# Boris Gurevich

List of Publications by Year
in descending order

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| 322 | 6,962 | 76031 | 97045 |
|---|---|---|---|
| papers | citations | 42 h-index | 71 g-index |

| 328 | 328 | 328 | 2382 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Seismic wave attenuation and dispersion resulting from wave-induced flow in porous rocks â€" A review. Geophysics, 2010, 75, 75A147-75A164. | 1.4 | 704 |
| 2 | A simple model for squirt-flow dispersion and attenuation in fluid-saturated granular rocks. Geophysics, 2010, 75, N109-N120. | 1.4 | 260 |
| 3 | Velocity and attenuation of elastic waves in finely layered porous rocks. Geophysical Journal International, 1995, 121, 933-947. | 1.0 | 225 |
| 4 | Elastic properties of saturated porous rocks with aligned fractures. Journal of Applied Geophysics, 2003, 54, 203-218. | 0.9 | 166 |
| 5 | A model forP-wave attenuation and dispersion in a porous medium permeated by aligned fractures. Geophysical Journal International, 2005, 163, 372-384. | 1.0 | 157 |
| 6 | Pâ€wave dispersion and attenuation in fractured and porous reservoirs â€" poroelasticity approach. Geophysical Prospecting, 2009, 57, 225-237. | 1.0 | 142 |
| 7 | Wave-induced fluid flow in random porous media: Attenuation and dispersion of elastic waves. Journal of the Acoustical Society of America, 2005, 117, 2732-2741. | 0.5 | 121 |
| 8 | Interface conditions for Biotâ€™s equations of poroelasticity. Journal of the Acoustical Society of America, 1999, 105, 2585-2589. | 0.5 | 118 |
| 9 | Prediction of sonic velocities in shale from porosity and clay fraction obtained from logs â€" A North Sea well case study. Geophysics, 2015, 80, D1-D10. | 1.4 | 106 |
| 10 | Oneâ€dimensional random patchy saturation model for velocity and attenuation in porous rocks. Geophysics, 2004, 69, 1166-1172. | 1.4 | 97 |
| 11 | Comparative review of theoretical models for elastic wave attenuation and dispersion in partially saturated rocks. Soil Dynamics and Earthquake Engineering, 2006, 26, 548-565. | 1.9 | 95 |
| 12 | Ultrasonic moduli for fluid-saturated rocks: Mavko-Jizba relations rederived and generalized. Geophysics, 2009, 74, N25-N30. | 1.4 | 90 |
| 13 | Seismic attenuation in finely layered porous rocks: Effects of fluid flow and scattering. Geophysics, 1997, 62, 319-324. | 1.4 | 89 |
| 14 | Dynamic poroelasticity of thinly layered structures. International Journal of Solids and Structures, 1998, 35, 4739-4751. | 1.3 | 88 |
| 15 | Seismic attenuation in porous rocks with random patchy saturation. Geophysical Prospecting, 2007, 55, 671-678. | 1.0 | 84 |
| 16 | Direct laboratory observation of patchy saturation and its effects on ultrasonic velocities. The Leading Edge, 2009, 28, 24-27. | 0.4 | 83 |
| 17 | A simple derivation of the effective stress coefficient for seismic velocities in porous rocks. Geophysics, 2004, 69, 393-397. | 1.4 | 82 |
| 18 | A generalized Biot-Gassmann model for the acoustic properties of shaley sandstones1. Geophysical Prospecting, 2000, 48, 539-557. | 1.0 | 77 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Seismic dispersion and attenuation in saturated porous rocks with aligned fractures of finite thickness: Theory and numerical simulations â€" Part 1: P-wave perpendicular to the fracture plane. Geophysics, 2018, 83, WA49-WA62. | 1.4 | 77 |
| 20 | Differential form and numerical implementation of Biotâ€™s poroelasticity equations with squirt dissipation. Geophysics, 2011, 76, N55-N64. | 1.4 | 74 |
