

Stanislav Glubokovskikh

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- Profile** I am a passionate research geoscientist with 10 years experience in various R&D institutions with strong expertise in geodata analysis and inversion, rock physics.
- Education** **2012 - Lomonosov Moscow State University (Russia)**
Ph.D., Geophysics (major in physics and mathematics), 2012.
Fields: Seismic Modelling, Effective Medium Theory, Inverse Problems
- PhD Thesis** **Upscaling workflow for seismic properties of fractured carbonate rocks based on computer and physical modelling**
Developed a robust seismic characterisation framework for a fractured carbonate oil reservoir, by integrating extensive numerical simulations and laboratory data
- Research Positions** **Energy Geosciences Division, Lawrence Berkeley National Laboratory**
Career Research Scientist, 11/2020-present;
- Rapid visualisation of hydraulic fractures in unconventional reservoirs
 - Seismic characterisation of geothermal reservoirs
- Department of Exploration Geophysics, Curtin University**
Senior Research Fellow, 10/2017-present; Research Fellow, 01/2015-10/2017
- A deep neural network for real-time data assimilation, risks detection and forecasting for continuous seismic reservoir monitoring system
 - A robust workflow for calibration of the seismic interpretation models to logs-labs-images, based on digital rock physics and machine learning
 - A workflow for modelling-driven seismic monitoring design and optimisation
 - A number of challenging seismic reservoir characterisation projects, relying on advanced algorithms for machine learning and statistical seismic inversion
 - R&D for quantitative analysis of the passive/active DAS data
 - The author of fundamental models of wave-induced fluid flow in fractured rocks
- Centre for Seismic Data Analysis, Lomonosov Moscow State University**
Senior Rock Physicist, 2014
- Developed a methodology for rock physics-based seismic prediction/ranking of shallow marine geohazards for offshore drilling
 - Led a geomechanical and geophysical effort in the safe borehole planning and design in an Eastern Siberian field for GazpromNeft

**Laboratory of Geophysical Modelling,
2008-2014 Russian State Research Centre of Geosystems**

Junior/Full/Senior Research Fellow

- A modelling-driven seismic characterisation workflow, using geological modelling, rock physics, full-waveform simulations and a stochastic analysis
- Led a team developing software for amplitude-preserving PSDM and anisotropic AVO-analysis in carbonate fractured reservoirs

Research

2019 May-July Advanced Research Centre, Saudi Aramco

Visits

- R&D of statistical learning algorithms for real-time formation evaluation using drilling parameters and measurements while drilling

2013 Oct-Dec Department of Exploration Geophysics, Curtin University

- R&D of software for design of seismic feasibility study

2011 Oct-Dec Institute of Geophysics, Free University of Berlin

- Active seismic characterization of hydraulic fractures

Teaching
Positions

Department of Exploration Geophysics, Curtin University

- Associate Supervisor for 7 PhD students, 2015 - present
- Unit Coordinator, Geophysical Reservoir characterization , 2015 - present
- Lecturer, Rock Physics, 2015 - present
- Lecturer/Instructor, Introduction to Seismic Exploration , 2015 - present

Department of Pure and Applied Geophysics, University of Dubna

- Unit Coordinator, Field Theory , 2012 - 2014
- Unit Coordinator, Physics of the Earth, 2012 - 2014
- Instructor, Ordinary Differential Equations, 2007 - 2012
- Instructor, Seismic Imaging, 2007 - 2012

Dissemination
Record

h-index 16 (Google Scholar); 11 (Scopus); 10 (Web of Science)

Published peer-reviewed contributions 40 (under review 3)

Patent 1

Major industry reports 30+

Invited talks 17

Conference papers 50+

Service to
Profession

Associate Editor

- Geophysics;
- Exploration Geophysics

Organizing Committee

- Chair 'Opportunities and applications for machine learning in exploration geophysics', Perth 2019
- The 5th International Workshop on Rock Physics, Hong-Kong 2019
- Australian Exploration Geoscience Conference (AEGC 2019), Perth 2019
- Post-convention workshop on CO₂ monitoring (SEG2019), San Antonio 2019

Awards &
honors

2021, The Early Achievement Award by the Australian SEG

2019, Louis Cagniard Award at the 80th EAGE Annual Meeting in Copenhagen

2018, The Most Downloaded paper in Geophysical Prospecting

2016, Chevron Geology/Geophysics award for an outstanding Honours project

2012, Award for excellence in R&D Russian State Agency for Mineral Resources Exploration

