



Mikoviny Sámuel Doctoral School of Earth Sciences



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Scientometrics, Publishing

PhD Course

Prof. Dr. Norbert Péter Szabó

University of Miskolc, Faculty of Earth and Environmental Sciences and Engineering,
Department of Geophysics



MISKOLCI
EGYETEM

Introduction

Prof. Dr. Norbert Péter Szabó obtained his MSc degree in geophysical engineering in 1999 from Faculty of Mining Engineering, University of Miskolc. He has been continuously working from graduating at the University of Miskolc. He obtained his PhD in 2005. Since 2019, he has been a full professor at the Department of Geophysics. He is currently the head of Geophysical Department and vice-dean for scientific affairs at the Faculty of Earth Science and Engineering. In addition, he is senior research fellow at the MTA-ME Geoengineering Research Group. In 2020, he defended his DSc dissertation at the Hungarian Academy of Sciences. He conducts researches on geophysical inversion and exploratory (multivariate) statistical methods and their applications in earth sciences (mainly water and hydrocarbon prospecting). He participated in several R&D projects commissioned by MOL Plc., NKFIH and other EU organizations. He delivers lectures on well logging, gravitational and magnetic exploration methods, engineering and environmental geophysics and geostatistics in the framework of BSc, MSc and PhD training programs.



Course Objectives

- » To get to know the indicators of scientific performance and present the rules and methods of publication
- » PhD students should acquire theoretical and practical knowledge that they can use with results in their doctoral training
- » Deepening the professional terminology of earth sciences by analyzing quality publications
- » Submission of an individual task: (I) preparation of a conference presentation, (II) preparation of a manuscript on a freely chosen topic

Course Outline

- » Publication requirements of the Mikoviny Sámuel Doctoral School of Earth Sciences
- » Ranking of journals, the quartile system (presentation of the Scimago database), and scientific metrics
- » Increasing scientific visibility (Researchgate, Google Scholar, presentation and management of MTMT database)
- » Aspects of the preparation of scientific papers, special requirements of the journals. Submission of manuscript, review procedure, conditions for publication
- » Practice lectures on the analysis of the form and content of selected scientific articles with the active participation of PhD students
- » Practice lectures on the aspects of preparing a conference presentation. Practicing lecturing and developing the ability to debate in a simulated conference

Recommended Literature

- » Ecartot F., Seronde M. F., Chopard R., Schiele F., Meneveau N., 2015. Writing a scientific article: A step-by-step guide for beginners. *European Geriatric Medicine* 6, 573–579.
<http://dx.doi.org/10.1016/j.eurger.2015.08.005>
- » Guyatt G. H., Haynes R. B., 2006. Preparing reports for publication and responding to reviewers' comments. *Journal of Clinical Epidemiology* 59, 900-906.
<https://doi.org/10.1016/j.jclinepi.2006.05.004>
- » Sasvári P., 2022. Science metrics and publication strategy training. Steps to a successful publishing strategy. Workshop material. University of Miskolc
- » Author's guides in scientific journals, e.g., in *Hydrogeology Journal*, *Journal of Petroleum Science and Engineering*, *Geophysics*, *Mathematical Geosciences* etc.



Publication Requirements of the Mikoviny Sámuel Doctoral School

PhD Training Program

- » Semester 1-4: „**Training and research**” period with successful complex exam at the end (to apply for a complex exam doctoral student shall fulfill all training credits and shall acquire at least 90 credits, at the end of 4th semester min. 120 credits)
- » Semester 5-8: „**Research and dissertation**” period
- » Application for absolutory: PhD students shall obtain 240 credits according to the research plan, 4-years period cannot be extended, PhD students must submit dissertation within 3 years after the complex exam

Starting the Process of Acquiring PhD Title

- » To apply to doctoral defense process in addition to the required credits, the following publication requirements also must be met
 - at least **five published or accepted publications** related to the research topic as full papers
 - PhD student plays a dominant role in at least two of the latter ones (first author or based on a written declaration from the other co-authors indicating their own shareholding receive a minimum copyright of 50%)
 - **two papers are recognized by international professional opinion** (IF journals, ranked papers) - At least one of these publications in is WoS or SCOPUS referenced, or Q3-Q4 Scimago ranked journal, or at least two EBSCO or ProQuest refereed or accepted by the X. Department of Earth Sciences of the Hungarian Academy of Sciences published in a journal or accepted for publication