| 21 | Fluid substitution in shaley sediment using effective porosity. Geophysics, 2007, 72, O1-O8. | 1.4 | 67 |
| 22 | A first-order statistical smoothing approximation for the coherent wave field in random porous media. Journal of the Acoustical Society of America, 2005, 117, 1796-1805. | 0.5 | 66 |
| 23 | Effect of CT image size and resolution on the accuracy of rock property estimates. Journal of Geophysical Research: Solid Earth, 2017, 122, 3635-3647. | 1.4 | 65 |
| 24 | Characteristic frequencies of seismic attenuation due to wave-induced fluid flow in fractured porous media. Geophysical Journal International, 2006, 166, 574-578. | 1.0 | 64 |
| 25 | An analytic model for the stress-induced anisotropy of dry rocks. Geophysics, 2011, 76, WA125-WA133. | 1.4 | 62 |
| 26 | Angular and Frequency-Dependent Wave Velocity and Attenuation in Fractured Porous Media. Pure and Applied Geophysics, 2013, 170, 1673-1683. | 0.8 | 61 |
| 27 | A laboratory study of low-frequency wave dispersion and attenuation in water-saturated sandstones. The Leading Edge, 2014, 33, 616-622. | 0.4 | 58 |
| 28 | A semiâ€empirical velocityâ€porosityâ€clay model for petrophysical interpretation of Pâ€and Sâ€velocities. Geophysical Prospecting, 1998, 46, 271-285. | 1.0 | 55 |
| 29 | Effective properties of a poroelastic medium containing a distribution of aligned cracks. Journal of Geophysical Research, 2009, 114, . | 3.3 | 55 |
| 30 | Scattering of a longitudinal wave by a circular crack in a fluid-saturated porous medium. International Journal of Solids and Structures, 2007, 44, 7389-7398. | 1.3 | 53 |
| 31 | Effects of fracture intersections on seismic dispersion: theoretical predictions versus numerical simulations. Geophysical Prospecting, 2017, 65, 1264-1276. | 1.0 | 53 |
| 32 | Title is missing!. Transport in Porous Media, 1999, 36, 149-160. | 1.2 | 52 |
| 33 | Frequencyâ€dependent anisotropy of porous rocks with aligned fractures. Geophysical Prospecting, 2015, 63, 141-150. | 1.0 | 52 |
| 34 | Liquid nitrogen fracturing efficiency as a function of coal rank: A multi-scale tomographic study. Journal of Natural Gas Science and Engineering, 2021, 95, 104177. | 2.1 | 52 |
| 35 | Effect of fracture fill on seismic attenuation and dispersion in fractured porous rocks. Geophysical Journal International, 2013, 195, 1679-1688. | 1.0 | 51 |
| 36 | 4D surface seismic tracks small supercritical CO2 injection into the subsurface: CO2CRC Otway Project. International Journal of Greenhouse Gas Control, 2017, 63, 150-157. | 2.3 | 51 |

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| 37 | Scattering of a compressional wave in a poroelastic medium by an ellipsoidal inclusion. Geophysical Journal International, 1998, 133, 91-103. | 1.0 | 49 |
| 38 | Application of multifocusing method for subsurface imaging. Journal of Applied Geophysics, 1999, 42, 283-300. | 0.9 | 49 |
| 39 | Quantifying the effect of capillarity on attenuation and dispersion in patchy-saturated rocks. Geophysics, 2014, 79, WB35-WB50. | 1.4 | 47 |
| 40 | Time-lapse sonic logs reveal patchy CO<sub>2</sub>saturation in-situ. Geophysical Research Letters, 2011, 38, n/a-n/a. | 1.5 | 46 |
| 41 | Dynamic permeability of porous rocks and its seismic signatures. Geophysics, 2007, 72, E149-E158. | 1.4 | 45 |
| 42 | Computational elastic upâ€scaling of sandstone on the basis of Xâ€ray microâ€tomographic images. Geophysical Prospecting, 2013, 61, 287-301. | 1.0 | 44 |