2011, G-RISC research grant from German Academic Exchange Service

2007-2008, Moscow Government Scholarship for outstanding results in learning and research

Skills

Programming Matlab/Mathematica/Python (advanced), perl/bash (ok)

Software Petrel, SU, Delivery suite, sklearn, RokDoc, RadExPro, SOFI3D/IFOS, COMSOL

Achievements

Completed and enjoyed Perth Marathon 2017; 4 volumes of Tolstoy's "War and Peace"; Anthropology and Environmental History course

Stanislav Glubokovskikh

PATENTS

- 2021 Bakulin, A., R. Smith, and S. **Glubokovskikh** (May 13, 2021). “Determination of elastic properties of a geological formation using machine learning applied to data acquired while drilling”. US patent 2021/0140298 A1. Saudi Arabian Oil Company.

BOOK CHAPTERS

- 2019 Pevzner, R., M. Urosevic, K. Tertyshnikov, H. AlNasser, E. Caspari, J. Correa, T. Daley, T. Dance, B. Freifeld, S. **Glubokovskikh**, A. Greenwood, A. Kepic, D. Popik, S. Popik, M. Raab, M. Robertson, V. Shulakova, R. Singh, M. Watson, S. Yavuz, S. Ziramov, and B. Gurevich (2019). *Active surface and borehole seismic monitoring of a small supercritical CO₂ injection into the subsurface: Experience from the CO₂CRC otway project*. **citations**, 3, pp. 497–522. DOI: 10.1016/B978-0-08-102684-7.00024-8.

JOURNAL PAPERS

- 2021 Aldakheel, M., R. Pevzner, B. Gurevich, and S. **Glubokovskikh** (2021). “Seismic Characterization of a CO₂ Storage Driven by Time-Lapse Images of a Prior Injection using Artificial Neural Network”. In: *Interpretation* 14.3. **citations**, 0, pp. 1–47. DOI: 10.1190/int-2020-0244.1.

Glubokovskikh, S., R. Wang, L. Ricard, M. Bagheri, B. Gurevich, and R. Pevzner (2021). “Toward Automated Early Detection of Risks for a CO₂ Plume Containment From Permanent Seismic Monitoring Data”. In: *Journal of Geophysical Research: Solid Earth* 126.5. **citations**, 0. DOI: 10.1029/2020JB021087.

Isaenkov, R., R. Pevzner, S. **Glubokovskikh**, S. Yavuz, A. Yurikov, K. Tertyshnikov, B. Gurevich, J. Correa, T. Wood, B. Freifeld, M. Mondanos, S. Nikolov, and P. Barraclough (2021). “An automated system for continuous monitoring of CO₂ geosequestration using multi-well offset VSP with permanent seismic sources and receivers: Stage 3 of the CO₂CRC Otway Project”. In: *International Journal of Greenhouse Gas Control* 108. **citations**, 1. DOI: 10.1016/j.ijggc.2021.103317.

Popik, S., R. Pevzner, A. Bona, K. Tertyshnikov, S. **Glubokovskikh**, and B. Gurevich (2021). “Estimation of P-wave anisotropy parameters from 3D vertical seismic profile with distributed acoustic sensors and geophones for seismic imaging in the CO₂CRC Otway Project”. In: *Geophysical Prospecting* 69.4. **citations**, 0, pp. 842–855. DOI: 10.1111/1365-2478.13080.

Prasad, M., S. **Glubokovskikh**, T. Daley, S. Oduwole, and W. Harbert (2021). “CO₂ messes with rock physics”. In: *Leading Edge* 40.6. **citations**, 1, pp. 424–432. DOI: 10.1190/tle40060424.1.

Yurikov, A., R. Pevzner, S. **Glubokovskikh**, K. Tertyshnikov, and B. Gurevich (2021). “Multi-well 3D DAS VSP imaging with engineered fibres: CO₂CRC Otway Project case study.” In: *Geophysics* na.na. accepted, na. DOI: na.

