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*Education:*  
Academic degree: MSc, University of Bucharest - Faculty of Physics  
Period of study: from 1974 to 1979  
PhD degree in physics of the Earth at the Institute for Atomic Physics, Bucharest (Romania), 28.02.1999

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**PROFESSIONAL POSITIONS:**

1979 – 1993	Researcher, NIEP
1990 – 1994	Scientific Secretary, NIEP
1992 – 1994	Head of seismological laboratory, NIEP
1996 – 2000 and	
2002 - present	President of the Scientific Council, NIEP
2000 – present	Scientific Director, NIEP

**TEACHING:** Seismology, Seismic source, Seismic Hazard, Faculty of Physics, Bucharest

**INTERNATIONAL TRAINING AND STUDY VISITS: 1984:** UNESCO training course in seismology, Moscow, Russia; 1991: research stage, Institut de Physique du Globe, Paris, France; 1993: GO WEST fellow, ICTP, Trieste, Italy; 1993: Scholarship granting, Institute of Geodesy and Geophysics, University of Trieste, Italy; 1994, 1995, 1996: Visiting scientist at ICTP, Trieste, Italy; 1999, 2002, 2004: Visiting scientist at University of Karlsruhe, Germany; 2004: Visiting scientist at Evanston and Columbia (South Carolina University), USA.

**MAIN RESEARCH ACTIVITIES:** Seismology: Seismicity of Romania, Seismic source, Earthquake Hazard and Risk, Microzonation, Attenuation of seismic waves.

**INTERNATIONAL PROJECTS:**

**Principal investigator for the projects**

1. "Earthquake Hazard Associated to the Vrancea Region", NATO Linkage grant SA. 12-2-02 (ENVIRLG. 931206), 1993-1995.
2. "Quantitative seismic zoning of the Circum-Pannonian region", European Community project (COPERNICUS) ERBCIPACT940238, 1995-1998.
3. "Three-Dimensional Modelling of the Earth's Lithosphere and Asthenosphere", ICL/ILP Project, Task Group II-4, 1993-1996.
4. "Microzonation of Bucharest, Russe and Varna in connection with Vrancea earthquakes", NATO Linkage grant SA. 12-2-02 (ENVIRLG. 960916), 1996-1998.

5. "Realistic modelling of seismic input for megacities and large urban areas", Project UNESCO-IGCP 414, 1997-2002.
6. "Impact of Vrancea Earthquakes on the Security of Bucharest and other Adjacent Urban Areas (Ground Motion Modelling and Intermediate-Term Prediction)", NATO Science for Peace Project SFP 972266, 1999-2003.
7. "Seismic Tomography of the Carpathian Arc", bilateral program "Strong Earthquakes: a Challenge for Geosciences and Civil Engineering" with the Collaborative Research Center 461 of University of Karlsruhe (Germany), 1998-2004.
8. "Seismic safety of urban areas: ground motion modelling and intermediate-term earthquake prediction", UNESCO-UVO-ROSTE 875.669.9 contract, 1999-2004.
9. "CALIXTO - Seismic Tomography in the Vrancea Region, Romania", SCOPES Project nr. 7SUPJ062404, 2000-2003.
10. "Structure of the Earth's lithosphere beneath Vrancea area, Romania, from seismic-refraction investigation and tomography inversion", NATO Collaborative Linkage Grant SA (EST.CLG.978848).
11. "Novel Optical Devices and Techniques for Seismic Activity Detection and Measurement", European Commission, contract no. ECG1-CT-2002-00062, 2002-2005.
12. "Seismic Attenuation and Anisotropy in the Carpathians and Adjacent Basins: Upper Mantle Role in the Last Stages of Tethyan Closure", National Scientific Foundation, Project EAR-0230336, Univ. North Caroline, USA, 2004-2006.

#### REVIEWING

##### - Guest editor

Special volume of the Pure and Applied Geophysics "Seismic Hazard in the Circum-Pannonian region", 1999. Editors: G. F. Panza, M. Radulian, C.-I. Trifu

##### - Reviewer

Rev. Roum Geophysics  
Romanian Journal of Physics

##### - Papers reviewed for:

Geophysical Journal International  
Cahiers du Centre Européen de Géodynamique et de Séismologie  
Journal of Seismology  
Pure and Applied Geophysics  
Tectonophysics

#### MEMBERSHIP IN PROFESSIONAL SOCIETIES:

Romanian Society of Physics - since 1995;  
European Society of Physics - since 1998;  
European Geophysical Union – since 2003;  
American Geophysical Union – since 2006;  
American Seismological Society – since 2007  
European Association for the Promotion of Science and Technology (Euroscience) - since 1998;  
Romanian National Committee of Geodesy and Geophysics - since 1999;  
Titular member of Romania in the European Seismological Commission (since 2000)

#### PUBLICATIONS:

126 papers: 87 in refereed journals (42 international journals) and 39 in Proceedings.