Recommended Training Schedule

| Activity/Semester | 1. | 2. | 3. | 4. | 5. | 6. | 7. | 8. |
|--|--|---------|---------|-------------|-------------------------------|---------|---------|-------------------|
| Compulsory subjects | 2*5 cr | 2*5 cr | 2*5 cr | 2*5 cr | - | - | - | - |
| Elective subjects | 2 cr | 2 cr | - | - | - | - | - | - |
| Research seminar | 0-10 cr | 0-10 cr | 0-10 cr | 0-10 cr | 0-10 cr | 0-10 cr | 0-10 cr | 0-10 cr |
| Report | - | 0-10 cr | - | 0-10 cr | 0-15 cr | 0-15 cr | | |
| Complex Examination¹ | - | - | - | 0 cr | - | - | - | - |
| Instruction | 0-5 cr | 0-5 cr | 0-5 cr | 0-5 cr | 0-5 cr | 0-5 cr | - | - |
| Department research | 0-5 cr | 0-5 cr | 0-5 cr | 0-5 cr | 0-5 cr | 0-5 cr | 0-5 cr | 0-5 cr |
| Dissertation workshop¹ | - | - | - | - | - | - | - | max. 20 cr |
| Individual work | min. 10 cr | | | | min. 20 cr | | | |
| Total:² | min 100 + 20 cr - max 154 + 20 cr | | | | min 66 cr - max 140 cr | | | |

Publication credits

Credits Available for Published Materials

| Credit points for publications | |
|--|-------|
| Peer-reviewed articles in a foreign language in Q1-Q2 Scimago ranking journals | 11 p |
| Peer-reviewed international articles, book chapter in a foreign language | 9 p |
| Peer-reviewed domestic articles in a foreign language | 7 p |
| Peer-reviewed publication published in a(n) | |
| international conference proceedings | 7 p |
| local conference proceedings | 5 p |
| Review in a foreign language in a domestic proceeding | 4 p |
| Review in a foreign language in an international proceeding | 5 p |
| Professional translation | 1-4 p |
| Educational material | 1-4 p |
| Conference presentations and posters | |
| In a foreign language | 4 p |
| Patent | |
| Submitted | 5 p |
| Accepted (domestic) | 9 p |
| Accepted (international) | 12 p |
| For more than one country, additionally | 2 p |

Note that

- » Non-peer-reviewed articles worth 0 credit
- » In the case of co-authored publications, credit points must be divided by the number of authors, except for the first author publication, where half of the credits is due to the PhD student. Among the co-authors, the supervisor of the doctoral student does not have to be considered
- » For presentation and poster all credits belong to the performer
- » The supervisor(s) of PhD student should not be considered among the co-authors



Scientometrics, Ranking of Scientific Journals

Scientometrics and Scientific Indicators

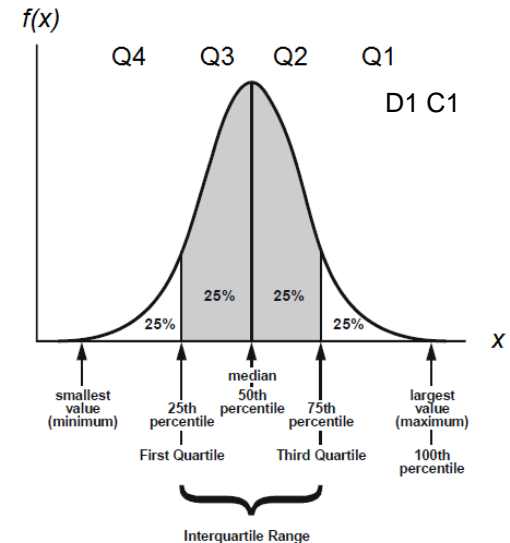
- » **Scientometrics** is the field of study which concerns itself with measuring and analyzing scholarly literature. Its purpose with numbers (scientific indicators) to characterize academic performance primarily its impact based on the number of related announcements and the place of publication, i.e., the specific research content without considering
- » **Impact factor (IF)** is a ratio of the number of references given in the current year to the publications of a given journal in the previous two years and the number of publications published in the previous two years
- » **Independent citations** is the total number of citations given to an article excluding self-citations (the latter is when author or co-author refers to another work of his own)
- » **Hirsch index (h-index):** a researcher's index is h if he has at least h articles that received at least h citations (that is, his other articles received less than this number). The researcher with a high h-index therefore published many, highly cited articles

Quartile System of Journal Ranking

- » **Quartile system:** classification of the rank into four SJR categories, which indicates which quarter of the ranking the journal falls into. Because of the four possible values, journals with significantly different metrics can have the same Q value. When comparing two journals, the rank does not indicate how much higher the index is for the more prestigious one

| SJR category | Percentile | Position of journal |
|--------------|------------|---------------------|
| Q1 | 75-99 | Top |
| Q2 | 50-74 | Middle-high |
| Q3 | 25-49 | Middle-low |
| Q4 | 0-24 | Bottom |

