

Oleg A Godin

List of Publications by Year in descending order

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Version: 2024-02-01

112
papers

2,175
citations

257450

24
h-index

276875

41
g-index

122
all docs

122
docs citations

122
times ranked

976
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Physics-based characterization of soft marine sediments using vector sensors. Journal of the Acoustical Society of America, 2021, 149, 49-61. | 1.1 | 5 |
| 2 | Observations of acoustic noise bursts accompanying nonlinear internal gravity waves on the continental shelf off New Jersey. Journal of the Acoustical Society of America, 2021, 149, 1609-1622. | 1.1 | 5 |
| 3 | Shear waves and sound attenuation in underwater waveguides. Journal of the Acoustical Society of America, 2021, 149, 3586-3598. | 1.1 | 6 |
| 4 | Passive acoustic characterization of sub-seasonal sound speed variations in a coastal ocean. Journal of the Acoustical Society of America, 2021, 150, 2717-2737. | 1.1 | 5 |
| 5 | Contributions of gravity waves in the ocean to T-phase excitation by earthquakes. Journal of the Acoustical Society of America, 2021, 150, 3999-4017. | 1.1 | 2 |
| 6 | Passive geoacoustic inversion in the Mid-Atlantic Bight in the presence of strong water column variability. Journal of the Acoustical Society of America, 2020, 147, EL453-EL459. | 1.1 | 11 |
| 7 | A Semi-Analytic, Numerically Efficient Model for Low-Frequency Sound Scattering by an Infinite Cylinder Located Near a Boundary. Journal of Theoretical and Computational Acoustics, 2020, 28, 2050010. | 1.1 | 0 |
| 8 | Atmospheric resonances and their coupling to vibrations of the ground and waves in the ocean. Earth, Planets and Space, 2020, 72, . | 2.5 | 4 |
| 9 | Fidelity of low-frequency underwater acoustic measurements by sensors mounted on compact platforms. Journal of the Acoustical Society of America, 2019, 146, EL405-EL411. | 1.1 | 0 |
| 10 | Characterizing the seabed in the Straits of Florida by using acoustic noise interferometry and time warping. Journal of the Acoustical Society of America, 2019, 146, 2321-2334. | 1.1 | 17 |
| 11 | Normal mode dispersion and time warping in the coastal ocean. Journal of the Acoustical Society of America, 2019, 146, EL205-EL211. | 1.1 | 9 |
| 12 | Passive, broadband suppression of radiation of low-frequency sound. Journal of the Acoustical Society of America, 2018, 143, EL67-EL73. | 1.1 | 4 |
| 13 | Acoustic noise interferometry in a time-dependent coastal ocean. Journal of the Acoustical Society of America, 2018, 143, 595-604. | 1.1 | 14 |
| 14 | Scattering of low frequency sound by fluid and solid cylinders. Journal of Sound and Vibration, 2018, 434, 336-357. | 3.9 | 3 |
| 15 | Characterizing the seabed by using noise interferometry and time warping. Proceedings of Meetings on Acoustics, 2018, , . | 0.3 | 3 |
| 16 | Separation of acoustic modes in the Florida Straits using noise interferometry. Acoustical Physics, 2017, 63, 76-85. | 1.0 | 17 |
| 17 | Application of time reversal to passive acoustic remote sensing of the ocean. Acoustical Physics, 2017, 63, 309-320. | 1.0 | 13 |
| 18 | Rayleigh scattering of a cylindrical sound wave by an infinite cylinder. Journal of the Acoustical Society of America, 2017, 142, 3613-3623. | 1.1 | 6 |

