

## INFORMAȚII PERSONALE



## Radulian Mircea

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Sexul Masculin | Data nașterii 19/03/1954 | Naționalitatea Romana

LOCUL DE MUNCA  
POZIȚIA

Institutul Național de Cercetare-Dezvoltare pentru Fizica Pamantului (INCDFP) - Cercetător științific gr. 1, Președintele Consiliului Științific

## EXPERIENȚA PROFESIONALĂ

Seismologie, seismicitate, sursa seismică, hazard, risc, microzonare, atenuarea undelor seismice

1979 – 2015 Fizician la INCDFP – cercetare seismologie

1992 – 1994 Sef de laborator – seismologie

1996- 2019 Președinte Consiliu Științific INCDFP – organizare și conducere activitate de cercetare

2000 - 2019 Director științific INCDFP – management cercetare științifică

## EDUCAȚIE ȘI FORMARE

2004 Universitatea Evanston și Universitatea Columbia, Carolina de Sud, SUA

2003 Institutul de Geofizică ETH, Zurich, Elveția

1996, 1999, 2002 Institutul de Geofizică, Karlsruhe, Germania

1999 Doctorat, specialitatea Fizica Pământului și a Atmosferei, IFA, Măgurele

1993, 1994, 1995 Institutul de Geodezie și Geofizică, Universitatea Trieste, Italia

1993 Centrul Internațional de Fizică Teoretică, Trieste, Italia

1991 Institutul de Fizică Globului, Paris, Franța

1984 Institutul de Fizică Pământului, Moscova, URSS

1979 Facultatea de Fizică, Univ. București, masterat, Fizică Pământului

1978 Facultatea de Fizică, Univ. București, lucrare specializare Fizică Pământului

Specializări în Fizică Pământului, Seismologie, Sursa seismică, Hazard seismic

## COMPETENTE PERSONALE

Limba maternă

Romana

Alte limbi străine cunoscute

	INTELEGERE		VORBIRE		SCRIERE
	Ascultare	Citire	Participare la conversație	Discurs oral	
Engleza	F. bine	F. bine	F. bine	F. bine	F. bine
Franceza	F. bine	F. bine	Bine	Bine	Bine

### Competențe de comunicare

- bune competențe de comunicare dobândite prin experiența proprie în predare sistem învățământ
- supervizare și instruire activități de cercetare ale tinerilor cercetători
- diseminare la conferințe, reuniuni, școli de vară
- diseminare în cadrul mass-media

### Competențe organizaționale/manageriale

- responsabil proiecte internaționale
- responsabil proiecte naționale
- conducere științifică a institutului (1996 până în prezent)
- contribuții la elaborarea strategiei institutului și la nivel național în domeniului fizicii
- evaluare proiecte naționale și internaționale (FP6, FP7, NATO, CONCERT, COST)
- expert din partea României în Comitetul Științific COST
- membru titular al Comisiei Europene de Seismologie
- membru în Board of National Scientific Representatives – proiect EPOS
- reprezentant în Consiliul Științific al proiectului AlpArray
- conducere lucrări de doctorat
- organizare conferințe/reuniuni/simpozioane/mese rotunde/standuri expoziționale