- » **Other top categories** are C1 (99-100 percentile) and D1 (90-99 percentile)



Scimago for Listing Ranked Journals (<https://www.scimagojr.com/>)

The screenshot shows the homepage of the Scimago Journal & Country Rank website. The browser's address bar displays "scimagojr.com". The website has a dark orange header with a navigation menu containing "Journal Rankings", "Country Rankings", "Viz Tools", "Help", and "About Us". In the top right corner, it says "also developed by scimago" and "SCIMAGO INSTITUTIONS RANKINGS". The main content area features the "SJR" logo and the text "Scimago Journal & Country Rank". Below this is a search bar with the placeholder text "Enter Journal Title, ISSN or Publisher Name". A section titled "WHAT IS SCIMAGOJR FOR?" contains three columns: "JOURNAL RANKS" with a book icon, "COUNTRY RANKS" with a globe icon, and "VIZ TOOLS" with a bar chart icon. Each column has an "EXPLORE" button. At the bottom, the text "LATEST PROJECTS" is visible.

Scimago Categories for Earth and Planetary Sciences

| S. No. | Subject Category | Number of Journals |
|--------|--|--------------------|
| 1 | Atmospheric Science | 118 |
| 2 | Computers in Earth Sciences | 39 |
| 3 | Earth and Planetary Sciences (miscellaneous) | 272 |
| 4 | Earth-Surface Processes | 136 |
| 5 | Economic Geology | 39 |
| 6 | Geochemistry and Petrology | 125 |
| 7 | Geology | 238 |
| 8 | Geophysics | 115 |
| 9 | Geotechnical Engineering and Engineering Geology | 176 |
| 10 | Oceanography | 127 |
| 11 | Paleontology | 98 |
| 12 | Space and Planetary Science | 86 |
| 13 | Stratigraphy | 39 |

Scimago Ranking List Example

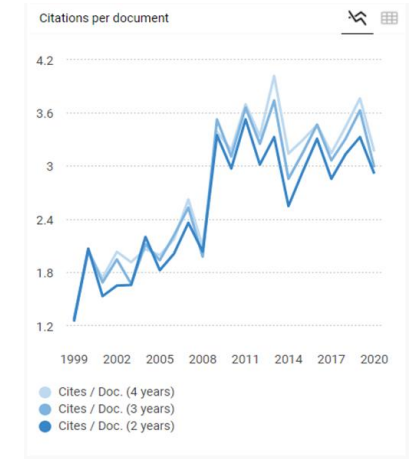
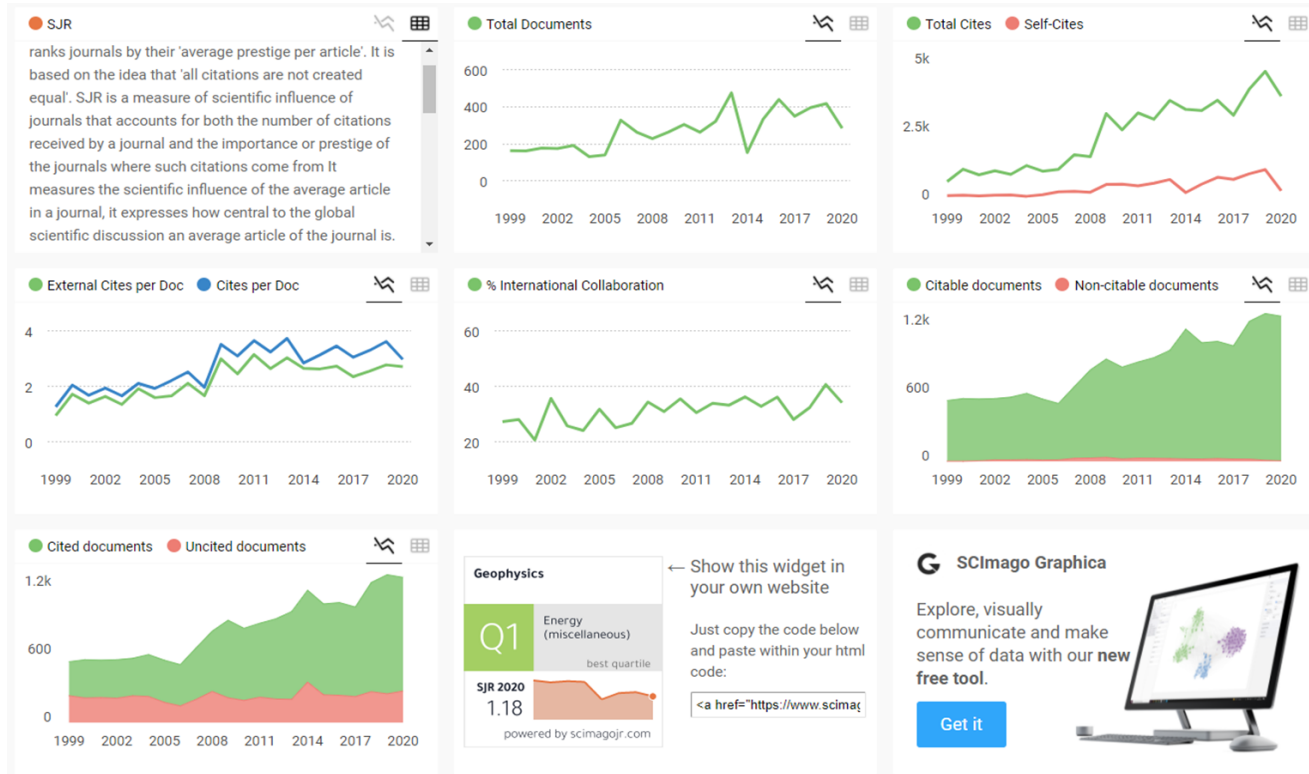
(<https://www.scimagojr.com/journalrank.php?area=1900&category=1908>)

