui; et al.: Plasma and magnetic field characteristics of solar coronal mass ejections in relation to geomagnetic storm intensity and variability, *Astrophysical*, 809, 2, L34, 2015
2. Kay, C.; Opher, M.; Evans, R. M.: Global trends of CME deflections based on CME and solar parameters, *Astrophysical Journal*, 805, 2, 168, 2015
3. Wu, Shi Tsan; Dryer, Murray: Comparative analyses of current three-dimensional numerical solar wind models, Science China-*Earth Science*, 58, 6, 839-858, 2015
4. Mostl, Christian; Rollett, Tanja; Frahm, Rudy A.; et al.: Strong coronal channelling and interplanetary evolution of a solar storm up to Earth and Mars*, Nature Communications*, 6, 7135, 2015
5. Yang, Jiayan; Jiang, Yunchun; Xu, Zhe; et al.: Interchange reconnection forced by the filament eruption inside a pseudo-streamer, *Astrophysical Journal*, 803, 2, 68, 2015

Lucrarea **Mierla, M**.; Inhester, B.; Marque, C.; et al.: *On 3D Reconstruction of Coronal Mass Ejections: I. Method Description and Application to SECCHI-COR Data,* Solar Physics, 259, 1-2, 123-141, 2009 a fost citată de:

1. Howard, Timothy A.: Regarding the detectability and measurement of coronal mass ejections, *Journal of space weather and space climate*, 5, A22, 2015
2. Mishra, Wageesh; Srivastava, Nandita: Heliospheric tracking of enhanced density structures of the 6 October 2010 CME, *Journal of Space Weather and Space Climate*, 5, A20, 2015
3. Feng, Li; Inhester, Bernd; Gan, Weiqun. Radial flow pattern of a slow coronal mass ejection. *Astrophysical Journal*, 805, 2, 113, 2015
4. Dai, Xinghua; Wang, Huaning; Huang, Xin; et al.: An improvement on mass calculations of solar coronal mass ejections via polarimetric reconstruction, *Astrophysical Journal*, 801, 1, 39, 2015

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176 citări = 88 puncte

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Anexa 4

Un articol apărut într-o revistă recunoscută de CNCS (B+) sau indexată într-o bază internaţională de date (BDI) în 2015

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Roba C., Roşu C., Burghele B-D., Moldovan M., **Mitrofan H.,** The quality of natural mineral waters from Buzău County, *Aerul şi Apa: Componente ale Mediului*, 2015, 102-108.

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Besliu-Ionescu, D., Mierla, M., Maris Muntean, G., Magnetic crochet associated to the seismically active flare of March 29, 2014, *Romanian Geophysical Journal*, accepted, 2015.

Greculeasa, R., Dobrica, V., Isac, A., The evolution of the geomagnetic field on the Romanian territory. Measurements in the secular variation national network between 2010 and 2014, *Romanian Geophysical Journal*, accepted, 2015.

Stefan, C., Dobrica, V., Demetrescu, C., Residual 11-year signal in coefficients of main field models, *Romanian Geophysical Journal*, accepted, 2015.

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Anexa 5

O conferinţă invitată/plenară/*keynote* prezentată la o manifestare ştiinţifică internaţională în 2015

Besliu-Ionescu, D., Mierla, M., Maris Muntean, G., Energy coupling functions between the solar wind and the Earth magnetosphere, *Solar Variability and its Heliospheric Effect, Athens, Greece, 2-6 November 2015* (invited talk)

Demetrescu, C., Dobrica, V., Long- and short-term responses of the heliosphere-magnetosphere environment to solar activity variations, *Solar Variability and its Heliospheric Effect, Athens, Greece, 2-6 November 2015* (invited talk)

Dobrica, V., Georgieva, K., Kirov, B., **Demetrescu, C**., Geomagnetic activity: long- and short-term variability, sources, *Solar Variability and its Heliospheric Effect, Athens, Greece, 2-6 November 2015* (invited talk)

Mierla, M. and SECCHI consortium, Highlights of STEREO, *Der Deutschen Physikalischen Gesellschaft meeting, Wuppertal, Germany, 9-13 March 2015 (invited talk)*

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Anexa 6

O comunicare orală prezentată la o manifestare ştiinţifică internaţională în 2015

Tarff R.W., Day S.J., Downes H. , **Seghedi I.,** 2015. A re-examination of the Valentine et al (2014) model of diatreme evolution in the light of cyclic variations in explosivity in the Cova de Paul eruption, Santo Antao, Cape Verde*, The 51st Annual Volcanic and Magmatic Studies Group Conference, Norwich, 5-7 January 2015*.