## INFORMATII SUPLIMENTARE

- Publicații** 263 lucrări publicate (170 în reviste cu referenți, 110 articole în reviste cotate ISI)  
2265 citări (fără autocitări)  
h-index 23 ([www.webofknowledge.com](http://www.webofknowledge.com)) 32 (Google Scholar)
- Proiecte** Director in 20 proiecte internationale (NATO, UNESCO, SCOPES, ILP, CEI, FP5, FP6, FP7), 22 proiecte nationale, 7 proiecte bilaterale.
- Conferințe** Peste 250 prezentari la conferinte/reuniuni/simpozioane/seminarii naționale și internaționale
- Distincții** Lecții invitate, convener, editor volume speciale  
Ordinul național "Pentru Merit", 01.12.2000  
Premiul Stefan Hepites al Academiei Române, 18.12.2002  
Premiul Ministerului Educației și Cercetării la Expoziția Națională "Conceput în România", 7-14 octombrie 2014, București  
Premiul 'Constantin Miculescu' al Academiei Române (13.12.2019)  
Diploma de onoare și medalia IFA (31 ianuarie 2020)
- Afilieri** Membru corespondent al Academiei Romane  
Membru titular al Academiei Oamenilor de Stiință  
Membru al Societății Române de Fizică  
Membru al Societății Europene de Fizică  
Membru al American Geophysical Union  
Membru al American Seismological Society  
Membru titular al Comisiei Europene de Seismologie  
Membru în Comitetului Național de Geodezie și Geofizică
- Referințe** Prof. E. Kissling, Institute of Geophysics – ETH ([kiss@tomo.ig.erdw.ethz.ch](mailto:kiss@tomo.ig.erdw.ethz.ch)), Prof. G.F. Panza, Univ. Trieste ([panza@dst.units.it](mailto:panza@dst.units.it)); Prof. G. Papadopoulos ([g.papad@gein.noa.gr](mailto:g.papad@gein.noa.gr)); Dr. C.I. Trifu ([trifu@esg.ca](mailto:trifu@esg.ca)), Prof. F. Wenzel ([Friedemann.Wenzel@gpi.uni-karlsruhe.de](mailto:Friedemann.Wenzel@gpi.uni-karlsruhe.de)); Prof. D. Giardini ([d.giardini@sed.ethz.ch](mailto:d.giardini@sed.ethz.ch)); Prof. J. Knapp ([knapp@geol.sc.edu](mailto:knapp@geol.sc.edu)); Prof. R. Madariaga ([madariag@dorrite.ens.fr](mailto:madariag@dorrite.ens.fr)); Dr. A. Ismail-Zadeh ([Alik.Ismail-Zadeh@kit.edu](mailto:Alik.Ismail-Zadeh@kit.edu)); Prof. S. Cloetingh ([sierd.cloetingh@uu.nl](mailto:sierd.cloetingh@uu.nl))