| Title | Type | ↓ SJR | H index | Total Docs. (2021) | Total Docs. (3years) | Total Refs. (2021) | Total Cites (3years) | Citable Docs. (3years) | Cites / Doc. (2years) | Ref. / Doc. (2021) | |
|--|---------|-------------|---------|--------------------|----------------------|--------------------|----------------------|------------------------|-----------------------|--------------------|--|
| 1 Reviews of Geophysics | journal | 8.527 Q1 | 167 | 18 | 79 | 6437 | 2199 | 76 | 24.02 | 357.61 | |
| 2 Earth and Planetary Science Letters | journal | 2.348 Q1 | 262 | 429 | 1640 | 23530 | 9147 | 1614 | 5.32 | 54.85 | |
| 3 Journal of Petrology | journal | 2.088 Q1 | 179 | 107 | 258 | 12772 | 1202 | 249 | 3.79 | 119.36 | |
| 4 Tectonics | journal | 1.962 Q1 | 143 | 186 | 633 | 20742 | 3208 | 617 | 4.86 | 111.52 | |
| 5 Surveys in Geophysics | journal | 1.956 Q1 | 85 | 58 | 165 | 5520 | 1133 | 158 | 7.12 | 95.17 | |
| 6 Geochemistry, Geophysics, Geosystems | journal | 1.881 Q1 | 146 | 320 | 874 | 29412 | 3853 | 865 | 4.17 | 91.91 | |
| 7 Geophysical Research Letters | journal | 1.857 Q1 | 291 | 1839 | 4688 | 92980 | 25943 | 4619 | 5.38 | 50.56 | |
| 8 Contributions to Mineralogy and Petrology | journal | 1.813 Q1 | 157 | 105 | 312 | 8722 | 1224 | 310 | 3.75 | 83.07 | |
| 9 Journal of Geophysical Research D: Atmospheres | journal | 1.796 Q1 | 106 | 832 | 2271 | 57082 | 11585 | 2260 | 5.01 | 68.61 | |
| 10 Journal of Geophysical Research: Solid Earth | journal | 1.773 Q1 | 246 | 799 | 1970 | 65041 | 9129 | 1950 | 4.30 | 81.40 | |

- » **SJR indicator:** measure of a journal's impact or prestige, the weighted average of the number of citations received in the selected year by the articles published in the journal in the three previous years
- » **H index:** number of articles (h) that have received at least h citations over the examined period
- » **Total docs:** number of published articles
- » **Total refs:** number of references
- » **Cites/doc (impact index):** average citation per document in two years
- » **Ref/doc:** average amount of references per document

Scimago Journal Analysis Example

(<https://www.scimagojr.com/journalsearch.php?q=27965&tip=sid&clean=0>)





Increasing Scientific Visibility

Significant International Publishers

- » The annual approx. 60 million pages of published literature including 40,000-50,000 scientific journals, 200,000 technical book
- » Full-text databases of the most important international publishers:
 1. **Elsevier** (founded in 1880, Netherlands): 2,500 journals, approx. 420,000 professional publications are published/year (<https://www.sciencedirect.com/>)
 2. **Springer** (founded in 1842, Germany): 2,900 journals, 320,000 books (<https://link.springer.com/>)
 3. **Taylor & Francis** (founded in 1852, UK): 2,700 journals and approx. 7,000 new book are published per year (<https://www.tandfonline.com/>)
 4. **Wiley-Blackwell** (founded in 1807, USA): distributor of 1,400 journals (<https://onlinelibrary.wiley.com/>)
 5. **SAGE** (founded in 1965, USA): distributor of 1,100 journals (<https://journals.sagepub.com/>)
- » **Science Citation Index** covers more than 9,200 notable and significant journals, across 178 disciplines, from 1900 to the present. These are alternatively described as the world's leading journals of science and technology, because of a rigorous selection process
- » Several papers, books etc. of Springer and Elsevier is freely accessed from the area of the University of Miskolc