| 43 | Seismic dispersion and attenuation in saturated porous rocks with aligned fractures of finite thickness: Theory and numerical simulations â€" Part 2: Frequency-dependent anisotropy. Geophysics, 2018, 83, WA63-WA71. | 1.4 | 44 |
| 44 | Finite-difference modeling of wave propagation on microscale: A snapshot of the work in progress. Geophysics, 2007, 72, SM293-SM300. | 1.4 | 43 |
| 45 | Parameterization of elastic stress sensitivity in shales. Geophysics, 2011, 76, WA147-WA155. | 1.4 | 43 |
| 46 | Simple expressions for normalâ€incidence reflection coefficients from an interface between fluidâ€saturated porous materials. Geophysics, 2004, 69, 1372-1377. | 1.4 | 42 |
| 47 | Statistical characterization of gas-patch distributions in partially saturated rocks. Geophysics, 2009, 74, WA51-WA64. | 1.4 | 41 |
| 48 | Effect of fluid viscosity on elastic wave attenuation in porous rocks. Geophysics, 2002, 67, 264-270. | 1.4 | 40 |
| 49 | Modeling elastic wave velocities and attenuation in rocks saturated with heavy oil. Geophysics, 2008, 73, E115-E122. | 1.4 | 40 |
| 50 | Fluid substitution in rocks saturated with viscoelastic fluids. Geophysics, 2010, 75, E115-E122. | 1.4 | 40 |
| 51 | An experimental study of acoustic responses on the injection of supercritical CO2 into sandstones from the Otway Basin. Geophysics, 2013, 78, D293-D306. | 1.4 | 40 |
| 52 | Validation of the laboratory measurements at seismic frequencies using the Kramersâ€Kronig relationship. Geophysical Research Letters, 2016, 43, 4986-4991. | 1.5 | 40 |
| 53 | Laboratory measurements of the effect of fluid saturation on elastic properties of carbonates at seismic frequencies. Geophysical Prospecting, 2016, 64, 799-809. | 1.0 | 39 |
| 54 | P-wave dispersion and attenuation due to scattering by aligned fluid saturated fractures with finite thickness: theory and experiment. Geophysical Journal International, 2018, 215, 2114-2133. | 1.0 | 39 |

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| 55 | Elastic full-waveform inversion of vertical seismic profile data acquired with distributed acoustic sensors. Geophysics, 2018, 83, R273-R281. | 1.4 | 36 |
| 56 | Seismic Dispersion and Attenuation in Saturated Porous Rock With Aligned Slit Cracks. Journal of Geophysical Research: Solid Earth, 2018, 123, 6890-6910. | 1.4 | 36 |
| 57 | Attenuation and dispersion of P-waves in porous rocks with planar fractures: Comparison of theory and numerical simulations. Geophysics, 2006, 71, N41-N45. | 1.4 | 34 |
| 58 | Seismic monitoring of CO 2 geosequestration: CO2CRC Otway case study using full 4D FDTD approach. International Journal of Greenhouse Gas Control, 2016, 49, 201-216. | 2.3 | 34 |
| 59 | Measurements of the elastic and anelastic properties of sandstone flooded with supercritical CO<sub>2</sub>. Geophysical Prospecting, 2014, 62, 1266-1277. | 1.0 | 33 |
| 60 | The CO2CRC Otway Project deployment of a Distributed Acoustic Sensing Network Coupled with Permanent Rotary Sources. , 2016, , . | | 33 |
| 61 | Modeling of wave dispersion along cylindrical structures using the spectral method. Journal of the Acoustical Society of America, 2008, 124, 859-865. | 0.5 | 32 |
| 62 | Modeling elastic anisotropy resulting from the application of triaxial stress. Geophysics, 2014, 79, C135-C145. | 1.4 | 32 |
| 63 | Influence of microheterogeneity on effective stress law for elastic properties of rocks. Geophysics, 2008, 73, E7-E14. | 1.4 | 31 |
| 64 | Effect of fracture fill on frequencyâ€dependent anisotropy of fractured porous rocks. Geophysical Prospecting, 2017, 65, 1649-1661. | 1.0 | 31 |