- 2020 Alkhimenkov, Y., E. Caspari, B. Gurevich, N.D. Barbosa, S. **Glubokovskikh**, J. Hunziker, and B. Quintal (2020). “Frequency-dependent attenuation and dispersion caused by squirt flow: Three-dimensional numerical study”. In: *Geophysics* 85.3. **citations**, 6, MR129–MR145. DOI: 10.1190/geo2019-0519.1.
- Glubokovskikh**, S., R. Pevzner, J. Gunning, T. Dance, V. Shulakova, D. Popik, S. Popik, M. Bagheri, and B. Gurevich (2020). “How well can time-lapse seismic characterize a small CO₂ leakage into a saline aquifer: CO₂CRC Otway 2C experiment (Victoria, Australia)”. In: *International Journal of Greenhouse Gas Control* 92. **citations**, 10, DOI: 10.1016/j.ijggc.2019.102854.
- Liang, J., B. Gurevich, M. Lebedev, S. Vialle, A. Yurikov, and S. **Glubokovskikh** (2020). “Elastic Moduli of Arenites From Microtomographic Images: A Practical Digital Rock Physics Workflow”. In: *Journal of Geophysical Research: Solid Earth* 125.10. **citations**, 0. DOI: 10.1029/2020JB020422.
- Pevzner, R., B. Gurevich, A. Pirogova, K. Tertyshnikov, and S. **Glubokovskikh** (2020). “Repeat well logging using earthquake wave amplitudes measured by distributed acoustic sensors”. In: *Leading Edge* 39.7. **citations**, 2, pp. 513–517. DOI: 10.1190/tle39070513.1.
- Popik, S., R. Pevzner, K. Tertyshnikov, D. Popik, M. Urosevic, V. Shulakova, S. **Glubokovskikh**, and B. Gurevich (2020). “4D surface seismic monitoring the evolution of a small CO₂ plume during and after injection: CO₂CRC Otway Project study”. In: *Exploration Geophysics* 51.5. **citations**, 3, pp. 570–580. DOI: 10.1080/08123985.2020.1735934.
- Sun, Y., B. Gurevich, S. **Glubokovskikh**, M. Lebedev, A. Squelch, C. Arns, and J. Guo (2020). “A solid/fluid substitution scheme constrained by pore-scale numerical simulations”. In: *Geophysical Journal International* 220.3. **citations**, 1, pp. 1804–1812. DOI: 10.1093/gji/ggz556.
- 2019 Dance, T., T. LaForce, S. **Glubokovskikh**, J. Ennis-King, and R. Pevzner (2019). “Illuminating the geology: Post-injection reservoir characterisation of the CO₂CRC Otway site”. In: *International Journal of Greenhouse Gas Control* 86. **citations**, 7, pp. 146–157. DOI: 10.1016/j.ijggc.2019.05.004.
- Mikhaltsevitch, V., M. Lebedev, B. Gurevich, Y. Sun, and S. **Glubokovskikh** (2019). “A Seismic-Frequency Laboratory Study of Solid Substitution in Bentheim Sandstone”. In: *Journal of Geophysical Research: Solid Earth* 124.6. **citations**, 2, pp. 5492–5499. DOI: 10.1029/2018JB016960.
- Pirogova, A., R. Pevzner, B. Gurevich, S. **Glubokovskikh**, and K. Tertyshnikov (2019). “Multiwell study of seismic attenuation at the CO₂CRC Otway project geosequestration site: Comparison of amplitude decay, centroid frequency shift and 1D waveform inversion methods”. In: *Geophysical Prospecting* 67.7. **citations**, 0, pp. 1778–1797. DOI: 10.1111/1365-2478.12796.
- Sun, Y., B. Gurevich, M. Lebedev, S. **Glubokovskikh**, V. Mikhaltsevitch, and J. Guo (2019). “A triple porosity scheme for fluid/solid substitution: theory and experiment”. In: *Geophysical Prospecting* 67.4. **citations**, 4, pp. 888–899. DOI: 10.1111/1365-2478.12677.