Scopus as Cataloging (Abstract and Citation) Database

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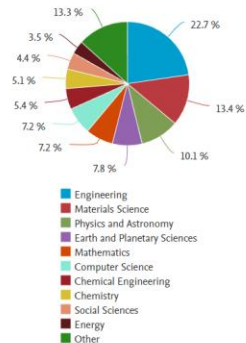
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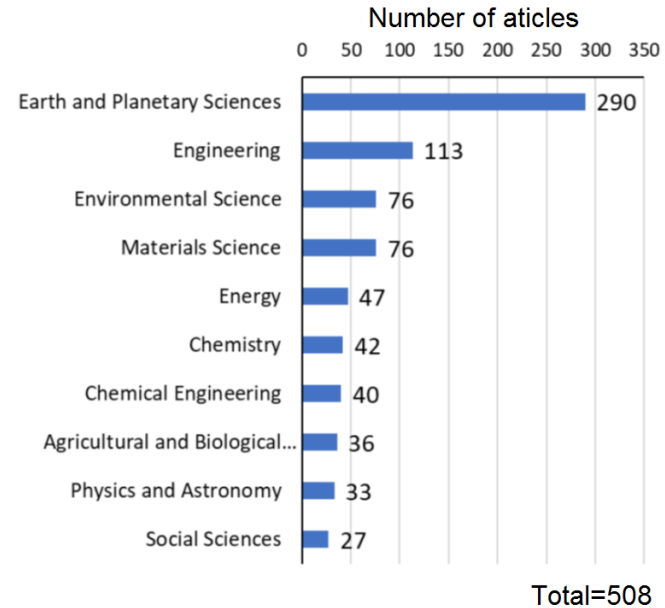
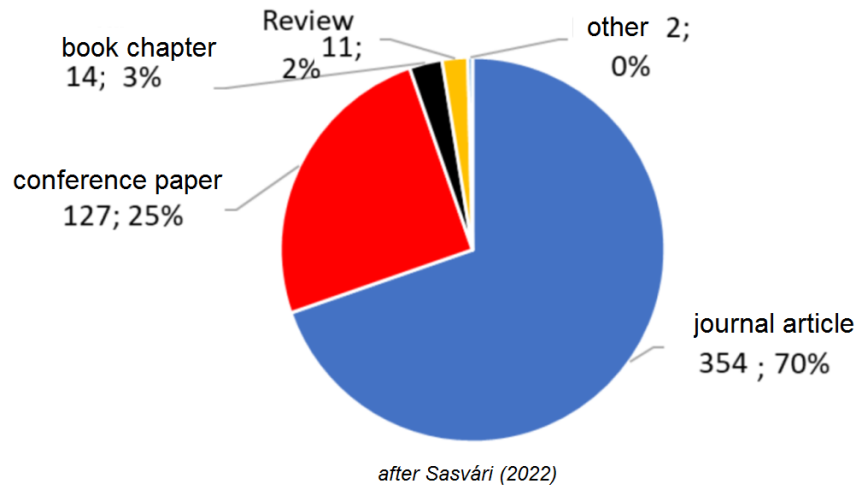
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| Subject Area | Count | Subject Area | Count |
|-------------------------------------|-------|--|-------|
| Engineering | 1972 | Biochemistry, Genetics and Molecular Biol... | 95 |
| Materials Science | 1162 | Business, Management and Accounting | 89 |
| Physics and Astronomy | 878 | Agricultural and Biological Sciences | 71 |
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| Mathematics | 624 | Pharmacology, Toxicology and Pharmaceutics | 43 |
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| Chemical Engineering | 472 | Psychology | 19 |
| Chemistry | 441 | Neuroscience | 15 |
| Social Sciences | 383 | Immunology and Microbiology | 13 |
| Energy | 303 | Health Professions | 7 |
| Environmental Science | 244 | Nursing | 7 |
| Medicine | 196 | Veterinary | 4 |
| Arts and Humanities | 144 | Dentistry | 2 |
| Economics, Econometrics and Finance | 101 | Undefined | 2 |

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Faculty of Earth Science and Engineering (1993-2022)



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Search > > A genetic meta-algorithm-a... > Shale volume estimation based on the factor analysis of well-logging data

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Shale volume estimation based on the factor analysis of well-logging data