| 65 | Interaction of an elastic wave with a circular crack in a fluid-saturated porous medium. Applied Physics Letters, 2006, 88, 061918. | 1.5 | 30 |
| 66 | Stress-dependent elastic properties of shales: Measurement and modeling. The Leading Edge, 2008, 27, 772-779. | 0.4 | 30 |
| 67 | Surface orbital vibrator (SOV) and fiber-optic DAS: Field demonstration of economical, continuous-land seismic time-lapse monitoring from the Australian CO<sub>2</sub>CRC Otway site. , 2016, , . | | 30 |
| 68 | Sorptionâ€induced Deformation and Elastic Weakening of Bentheim Sandstone. Journal of Geophysical Research: Solid Earth, 2018, 123, 8589-8601. | 1.4 | 29 |
| 69 | Experimental verification of spherical-wave effect on the AVO response and implications for three-term inversion. Geophysics, 2008, 73, C7-C12. | 1.4 | 28 |
| 70 | Green's functions and radiation patterns in poroelastic solids revisited. Geophysical Journal International, 2009, 178, 327-337. | 1.0 | 28 |
| 71 | Applicability of velocity-stress relationships based on the dual porosity concept to isotropic porous rocks. Geophysical Journal International, 2010, , . | 1.0 | 28 |
| 72 | Forced imbibition into a limestone: measuring Pâ€wave velocity and water saturation dependence on injection rate. Geophysical Prospecting, 2014, 62, 1126-1142. | 1.0 | 28 |

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| 73 | How frequency dependency of Q affects spectral ratio estimates. Geophysics, 2015, 80, A39-A44. | 1.4 | 28 |
| 74 | Timeâ€lapse full waveform inversion of vertical seismic profile data: Workflow and application to the CO2CRC Otway project. Geophysical Research Letters, 2017, 44, 7211-7218. | 1.5 | 28 |
| 75 | Effective hydraulic conductivity and diffusivity of randomly heterogeneous porous solids with compressible constituents. Applied Physics Letters, 2006, 88, 121924. | 1.5 | 27 |
| 76 | Finite element modelling of the effective elastic properties of partially saturated rocks. Computers and Geosciences, 2008, 34, 647-657. | 2.0 | 27 |
| 77 | Frequency dependence of anisotropy in fluid saturated rocks â€“ Part I: aligned cracks case. Geophysical Prospecting, 2016, 64, 1067-1084. | 1.0 | 27 |
| 78 | Gassmann Theory Applies to Nanoporous Media. Geophysical Research Letters, 2018, 45, 146-155. | 1.5 | 27 |
| 79 | Modeling squirt dispersion and attenuation in fluid-saturated rocks using pressure dependency of dry ultrasonic velocities. Geophysics, 2012, 77, WA157-WA168. | 1.4 | 26 |
| 80 | Frequency-dependent attenuation and dispersion caused by squirt flow: Three-dimensional numerical study. Geophysics, 2020, 85, MR129-MR145. | 1.4 | 26 |
| 81 | Multifocusing imaging over an irregular topography. Geophysics, 2002, 67, 639-643. | 1.4 | 24 |
| 82 | 3D diffraction imaging of linear features and its application to seismic monitoring. Geophysical Prospecting, 2013, 61, 1206-1217. | 1.0 | 24 |
| 83 | Feasibility of CO<sub>2</sub> plume detection using 4D seismic: CO2CRC Otway Project case study â€” Part 1: Rock-physics modeling. Geophysics, 2015, 80, B95-B104. | 1.4 | 24 |
| 84 | Burying receivers for improved time-lapse seismic repeatability: CO2CRC Otway field experiment. Geophysical Prospecting, 2015, 63, 55-69. | 1.0 | 24 |
| 85 | On: â€œWave Propagation in heterogeneous, porous media: A velocityâ€stress, finite difference method,â€• by N. Dai, A. Vafidis, and E. R. Kanasewich (Marchâ€April 1995 GEOPHYSICS, p. 327â€“340).. Geophysics, 1996, 61, 1230-1231. | 1.4 | 23 |