Dobrica V., Demetrescu, C., Stefan, C., Pirloaga, R., Decadal variability of NH temperatures and its connection with solar variability, *Sun-Climate connections Conference, Kiel, Germany, 16-19 March, 2015*

Roba C., Roşu C., Burghele B-D., Moldovan M., **Mitrofan H.**, The quality of natural mineral waters from Buzău County*, 7th International Conference Air and Water - Components of the Environment, Cluj-Napoca, Romania, 20-22 March, 2015*.

Besliu-Ionescu, D., Mierla, M., Dobrica, V., Maris Muntean, G., Magnetospheric Energy Input during Intense Geomagnetic Storms in SC23, *European Geosciences Union General Assembly, Vienna, Austria, 12 – 17 April 2015*

Beşuţiu, L., Zlăgnean, L., Monitoring Deep Geodynamic Processes within Vrancea Intermediate-Depth Seismic Zone by Geodetic Means, *European Geosciences Union General Assembly, Vienna, Austria, 12 – 17 April 2015*

Bostenaru-Dan Maria, Gociman C. O., Hostiuc C., Mihaila M., Gheorghe (Popovici) D.A., **Anghelache M.A.,** Dutu A., Tascu-Stavre M., Results of the round table "Impact of natural and man-made hazards on urban areas"*, European Geosciences Union General Assembly, Vienna, Austria, 12 – 17 April 2015*

Demetrescu C., Dobrica V., Stefan C., Greculeasa, R., Surface electric field variations induced by intense geomagnetic storms of the solar cycle 23, a case study for the European geomagnetic observatory network, *European Geosciences Union General Assembly, Vienna, Austria, 12 – 17 April 2015*

Dobrica, V., Pirloaga, R., Stefan, C., Demetrescu, C., On geoeffective solar variability signature in northern temperate climate zone at specific atmospheric levels, *European Geosciences Union General Assembly, Vienna, Austria, 12 – 17 April 2015*

Greculeasa R., Demetrescu, C., Dobrica, V., On the lateral distribution of electrical properties of crust and mantle in Europe, *European Geosciences Union General Assembly, Vienna, Austria, 12 – 17 April 2015*

Mares, I., Dobrica., V., Demetrescu, C., Mares, C., Influence of the atmospheric blocking on the hydrometeorological variables from the Danube basin and possible response to the solar/geomagnetic activity, *European Geosciences Union General Assembly, Vienna, Austria, 12 – 17 April 2015*

Niculae L., Popa R-G., Tatu M., Torrential landscapes associated with gravitational slope movements in Buzău Land Geopark, Romania – A quantitative approach on the time-space evolution of denudation processes*, European Geosciences Union General Assembly, Vienna, Austria, 12 – 17 April 2015*

Panaiotu C. G. **, Visan M.**, Necula C., Dumitru A., Strachinaru A., Panaiotu A. , Dimofte D., Seghedi I., Paleomagnetism of the Upper Miocene volcanic rocks from the East Carpathians (Gurghiu Mountains, Romania)*, European Geosciences Union General Assembly, Vienna, Austria, 12 – 17 April 2015*

Popa R-G., **Seghedi I.,** Late cretaceous hydrovolcanism of Haţeg Country Dinosaurs Geopark, Romania*, European Geosciences Union General Assembly, Vienna, Austria, 12 – 17 April 2015*

Seghedi I., Mason P. R. D., What olivine and clinopyroxene mineral chemistry and melt inclusion study can tell us about magmatic processes in a post-collisional setting. Examples from the Miocene-Quaternary East Carpathian volcanic chain, Romania*, European Geosciences Union General Assembly, Vienna, Austria, 12 – 17 April 2015*

