

Conf. univ. dr. Petre BREȚCAN



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Domenii de interes: Hidrologie, Limnologie, Managementul resurselor de apa, Zone umede, Geografie Regionala a României

Competente manageriale:

- 2016-2020, Director Departamentul de Geografie
- 2008 – prezent, membru fondator si Secretar stiintific – Asociatia Romana de Limnografie
- 2013-2019 Editor in chief – Annals of Valahia University of Targoviste. Geographical series

Activitate de cercetare:

- 2017-2018 - Complex investigation (Neutron Activation Analysis, Fourier Transform Infrared and Raman Spectroscopy, Inductively Coupled Plasma – Mass Spectroscopy, Scanning Electron Microscopy +Multielemental Analysis, Optical Microscopy and Image Analysis) of the unconsolidated sediments of Romanian Plain salt lakes
- 2015- 2016 - Paleoenvironmental studies in Romanian Plain using nuclear and related analytical techniques, protocol no 4521-4-2015/2016 in the topic no. 03-4-1104-2011/2016
- 1999- 2001 – Contract de cercetare cu CNCSIS cu tema: Studiul geografic al resurselor de apă din România în concepția dezvoltării durabile

Cărți reprezentative:

- Șerban, G., Sabău, D., Băținaș, R., **Brețcan, P.**, Ignat, E., & Nacu, S. (2020). *Water Resources from Romanian Upper Tisa Basin*. In *Water Resources Management in Romania* (pp. 393-434). Springer, Cham.
- Gâștescu P., **Brețcan P.** (2019), *Hidrologie și Oceanografie, editia a II-a [Hydrology and oceanography, Second Edition]*, Valahia University Press, 357 p.
- Gâștescu P., **Brețcan P.** (edit.) (2018), *4th International Conference Water resources and wetlands. CONFERENCE PROCEEDINGS 5-9 September, 2018 Tulcea (Romania)*, 312p.
- Gâștescu P., **Brețcan P.** (edit.) (2016), *3rd International Conference Water resources and wetlands. CONFERENCE PROCEEDINGS 8-10 September, 2016 Tulcea (Romania)*, 308p.
- Gâștescu P., Marszelewski W., **Brețcan P.** (edit.) (2014), *2nd International Conference Water resources and wetlands. CONFERENCE PROCEEDINGS 11-13 September, 2014 Tulcea (Romania)*, 581p.
- Gastescu, P., Lewis, W., **Brețcan, P.** (edit) (2012) *Water resources and wetlands, Edit Transversal, Conference Proceedings, 14-16 Septembrie 2012 Tulcea*, 662p.
- Gastescu, P., **Brețcan, P.** (2010), *Resursele de apă din România. Vulnerabilitate la presiunea activităților antropice, Edit. Transversal*, 479 p.
- Gastescu, P., **Brețcan, P.** (2009), *Hidrologie și Oceanografie [Hydrology and oceanography]*, Edit Transversal, 384 p.
- **Brețcan, P.** (2007), *Complexul lacustru Razim-Sinoie. Studiu de limnologie [The Razim-Sinoie lacustrine complex. A limnology study]*. Edit. Transversal, 310 p.
- Gastescu, P. Murarescu, Dinu, I. M. **Brețcan, P.** (2006), *Hidrologie generală. Lucrări practice [Hydrology Overview - practical work]*, Edit Transversal, 144 p.

Articole reprezentative:

- Dunea, D., Brețcan, P., Purcoi, L., Tanislav, D., Șerban, G., Neagoe, A., Iordache, V. & Iordache, Ș. (2021). Effects of riparian vegetation on evapotranspiration processes and water quality of small plain streams. *Ecology & Hydrobiology*. <https://doi.org/10.1016/j.ecohyd.2021.02.004>
- Dunea D, **Brețcan P**, Tanislav D, Șerban Gh, Teodorescu R, Iordache S, Petrescu N, Tuchiș E. (2020) Evaluation of Water Quality in Ialomița River Basin in Relationship with Land Cover Patterns *Water* 12(3), 735; <https://doi.org/10.3390/w12030735>