| 86 | Spectral-method algorithm for modeling dispersion of acoustic modes in elastic cylindrical structures. Geophysics, 2010, 75, H19-H27. | 1.4 | 23 |
| 87 | Analysis of fluid substitution in a porous and fractured medium. Geophysics, 2011, 76, WA157-WA166. | 1.4 | 23 |
| 88 | Elastic anisotropy estimation from laboratory measurements of velocity and polarization of quasi-P-waves using laser interferometry. Geophysics, 2011, 76, WA83-WA89. | 1.4 | 23 |
| 89 | Validating Subsurface Monitoring as an Alternative Option to Surface M&V - The CO2CRC's Otway Stage 3 Injection. Energy Procedia, 2017, 114, 3374-3384. | 1.8 | 23 |
| 90 | Modeling the Effect of Pressure on the Moduli Dispersion in Fluidâ€Saturated Rocks. Journal of Geophysical Research: Solid Earth, 2020, 125, e2019JB019297. | 1.4 | 23 |

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| 91 | 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. International Journal of Greenhouse Gas Control, 2021, 108, 103317. | 2.3 | 23 |
| 92 | Are pennyâ€shaped cracks a good model for compliant porosity?. , 2009, , . | | 22 |
| 93 | Estimation of azimuthal anisotropy from VSP data using multicomponent S-wave velocity analysis. Geophysics, 2011, 76, D1-D9. | 1.4 | 22 |
| 94 | Arithmetic Coding and Entropy for the Positive Geodesic Flow on the Modular Surface. Moscow Mathematical Journal, 2001, 1, 569-582. | 0.2 | 22 |
| 95 | Amplitude of Biot's slow wave scattered by a spherical inclusion in a fluid-saturated poroelastic medium. Geophysical Journal International, 2005, 160, 991-1005. | 1.0 | 21 |
| 96 | Effect of asperities on stress dependency of elastic properties of cracked rocks. International Journal of Engineering Science, 2016, 98, 116-125. | 2.7 | 21 |
| 97 | Pore scale numerical modeling of elastic wave dispersion and attenuation in periodic systems of alternating solid and viscous fluid layers. Journal of the Acoustical Society of America, 2006, 120, 642-648. | 0.5 | 20 |
| 98 | A dualâ€porosity scheme for fluid/solid substitution. Geophysical Prospecting, 2016, 64, 1112-1121. | 1.0 | 20 |
| 99 | How well can time-lapse seismic characterize a small CO2 leakage into a saline aquifer: CO2CRC Otway 2C experiment (Victoria, Australia). International Journal of Greenhouse Gas Control, 2020, 92, 102854. | 2.3 | 20 |
| 100 | Repeat well logging using earthquake wave amplitudes measured by distributed acoustic sensors. The Leading Edge, 2020, 39, 513-517. | 0.4 | 20 |
| 101 | Fluid substitution, dispersion, and attenuation in fractured and porous reservoirsâ€”insights from new rock physics models. The Leading Edge, 2007, 26, 1162-1168. | 0.4 | 19 |
| 102 | A Laboratory Study of the Elastic and Anelastic Properties of the Sandstone Flooded with Supercritical CO2 at Seismic Frequencies. Energy Procedia, 2014, 63, 4289-4296. | 1.8 | 19 |
| 103 | Feasibility of CO<sub>2</sub> plume detection using 4D seismic: CO2CRC Otway Project case study â€” Part 2: Detectability analysis. Geophysics, 2015, 80, B105-B114. | 1.4 | 19 |
| 104 | Dynamic seismic signatures of saturated porous rocks containing two orthogonal sets of fractures: theory versus numerical simulations. Geophysical Journal International, 2018, 213, 1244-1262. | 1.0 | 19 |
| 105 | Fluid reservoir (?) beneath the KTB drillbit indicated by seismic shearâ€wave observations. Geophysical Research Letters, 1993, 20, 923-926. | 1.5 | 18 |
| 106 | Gassmann Modeling of Acoustic Properties of Sand-clay Mixtures. , 2000, 157, 811-827. | | 18 |