- 2018 Egorov, A., J. Correa, A. Bóna, R. Pevzner, K. Tertyshnikov, S. **Glubokovskikh**, V. Puzyrev, and B. Gurevich (2018). “Elastic full-waveform inversion of vertical seismic profile data acquired with distributed acoustic sensors”. In: *Geophysics* 83.3. **citations**, 9, R273–R281. DOI: 10.1190/GE02017-0718.1.
- Egorov, A., S. **Glubokovskikh**, A. Bóna, R. Pevzner, B. Gurevich, and M. Tokarev (2018). “How rough sea affects marine seismic data and deghosting procedures”. In: *Geophysical Prospecting* 66.1. **citations**, 9, pp. 3–12. DOI: 10.1111/1365-2478.12535.
- Fu, B.-Y., J. Guo, L.-Y. Fu, S. **Glubokovskikh**, R.J. Galvin, and B. Gurevich (2018). “Seismic Dispersion and Attenuation in Saturated Porous Rock With Aligned Slit Cracks”. In: *Journal of Geophysical Research: Solid Earth* 123.8. **citations**, 18, pp. 6890–6910. DOI: 10.1029/2018JB015918.
- Guo, J., J. Germán Rubino, S. **Glubokovskikh**, and B. Gurevich (2018). “Dynamic seismic signatures of saturated porous rocks containing two orthogonal sets of fractures: Theory versus numerical simulations”. In: *Geophysical Journal International* 213.2. **citations**, 9, pp. 1244–1262. DOI: 10.1093/gji/ggy040.
- Guo, J., J.G. Rubino, N.D. Barbosa, S. **Glubokovskikh**, and B. Gurevich (2018a). “Seismic dispersion and attenuation in saturated porous rocks with aligned fractures of finite thickness: Theory and numerical simulations - part 1: P-wave perpendicular to the fracture plane”. In: *Geophysics* 83.1. **citations**, 41, WA49–WA62. DOI: 10.1190/GE02017-0065.1.
- Guo, J., J.G. Rubino, N.D. Barbosa, S. **Glubokovskikh**, and B. Gurevich (2018b). “Seismic dispersion and attenuation in saturated porous rocks with aligned fractures of finite thickness: Theory and numerical simulations - part 2: Frequency-dependent anisotropy”. In: *Geophysics* 83.1. **citations**, 30, WA63–WA71. DOI: 10.1190/GE02017-0066.1.
- 2017 Egorov, A., R. Pevzner, A. Bóna, S. **Glubokovskikh**, V. Puzyrev, K. Tertyshnikov, and B. Gurevich (2017). “Time-lapse full waveform inversion of vertical seismic profile data: Workflow and application to the CO2CRC Otway project”. In: *Geophysical Research Letters* 44.14. **citations**, 13, pp. 7211–7218. DOI: 10.1002/2017GL074122.
- Glubokovskikh**, S. and B. Gurevich (2017a). “Effect of grain-scale gas patches on the seismic properties of double porosity rocks”. In: *Geophysical Journal International* 208.1. **citations**, 5, pp. 432–436. DOI: 10.1093/gji/ggw406.
- Glubokovskikh**, S. and B. Gurevich (2017b). “Optimal bounds for attenuation of elastic waves in porous fluid-saturated media”. In: *Journal of the Acoustical Society of America* 142.5. **citations**, 3, pp. 3321–3329. DOI: 10.1121/1.5011748.
- Guo, J., J.G. Rubino, S. **Glubokovskikh**, and B. Gurevich (2017). “Effects of fracture intersections on seismic dispersion: theoretical predictions versus numerical simulations”. In: *Geophysical Prospecting* 65.5. **citations**, 24, pp. 1264–1276. DOI: 10.1111/1365-2478.12474.