Tatu M., Niculae L., Popa R-G., Landslide inventory map as a tool for landscape planning and management in Buzău Land Geopark*, European Geosciences Union General Assembly, Vienna, Austria, 12 – 17 April 2015*

Moraru M., Mafteiu M., Electrical Resistivity Tomography Used For Soil Polluted Area Identification Around An Oil Terminal, *International U.A.B.-B.E.N.A. Conference Environmental Engineering And Sustainable Development, Alba Iulia, Romania, 28-30 May, 2015*.

Chiriac, A., **Chitea, F.,** Serban, A., 2015, Evaluation of Hydrocarbon Pollution Plume Extension Using Electrical Resistivity Method, *77th EAGE Conference and Exhibition, Madrid, Spain, 1-4 June 2015.*

Besliu-Ionescu, D., Mierla, M., Maris Muntean, G., The Influence of Apr 10, 2001 CME on the Magnetosphere, *The Seventh Workshop "Solar influences on the magnetosphere, ionosphere and atmosphere", Sunny Beach, Bulgaria, 1-5 June 2015*

Demetrescu C., Dobrica V., Stefan C., Greculeasa, R., Induced Currents, a space weather hazard. Case study – Europe under intense geomagnetic storms of the solar cycle 23, *The Seventh Workshop "Solar influences on the magnetosphere, ionosphere and atmosphere", Sunny Beach, Bulgaria, 1-5 June 2015*

Besutiu, L., Orlyuk,M., **Zlagnean,L.,** Romenets,A., **Atanasiu, L.,** Makarenko, I., Cross-Border Geophysical and Geological Models between Romania and Ukraine in the Low Danube Area, *8th EUREGEO, Barcelona, Spania,15-17 June 2015*.

Nuţu M.L., Vaselli O., Fault-related fluid flow within Subcarpathian nappe domain (East Carpathians) during post-collision stage. *15th International Multidisciplinary Scientific GeoConferences SGEM, Albena, Bulgaria, 16-25 June 2015.*

Berbeleac I., **Nutu M-L, Chitea F.,** Relationships between crustal faults, shallow magmatic chamber and Neogene porphyry CU-AU systems. *15th International Multidisciplinary Scientific GeoConferences SGEM, Albena, Bulgaria, 16-25 June 2015.*

Besutiu, L., Seghedi, I., Zlagnean, L., Atanasiu, L., Pomeran, M., Visan,M., Geomagnetic Patterns along the Neogene to Quaternary Volcanism of East Carpathians, *26th International Union of Geodesy and Geophysics General Assembly, Prague, the Czech Republic, 22 June – 02 July 2015*

Demetrescu C., Dobrica V., The Quiet Sun of 1964-65 and the following solar cycle 20, an expression of long-term evolution of solar activity, *26th International Union of Geodesy and Geophysics General Assembly, Prague, the Czech Republic, 22 June – 02 July 2015*

Dobrica, V., Demetrescu, C., Long-term evolution of geomagnetic activity. An analysis of its solar and magnetospheric sources, *International Union of Geodesy and Geophysics General Assembly, Prague, the Czech Republic, 22 June – 02 July 2015*

Harangi S., Kiss B., Lukács R., Schmitt A.K., **Seghedi I.**, Novák A., Molnár K., Kis B.M., Palcsu L., Ntaflos T., Vaselli O., Szarka L., Anatomy of the late Pleistocene Ciomadul volcano (E-Carpathians, eastern-central Europe), a volcano with Potentially Active Magma Storage, *International Union of Geodesy and Geophysics General Assembly, Prague, the Czech Republic, 22 June – 02 July 2015*

Luffi P., Seghedi I., Ducea M. Subcreted oceanic crust melting beneath the Southeastern-Carpathians: evidence from garnet pyroxenite xenoliths from Quaternary basalts of the Perşani Mts., *International Union of Geodesy and Geophysics General Assembly, Prague, the Czech Republic, 22 June – 02 July 2015*