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|----|--|-----|-----------|
| 19 | Studies of wave activity in the thermosphere-ionosphere system using Dynasonde techniques. , 2017, , . | | 1 |
| 20 | Diffraction of acoustic-gravity waves in the presence of a turning point. Journal of the Acoustical Society of America, 2016, 140, 283-295. | 1.1 | 3 |
| 21 | Tomographic inversion of measured cross-correlation functions of ocean noise in shallow water using ray theory. Acoustical Physics, 2016, 62, 436-446. | 1.0 | 8 |
| 22 | Oceans are a major source of waves in the thermosphere. Journal of Geophysical Research: Space Physics, 2016, 121, 3452-3463. | 2.4 | 24 |
| 23 | Resonance vibrations of the Ross Ice Shelf and observations of persistent atmospheric waves. Journal of Geophysical Research: Space Physics, 2016, 121, 10,157. | 2.4 | 13 |
| 24 | Ocean acoustic remote sensing using ambient noise: results from the Florida Straits. Geophysical Journal International, 2016, 206, 574-589. | 2.4 | 16 |
| 25 | Long-range correlations of microseism-band pressure fluctuations in the ocean. Geophysical Journal International, 2016, 206, 825-834. | 2.4 | 6 |
| 26 | Wentzelâ€“Kramersâ€“Brillouin approximation for atmospheric waves. Journal of Fluid Mechanics, 2015, 777, 260-290. | 3.4 | 16 |
| 27 | Finite-amplitude acoustic-gravity waves: exact solutions. Journal of Fluid Mechanics, 2015, 767, 52-64. | 3.4 | 8 |
| 28 | Acoustic-gravity waves in the atmosphere generated by infragravity waves in the ocean. Earth, Planets and Space, 2015, 67, . | 2.5 | 27 |
| 29 | Waveform modeling and inversion of ambient noise cross-correlation functions in a coastal ocean environment. Journal of the Acoustical Society of America, 2015, 138, 1325-1333. | 1.1 | 19 |
| 30 | Passive acoustic measurements of wind velocity and sound speed in air. Journal of the Acoustical Society of America, 2014, 135, EL68-EL74. | 1.1 | 18 |
| 31 | Tracing Three-Dimensional Acoustic Wavefronts in Inhomogeneous, Moving Media. Journal of Computational Acoustics, 2014, 22, 1450002. | 1.0 | 4 |
| 32 | Passive acoustic measurement of flow velocity in the Straits of Florida. Geoscience Letters, 2014, 1, . | 3.3 | 25 |
| 33 | Shear waves in inhomogeneous, compressible fluids in a gravity field. Journal of the Acoustical Society of America, 2014, 135, 1071-1082. | 1.1 | 4 |
| 34 | Dissipation of acoustic-gravity waves: An asymptotic approach. Journal of the Acoustical Society of America, 2014, 136, EL411-EL417. | 1.1 | 19 |
| 35 | Interferometry of infragravity waves off New Zealand. Journal of Geophysical Research: Oceans, 2014, 119, 1103-1122. | 2.6 | 25 |
| 36 | Acoustic Green's function extraction from ambient noise in a coastal ocean environment. Geophysical Research Letters, 2014, 41, 5555-5562. | 4.0 | 29 |