- Pevzner, R., M. Urosevic, D. Popik, V. Shulakova, K. Tertyshnikov, E. Caspari, J. Correa, T. Dance, A. Kepic, S. **Glubokovskikh**, S. Ziramov, B. Gurevich, R. Singh, M. Raab, M. Watson, T. Daley, M. Robertson, and B. Freifeld (2017). “4D surface seismic tracks small supercritical CO₂ injection into the subsurface: CO₂CRC Otway Project”. In: *International Journal of Greenhouse Gas Control* 63. **citations**, 30, pp. 150–157. DOI: 10.1016/j.ijggc.2017.05.008.
- 2016 **Glubokovskikh**, S., B. Gurevich, M. Lebedev, V. Mikhaltsevitch, and S. Tan (2016). “Effect of asperities on stress dependency of elastic properties of cracked rocks”. In: *International Journal of Engineering Science* 98. **citations**, 11, pp. 116–125. DOI: 10.1016/j.i.jengsci.2015.09.001.
- Glubokovskikh**, S., B. Gurevich, and N. Saxena (2016). “A dual-porosity scheme for fluid/solid substitution”. In: *Geophysical Prospecting* 64.4. **citations**, 12, pp. 1112–1121. DOI: 10.1111/1365-2478.12389.
- Glubokovskikh**, S., R. Pevzner, T. Dance, E. Caspari, D. Popik, V. Shulakova, and B. Gurevich (2016). “Seismic monitoring of CO₂ geosequestration: CO₂CRC Otway case study using full 4D FDTD approach”. In: *International Journal of Greenhouse Gas Control* 49. **citations**, 24, pp. 201–216. DOI: 10.1016/j.ijggc.2016.02.022.
- Saxena, N., G. Mavko, R. Hofmann, B. Gurevich, S. **Glubokovskikh**, S. Aliyeva, and P. Dutta (2016). “Rock-physics models for heavy-oil and organic-solid substitution”. In: *Leading Edge* 35.6. **citations**, 6, pp. 506–510. DOI: 10.1190/tle35060506.1.
- 2015 **Glubokovskikh**, S. and B. Gurevich (2015). “Effect of micro-inhomogeneity on the effective stress coefficients and undrained bulk modulus of a poroelastic medium: A double spherical shell model”. In: *Geophysical Prospecting* 63.3. **citations**, 8, pp. 656–668. DOI: 10.1111/1365-2478.12222.
- 2013 Korneev, V. and S. **Glubokovskikh** (2013). “Seismic velocity changes caused by an overburden stress”. In: *Geophysics* 78.5. **citations**, 14, WC25–WC31. DOI: 10.1190/GE02012-0380.1.
- Oelke, A., D. Alexandrov, I. Abakumov, S. **Glubokovskikh**, R. Shigapov, O.S. Krüger, B. Kashtan, V. Troyan, and S.A. Shapiro (2013). “Seismic reflectivity of hydraulic fractures approximated by thin fluid layers”. In: *Geophysics* 78.4. **citations**, 11, T79–T87. DOI: 10.1190/GE02012-0269.1.
- 2011 **Glubokovskikh**, S., S. Kaplan, and V.E. Rok (2011). “Effective Seismic Modeling of Porous-Fractured Reservoirs of East Siberia”. In: *Geoinformatica* 26.1. **citations**, 3; Russian, pp. 43–48.
- Glubokovskikh**, S., S. Kaplan, V.E. Rok, and Yu.A. Titova (2011). “Theoretical and Experimental Investigations of Effect of Aligned Vertical Fractureing on Effective Seismoacoustic Properties of Rocks”. In: *Seismic Technologies* 4. **citations**, 2; Russian, pp. 62–69.
- Kaplan, S., V. Levchenko, V. Rok, S. **Glubokovskikh**, and Yu. Titova (2011). “Capability of Multicomponent Seismology Data in Assistance with 3D Seismic Computer Modeling”. In: *Geoinformatica* 26.1. **citations**, 5; Russian, pp. 49–55.

CONFERENCE PAPERS

- 2020 Alkhimenkov, Y., E. Caspari, N.D. Barbosa, S. **Glubokovskikh**, B. Gurevich, and B. Quintal (2020). “Numerical study of dispersion and attenuation caused by squirt flow”. In: *SEG International Exposition and Annual Meeting 2019*. cited By 0, pp. 3563–3567. DOI: 10.1190/segam2019–3201912.1.
- 2019 Isaenkov, R., S. **Glubokovskikh**, and B. Gurevich (2019). “Feasibility of the quantitative time-lapse seismic characterisation of a heterogeneous CO₂ injection”. In: *Australian Exploration Geophysics Conference AEGC 2019*. **citations**, 1. DOI: 10.1080/22020586.2019.12073195.
- Lebedev, M., V. Mikhaltsevitch, B. Gurevich, Y. Sun, and S. **Glubokovskikh** (2019). “An experimental study of solid-filled Bentheim sandstone at seismic frequencies”. In: *2018 SEG International Exposition and Annual Meeting, SEG 2018*. cited By 0, pp. 3643–3647. DOI: 10.1190/segam2018–2998172.1.
- Pevzner, R., S. **Glubokovskikh**, K. Tertyshnikov, S. Yavuz, A. Egorov, E. Sidenko, S. Popik, L. Ricard, J. Correa, T. Wood, B. Freifeld, and B. Gurevich (2019). “Permanent downhole seismic monitoring for CO₂ geosequestration: Stage 3 of the CO₂CRC Otway project”. In: *Asia Petroleum Geoscience inproceedings and Exhibition, APGCE 2019*. cited By 0. DOI: 10.3997/2214–4609.201903366.
- Sun, Y., B. Gurevich, M. Lebedev, S. **Glubokovskikh**, A. Squelch, and J. Guo (2019). “Solid substitution: Modeling elastic properties of porous and cracked rocks saturated with liquid and solid Octodecane”. In: *2018 SEG International Exposition and Annual Meeting, SEG 2018*. cited By 1, pp. 3478–3482. DOI: 10.1190/segam2018–2995287.1.
- Tan, W., V. Mikhaltsevitch, M. Lebedev, S. **Glubokovskikh**, and B. Gurevich (2019). “The sample boundary effect in the low-frequency measurements of the elastic moduli of rocks”. In: *Australian Exploration Geophysics Conference AEGC 2019*. **citations**, 1. DOI: 10.1080/22020586.2019.12073061.
- 2018 Egorov, A., A. Bona, R. Pevzner, S. **Glubokovskikh**, and V. Puzyrev (2018). “A feasibility study of time-lapse FWI on DAS VSP data acquired with permanent sources”. In: *80th EAGE inproceedings and Exhibition 2018: Opportunities Presented by the Energy Transition*. cited By 0. DOI: 10.3997/2214–4609.201801294.
- Egorov, Anton, Andrej Bóna, Roman Pevzner, Stanislav **Glubokovskikh**, and Konstantin Tertyshnikov (2018). “Application of time-lapse full waveform inversion of vertical seismic profile data for the identification of changes introduced by CO₂ sequestration”. In: *Exploration Geophysics Conference AEGC 2018*. Taylor Francis. DOI: 10.1071/ASEG2018abW8_2B.
- Feitz, A., K. Tertyshnikov, R. Pevzner, L. Ricard, B. Harris, R. Schaa, U. Schacht, A. Kalinowski, S. Vialle, S. **Glubokovskikh**, M. Lebedev, E. Tenthorey, Z. Pan, J. Ennis-King, L. Wang, S. Hossein, T. Ransley, B. Radke, M. Urosevic, and R. Singh (2018). “The CO₂CRC Otway shallow CO₂ controlled release experiment: Preparation for Phase 2”. In: *Energy Procedia*. Vol. 154. cited By 5, pp. 145–150. DOI: 10.1016/j.egypro.2018.11.024.