Data: 16 aprilie 2024

Dr. Mircea Radulian



## List of ISI publications

1. **Radulian, M.**, Trifu, C.I., Scaling relationships for the near - field P-SV ground motion, *Pure and Applied Geophysics* 125, 19-40, 1987.
2. Trifu, C.I., **Radulian, M.**, Predicted near-field ground motion for stress-drop models, *Pure and Applied Geophysics* 123, 173-198, 1985.
3. Trifu, C.I., **Radulian, M.**, Asperity distribution and percolation as fundamentals of earthquake cycle, *Phys. Earth Planet. Interiors* 58, 277-288, 1989.
4. Novikova O.V., Vorobieva I.A., Enescu D., **Radulian M.**, Kuznetsov I., Panza G.F., Prediction of strong earthquakes in Vrancea, Romania, using CN algorithm, *Pure and Applied Geophysics* 145, 277-296, 1995.
5. **Radulian, M.**, Trifu, C.I., Carbanar, F.O., Numerical simulation of earthquake generation process, *Pure and Applied Geophysics* 136, 499-514, 1991.
6. **Radulian, M.**, Trifu, C.I., Would it have been possible to predict the August 30, 1986 Vrancea earthquake?, *Bull. Soc. Seism. Am.* 81, 2498-2503, 1991.
7. Trifu C.I., **Radulian, M.**, Frequency - magnitude distribution of earthquakes in Vrancea: relevance for a discrete model, *J. Geophys. Res.* 96, 4301-4311, 1991.
8. Enescu D., Popescu E., **Radulian M.**, Source characteristics of the Sinaia (Romania) sequence of May-June 1993, *Tectonophysics* 261, 39-49, 1996.
9. **Radulian M.**, Popa M., Scaling of the source parameters for the Vrancea intermediate depth earthquakes, *Tectonophysics* 261, 67-81, 1996.
10. **Radulian M.**, Ardeleanu L., Campus P., Sileny J., Panza G.F., Waveform inversion of weak Vrancea (Romania) earthquakes, *Studia geoph. et geod.*, 40, 367-380, 1996.
11. Bazacliu O., **Radulian M.**, Seismicity variations in depth and time in the Vrancea (Romania) subcrustal region, *Natural Hazards* 19, 165-177, 1999.
12. Panza G.F., **Radulian M.**, Trifu, C.-I., Preface, in "Seismic Hazard of the Circum-Pannonian Region", eds. G. F. Panza, M. Radulian, C.-I. Trifu, *Pure and Applied Geophysics* 157, 1-4, 2000.
13. Popa M., **Radulian M.**, Test of the empirical Green's function deconvolution on Vrancea (Romania) subcrustal earthquakes, *Studia geoph. et geod.* 44, 403-429, 2000.
14. **Radulian M.**, Mandrescu N., Panza G. F., Popescu E., Utale A., Characterization of Romanian seismogenic zones, in "Seismic Hazard of the Circum-Pannonian Region", eds. G. F. Panza, M. Radulian, C.-I. Trifu, *Pure and Applied Geophysics* 157, 57-77, 2000.
15. **Radulian M.**, Vaccari F., Mandrescu N., Panza G. F., Moldoveanu C., Seismic hazard of Romania: A deterministic approach, in "Seismic Hazard of the Circum-Pannonian Region", eds. G. F. Panza, M. Radulian, C.-I. Trifu, *Pure and Applied Geophysics* 157, 221-247, 2000.
16. Popescu E., **Radulian M.**, Source characteristics of the seismic sequences in the Eastern Carpathians foredeep region (Romania), *Tectonophysics* 338, 325-337, 2001.
17. Gusev A., **Radulian M.**, Rizescu M., Panza G.F., Source scaling for the intermediate-depth Vrancea earthquakes, *Geophys. Int. J.* 151, 879-889, 2002.
18. Panza G.F., Cioflan C.O., Marmureanu G., Apostol B.F., **Radulian M.** et al., Realistic modeling of seismic input for megacities and large urban areas (the UNESCO/IUGS/IGCP project 414), *Episodes* 25, 160-184, 2002.
19. Bălă A., **Radulian M.**, Popescu E., Earthquakes distribution and their focal mechanism in correlation with the active tectonic zones of Romania, *Journal of Geodynamics* 36, 129-145, 2003.
20. Moldoveanu C.L., **Radulian M.**, Marmureanu G., Panza G.F., Microzonation of Bucharest: State of the art in "Seismic Ground Motion in Large Urban Areas", eds. G. F. Panza, C. Nunziata, I. Paskaleva, *Pure and Applied Geophysics* 161, 1125-1147, 2004.
21. Ardeleanu L., **Radulian M.**, Sileny J., Panza G.F., Source parameters of weak crustal earthquakes of the Vrancea region from short-period waveform inversion, *Pure and Applied Geophysics* 162, 495-513, 2005.
22. Enescu B., Ito K., **Radulian M.**, Popescu E., Bazacliu O., Multifractal and chaotic analysis of Vrancea (Romania) intermediate-depth earthquakes - Investigation of the temporal distribution of events, *Pure and Applied Geophysics* 162, 249-275, 2005.
23. Popa M., **Radulian M.**, Grecu B., Popescu E., Placinta A.O., Attenuation in Southeastern Carpathians area: Result of upper mantle inhomogeneity, *Tectonophysics* 410, 235-249, 2005.
24. Russo R.M., Mocanu V., **Radulian M.**, Popa M., Bonjer K.-P., Seismic attenuation in the Carpathian bend zone and surroundings, *Earth and Planetary Science Letters* 237, 695-709, 2005.
25. Bartlakowski, J., F. Wenzel, **M. Radulian**, J. R. R. Ritter, and W. Wirth, Urban shakemap methodology for Bucharest, *Geophys. Res. Lett.*, 33, L14310, 2006.
26. **Radulian M.**, Panza G.F., Popa M., Grecu B., Seismic wave attenuation of Vrancea events revisited, *J. Earthquake Engineering* 10, 411-427, 2006.