#### LIST OF PUBLICATIONS:

1. **Radulian, M.**, Seismic hazard computation for Vrancea earthquakes, St. Cerc. Fiz. 33, 787-795, 1981 (in Romanian).
2. **Radulian, M.**, Seismic risk determination for Vrancea intermediate earthquakes, Proc. of the 2nd International Symposium on the Analysis of Seismicity and on Seismic Hazard, Liblice, Czech Republic, May 18-23, 1981, II, 545-552, Prague, 1981.
3. **Radulian, M.**, Trifu, C.-I., Wave equation solution in a homogeneous halfspace by the finite difference method for two-dimensional dynamic seismic source models, Rev. Roum. Phys. 28, 919-931, 1983.

4. Trifu, C.I., **Radulian, M.**, Synthetic near-field ground motion for an antiplane stress-drop model, *Rev. Roum., Sci. Techn. Mec. Appl.* 511-522, 1985.
5. Trifu, C.I., **Radulian, M.**, Predicted near-field ground motion for stress-drop models, *Pure and Applied Geophysics* 123, 173-198, 1985.
6. Trifu, C.I., **Radulian, M.**, Scaling laws of the near-field SH ground motion, *Acta geophysica Polonica* 3, 185-199, 1986.
7. **Radulian, M.**, Trifu, C.I., Scaling relationships for the near - field P-SV ground motion, *Pure and Applied Geophysics* 125, 19-40, 1987.
8. Trifu, C.I., **Radulian, M.**, Asperity distribution and percolation as fundamentals of earthquake cycle, *Phys. Earth Planet. Interiors* 58, 277-288, 1989.
9. Trifu, C.I., **Radulian, M.**, Popescu, E., Characteristics of intermediate depth microseismicity in Vrancea region, *Rev. de Geofísica* 46, 75-82, 1990.
10. Trifu C.I., **Radulian, M.**, Frequency - magnitude distribution of earthquakes in Vrancea: relevance for a discrete model, *J. Geophys. Res.* 96, 4301-4311, 1991.
11. **Radulian, M.**, Trifu, C.I., Carbutar, F.O., Numerical simulation of earthquake generation process, *Pure and Applied Geophysics* 136, 499-514, 1991.
12. **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.
13. Trifu C-I., **Radulian M.**, A depth-magnitude catalogue of Vrancea intermediate depth microearthquakes (1974-1991), *Rev. Roum. Geol. Geophys. Geogr., Ser. Geophys.* 35, 31-45, 1991.
14. Jianu D., **Radulian M.**, Seismic hazard estimation in the central part of Romania, *Proc. of the XXIIInd ESC Gen.Ass., Barcelona, 1990, Vol. 1, 579-584, 1992.*
15. Trifu, C.I., Deschamps, A., **Radulian, M.**, Lyon-Caen, H., The Vrancea earthquake of May 30, 1990: An estimate of the source parameters, *Proc. of the XXIIInd ESC Gen. Ass., Barcelona, 1990, Vol. 1, 449-454, 1992.*
16. Bazacliu O., Oancea V., Popescu E., **Radulian M.**, Trifu C.-I., Local magnitude calibration by coda wave amplitudes, *Proc. XXIIIrd Gen. Ass. ESC, 7-12 September 1992, Prague, 182-184, 1993.*
17. Popescu E., Bazacliu O., **Radulian M.**, The earthquake sequence of Ramnicu Sarat (Romania), 31 August - 1 September 1991, *Proc. XXIIIrd Gen. Ass. ESC, 7-12 September 1992, Praga, 86-89, 1993.*
18. Popescu E., **Radulian M.**, Bazacliu O., Source characteristics of the crustal micro-earthquakes in the vicinity of Vrancea station, *Rev. Roum. Geophysique* 37, 41-50, 1993.
19. **Radulian M.**, Popa M., Relative methods to set out the seismic source parameters, *Rev. Roum. Geophysique* 37, 29-40, 1993.
20. **Radulian M.**, Popa M., Scaling of the parameters of the Vrancea subcrustal seismic source, *Proc. of XXIV General Assembly of the European Seismological Commission, Athens, p. 846-848, 1994.*
21. **Radulian M.**, Popa M., Analysis of the space, time and energy distribution of Vrancea earthquakes, *The Second Workshop of Statistical Models and Methods in Seismology. Application on Prevention and Forecasting of Earthquakes, Cephalonia, 2-5 June 1993, 145-157, 1994.*
22. Trifu C-I., **Radulian M.**, Dynamics of a seismic regime: Vrancea- a case history, in "Nonlinear Dynamics and Predictability of Geophysical Phenomena", *Geophysical Monograph* 83, IUUG vol. 18, eds. A.M. Gabrielov and W.I.Newman, AGU, Washington D.C., 43-53, 1994.
23. **Radulian M.**, Popescu E., Bazacliu O., A statistical analysis of the heterogeneity of the generation of the earthquake sequences in the Vrancea crust, *Rom. Journ. Phys.* 39, 343-351, 1994.
24. Schwab F., Mehlman R., Frez J., Acosta Chang J., Carlos J., **Radulian M.**, Ardeleanu L., Three-dimensional mapping of the earth's lithosphere and asthenosphere: project coverage of the earth, design of structural database, method of construction, successive improvements and evolution of results, and timetable and form for distribution of results, *Proc. International Lithosphere Program Task Group II-4, Vol. 1: "Three-Dimensional Mapping of the Lithosphere and Asthenosphere", cap.2, 1-9, J.Sommers ed., Univ. of California, Los Angeles, 1994.*
25. **Radulian M.**, Popa M. (1995). Analysis of the space, time and energy distribution of Vrancea earthquakes, *Romanian Journal of Physics* 40, 113-122.
26. Ivan I-A., Mandrescu N., **Radulian M.**, Ivan C., The influence of the local geological conditions on the seismic wave spectra in various sites from Romanian Plain, *Proc. IIIrd National Earthquake Engineering Conference, 27-31 March 1995, Istanbul Technical University, 625-634, 1995.*