Stănică D., Stănică D.A., Electromagnetic imaging used to delineate the lithospheric geoelectrical structure and earthquake generation mechanism in Vrancea subduction

zone, *International Union of Geodesy and Geophysics General Assembly, Prague, the Czech Republic, 22 June – 02 July 2015*

Stănică D.A., Stănică D., New evidences confirming the relationships between electromagnetic precursors and intermediate depth earthquakes, Vrancea zone, *International Union of Geodesy and Geophysics General Assembly, Prague, the Czech Republic, 22 June – 02 July 2015*

Stefan, C., Demetrescu, C., Dobrica, V., On the traveling speeds of the ~80-year variation field features at the top of the core, *International Union of Geodesy and Geophysics General Assembly, Prague, the Czech Republic, 22 June – 02 July 2015*

Stefan, C., Dobrica, V., Demetrescu, C., Short-term variability of the magnetopause standoff distance, *International Union of Geodesy and Geophysics General Assembly, Prague, the Czech Republic, 22 June – 02 July 2015*

Szakács A., **Seghedi I.**, **Popa R.G.,** Integrating the volcanic facies concept with the lithostratigraphic approach to mapping ancient volcanic areas. Examples from the East Carpathians, Romania, *International Union of Geodesy and Geophysics General Assembly, Prague, the Czech Republic, 22 June – 02 July 2015*

Zlagnean, L., Besutiu, L., Seghedi, I., Atanasiu, L., Pomeran, M. - Geophysical Insights on the Deep Structure of Ciomadul Volcano through Interpretation of Potential Field data, *26th International Union of Geodesy and Geophysics General Assembly, Prague, the Czech Republic, 22 June – 02 July 2015*

Ciucu M., Hughineata D., **Chitea F.,** 2015, Physico-Chemical properties variation of Slanic Moldova Springs*, 6th International Geosciences Student Conference, Prague, the Czech Republic, 13 – 16 July 2015*

Demetrescu, C., Dobrica V., Stefan, C., Long-term evolution of the ring current as infered from geomagnetic data, *Asia Oceania Geosciences Society (AOGS) Assembly, Singapore, 02 – 07 August 2015*

Dobrica, V., Demetrescu, C., Solar Signals at Schwabe and Hale Timescales in Temperature and Precipitation as Integrated by River Discharge Data. Case Study – The Danube River Basin (Central and South-Eastern Europe), *Asia Oceania Geosciences Society (AOGS) Assembly, Singapore, 02 – 07 August 2015*

Popa D-A., Popa R-G., Andrășanu A., Connecting Man and Earth in Buzău Land Aspiring Geopark. *European Geoparks Conference 2015, Oulu, Finland, 3-6 September 2015.*

Andrășanu A., **Popa R-G.**, **Popa D-A.,** *Building the Aspiring Buzău Land Geopark: interpreting intangible heritage*. European Geoparks Conference 2015, Oulu, Finland, 3-6 September.

Popa R-G., **Popa D-A.,** Andrășanu A., *Building the Aspiring Buzău Land Geopark: philosophy, approach, funds*. European Geoparks Conference 2015, Oulu, Finland, 3-6 September.

Dobrica, V., Stefan, C., Demetrescu, C., On external signals in long time-span geomagnetic models, *MagNetE Workshop, Budapest, Hungary, 16-18 September 2015*

Greculeasa., R., Dobrica, V., Demetrescu, C., *Romanian secular variation network. Geomagnetic measurements 2013-2014, MagNetE Workshop, Budapest, Hungary, 16-18 September 2015*

Mitrofan H., Anghelache M.A., Visan M. , Chitea F.- Fluctuations in Plates-coupling Strength Suggested by Episodic Triggering of Shallow Earthquakes at the Carpathians Bend, *8th Congress of the Balkan Geophysical Society, Chania, Greece 5-8 October 2015.*

Popa R-G., **Stochici R.,** Measuring natural radiation backgrounds for natural hazard evaluation in the aspiring Buzău Land Geopark, Romania, *8th Congress of the Balkan Geophysical Society, Chania, Greece 5-8 October 2015.*