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- Diaconu DC., **Brețcan, P.**, Peptenatu, D., Tanislav, D., Mailat, E. (2019) The importance of the number of points, transect location and interpolation techniques in the analysis of bathymetric measurements, *Journal of Hydrology* 570: 774-785 <https://doi.org/10.1016/j.jhydrol.2018.12.070>
- Popa C., **Brețcan, P.**, Radulescu, C., Carstea, E., Tanislav, D., Dontu, S., Dulama, D. (2019) [Spatial distribution of groundwater quality in connection with the surrounding land use and anthropogenic activity in rural areas](#) *Acta Montanistica Slovaca* 24(2) 73-87
- Diaconu DC, Andronache I., Pintilii R.I., **Brețcan P.**, Simion A.G., Drăghici C.C., Gruia KA, Grecu A, Marin M, Peptenatu D. (2019), [Using fractal fragmentation index \(FFI\) in analysis of the deforestation process in Bucegi Mountains Group, Romania, Carpathian Journal of Earth And Environmental Sciences](#), Volume 14 (2) 431-438
- Dunea, D., Tanislav, D., Stoica, A., **Brețcan, P.**, Muratoreanu, G., Frasin, L. N., ... & Iliescu, N. (2018). [ECO-PRACT: a project for developing the research competences of students regarding the monitoring of floristic composition in mountain grasslands.](#) *Journal of Science and Arts*, 18(1), 225-238.
- Chelarescu E.D, Radulescu C, Stih C, **Brețcan P**, Tanislav D, Dulama ID, Stirbescu RM, Teodorescu S, Bucurica IA, Andreia R, Morarescu A. (2017) Analysis of elements in lake sediment samples by PIXE spectrometry. *Nuclear Instruments and Methods in Physics Research Section B: Beam Interactions with Materials and Atoms* <http://dx.doi.org/10.1016/j.nimb.2017.02.005>
- Radulescu, C., Pohoata, A., Brețcan, P., Tanislav, D., Stih, C., & Chelarescu, E. D. (2017). Quantification of major ions in groundwaters using analytical techniques and statistical approaches. *Romanian Reports in Physics*, 69, 705.
- Șerban G., Rus I., Vele D., **Brețcan P.**, Alexe M., Petrea D. (2016), [Flood-prone area delimitation using UAV technology, in the areas hard-to-reach for classic aircrafts: case study in the north-east of Apuseni Mountains, Transylvania.](#) *Natural Hazards* 82 (3): 1817-1832
- Radulescu C., **Brețcan P.**, Pohoata A., Tanislav D., Stirbescu R.M. (2016) [Assessment of drinking water quality using statistical analysis: A case study](#) *Romanian J. Phys* 61 (9-10): 1604-1616
- Gâștescu P, **Brețcan P.**, Teodorescu D.C., (2016), [The lakes of the Romanian Black Sea coast. Man-induced changes, water regime, present state.](#) *Romanian Journal of Geography*, 60 (1): 27-42
- Radulescu C., Stih C., Dulama ID, Chelarescu ED, **Brețcan P**, Tanislav D. (2015), [Assessment of heavy metals content in water and mud of several salt lakes from romania by atomic absorption spectrometry.](#) *Romanian J. Phys* 60 (1-2):246-256
- **Brețcan P.**, Tuchiu E., Brețcan S. (2012), [Importance of water circulation in lakes Razim-Golovita. Status and quality of ecosystems](#), in Gastescu, P., Lewis, W., **Brețcan, P.** (edit) (2012) *Water resources and wetlands, Conference Proceedings*, 14-16 September 2012, Tulcea, Romania. p.100-105
- **Brețcan P**, Mihaela Florina Tampu (2008), The Razim-Sinoie lacuster complex. Protection, resources, valorization, *Lakes reservoirs and ponds*, vol. 1-2, p. 99-112 ISSN: 1844-6477.
- **Brețcan P**, Murarescu O, Samoila E, Popescu O, (2009), Water Management in the Razim-Sinoie Lacustrine Complex, în vol. *International Symposium on Water Management and Hydraulic Engineering Ohrid/Macedonia*, p. 791-802
- **Brețcan P.**, Murarescu O., Samoila E., Popescu O (2008) The modification of the ecological conditions in the Razim-Sinoie lacuster complex as an effect of the anthropic intervention, *XXIVth Conference of the Danubian Countries, 2-4 June 2008, Bled, Slovenia*, ISBN: 978-961-91090-2-1.

Activitate didactică:

Cursuri: Hidrologie continentală și Oceanografie; Amenajarea bazinelor hidrografice și apărarea împotriva inundațiilor; Metode și tehnici de analiză a datelor geografice