27. Grecu B., Radulian M., Mandrescu N., Panza G. F., H/V spectral ratios technique application in the city of Bucharest: can we get rid of source effect?, *Journal of Seismology and Earthquake Engineering*, vol. 9, 1-14, 2007.
28. Mândrescu N., **Radulian M.**, Mărmureanu G., B. Grecu, Large Vrancea intermediate depth earthquakes and seismic microzonation of Bucharest urban area, *Rom. Journ. Phys.* 52, 159-169, 2007.
29. Mândrescu N., **Radulian M.**, Mărmureanu G., Geological, geophysical and seismological criteria for local response evaluation in Bucharest urban area, *Soil Dynamics and Earthquake Engineering* 27, 367-393, 2007.
30. Popescu E., **Radulian M.**, Popa M., Plăcintă A.O., Ghica D., Moldovan I.A., Vrancea seismic source calibration using a small-aperture array, *Romanian Reports in Physics*, 59, 127-142, 2007.
31. Oth A., Wenzel F., **Radulian M.**, Source parameters of intermediate-depth Vrancea (Romania) earthquakes from empirical Green's functions modeling, *Tectonophysics* 438, 33-56, 2007.
32. Borleanu F., Popa M., Grecu B., **Radulian M.**, Azimuth and slowness corrections at BURAR array estimated from regional events occurred in the Mediterranean area, *Romanian Reports in Physics* 60, 1137-1149, 2008.
33. Borleanu, F., Rogozea, M., Ghica, D., Popescu, E., Popa, M., **Radulian M.**, Romanian earthquakes analysis using BURAR seismic array, *Romanian Reports in Physics* 60, 145-155, 2008.
34. Borleanu F., Popa M., **Radulian M.**, Panaiotu C., Evidence of strong lateral inhomogeneous structure beneath SE Carpathians and specific mantle flow patterns, *Acta Geodaetica et Geophysica Hungarica* 43, 119-130, 2008.
35. Hurukawa N., Popa M., **Radulian M.**, Relocation of large intermediate-depth earthquakes in the Vrancea region, Romania, since 1934 and a seismic gap, *Earth Planets Space* 60, 565-572, TerraPub, Tokyo, 2008.
36. Panza G.F., Kouteva M., Vaccari F., Peresan A., Cioflan C.O., Romanelli F., Paskaleva I., **Radulian M.**, Gribovszki K., Herak M., Zaichenco A., Marmureanu G., Varga P., Zivcic M., Recent achievements of the neo-deterministic seismic hazard assessment in the CEI region, Proc. 2008 Seismic Engineering Conference Commemorating the 1908 Messina and Reggio Calabria Earthquake (eds. Santini A. and Moraci N.), Amer. Inst. Physics, Melville, USA, 2008.
37. Popa M., **Radulian M.**, Panaiotu C., Borleanu F., Lithosphere-asthenosphere interaction at the Southeastern Carpathian Arc bend: Implications for anisotropy, *Tectonophysics*, 462, 83-88, 2008.
38. **Radulian M.**, Popa M., Cărbunar O.F., Rogozea M., Seismicity patterns in Vrancea and predictive features, *Acta Geodaetica et Geophysica Hungarica* 43, 163-173, 2008.
39. Sokolov V., Bonjer K.-P., Wenzel F., Grecu B., **Radulian M.**, Ground-motion prediction equations for the intermediate depth Vrancea (Romania) earthquake, *Bull. Earth. Engineering* 6, 367-388, Springer Netherlands, 2008.