27. 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.
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29. **Radulian M.**, Ardeleanu L., Campus P., Sileny J., Panza G.F., Size determination of weak Vrancea (Romanian) earthquakes, *Proc. of the Symposium "Seismicity of the Carpatho-Balkan Region"*, Athens, Sept. 17-20, 1995, 63-68, 1996.
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33. Enescu D., Popescu E., **Radulian M.**, Source characteristics of the Sinaia (Romania) sequence of May-June 1993, *Tectonophysics* 261, 39-49, 1996.
34. Enescu D., Popescu E., **Radulian M.**, Some parameters and scaling relations for Sinaia (Romania) earthquakes sequence of May - June, 1993, *Rom. Journ. Phys.* 41, 3-4, 321-330, 1996.
35. Popescu E., **Radulian M.**, Bazacliu O., Crustal microearthquake sequences in the vicinity of the Vrâncioaia station (Romania), *Proc. XXIVth Gen. Ass. ESC*, Athens, Sept. 1994, II, 868-877, 1996.
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37. Vorobieva I.A., Novikova O.V., Kuznetsov I.V., Enescu D., **Radulian M.**, Panza G.F., Intermediate-term earthquake prediction for the Vrancea region: analysis of new data, *Computational Seismology* 28, 83-99, 1996 (in Russian).
38. Bazacliu O., Popescu E., **M. Radulian**, Correlation between crustal and subcrustal seismic activities of Vrancea (Romania) region, *Proc. 3<sup>rd</sup> Workshop "Statistical Models and Methods in Seismology"* (eds. G. A. Papadopoulos, K. C. Makropoulos), Thera, 18-20 Sept. 1995, 1997.
39. **Radulian M.**, Mandrescu N., Popescu E., Utale A., Panza G. F., Seismic activity and stress field characteristics for the seismogenic zones of Romania, *Preprint ICTP IC/96/256*, 1-11, Trieste, 1996.
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42. Popescu E., **Radulian M.**, Source complexity of the crustal earthquake sequences in the Eastern Carpathians foredeep area, *Rom. Journ. Phys.* 43, 837-850, 1998.
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44. Mandrescu N., **Radulian M.**, Seismic microzoning of Bucharest (Romania): A critical review, in "Vrancea Earthquakes: Tectonics, Hazard and Risk Mitigation" (eds. F. Wenzel, D. Lungu, O. Novak), Kluwer Academic Publishers, 109-121, 1999.
45. Bazacliu O., **Radulian M.**, Seismicity variations in depth and time in the Vrancea (Romania) subcrustal region, *Natural Hazards* 19, 165-177, 1999.
46. **Radulian M.**, Faulting dynamics and its implications on the modelling of the seismic process in Vrancea region, *PhD Thesis*, 202p, Institute of Atomic Physics, Bucharest, 1999.
47. **Radulian M.**, Popa M., Rizescu M., C. Ionescu, Decade 1991-2000: seismic motions at global and regional scales, *Proc. of the Symposium "Bucharest, March 1977 - March 1999"*.
48. **Radulian M.**, Rizescu M., Pântea A., National report on geodetic and geophysical activities in Romania 1991-1999, Part I - Seismology, p. 27-50; XXII IUGG General Assembly, July 18-30, 1999, Birmingham, 1999.