Diacopolos C., Popa R.-G., Stochici R., Application of the DC resistivity method to landslide study; case study; case study: Church Ratesti, Romania, *8th Congress of the Balkan Geophysical Society, Chania, Greece 5-8 October 2015.*

Georgescu P., **Chitea F.,** Geoelectrical Exploration of Mineral Deposits Using Gradient Array, *8th Congress of the Balkan Geophysical Society, Chania, Greece 5-8 October 2015.*

Moraru M., Mafteiu M. **-** Use Of Electrical Resistivity Tomography In The Detection Of Hydrocarbons Soil Pollution, *10th International Conference On Electromechanical And Power Systems, SIELMEN 2015, Technical University of Moldova, Chisinau, 8-9 October 2015*.

Mierla M. and SECCHI consortium, Solar sources of interplanetary coronal mass ejections during the period 2009 – 2010, *Kiepenheuer Institute for Solar Physics, Freiburg, Germany, 15 October 2015*

Mierla M., PROBA3 Science working team meeting, *ESTEC, Noordwijk, Nederlands, 4-5 November 2015*

Besliu-Ionescu, D., Mierla, M., Study of energy input into the magnetosphere during SC23 intense geomagnetic storms, *12th European Space Weather Week*, *Ostend, Belgium, 23-27 November 2015*

Mierla, M., Kilpua E., Rodriguez, L., Zhukov, A., Analysis of CMEs-ICMEs on the ascending phase of SC24, *12th European Space Weather Week, Ostend, Belgium, 23-27 November 2015*

Tarff R.W., Day S.J., Downes H., **Seghedi I.,** Cyclic explosivity in high elevation phreatomagmatic eruptions at ocean island volcanoes: implications for aquifer pressurization within dike swarms and volcano flank destabilization, *Fall American Geophysical Union meeting, december 2015.*

Anexa 7

Academia Română
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O comunicare orală prezentată la o manifestare ştiinţifică naţională în 2015

Pirloaga, R., Dobrica, V., Stefan, S., The connection between long-term variation of annual mean temperature and solar activity at mid-latitudes of Northern Hemisphere, *Bucharest University Faculty of Physics Meeting, Bucharest, Romania, 19 June 2015*

Chitea F., Barla A, Olariu A, GIS database of mineral springs Tusnad-Balvanyos Area, *Simpozionul National de Geologie si Geofizica, GEO 2015, Bucuresti, 20-21 November 2015*

Diacopolos C., Stochici R., Identifying active faults and sliding plain in natural hazard areasby using electric methods. *Simpozionul National de Geologie si Geofizica, GEO 2015, Bucuresti, 20-21 November 2015*

Fikos I., **Chitea F**., Landslides footprints on geoelectrical data – insights from two case studies, *Simpozionul National de Geologie si Geofizica, GEO 2015, Bucuresti, 20-21 November 2015*

Furnica, C.V., A Possible Connection Between the Aegean Vortex Structure and the Seismogenic Vrancea Zone, *Simpozionul National de Geologie si Geofizica, GEO 2015, Bucuresti, 20-21 November 2015*

Mitrofan H., **Visan M., Chitea F.,** Chloride groundwater discharges out of Ciomadul volcano (Romania): Possible evidence for several distinct deep-reservoirs saturated with high-temperature fluids, *Simpozionul National de Geologie si Geofizica, GEO 2015, Bucuresti, 20-21 November 2015*

Olariu A., **Chitea F**., Short time monitoring of Tusnad –Balvanyos representative mineral springs, *Simpozionul National de Geologie si Geofizica, GEO 2015, Bucuresti, 20-21 November 2015*

Stochici R., Metodological studies and interpretation of the Spectral Gamma Radiometric method in the level of natural radioactivity, *Simpozionul National de Geologie si Geofizica, GEO 2015, Bucuresti, 20-21 Noiembrie 2015*

Stochici R., Magnetoteluric Sounding conducted in Buzau County to identify deep structures, *Simpozionul National de Geologie si Geofizica, GEO 2015, Bucuresti, 20-21 November 2015*