40. Zaharia B., **Radulian M.**, Popa M., Grecu B., Tătaru D., The estimation of the local response in Bucharest using Nakamura method, *Romanian Reports in Physics*, 60, 125-134, 2008.
41. Rogozea M., Popa M., **Radulian M.**, Detailed seismicity analysis in the Vrancea area and implications for the seismic cycle evolution, *Romanian Reports in Physics* 61, No. 3, 740-747, 2009.
42. Tugui A., Craiu M., Rogozea M., Popa M., **Radulian M.**, Seismotectonics of Vrancea (Romania) zone: the case of crustal seismicity in the foredeep area, *Romanian Reports in Physics* 61, 325-334, 2009.
43. Zaharia B., Enescu B., **Radulian M.**, Popa M., Koulakov I., Parolai S., Determination of the lithospheric structure from Carpathians arc bend using local data, *Romanian Reports in Physics* 61, No. 4, 748-764, 2009.
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45. Koulakov, I., Zaharia, B., Enescu, B., **Radulian, M.**, Popa, M., Parolai, S., and J. Zschau, Delamination or slab detachment beneath Vrancea? New arguments from local earthquake tomography, *Geochem. Geophys. Geosyst.* (G3), 11, 3, Q03002, doi:10.1029/2009GC002811, 2010.
46. Neagoe C., Popa M., Diaconescu M., **Radulian M.**, Possible deep lithospheric roots beneath South-Eastern Carpathians back-arc region, *Acta Geodaetica et Geophysica Hungarica*, 45, 340-355, doi: 10.1556/Ageod.45.2010.3.8, 2010.
47. Borleanu F., Popa M., **Radulian M.**, Schweitzer J., Slowness and azimuth determination for Bucovina array (BURAR) applying multiple signal techniques, *Journal of Seismology*, DOI 10.1007/s10950-011-9228-9, 2011.
48. Cărbunar O. F., **Radulian M.**, Geometrical constraints for the configuration of the Vrancea (Romania) intermediate-depth seismicity nest, *Journal of Seismology*, 15, 579-598, 2011.
49. Popescu E., Neagoe C., Rogozea M., Moldovan I. A., Borleanu F., **Radulian M.**, Source parameters for the earthquake sequence occurred in the Ramnicu Sarat area (Romania) in November-December 2007, *Rom. Journ. Phys.* 56, 265-278, 2011.
50. Craiu M., Craiu A., Ionescu C., Popa M., **Radulian M.**, New local magnitude calibration for Vrancea (Romania) intermediate-depth earthquakes, *Romanian Reports in Physics*, 64, 1097-1108, 2012.
51. Ismail-Zadeh A., Maţenco L., **Radulian M.**, Cloetingh S., Panza G. F., Geodynamics and intermediate-depth seismicity in Vrancea (The South-Eastern Carpathians): Current state-of-the art, *Tectonophysics*, 530-531, 50-79, 2012.
52. Muco B., Alexiev G., Alijaš S., Elezi Z., Grecu B., Mandrescu N., Milutinovic Z., **Radulian M.**, Rangelov B., Shkupi D., Geohazards assessment and mapping of some Balkan countries, *Nat Hazards*, DOI 10.1007/s11069-012-0185-6, 2012.
53. Popa M., **Radulian M.**, Szakács A., Seghedi I., Zaharia B., New seismic and tomography data in the southern part of the Harghita Mountains (Romania, south-eastern Carpathians): connection with recent volcanic activity, *Pure and Applied Geophysics*, 169, 1557-1573, 2012.