Glubokovskikh, Stanislav, Roman Pevzner, Dmitry Popik, Christian Proud, James Gunning, and Tess Dance (2018). “Rock-physics based time-lapse inversion in Delivery4D: synthetic feasibility study for CO2CRC Otway Project”. In: *Exploration Geophysics Conference AEGC 2018*. Taylor Francis. DOI: 10.1071/ASEG2018abW8_1B.

Glubokovskikh, Stanislav, Andrej Bona, Roman Pevzner, Anton Egorov, and Ludovic Ricard (2018). “Feasibility of Seismic Monitoring of CCS in Perth Basin”. In: *Exploration Geophysics Conference AEGC 2018*. Taylor Francis. DOI: 10.1071/ASEG2018abW9_1B.

Guo, Junxin, Stanislav **Glubokovskikh**, Boris Gurevich, and J. German Rubino (2018). “Seismic Signatures of Fractured Reservoirs: Theory Versus Numerical Simulations”. In: *Exploration Geophysics Conference AEGC 2018*. Taylor Francis. DOI: 10.1071/ASEG2018abP070.

Lebedev, M., V. Mikhaltsevitch, B. Gurevich, S. **Glubokovskikh**, and Y. Sun (2018). “A simple recipe for estimating the change in elastic properties of porous rocks with solid infill”. In: *80th EAGE inproceedings and Exhibition 2018: Opportunities Presented by the Energy Transition*. cited By 0.

Pevzner, R., B. Gurevich, K. Tertyshnikov, A. Pirogova, and S. **Glubokovskikh** (2018). “Repeat logging using distributed acoustic sensors and earthquakes”. In: *EAGE Reservoir Geoscience inproceedings, ResGeo 2018*. cited By 1. DOI: 10.3997/2214-4609.201803222.

Pirogova, A., R. Pevzner, B. Gurevich, S. **Glubokovskikh**, and K. Tertyshnikov (2018). “Multi-well study of seismic attenuation at the CO2CRC Otway project geosequestration site”. In: *80th EAGE inproceedings and Exhibition 2018: Opportunities Presented by the Energy Transition*. cited By 0. DOI: 10.3997/2214-4609.201801411.

Sun, Yongyang, Maxim Lebedev, Vassili Mikhaltsevitch, Stanislav **Glubokovskikh**, Stefan Iglauer, and Boris Gurevich (2018). “Solid substitution: theory versus experiment”. In: *Exploration Geophysics Conference AEGC 2018*. Taylor Francis. DOI: 10.1071/ASEG2018abW8_4A.

Tokarev, M., A. Pirogova, A. Roslyakov, N. Shalaeva, Y. Terekhina, S. **Glubokovskikh**, and N. Rybin (2018). “Evaluation of potential geological hazards in the Sea of Okhotsk from conventional 3D seismic observations”. In: *3rd Applied Shallow Marine Geophysics inproceedings*. cited By 1. DOI: 10.3997/2214-4609.201802684.