Anexa 8

Academia Română
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Un contract extrabugetar obţinut de către institut/centru de la organizaţii internaţionale sau naţionale în 2015

Un grant câştigat de către institut/centru de la organizaţii internaţionale

Proiect GeoSust, tip parteneriat, contract 22 SEE/30.06.2014 *Applied Research for sustainable development and economic growth following the principles of geoconservation: Supporting the Buzau Land UNESCO Geopark Initiative*. Proiect SEE, Cercetare in Sectoare Prioritare, EEA Grants. **Valoare 2015: 203.597,06 euro**
Valoare totala proiect – 866.450 euro

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Contracte extrabugetare obţinute de către institut de la organizaţii naţionale

Programul IDEI UEFISCDI
Titlu proiect: " Câmpul geomagnetic sub forcingul heliosferic. Determinarea structurii interne a Pământului şi evaluarea hazardului geofizic produs de fenomene eruptive solare ", Contract 93/5.10.2011, Director de proiect: Dr.Crişan Demetrescu, membru correspondent al Academiei Române, **Valoare 2015 IGSSSAR: 132.071 lei**

PN-II-ID-PCE-2012
Titlu Proiect: „Studii integrate asupra edificiilor vulcanice post-colizionale de vârstă Miocen-Cuaternară din Carpaţii Orientali; constrângeri geologice şi geofizice (în limba engleză: Integrated study of the post-collisional Miocene-Quaternary volcanic forms in the East Carpathians using geological and geophysical constraints InstEC)", având codul PN-II-ID-PCE-2012-4-0137, **Valoare 2015 IGSSSAR: 285.815 lei**

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Anexa 9

Capacitatea de a pregăti superior tineri cercetători (doctorat) în 2015

1. Cismariu Bogdan
2. Greculeasa Răzvan Alexandru
3. Ionescu Daniela Nicoleta
4. Moraru Monica
5. Păun Rareş Dumitru
6. Pîrloagă Răzvan Gabriel
7. Popa Gabriel-Răzvan
8. Pomeran Mihai
9. Popescu Marian
10. Stochici Răsvan
11. Ştefan Cristiana
12. Văduva Ionela

In anul 2015 şi-a sustinut teza de doctorat Ştefan Cristiana

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"Sabba S.Ştefănescu"

Anexa 10

Membri în colectivele de redacţie ale revistelor ISI
2015

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

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

Membru în colectivul "European Science Foundation Pool of Reviewers" pentru perioada 01 Mai 2012 - 30 Aprilie 2015 - 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 redacţie ale revistelor recunoscute national (categoria B în clasificarea CNSIS)
2015

Membri în colectivul de redacţie al revistei

Revue Roumaine de Géophysique, Editura Academiei Române, Bucureşti:

- Dr.ing. Dorel Zugrăvescu, Membru corespondent al Academiei Române
- Dr. Crişan Demetrescu, Membru corespondent al Academiei Române
- Dr.ing. Dumitru Stanica - Romanian Geophysical Journal –BDI
- Prof.dr.ing.Paul Georgescu

Studii şi comunicări/DIS, **vol. VIII/2015** (coord.Dumitru Murariu; Ştefan Negrea, Alexandru Marinescu; Valentin Marin), Editura MEGA, Cluj.Napoca, sub auspiciile CRIFST al Academiei Române, 600 de pagini, [ISSN 1841–9220], accesibilă online [ISSN-L: 1844 – 9220], http://studii.crifst.ro/2015.php, indexată şi la baza de date: http://www.scipio.ro/web/149905
- Mirela Adriana Anghelache - Secretar de redacţie

Membru în colectivul de redactie al **Romanian Journal of Mineral Deposits** editata de IGR Bucuresti - Dr.Ioan Seghedi

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

Anexa 11

Academia Română
Institutul de Geodinamică
"Sabba S.Ştefănescu"

Cercetatori cu indice Hirsch peste 8

2015

Acad. Aureliu Săndulescu	h=27
Dr.Ioan Seghedi	h=17
Dr.Alexandru Szakacs	h=16
Dr.Crișan Demetrescu	h=9
Dr.ing.Dumitru Stănică	h=8