54. Popescu E., Borleanu F., Rogozea M., **Radulian M.**, Source analysis for earthquake sequence occurred in Vrancea (Romania) region on 6 to 30 September 2008, *Romanian Report Phys.*, vol. 64, No. 2, 2012.
55. Stucchi M., Rovida A., Gomez Capera A.A., Alexandre P., Camelbeeck T., Demircioglu M.B., Kouskouna V., Gasperini P., Musson R.M.W., **Radulian M.**, Sesetyan K., Vilanova S., Baumont D., Faeh D., Lenhardt W., Martinez Solares J.M., Scotti O., Zivcic M., Albin P., Batllo J., Papaioannou C., Tatevossian R., Locati M., Meletti C., Viganò D. Giardini D., The SHARE European Earthquake Catalogue (SHEEC) 1000-1899, *J. of Seismology*, DOI 10.1007/s10950-012-9335-2, 2012.
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58. Rogozea M., **Radulian M.**, Mărmureanu G., Mândrescu N., Paulescu D., Large and moderate historical earthquakes of 15<sup>th</sup> and 16<sup>th</sup> centuries in Romania reconsidered, *Romanian Report Phys.*, 65 (2), 545-562, 2013.
59. **Radulian M.**, Popescu E., Borleanu F., Diaconescu M., Source parameters of the December 2011 - January 2012 earthquake sequence in Southern Carpathians, Romania, *Tectonophysics*, 623, 23-38, 2014.
60. Rogozea M., Mărmureanu G., **Radulian M.**, Toma D., Reevaluation of the macroseismic effects of the January 23, 1838 Vrancea earthquake, *Romanian Reports in Physics*, 66(2), 520-538, 2014.
61. Pavel F., Văcăreanu R., **Radulian M.**, Cioflan C. O., Investigation on directional effects of Vrancea subcrustal earthquakes, *Earthq Eng & Eng Vib.*, 14, 399-410, 2015.
62. Stancu I., Ghica D., **Radulian M.**, Ionescu C., Identification of near quarry blasts using Plostina infrasound array - case study for Dobrogea (South-East Romania), *Romanian Reports in Physics* 67(3), 1192-1205, 2015.
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64. **Aldea A., Radulian M.**, Overview of Part I, in “Effects and Lessons from November 10th, 1940 Vrancea Earthquake” Proceedings of the Symposium Commemorating 75 Years from November 10, 1940 Vrancea Earthquake (eds. **R. Vacareanu, C. Ionescu**), Springer Natural Hazards, ISBN: 978-3-319-29843-6 (Print) 978-3-319-29844-3 (Online), 3 – 17, 2016.
65. **Borleanu F., Grecu B., Popa M., Radulian M.**, Use of various discrimination techniques to separate small magnitude events occurred in the northern part of Romania, in “Effects and Lessons from November 10th, 1940 Vrancea Earthquake” Proceedings of the Symposium Commemorating 75 Years from November 10, 1940 Vrancea Earthquake (eds. **R. Vacareanu, C. Ionescu**), Springer Natural Hazards, 135 – 150, 2016.
66. Constantin A., Moldovan I. A., Craiu A., **Radulian M.**, Constantin I., Macroseismic intensity investigation of the November, 2014 M=5.7 Vrancea crustal earthquake, *Annals of Geophysics*, 59 (2), S0542; doi:10.4401/ag-6998, 2016.
67. Ghica D., Grecu B., Popa M., Radulian M., Identification of blasting sources in the Dobrogea region, Romania, using seismo-acoustic signals, Physics and Chemistry of the Earth, Parts A/B/C 05/2016, DOI: 10.1016/j.pce.2016.04.006, 2016.
68. Manea E. F., Michel C., Poggi V., Fähr D., Radulian M., Bălan F. S., Improving the shear wave velocity structure beneath Bucharest (Romania) using ambient vibrations. *Geophysical Journal International*, 848-861, 2016.
69. Moldovan I.A., Diaconescu M., Popescu E., **Radulian M.**, Toma-Dănilă D., Constantin A.P., Plăcintă A.O., Input parameters for the probabilistic seismic hazard assessment in the eastern part of Romania and Black sea area, *Rom. Journ. Phys.*, 61 (7-8), 1412-1425, 2016.
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71. Pavel F., Văcăreanu R., Douglas J., **Radulian M.**, Cioflan C., Barbat A., An updated probabilistic seismic hazard assessment for Romania and comparison with the approach and outcomes of the SHARE project, *Pure and Applied Geophysics*, 173 (6), 1881 – 1905, 2016.
72. Plăcintă A.O., Popescu E., Borleanu F., **Radulian M.**, Popa M., Analysis of source properties for the earthquake sequences in the South-Western Carpathians (Romania), *Romanian Reports in Physics*, 68 (3), 1240–1258, 2016.
73. Popa M., **Oros E., Dinu C., Radulian M., Borleanu F., Rogozea M., Munteanu I., Neagoe C.,** The 2013 earthquake swarm in the Galati area: First results for a seismotectonic interpretation, in “Effects and Lessons from November 10th, 1940 Vrancea Earthquake” Proceedings of the Symposium Commemorating 75 Years from November 10, 1940 Vrancea Earthquake (eds. **R. Vacareanu, C. Ionescu**), Springer Natural Hazards, 253 – 265, 2016.
74. **Popescu E., Radulian M., Placinta A. O.,** Scaling properties for the Vrancea subcrustal earthquakes: An overview, in “Effects and Lessons from November 10th, 1940 Vrancea Earthquake” Proceedings of the Symposium Commemorating 75 Years from November 10, 1940 Vrancea Earthquake (eds. **R. Vacareanu, C. Ionescu**), Springer Natural Hazards, 235 – 252, 2016.
75. Rogozea M., **Radulian M., Popa M., Paulescu D. N., Oros E., Neagoe C.,** Comparison of three major historical earthquakes with three recent earthquakes, in “Effects and Lessons from November 10th, 1940 Vrancea Earthquake” Proceedings of the Symposium Commemorating 75 Years from November 10, 1940 Vrancea Earthquake (eds. **R. Vacareanu, C. Ionescu**), Springer Natural Hazards, 267 – 283, 2016.

76. Stancu I., Ghica D., **Radulian M.**, Detecting accidental chemical explosions using the seismo-acoustic network of Ploștina, Romania, *Romanian Reports in Physics*, 68, no. 2, 2016.
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78. Borleanu F., De Siena L., Thomas C., Popa M., **Radulian M.**, Seismic scattering and absorption mapping from intermediate-depth earthquakes reveals complex tectonic interactions acting in the Vrancea region and surroundings (Romania), *Tectonophysics* 706–707 (5), 129-142, 2017.
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