2017 Egorov, A., R. Pevzner, A. Bona, B. Gurevich, S.M. **Glubokovskikh**, K.V. Tertyshnikov, and V. Puzyrev (2017). “Full waveform inversion of time-lapse offset VSP data - CO2CRC Otway project case study”. In: *79th EAGE inproceedings and Exhibition 2017*. cited By 2. DOI: 10.3997/2214-4609.201701386.

Glubokovskikh, S., M. Lebedev, V. Mikhaltsevitch, and B. Gurevich (2017). “Seismic Effects of Viscoelastic Pore Fill on Double-Porosity Rocks”. In: *Poromechanics 2017 - Proceedings of the 6th Biot inproceedings on Poromechanics*. cited By 0, pp. 1731–1738. DOI: 10.1061/9780784480779.214.

Guo, J., J.G. Rubino, B. Gurevich, and S. **Glubokovskikh** (2017). “Effects of Finite Fracture Thickness on Seismic Dispersion and Attenuation in Saturated Rocks with Aligned Penny-Shaped Cracks: Theory versus Numerical Simulation”. In: *Poromechanics 2017 - Proceedings of the 6th Biot inproceedings on Poromechanics*. cited By 0, pp. 1548–1555. DOI: 10.1061/9780784480779.192.

Jenkins, C., S. Marshall, T. Dance, J. Ennis-King, S. **Glubokovskikh**, B. Gurevich, T. La Force, L. Paterson, R. Pevzner, E. Tenthorey, and M. Watson (2017). “Validating Subsurface Monitoring as an Alternative Option to Surface MV - The CO2CRC’s Otway Stage 3 Injection”. In: *Energy Procedia*. Vol. 114. cited By 8, pp. 3374–3384. DOI: 10.1016/j.egypro.2017.03.1469.

Pevzner, R., M. Urosevic, K. Tertyshnikov, B. Gurevich, V. Shulakova, S. **Glubokovskikh**, D. Popik, J. Correa, A. Kopic, B. Freifeld, M. Robertson, T. Wood, T. Daley, and R. Singh (2017a). “Seismic monitoring of a small-scale supercritical CO₂/CH₄ Injection-CO₂CRC otway stage 2C Case Study”. In: *EAGE/SEG Research Workshop 2017 on Geophysical Monitoring of CO₂ Injections: CCS and CO₂-EOR*. cited By 0, pp. 44–48. DOI: 10.3997/2214-4609.201701938.

Pevzner, R., M. Urosevic, K. Tertyshnikov, B. Gurevich, V. Shulakova, S. **Glubokovskikh**, D. Popik, J. Correa, A. Kopic, B. Freifeld, M. Robertson, T. Wood, T. Daley, and R. Singh (2017b). “Stage 2C of the CO₂CRC Otway Project: Seismic Monitoring Operations and Preliminary Results”. In: *Energy Procedia*. Vol. 114. cited By 8, pp. 3997–4007. DOI: 10.1016/j.egypro.2017.03.1540.

Pirogova, A., B. Gurevich, R. Pevzner, and S.M. **Glubokovskikh** (2017). “Estimation of intrinsic Q in finely-layered media by wavefield inversion of VSP data - Australian North West Shelf case-study”. In: *79th EAGE inproceedings and Exhibition 2017*. cited By 1. DOI: 10.3997/2214-4609.201700514.

Shulakova, V., R. Pevzner, S.M. **Glubokovskikh**, D. Popik, and K.V. Tertyshnikov (2017). “Time-lapse seismic data inversion for CO₂ sequestration CO₂CRC Otway Project”. In: *79th EAGE inproceedings and Exhibition 2017*. cited By 3. DOI: 10.3997/2214-4609.201701319.

Ziramov, S., M. Urosevic, S. **Glubokovskikh**, R. Pevzner, K. Tertyshnikov, A. Kopic, and B. Gurevich (2017). “CO₂ Storage Site Characterisation using Combined Regional and Detailed Seismic Data: Harvey, Western Australia”. In: *Energy Procedia*. Vol. 114. cited By 1, pp. 2896–2905. DOI: 10.1016/j.egypro.2017.03.1417.

2016 **Glubokovskikh**, S., M. Lebedev, V. Mikhaltsevitch, and B. Gurevich (2016). “Generalised squirt theory for an arbitrary viscoelastic pore fill and partial saturation”. In: *SEG Technical Program Expanded Abstracts*. Vol. 35. cited By 0, pp. 3513–3517. DOI: 10.1190/segam2016-13947290.1.