49. Ivan M, Wiejacz P., Popa M., **Radulian M.**, Upper mantle anisotropy beneath Vrancea area - Romania as derived from polarization of teleseismic S-waves recorded in Poland, *Romanian Journal of Tectonics and Regional Geology*, v.77, Supp.no.1, p.77, 1999.
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51. **Radulian M.**, Mândrescu N., Popescu E., Utale A. and Panza G.F., Seismic activity and stress field in Romania, *Rom. Journ. Phys.* 44, 1051-1069, 1999.
52. 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.
53. **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.
54. **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.
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56. Popescu E., **Radulian M.**, Source parameters and scaling laws for the crustal microearthquake swarm of January, 1-3 1997 in the Vrancea seismic area, *Rom. Journ. Phys.* 45, 145-155, 2000.
57. 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.
58. Ardeleanu L., **Radulian M.**, Sileny J., Panza G.F., Source parameters of the weak earthquakes in the Vrancea foredeep area, *Rev. Roum. Geophys.* 44, 57-69, 2000.
59. Ivan M., Wiejacz P., Popa M., **Radulian M.**, The Romanian Vrancea event of April 6<sup>th</sup> 2000: Relocation and fault plane solution, *Rev. Roum. Geophys.* 44, 71-78, 2000.
60. Popescu E., Bazacliu O., **Radulian M.**, Ardeleanu L., Clustering properties of the Vrancea (Romania) intermediate depth seismicity, *Studii si Cercetari de Geofizica* 38, 41-51, 2000.
61. Popescu E, **Radulian M.**, Popa M., Fractal properties of time, space and size distributions of the Sinaia earthquake sequence of May-June, 1993, *Studii si Cercetari de Geofizica*, 38, 29-39, 2000.
62. **Radulian M.**, Vaccari F., Mandrescu N., Panza G. F., Moldoveanu C. L., Deterministic hazard computation for Vrancea (Romania) subcrustal earthquakes, *Proc. 3rd EU-Japan Workshop on Seismic Risk, Kyoto*, 27-29 March, 61-67, 2000.
63. Popa M., **Radulian M.**, Depth-dependent scaling relations of the source parameters for the Vrancea subcrustal earthquakes, *Rom. Journ. Phys.* 46, 499-513, 2001.
64. Popa M., Kissling E., **Radulian M.**, Bonjer K.-P., Enescu D., Dragan S. and the CALIXTO Research Group, Local source tomography using body waves to deduce a minimum 1D velocity model for Vrancea (Romania) zone, *Romanian Report in Physics* 53, 519-536, 2001.
65. Popa M., Popescu E., **Radulian M.**, Empirical Green's function technique determination of source and path effects in case of Vrancea subcrustal earthquakes, *Proc. of the IAGA-IASPEI, Hanoi, Vietnam*, 19-31 August, 2001 pp.25-28.
66. Martin M., Achauer U., Kissling E., Mocanu V., Musacchio G., **Radulian M.**, Wenzel and CALIXTO Working Group, First results from the tomographic experiment CALIXTO'99 in Romania, *Proc. of the IAGA - IASPEI, Hanoi, Vietnam*, 19-31 August, 2001, pp.29-32.
67. Popescu E., **Radulian M.**, Source characteristics of the seismic sequences in the Eastern Carpathians foredeep region (Romania), *Tectonophysics* 338, 325-337, 2001.
68. Popescu E., **Radulian M.**, Fractal characteristics of time, space and size distributions of the Banat earthquake sequences occurred in 1991, *Rom. Journ. Phys.* 46, 485-498, 2001.
69. Popescu E., **Radulian M.**, Râmnicu Sărat (Romania) seismic sequence of December 6-8, 1997: source time function and scaling relations of the earthquake parameters, *Rom. Journ. Phys.* 46, 515-530, 2001.
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71. **Radulian M.**, Popa M., Popescu E., Rizescu M., Grecu B., Recent research on the Vrancea seismogenic zone, *Proceedings 2<sup>nd</sup> National Conference on Seismic Engineering, Bucharest*, 8-9 November 2001, vol. 1, 11-22 (in Romanian).