| 107 | Seismic attenuation due to wave-induced fluid flow in a porous rock with spherical heterogeneities. Geophysical Journal International, 2006, 165, 957-968. | 1.0 | 18 |
| 108 | Experimental and theoretical rock physics research with application to reservoirs, seals and fluid processes. Journal of Petroleum Science and Engineering, 2007, 57, 16-36. | 2.1 | 18 |

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| 109 | Water retention effects on elastic properties of Opalinus shale. Geophysical Prospecting, 2019, 67, 984-996. | 1.0 | 18 |
| 110 | A laboratory study of attenuation and dispersion effects in glycerol-saturated Berea sandstone at seismic frequencies. , 2015, , . | | 17 |
| 111 | Combined Effects of Pressure and Water Saturation on the Seismic Anisotropy in Artificial Porous Sandstone With Aligned Fractures. Journal of Geophysical Research: Solid Earth, 2020, 125, e2019JB019091. | 1.4 | 17 |
| 112 | Frequencyâ€Dependent P Wave Anisotropy Due to Waveâ€Induced Fluid Flow and Elastic Scattering in a Fluidâ€Saturated Porous Medium With Aligned Fractures. Journal of Geophysical Research: Solid Earth, 2020, 125, e2020JB020320. | 1.4 | 17 |
| 113 | Effects of Coupling Between Waveâ€Induced Fluid Flow and Elastic Scattering on Pâ€Wave Dispersion and Attenuation in Rocks With Aligned Fractures. Journal of Geophysical Research: Solid Earth, 2020, 125, e2019JB018685. | 1.4 | 17 |
| 114 | Seismic monitoring of a small CO2 injection using a multi-well DAS array: Operations and initial results of Stage 3 of the CO2CRC Otway project. International Journal of Greenhouse Gas Control, 2021, 110, 103437. | 2.3 | 17 |
| 115 | Feasibility of Time-lapse Seismic Methodology for Monitoring the Injection of Small Quantities of CO2 into a Saline Formation, CO2CRC Otway Project. Energy Procedia, 2013, 37, 4336-4343. | 1.8 | 16 |
| 116 | Effect of microâ€inhomogeneity on the effective stress coefficients and undrained bulk modulus of a poroelastic medium: a double spherical shell model. Geophysical Prospecting, 2015, 63, 656-668. | 1.0 | 15 |
| 117 | Estimation of rock frame weakening using time-lapse crosswell: The Frio brine pilot project. Geophysics, 2016, 81, B235-B245. | 1.4 | 15 |
| 118 | Semi-analytical solution to the problem of frequency dependent anisotropy of porous media with an aligned set of slit cracks. International Journal of Engineering Science, 2020, 147, 103209. | 2.7 | 15 |
| 119 | A lowâ€frequency laboratory apparatus for measuring elastic and anelastic properties of rocks. , 2011, , . | | 14 |
| 120 | Fluid dependence of anisotropy parameters in weakly anisotropic porous media. Geophysics, 2013, 78, WC137-WC145. | 1.4 | 14 |
| 121 | Design and deployment of a buried geophone array for CO2 geosequestration monitoring: CO2CRC Otway Project, Stage 2C. , 2015, , . | | 14 |
| 122 | Linking the pressure dependency of elastic and electrical properties of porous rocks by a dual porosity model. Geophysical Journal International, 2016, 205, 378-388. | 1.0 | 14 |
| 123 | Stage 2C of the CO2CRC Otway Project: Seismic Monitoring Operations and Preliminary Results. Energy Procedia, 2017, 114, 3997-4007. | 1.8 | 14 |
| 124 | Elastic properties of confined fluids from molecular modeling to ultrasonic experiments on porous solids. Applied Physics Reviews, 2021, 8, . | 5.5 | 14 |
| 125 | Subsurface Imaging Using Buried DAS and Geophone Arrays - Preliminary Results from CO2CRC Otway Project. , 2016, , . | | 14 |