Glubokovskikh, S., R. Pevzner, D. Popik, T. Dance, E. Caspari, V. Shulakova, and B. Gurevich (2016). “Seismic monitoring of CO₂ geosequestration - CO₂CRC Otway case study using full 4D elastic modelling”. In: *78th EAGE inproceedings and Exhibition 2016: Efficient Use of Technology - Unlocking Potential*. cited By 0. DOI: 10.3997/2214-4609.201601316.

Guo, J., J.G. Rubino, B. Gurevich, S. **Glubokovskikh**, A. Dyskin, and E. Pasternak (2016). “Effects of fracture intersections on seismic dispersion - Theoretical predictions versus numerical simulations”. In: *78th EAGE inproceedings and Exhibition 2016: Efficient Use of Technology - Unlocking Potential*. cited By 0. DOI: 10.3997/2214-4609.201601570.

Pirogova, A., S. **Glubokovskikh**, B. Gurevich, and R. Pevzner (2016). “Approach to estimation of intrinsic attenuation by full-wavefield inversion of ZVSP data in combination with well logs”. In: *SEG Technical Program Expanded Abstracts*. Vol. 35. cited By 1, pp. 5613–5617. DOI: 10.1190/segam2016-13858659.1.

- 2015 Egorov, A., S. **Glubokovskikh**, A. Bona, R. Pevzner, B. Gurevich, and M. Tokarev (2015). “Influence of rough sea surface on sea surface reflections: Deep towed high-resolution marine seismic case study”. In: *SEG Technical Program Expanded Abstracts*. Vol. 34. cited By 2, pp. 3661–3665. DOI: 10.1190/segam2015-5897880.1.

Garagash, I.A., A.V. Dubovskaya, I.O. Bayuk, S.A. Tikhotskiy, S. **Glubokovskikh**, D.A. Korneva, and I.A. Berezina (2015). “3D geomechanical modeling of oil field on the basis of a model of the mechanical properties for the task of wells construction”. In: *Society of Petroleum Engineers - SPE Russian Petroleum Technology inproceedings*. cited By 1.

Glubokovskikh, S., B. Gurevich, M. Lebedev, and V. Mikhaltsevitch (2015). “Stress-dependence of elastic properties of rock containing finite cracks with contacting surfaces”. In: *SEG Technical Program Expanded Abstracts*. Vol. 34. cited By 0, pp. 3229–3233. DOI: 10.1190/segam2015-5905971.1.

Pirogova, A., M. Tokarev, and S. **Glubokovskikh** (2015). “AVA-study of shallow marine unconsolidated sediments using UHR multichannel seismoacoustic dataset acquired with a deep-towed system”. In: *SEG Technical Program Expanded Abstracts*. Vol. 34. cited By 2, pp. 2327–2331. DOI: 10.1190/segam2015-5899855.1.

- 2014 **Glubokovskikh**, S.M. and B. Gurevich (2014). “Double shell as a directly solvable model of a micro-inhomogeneous poroelastic medium”. In: *76th European Association of Geoscientists and Engineers inproceedings and Exhibition 2014: Experience the Energy - Incorporating SPE EUROPEC 2014*. cited By 0, pp. 3640–3644. DOI: 10.3997/2214-4609.20141027.

- 2012 **Glubokovskikh**, S.M. and V.E. Rok (2012). “Kinematic and dynamic characteristics of seismic pulses in porous-fractured rocks with effective spatial wave dispersion”. In: *Saint Petersburg 2012 - Geosciences: Making the Most of the Earth's Resources*. cited By 0. DOI: 10.3997/2214-4609.20143684.

Rok, V.E., S.A. Kaplan, and S.M. **Glubokovskikh** (2012). “E1: Seismic survey design technology based on 3D finite-difference wave field modeling”. In: *1st International inproceedings IT for Geosciences 2012*. cited By 0.

Titova, J.A., S.M. **Glubokovskikh**, V.E. Rok, S.A. Kaplan, and V.D. Levchenko (2012). “Use of 3D computer seismic full waveform simulation for validation of porous-fractured reservoirs predictions”. In: *Saint Petersburg 2012 - Geosciences: Making the Most of the Earth's Resources*. cited By 0. DOI: 10.3997/2214-4609.20143744.

2010 Rok, V.E., N.A. Karaev, S.M. **Glubkovskikh**, and E.O. Manutcharyants (2010).
“Comparison of physical modeling of elastic wave propagation in porous fractured
medium with theoretical models”. In: cited By 0. DOI: 10.3997/2214-4609.20145497.