By: Szabo, NP (Szabo, Norbert P)

ACTA GEOPHYSICA

Volume: 59 Issue: 5 Page: 935-953

DOI: 10.2478/11600-011-0034-0

Published: OCT 2011

Indexed: 2011-08-17

Document Type: Article

Abstract

In the paper factor analysis is applied to well-logging data in order to extract petrophysical information about sedimentary structures. Statistical processing of well logs used in hydrocarbon exploration results in a factor log, which correlates with shale volume of the formations. The so-called factor index is defined analogously with natural gamma ray index for describing a linear relationship between one special factor and shale content. Then a general formula valid for a longer depth interval is introduced to express a nonlinear relationship between the above quantities. The method can be considered as an independent source of shale volume estimation, which exploits information inherent in all types of well logs being sensitive to the presence of shale. For demonstration, two wellbore data sets originated from different areas of the Pannonian Basin of Central Europe are processed, after which the shale volume is computed and compared to estimations coming from independent inverse modeling.

Keywords

Author Keywords: factor analysis; maximum likelihood; factor index; factor log; shale volume

Keywords Plus: EXPLORATION

Author Information

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Categories/Classification

Research Areas: Geochemistry & Geophysics

Funding

| Funding agency | Grant number | Show All Details |
|----------------------------|-----------------------------------|------------------|
| European Commission | TAMOP-4.2.1.B-10/2/KOHV-2010-0001 | Show details |
| European Social Fund (ESF) | | Show details |

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Creon, L; Delpech, G; Geyrot, F, et al.
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Szabo, NP; Dobroka, M.
Robust estimation of reservoir shaliness by iteratively reweighted factor analysis GEOPHYSICS

MTMT Hungarian Database

(<https://m2.mtmt.hu/gui2/>)

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Kijelölés: 2022 Szűkítés Új rend. Utolsó módosítás X rendezések Táblázat Lista - Részletes

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faculty of earth

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Publications 6 235 Citations 9 681

Publications by type

- Achievement (33)
- Thesis (73)
- Miscellaneous (842)
- Conference proceedings (42)
- Conference paper (1019)
- Journal Article (2050)
- Book (358)
- Chapter in Book (1751)
- Protection forms (29)
- Research data (38)

~6235 results

Interval inversion based well log analysis assisted by petrophysical laboratory measurements for evaluating tight gas formations in Derecske through, Pannonian basin, east Hungary
JOURNAL OF PETROLEUM SCIENCE AND ENGINEERING (0920-4105 1873-4715): 208 (Part C) Paper 109607. 13 p. (2022)

Nyelv: Angol | [DOI](#) | [WoS](#) | [Scopus](#)

Folyóirat szakterülete: Scopus - Fuel Technology SJR indikátor: Q1

Folyóirat szakterülete: Scopus - Geotechnical Engineering and Engineering Geology SJR indikátor: Q1

Nyilvános idéző összesen: 1 | Függelék: 1 | Függő: 0 | Nem jelölt: 0 | DOI jelölt: 1

[Idézett közlemények száma: 3](#)

Közlemény: 32376584 | [Egyeztetett](#) | [Forrás Idéző](#) | [Folyóiratcikk](#) | [Szakcikk](#) | Tudományos | RIS-Egyéb

(GINOP-2.3.2-15-2015-00010)

Utolsó módosítás: 2022.05.31. 17:07 Tóth Henrietta (ME admin)

[Megjegyzés](#): GINOP-2.3.2-15-2016-00010 által támogatott



Google Scholar as Scientific Publication Finder

(<https://scholar.google.hu/>)



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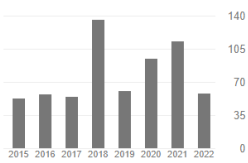
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mélyfúrás geofizika geofizikai inverzió geostatisztika

MÁR KÖVETEM

| Cím | HIVATKOZOTT RÁ | ÉV |
|---|----------------|------|
| Shale volume estimation based on the factor analysis of well-logging data N Szabó Acta Geophysica 59 (5), 935-953 | 80 | 2011 |
| Interval inversion approach for an improved interpretation of well logs M Dobróka, NP Szabó, J Tóth, P Vass Geophysics 81 (2), D155-D167 | 42 | 2016 |
| Artificial intelligent approaches in petroleum geosciences C Cranganu, H Luchian, ME Breaban Springer International Publishing | 39 | 2015 |
| Interval inversion of well-logging data for objective determination of textural parameters M Dobróka, NP Szabó Acta Geophysica 59 (5), 907-934 | 39 | 2011 |
| Extending the application of a shale volume estimation formula derived from factor analysis of wireline logging data NP Szabó, M Dobróka Mathematical Geosciences 45 (7), 837-850 | 33 | 2013 |
| Interval inversion of well-logging data for automatic determination of formation boundaries by using a float-encoded genetic algorithm M Dobróka, NP Szabó Journal of Petroleum Science and Engineering 86, 144-152 | 31 | 2012 |
| Factor analysis of engineering geophysical sounding data for water-saturation estimation in shallow formations NP Szabó, M Dobróka, D Drahos Geophysics 77 (3), WA35-WA44 | 30 | 2012 |
| 2D inversion of borehole logging data for simultaneous determination of rock interfaces and petrophysical parameters M Dobróka, P Szabó, E Cardarelli, P Vass Acta Geodaetica et Geophysica Hungarica 44 (4), 459-479 | 27 | 2009 |