| 126 | Investigation of core data reliability to support time-lapse interpretation in Campos Basin, Brazil. Geophysics, 2008, 73, E59-E65. | 1.4 | 13 |

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| 127 | Analytical wavefront curvature correction to planeâ€wave reflection coefficients for a weakâ€contrast interface. Geophysical Prospecting, 2013, 61, 53-62. | 1.0 | 13 |
| 128 | Reliability of the slowness and slowness-polarization methods for anisotropy estimation in VTI media from 3C walkaway VSP data. Geophysics, 2013, 78, WC93-WC102. | 1.4 | 13 |
| 129 | Application of diffracted wave analysis to timeâ€lapse seismic data for CO<sub>2</sub> leakage detection. Geophysical Prospecting, 2014, 62, 197-209. | 1.0 | 13 |
| 130 | Squirt flow influence on sonic log parameters. Geophysical Journal International, 2014, 196, 1082-1091. | 1.0 | 13 |
| 131 | How rough sea affects marine seismic data and deghosting procedures. Geophysical Prospecting, 2018, 66, 3-12. | 1.0 | 13 |
| 132 | Squirt-flow seismic dispersion models: a comparison. Geophysical Journal International, 2020, 222, 2068-2082. | 1.0 | 13 |
| 133 | A method for obtaining evolution equations for nonlinear waves in a random medium. Wave Motion, 1993, 17, 287-295. | 1.0 | 12 |
| 134 | Frequency-Dependent Seismic Anisotropy of Porous Rocks with Penny-Shaped Cracks. Exploration Geophysics, 2004, 35, 111-115. | 0.5 | 12 |
| 135 | Fluid-dependent shear-wave splitting in a poroelastic medium with conjugate fracture sets. Geophysical Prospecting, 2007, 55, 333-343. | 1.0 | 12 |
| 136 | Modeling of axisymmetric wave modes in a poroelastic cylinder using spectral method. Journal of the Acoustical Society of America, 2008, 124, EL230-EL235. | 0.5 | 12 |
| 137 | Tube wave signatures in cylindrically layered poroelastic media computed with spectral method. Geophysical Journal International, 2010, 183, 1005-1013. | 1.0 | 12 |
| 138 | Seismic dispersion and attenuation in Mancos shale â€“ laboratory measurements. Geophysical Prospecting, 2021, 69, 568-585. | 1.0 | 12 |
| 139 | Low-frequency shear wave propagation in periodic systems of alternating solid and viscous fluid layers. Journal of the Acoustical Society of America, 1999, 106, 57-60. | 0.5 | 11 |
| 140 | Testing Gassmann fluid substitution: sonic logs versus ultrasonic core measurements. Geophysical Prospecting, 2009, 57, 75-79. | 1.0 | 11 |
| 141 | ROCK PHYSICSâ€”APPLICATION TO GEOLOGICAL STORAGE OF CO2. APPEA Journal, 2003, 43, 567. | 0.4 | 11 |
| 142 | Multifocusing imaging with controlled reflectionâ€point dispersal. Geophysics, 2002, 67, 1586-1592. | 1.4 | 10 |
| 143 | Modelling elastic anisotropy of dry rocks as a function of applied stress. Geophysical Prospecting, 2013, 61, 391-403. | 1.0 | 10 |
| 144 | Electrical formation factor of clean sand from laboratory measurements and digital rock physics. Solid Earth, 2019, 10, 1505-1517. | 1.2 | 10 |

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| 145 | On the Normal-Incidence Reflection Coefficient in Porous Media. Surveys in Geophysics, 2021, 42, 923-942. | 2.1 | 10 |
| 146 | Seismic Attenuation from VSP and Well Log Data: Approaches, Problems and Relative Contribution of Scattering. , 2013, , . | | 10 |
| 147 | Downhole Distributed Acoustic Sensing Provides Insights Into the Structure of Shortâ€Period Oceanâ€Generated Seismic Wavefield. Journal of Geophysical Research: Solid Earth, 2021, 126, e2020JB021463. | 1.4 | 10 |
