

Universitatea Petrol-Gaze din Ploiesti

Facultatea Ingineria Petrolului si Gazelor

Departamentul Forajul Sondelor, Extractia si Transportul Hidrocarburilor

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LISTA LUCRĂRILOR ȘTIINȚIFICE (selecție reprezentativă pentru domeniul disciplinelor din postul didactic)

A. Teza de doctorat

Petru Ciobanu: *Determinarea tensiunilor dintr-un masiv de roci prin intermediul sondelor*, Universitatea Petrol-Gaze din Ploiești, 126 pag, 1999, Ploiești.

B. Cărți și capitole din cărți

1. **Petru Ciobanu:** *Mecanica rocilor traversate prin foraj*, 2009, Editura Universității Petrol-Gaze din Ploiești, ISBN 978-973-719-294-3, (144 pag.)

2. **Petru Ciobanu:** *Mecanica rocilor poroase*, 2017, Editura Universității Petrol-Gaze din Ploiești, ISBN 978-973-719-712-2, (216 pag.)

3. **Petru Ciobanu:** *Mecanica rocilor cu aplicatii numerice*, 2018, Editura Universității Petrol-Gaze din Ploiești, ISBN 978-973-719-749-8, (210 pag.)

4. **Petru Ciobanu s.a.:** *Rock Mechanics for Resources, Energy and Environment*, 2014, CRC Press/Balkema, The Netherlands, Editors M. Kwasniewski, D. Lydzba, ISBN 978-1-138-00080-3, (983pag.)

5. **Petru Ciobanu s.a.:** *Computational Vision and Medical Image Processing*, 2014, CRC Press/Balkema, Taylor&Francis Group, UK, Editors João Tavares M., Natal Jorge R., ISBN: 978-1-138-00081-0, (432 pag.)

C. Lucrări publicate în reviste și volume de conferințe cu referenți

1. **Ciobanu P:** *About mechanical strength of porous materials*, AIP (American Institute of Physics), ISSN: 0094-243X, E-ISSN: 1551-7616, vol. 1400, pag. 453-459, 2011, DOI: 10.1063/1.3663162

2. **Ciobanu P, Cristescu T, Nicolescu C:** *An algorithm for the design of selection pipes and process parameters in the decanting of solid-liquid heterogenous systems by levigation*, Revista de chimie (Bucuresti), ISSN 0034-7752 vol. 60, nr. 12, dec. 2009, pag. 1330 – 1334

3. **Ciobanu, P**, Avram, L: *New elements in geomechanics submarine rocks*, Proceedings of the Annual Offshore Technology Conference, Kuala-Lumpur, **Malaezia**, 2014, Vol. 1, pag 531-537, ISBN 978-1-61399-312-5, DOI: 10.2118/24729
4. **Ciobanu, P**: *Effective stresses in cohesive discontinuous rocks around a vertical drill hole*, ISRM International Symposium (EUROCK), **Polonia**, 2013, ISBN: 978-1-4822-2907-3, WOS: 000337166500033
5. **Ciobanu, P**, Avram, L, Aron, D: *On the effective stress of the porous rocks saturated with gases around a vertical wellbore*, VII International Geomechanics Conference, Varna, **Bulgaria**, 2016, ISSN: 1314-6467, DOI: 10.1063/1.3663162
6. **Ciobanu P**: *About ultimate strength of layered and cracked rocks*, 34th International Geological Congress 34IGC, **2012**, Brisbane, **Australia**.
7. **Ciobanu P**: *Effective stresses in porous rocks saturated with viscous fluid at rest*, Int. J. Rock Mech. & Geomech., Vol. 1, nr. 1, p. 101-114, September 2016 (IJRMG-101), ISSN 2537 – 5091.
8. **Ciobanu P**: *Breaking limits of a porous rock saturated with viscous fluid at rest*, Int. J. Rock Mech. & Geomech., Vol. 1, nr. 2, p. 1 - 16, December 2016 (IJRMG-102), ISSN 2537 – 5091.
9. **Ciobanu P**: *Geomechanics versus Rock Mechanics*, Int. J. Rock Mech. & Geomech., Vol. 1, nr. 2, p. 201 -204, December 2016 (IJRMG-201), ISSN 2537 – 5091.
10. **Ciobanu, P**, Ciobanu SV: *The Numeric Simulator of Human Body (NSHB) - a future scientific research tool in Medicine*, Computational Vision and Medical Image Processing IV - VIPIMAGE 2013, Funchal, **Portugalia**, WOS: 000338331400031
11. Cristescu T., **Ciobanu P.**: *On a Class of Thermodynamic Processes Involved in the Transport and Storage of Liquefied Petroleum Gas*, Buletinul UPG, Seria Tehnică, ISSN 1224-8495, vol. LXII, nr. 3B, pag. 162-168, **2010**
12. Precup T., Vasile M., **Ciobanu P.**: *Opportunities for CO2 storage in depleted gas deposits in Romania*, GS-SPE Student Technical Conference, 7-8.10.**2010**, Wietze (Celle), **Germania**
13. Vasile M., Precup T., **Ciobanu P.**: *New aspects on hydraulic fracturing around horizontal wells*, GS-SPE Student Technical Conference, 7-8.10.**2010**, Wietze (Celle), **Germania**
14. Sîrghii V., **Ciobanu P**: *Particularities regarding hydraulic fracturing of rocks around a borehole that traverses shale gas formations*, 2014 SPE European Regional Student Paper Contest, 2-3 June **2014**, London, **UK**
15. Feghiu P., **Ciobanu P.**: *Situations regarding the effect of the pressure in the probe on the main stresses in the rocks crossed by drilling*, SPE Caspian Regional Student Paper Contest, Moscova, Rusia, noe. **2014**, Moscova, **Rusia**
16. Sîrghii V., **Ciobanu P.**: *Particularities regarding hydraulic fracturing of rocks around a borehole that traverses shale gas formations*, SPE Caspian Regional Student Paper Contest, Moscova, Rusia, noe. **2014**, Moscova, **Rusia**

17. **Ciobanu P.:** *A new concept and model of evaluating the effective stresses designed for the cohesive, porous and cracked rocks*, Hi Tech - 2011 (XI INTERNATIONAL SCIENTIFIC - PRACTICAL CONFERENCE "BASIC AND APPLIED RESEARCH, DEVELOPMENT AND APPLICATION OF HIGH TECHNOLOGIES IN INDUSTRY"), 27 – 29 apr. **2011**, St. Petersburg, **Rusia**
18. **Ciobanu P:** *Simulator numeric de foraj pentru sondele de petrol*, EEE-2011, **2011**, Bucuresti.
19. Ionita V, **Ciobanu P:** *Aspecte privind fracturarea hidraulică a rocilor saturate cu gaze de sist*, "Student Paper Annual Contest - 5'th Edition", **2012**, SPE-UPG Ploiesti.
20. **Ciobanu P:** *Simulator numeric pentru regimul hidraulic de foraj al sondelor de petrol*, EEE-**2012**, Bucuresti.

Semnătura