

List of IF publications

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Cumulative impact factor: **23.781**

Number of Q1 ranked papers: **11**

Number of independent citations: **154**

Hirsch index (MTMT): **10**

Szabó N. P., 2018: A genetic meta-algorithm-assisted inversion approach: hydrogeological study for the determination of volumetric rock properties and matrix and fluid parameters in unsaturated formations. *Hydrogeology Journal*, online first paper, pp. 1–12. **IF=2.109.**

Abordán A., Szabó N. P., 2018: Metropolis algorithm driven factor analysis for lithological characterization of shallow marine sediments. *Acta Geodaetica et Geophysica*, online first paper, pp. 1–11. **IF= 0.794.**

Szabó N. P., Dobróka M., 2017: Exploratory factor analysis of wireline logs using a float-encoded genetic algorithm. *Mathematical Geosciences*, online first paper, pp. 1–19. **IF=2.022.**

Szabó N. P., Balogh G. P., Stickel J., 2017: Most frequent value based factor analysis of direct-push logging data. *Geophysical Prospecting*, Vol. 66, No. 3, pp. 530–548. **IF=1.846.**

Szabó N. P., Dobróka M., 2017: Robust estimation of reservoir shaliness by iteratively reweighted factor analysis. *Geophysics*, Vol. 82, No. 2, pp. D69–D83. **IF=2.017.**

Dobróka M., Szabó N. P., Tóth J., Vass P., 2016: Interval inversion approach for an improved interpretation of well logs. *Geophysics*, Vol. 81, No. 2, pp. D163–D175. **IF=2.017.**

Szabó N. P., 2015: Hydraulic conductivity explored by factor analysis of borehole geophysical data. *Hydrogeology Journal*, Vol. 23, No. 5, pp. 869–882. DOI 10.1007/s10040-015-1235-4. **IF=2.028.**

Szabó N. P., Kormos K., Dobróka M., 2015: Evaluation of hydraulic conductivity in shallow groundwater formations: a comparative study of the Csókás' and Kozeny–Carman model. *Acta Geodaetica et Geophysica*, Springer, online first article. DOI 10.1007/s40328-015-0105-9. **IF=0.528.**

Szabó N. P., Dobróka M., Turai E., Szűcs P., 2014: Factor analysis of borehole logs for evaluating formation shaliness: a hydrogeophysical application for groundwater studies. *Hydrogeology Journal*, Vol. 22, Issue 3, pp. 511–526. DOI 10.1007/s10040-013-1067-z. **IF=1.966.**

Gyulai Á., Baracza M. K., Szabó N. P., 2014: On the application of combined geoelectric weighted inversion in environmental exploration. *Environmental Earth Sciences*, Vol. 71, Issue 1, pp. 383–392. DOI 10.1007/s12665-013-2441-9. **IF=1.765.**

Szabó N. P., Dobróka M., 2013: Extending the application of a shale volume estimation formula derived from factor analysis of wireline logging data. *Mathematical Geosciences*, Vol. 45, Issue 7, pp. 837–850. DOI 10.1007/s11004-013-9449-2. **IF=1.753.**

Dobróka M., Szabó N. P., 2012: Interval inversion of well-logging data for automatic determination of formation boundaries by using a float-encoded genetic algorithm. *Journal of Petroleum Science and Engineering*, Vol. 86–87, pp. 144–152. DOI 10.1016/j.petrol.2012.03.028. **IF=0.997.**

Szabó N. P., Dobróka M., Drahos D., 2012: Factor analysis of engineering geophysical sounding data for water saturation estimation in shallow formations. *Geophysics*, Vol. 77, No. 3, pp. WA35–WA44. DOI 10.1190/GEO2011-0265.1. **IF=1.723.**

Szabó N. P., 2012: Dry density derived by factor analysis of engineering geophysical sounding measurements. *Acta Geodaetica et Geophysica Hungarica*, Vol. 47, No. 2, pp. 161–171. DOI 10.1556/AGeod.47.2012.2.5. **IF=0.347.**

Dobróka M., Szabó N. P., Turai E., 2012: Interval inversion of borehole data for petrophysical characterization of complex reservoirs. *Acta Geodaetica et Geophysica Hungarica*, Vol. 47, No. 2, 172–184. DOI 10.1556/AGeod.47.2012.2.6. **IF=0.347**.

Dobróka M., Szabó N. P., 2011: Interval inversion of well-logging data for objective determination of textural parameters. *Acta Geophysica*, Volume 59, Number 5, pp. 907–934. DOI 10.2478/s11600-011-0027-z. **IF=0.617**.

Szabó N. P., 2011: Shale volume estimation based on the factor analysis of well-logging data: *Acta Geophysica*, Volume 59, Number 5, pp. 935–953. DOI 10.2478/s11600-011-0034-0. **IF=0.617**.

Dobróka M., Szabó P. N., Cardarelli E., Vass P., 2009: 2D inversion of borehole logging data for simultaneous determination of rock interfaces and petrophysical parameters. *Acta Geodaetica et Geophysica Hungarica*, Vol. 44 No. 4, pp. 459–479. DOI 10.1556/AGeod.44.2009.4.7. **IF=0.288**.