Hivatkozott rá ÖSSZES MEGTEKINTÉSE

| | Összes | 2017 óta |
|--------------|--------|----------|
| Hivatkozások | 769 | 519 |
| h-index | 16 | 13 |
| i10-index | 26 | 17 |



Nyilvános hozzáférés ÖSSZES MEGTEKINTÉSE

3 cikk nem érhető el 16 cikk elérhető

Finanszírozási megbízások alapján

Társ szerzők SZERKESZTÉS

- Mihály Dobróka
Professor of Geophysics, Miskolc...
- andre turai
Miskolci Egyetem
- Akos Gyulai
professzor emeritus, Miskolci E...
- Szucs Peter
University of Miskolc

Google Tudós

Cikkek

3 oldal a nagyjából 80 találatból (0,02 másodperc)

- Bármikor
- 2022 óta
- 2021 óta
- 2018 óta
- Egyéni tartomány...
- Rendezés relevancia szerint
- Rendezés dátum szerint
- Értesítés létrehozása

Shale volume estimation based on the factor analysis of well-logging data

Keresés az idéző cikkek között

Porosity and hydraulic conductivity estimation of the basaltic aquifer in Southern Syria by using nuclear and electrical well logging techniques

J Afshari - Acta Geophysica, 2017 - Springer

An alternative approach using nuclear neutron-porosity and electrical resistivity well logging of long (64 inch) and short (16 inch) normal techniques is proposed to estimate the porosity ...

Improved recognition of rock formation on the basis of well logging and laboratory experiments results using factor analysis

E Puskarczyk, J J Jarzyna, K Wawrzyniak-Guz - Acta Geophysica, 2019 - Springer

Several data sets from the Silurian and Ordovician formations from three wells on the shore of Baltic Basin in Northern Poland prepared on the basis of well logging data and results of ...

Self organizing map neural networks approach for lithologic interpretation of nuclear and electrical well logs in basaltic environment, Southern Syria

Z Afshari, Z Ahmad, BA Ghani - Applied Radiation and Isotopes, 2016 - Elsevier

An approach based on self organizing map (SOM) artificial neural networks is proposed herewith oriented towards interpreting nuclear and electrical well logging data. The well ...

Improving petrophysical analysis and rock physics parameters estimation through statistical analysis of Basal sands, Lower Indus Basin, Pakistan

M Hussain, WY Chun, P Khalid, N Ahmed - Arabian Journal for ..., 2017 - Springer

Petrophysical parameters of a petroleum reservoir rock, used in formation evaluation, are generally estimated from wireline logs and core plugs. However, uncertainty or percentage ...

Open Researcher and Contributor ID (<https://orcid.org>)

The screenshot shows the ORCID iD profile for Norbert Péter Prof. Dr. Szabó. The profile includes the ORCID logo, the URL <https://orcid.org/0000-0003-4331-5603>, and a list of works. The works listed are:

- Permeability extraction from multiple well logs using particle swarm optimization based factor analysis**
GEM - International Journal on Geomathematics
2022-12 | Journal article
DOI: [10.1007/s13137-022-00200-x](https://doi.org/10.1007/s13137-022-00200-x)
CONTRIBUTORS: Norbert Péter Szabó; Armand Abordán; Mihály Dobróka
Source: Crossref
- Interval inversion of multiwell logging data for estimating laterally varying petrophysical parameters and formation boundaries**
Acta Geodaetica et Geophysica
2022-06 | Journal article
DOI: [10.1007/s40328-022-00382-8](https://doi.org/10.1007/s40328-022-00382-8)
CONTRIBUTORS: Mahmoud Abdellatif; Norbert P. Szabó
Source: Crossref
- Interval inversion based well log analysis assisted by petrophysical laboratory measurements for evaluating tight gas formations in Derecske through, Pannonian basin, east Hungary**
Journal of Petroleum Science and Engineering
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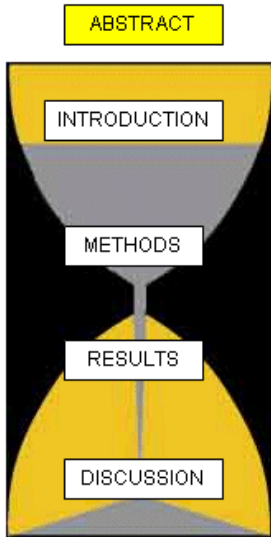
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Aspects of Preparation of Scientific Papers