| 148 | Shear wave dispersion and attenuation in periodic systems of alternating solid and viscous fluid layers. International Journal of Solids and Structures, 2006, 43, 7673-7683. | 1.3 | 9 |
| 149 | Comparison of the low-frequency predicitons of Biotâ€™s and de Boerâ€™s poroelasticity theories with Gassmannâ€™s equation. Applied Physics Letters, 2007, 91, . | 1.5 | 9 |
| 150 | Attenuation of Seismic Waves Due to Waveâ€Induced Flow and Scattering in Randomly Heterogeneous Poroelastic Continua. Advances in Geophysics, 2008, , 123-166. | 1.1 | 9 |
| 151 | Temperature-dependent poroelastic and viscoelastic effects on microscale-modelling of seismic reflections in heavy oil reservoirs. Geophysical Journal International, 2009, 176, 822-832. | 1.0 | 9 |
| 152 | Frequency-dependent effective hydraulic conductivity of strongly heterogeneous media. Physical Review E, 2013, 88, 042119. | 0.8 | 9 |
| 153 | A triple porosity scheme for fluid/solid substitution: theory and experiment. Geophysical Prospecting, 2019, 67, 888-899. | 1.0 | 9 |
| 154 | Active surface and borehole seismic monitoring of a small supercritical CO2 injection into the subsurface: experience from the CO2CRC Otway Project. , 2020, , 497-522. | | 9 |
| 155 | Interference pattern as a means of fault detection. The Leading Edge, 1998, 17, 752-757. | 0.4 | 9 |
| 156 | Seismic Wave Attenuation and Dispersion in Patchy-Saturated Rocks - Numerical Experiments. , 2006, , . | | 9 |
| 157 | The Born approximation in the problem of elastic wave scattering by a spherical inhomogeneity in a fluidâ€saturated porous medium. Applied Physics Letters, 1992, 61, 1275-1277. | 1.5 | 8 |
| 158 | Experimental Laboratory Study on the Acoustic Response of Sandstones During Injection of Supercritical CO2 on CRC2 Sample from Otway Basin Australia. Energy Procedia, 2013, 37, 4106-4113. | 1.8 | 8 |
| 159 | Modeling shear wave splitting due to stressâ€induced anisotropy, with an application to Mount Asama Volcano, Japan. Journal of Geophysical Research: Solid Earth, 2014, 119, 4269-4286. | 1.4 | 8 |
| 160 | Case History: Using timeâ€lapse vertical seismic profiling data to constrain velocityâ€“saturation relations: the Frio brine pilot CO<sub>2</sub> injection. Geophysical Prospecting, 2016, 64, 987-1000. | 1.0 | 8 |
| 161 | Rock-physics models for heavy-oil and organic-solid substitution. The Leading Edge, 2016, 35, 506-510. | 0.4 | 8 |
| 162 | Effect of grain-scale gas patches on the seismic properties of double porosity rocks. Geophysical Journal International, 2017, 208, 432-436. | 1.0 | 8 |

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| 163 | 4D surface seismic monitoring the evolution of a small CO2 plume during and after injection: CO2CRC Otway Project study. Exploration Geophysics, 2020, 51, 570-580. | 0.5 | 8 |
| 164 | Reflection and transmission of seismic waves at the boundaries of porous media. Wave Motion, 1993, 18, 303-304. | 1.0 | 7 |
| 165 | Sedimentary cyclicity from X-ray CT images in Campos Basin, offshore Brazil. The Leading Edge, 2010, 29, 808-813. | 0.4 | 7 |
| 166 | Frequency dependence of anisotropy in fluid saturated rocks â€“ Part II: Stressâ€induced anisotropy case. Geophysical Prospecting, 2016, 64, 1085-1097. | 1.0 | 7 |
| 167 | Optimal bounds for attenuation of elastic waves in porous fluid-saturated media. Journal of the Acoustical Society of America, 2017, 142, 3321-3329. | 0.5 | 7 |
| 168 | Viscoelastic modeling of rocks saturated with heavy oil. , 2007, , . | | 7 |
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