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76. **Radulian M.**, Popescu E., Bala A., Utale A., Catalog of fault plane solutions for the earthquakes occurred on the Romanian territory, *Rom. Journ. Phys.* 47, 663-685, 2002.
77. 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.
78. **Radulian M.**, Bala A., Popescu E., Earthquakes distribution and their focal mechanism in seismogenic zones of Romania, *Romanian Reports in Physics* 47, 945-963, 2002.
79. Moldoveanu C.L., **Radulian M.**, Marmureanu G., Panza G.F., Outlines of seismic microzoning of Bucharest, Romania, Preprint ICTP IC/2002/24, 37pp., Trieste, 2002.
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81. Popescu E., Enescu B., **Radulian M.**, Bazacliu O., Clustering properties in time and space for Vrancea (Romania) earthquakes, *Rev. Roum. Geophys.* 47, 89-107, 2003.
82. Grecu B., Popa M., **Radulian M.**, Seismic ground motion characteristics in the Bucharest area: Sedimentary cover versus seismic source control, *Romanian Reports in Physics* 55, 322-331, 2003.
83. Popa M., Grecu B., Popescu E., Placinta A., **Radulian M.**, Asymmetric distribution of seismic motion across South-Eastern Carpathians (Romania) and its implications, *Romanian Reports in Physics*, 55, 521-534, 2003.
84. Popescu E., Grecu B., Popa M., Rizescu M., **Radulian M.**, Seismic source properties: Indications of lithosphere irregular structure on depth beneath Vrancea region, *Romanian Reports in Physics*, 55, 303-321, 2003.
85. 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.
86. **Radulian M.**, Seismic hazard of Romania due to Vrancea earthquakes: how asymmetric is the strong ground motion distribution, *Proc. of the First International Conference 'Science and Technology for Safe Development of Lifeline Systems'*, 4 - 5 November 2003, Sofia, Bulgaria, 10 pg., 2003.
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88. Popescu E., Popa M., **Radulian M.**, Efficiency of the spectral ratio method to constrain the source scaling properties of the Vrancea (Romania) subcrustal earthquakes, *Rom. Rep. Phys.* 55, 149-169, 2003.
89. Popescu E., Popa M., **Radulian M.**, Placinta A. O., Romanian crustal earthquake sequences: source scaling and clustering peculiarities, *St. cerc. Geofizica* 41, 63-82, 2003.
90. Moldoveanu C.L., Panza G.F., Cioflan C.O., **Radulian M.**, Mărmureanu G., A new seismic microzonation of Bucharest, *St. cerc. Geofiz.* 41, 81-91, 2003.
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93. **Radulian M.**, Popa M., Grecu B., Popescu E., Panza G.F., Seismic hazard of Romania due to Vrancea earthquakes: how asymmetric is the strong ground motion distribution, *Acta Geodaetica et Geophysica Hungarica* 39, 309-314, 2004.
94. Marmureanu G., Popescu E., Popa M., Moldovan A.I., Plăcintă A.O., **Radulian M.**, Seismic zoning characterization for the seismic hazard assessment in south-eastern Romania territory, *Acta Geodaetica et Geophysica Hungarica* 39, 259-274, 2004.
95. Ghica D., **Radulian M.**, Popa M., BURAR: detection and signal processing capabilities, *Romanian Reports in Physics* 56, 777-799, 2004.

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97. **Radulian M.**, A. Bala, E. Popescu, Fault plane solutions as indicators of specific stress field characteristics in Vrancea and adjacent seismogenic zones, in “Earthquake Loss Estimation and Risk Reduction” - Proceedings of the International Conference Earthquake Loss Estimation and Risk Reduction, 24 – 26 October 2002, Bucharest, Romania (eds. D. Lungu, F. Wenzel, P. Mouroux, I. Tojo), vol. 1, 151-160, 2004.
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