IMRAD (Introduction, Methods, Results, and Discussion)



- » **Sand Glass Model** - The introductory part places the research to be presented in a broader context and describes the previous literature results. As the text progresses, the topic should become narrower and narrower, until finally, by the end of the introductory part, it should lead to the specific hypotheses and objectives of the research. The hypotheses, together with the methods part, form the narrowest part of the hourglass, which are specific to our research, just like the results to be presented. The hourglass begins to expand again in its discussion section
- » **Introduction section** - Why was the study undertaken? What was the research question, the tested hypothesis or the purpose of the research?
- » **Methods section** - When, where, and how was the study done? What materials (data, model) were used?
- » **Results section** - What answer was found to the research question; what did the study find? Was the tested hypothesis true?
- » **Discussion section** - What might the answer imply and why does it matter? How does it fit in with what other researchers have found? What are the perspectives for future research?

Title and Abstract

- » Title should contain keywords to reflect the main issues (findings) in your article
- » Title should be simple, short, imaginative and catchy
- » Typically, abstract length is between 100 to 500 words containing normally one paragraph
- » Should grab the reader's attention
- » Should be concise, no citation, figures and formulae are included
- » Brief reminder of the context, and a brief statement of the main objective
- » The main methods should be outlined
- » List the main results, they do not need to be described in detail, the abstract should only anticipate them
- » No discussion and conclusions are included
- » 5-6 keywords must be given, sometimes also highlights should be added up to 85 characters

Introduction Section

- » Literature review on scientific background and relevant research results
- » Explaining briefly, using appropriate references, what is already known about this subject
- » Describe something that has not applied yet, criticism for existing methods, shortcomings, possible fields of further development or improvement
- » Formulation of your objective is of paramount importance, clearly state your working hypothesis, write explicitly your assumptions, cite the exact parameters you plan to measure or study
- » Write your strategy implemented to achieve these goals
- » It should be understandable not only by specialists in the field
- » Why your study/method is innovative? What is new?

Methods Section

- » Start with problem description, specify the applied methods, instruments and tools, geological setting etc.
- » Should describe exactly what you did including all tests, analyses, modeling process, products etc.
- » Give sufficient details, dataset, parameters, relevant literature resources for the reader to be able to reproduce your study
- » Mathematical formulation must be consistent, do not use a different notations for the same parameter; for too many parameters write a Nomenclature at the end of the paper; too long mathematical derivations should be avoided, place long derivations to the Appendices at the end of the article; note that generally matrices and vectors are written using bold fonts, while scalars are written using nonbold italic characters
- » Make a flowchart for better understanding your research workflow
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- » Writing in active or passive voice, and tenses depend on the journal requirements

Results Section

- » Describe the result obtained for every method that was outlined in the methods section without further method description, commentary or discussion
- » Not all but the most significant diagrams, sections, plots, tables should be attached; they should show the most important results; they must justify and support the described results and serve to make it easier to understand
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- » When writing use the same voice and tense as earlier
- » In highly ranked scientific journals, figures must be prepared at least in 300/600 dpi resolution

Discussion and Conclusions Section

- » Start with a brief summary of the main findings of your study, preferably using the same formulation in the Introduction and Methods sections
- » Compare the obtained results of different methods
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- ›› Rigorous formal requirements for references, e.g., in Elsevier journals
- ›› **For papers:** Van der Geer, J., Hanraads, J.A.J., Lupton, R.A., 2010. The art of writing a scientific article. *J. Sci. Commun.* 163, 51–59. <https://doi.org/10.1016/j.Sc.2010.00372>.
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- ›› **For book chapter:** Mettam, G.R., Adams, L.B., 2009. How to prepare an electronic version of your article, in: Jones, B.S., Smith, R.Z. (Eds.), *Introduction to the Electronic Age*. E-Publishing Inc., New York, pp. 281–304.
- ›› **Reference to website:** Cancer Research UK, 1975. Cancer statistics reports for the UK. <http://www.cancerresearchuk.org/aboutcancer/statistics/cancerstatsreport/> (accessed 13 March 2003).
- ›› **Other sources:** online documents, dissertation, conference paper, electronic supplementary materials and databases, personal communication etc.
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Any questions?

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