Academia Română
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Anexa 12

Premii ale Academiei Române

1. Premiul „Gheorghe Murgoci” – 1965 - Dr.ing.Dorel Zugrăvescu, membru corespondent al Academiei Române
2. Premiul „Gheorghe Murgoci” – 1985 - Dr.Crişan Demetrescu, membru corespondent al Academiei Române
3. Premiul "Gh. Munteanu Murgoci" – 1987 – Dr. Besutiu, L.
4. Premiul „Gheorghe Murgoci” – 1996 - Dr.ing. Dumitru Stănică, Maria Stănică
5. Premiul „Lodovic Mrazec” – 2010 - Dr.Ioan Seghedi
6. Premiul „Ştefan Hepites” – 2010 - Dr.Venera Dobrică, Georgeta Mariş
7. Premiul „Ştefan Hepites” – 2010 - Florin Munteanu
8. Premiul „Ştefan Hepites” – 2011 - Dr.Marilena Mierlă

Un premiu (distincţie) al unei societăţi ştiinţifice naţionale obţinut printr-un proces de selecţie

Zugrăvescu D., Şuţeanu C., Ioana C., Munteanu Fl., 1994, Premiul „Sabba S.Ştefănescu”, conferit de Societatea Română de Geofizică

Zugrăvescu D., 1996, Medalia AGIR

Zugrăvescu D., 1996, Meritul Ştiinţific

Munteanu Fl., **Zugrăvescu D., Şuţeanu C.,** 2000, Diplomă de Excelență în cercetare Agenția Națională pentru Știință, Tehnologie și Inovare (ANSTI)

Zugrăvescu D., 2001, Premiul „Radu Botezatu” acordat de Academia Oamenilor de Știință din România

Zugrăvescu, D., 2002, Premiul de Excelență și Diploma de Onoare, Fundația „Ion Basgan”

Stănică, D., Diploma de excelență și premiul I, pentru înaltul nivel științific și tehnologic al realizării „Tehnologie și echipament specializat destinate urmăririi câmpurilor magnetoteluric și de stress în scopul evidențierii unor parametri cu caracter precursor

cutremurelor vrâncene", MENER, CONRO 2004, acordat de Ministerul Educației și Cercetării –

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).

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

Zugrăvescu, D., 2010, The Society of Exploration Geophysicists, Premiul de Excelență în Geoștiințe

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

Zugrăvescu D., 2011, Ordinul "Pentru Merit" în grad de "Ofițer"

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

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Zugrăvescu D., 2014, Diploma „Opera Omnia" decernată de către ASTR

Un premiu (distincţie) al unei societăţi ştiinţifice internaţionale obţinut printr-un proces de selecţie

1. **Chitea F.,** Premiul „Best Pitch" Award in cadrul HEPTech Symposium "Connecting Science and Commerce", Prague, the Czech Republic, 2015
2. Premiul „Best presentation" la sectiunea de Applied Geophysics, obtinut in 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. **Ștefan C.,** „Outstanding young scientist poster" pentru posterul prezentat la Adunarea Generală a EGU *(European Geosciences Union)* 2013 și anume: Stefan 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.
4. **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 societăţi ştiinţifice naţionale/internaţionale

1. **Zugrăvescu, D.,** 1987, Doctor în Știință, Societatea Internațională de Medicină Alternativă, SUA
2. **Zugrăvescu, D.**, 1995, membru titular al Academiei Naţionale de Ştiinţe Ecologice – Republica Moldova
3. **Zugrăvescu, D.**, 1996, membru titular al Academiei de Ştiinţe şi Arte din Chişinău – Republica Moldova
4. **Zugrăvescu, D.**, 1997, membru de onoare al Asociației Generale a Inginerilor din România (AGIR)
5. **Zugrăvescu, D.**, 2001, Doctor Honoris Causa al Universității din Petroșani
6. **Zugrăvescu, D.,** 2006, membru fondator și membru titular al Academiei Germano-Române – Germania
7. **Zugrăvescu, D.,** 2010, Membru titular din străinătate al Academiei Ruse de Ştiinţe Naturale