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|----|---|-----|-----------|
| 37 | Passive acoustic tomography of the ocean using arrays of unknown shape. <i>Acoustical Physics</i> , 2013, 59, 170-178. | 1.0 | 9 |
| 38 | Rayleigh scattering of a spherical sound wave. <i>Journal of the Acoustical Society of America</i> , 2013, 133, 709-720. | 1.1 | 15 |
| 39 | The effect of anomalous transparency of the water-air interface for a volumetric sound source. <i>Acoustical Physics</i> , 2013, 59, 6-15. | 1.0 | 12 |
| 40 | Power spectra of infragravity waves in a deep ocean. <i>Geophysical Research Letters</i> , 2013, 40, 2159-2165. | 4.0 | 19 |
| 41 | Rayleigh scattering of sound by spherically symmetric bodies. <i>Proceedings of Meetings on Acoustics</i> , 2013, , . | 0.3 | 2 |
| 42 | Acoustic-gravity waves in atmospheric and oceanic waveguides. <i>Journal of the Acoustical Society of America</i> , 2012, 132, 657-669. | 1.1 | 20 |
| 43 | Transmission of acoustic-gravity waves through gas-liquid interfaces. <i>Journal of Fluid Mechanics</i> , 2012, 709, 313-340. | 3.4 | 12 |
| 44 | Incompressible Wave Motion of Compressible Fluids. <i>Physical Review Letters</i> , 2012, 108, 194501. | 7.8 | 10 |
| 45 | Passive ocean acoustic tomography. <i>Doklady Earth Sciences</i> , 2012, 444, 606-609. | 0.7 | 3 |
| 46 | On the possibility of using acoustic reverberation for remote sensing of ocean dynamics. <i>Acoustical Physics</i> , 2012, 58, 129-138. | 1.0 | 9 |
| 47 | ACOUSTIC WAVEFRONT TRACING IN INHOMOGENEOUS, MOVING MEDIA. <i>Journal of Computational Acoustics</i> , 2012, 20, 1250009. | 1.0 | 2 |
| 48 | Rayleigh scattering of spherical sound waves. , 2011, , . | | 0 |
| 49 | Generation of acoustic-gravity waves by a submerged monopole source located near the water-air interface. , 2011, , . | | 0 |
| 50 | An exact wave equation for sound in inhomogeneous, moving, and non-stationary fluids. , 2011, , . | | 4 |
| 51 | Emergence of Acoustic Green's Functions from Time Averages of Ambient Noise. <i>Acta Acustica United With Acustica</i> , 2011, 97, 44-53. | 0.8 | 19 |
| 52 | Low-frequency sound transmission through a gas-solid interface. <i>Journal of the Acoustical Society of America</i> , 2011, 129, EL45-EL51. | 1.1 | 16 |
| 53 | Scattering of a spherical wave by a small sphere: An elementary solution. <i>Journal of the Acoustical Society of America</i> , 2011, 130, EL135-EL141. | 1.1 | 11 |
| 54 | Detection of the 2010 Chilean tsunami using satellite altimetry. <i>Natural Hazards and Earth System Sciences</i> , 2011, 11, 2391-2406. | 3.6 | 5 |

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|----|--|-----|-----------|
| 55 | On the feasibility of tsunami detection using satellite-based sea surface roughness measurements. , 2010, , . | | 7 |
| 56 | Journal of the Acoustical Society of America, 2010, 128, 600-610. | 1.1 | 22 |
| 57 | Ocean tomography with acoustic daylight. Geophysical Research Letters, 2010, 37, . | 4.0 | 52 |
| 58 | Variations in sea surface roughness induced by the 2004 Sumatra-Andaman tsunami. Natural Hazards and Earth System Sciences, 2009, 9, 1135-1147. | 3.6 | 21 |
| 59 | Accuracy of the deterministic travel time retrieval from cross-correlations of non-diffuse ambient noise. Journal of the Acoustical Society of America, 2009, 126, EL183-EL189. | 1.1 | 28 |
| 60 | Emergence of deterministic Greenâ€™s functions from noise generated by finite random sources. Physical Review E, 2009, 80, 066605. | 2.1 | 13 |
| 61 | Retrieval of Greenâ€™s functions of elastic waves from thermal fluctuations of fluid-solid systems. Journal of the Acoustical Society of America, 2009, 125, 1960-1970. | 1.1 | 38 |
| 62 | Stability of Acoustic Wave Fronts Propagating in Anisotropic Three-Dimensional Environments. Acta Acustica United With Acustica, 2009, 95, 963-974. | 0.8 | 5 |
| 63 | Wave refraction at an interface: Snellâ€™s law versus Chapmanâ€™s law. Journal of the Acoustical Society of America, 2009, 125, EL117-EL122. | 1.1 | 12 |
| 64 | Surface-to-volume wave conversion in shallow water with a corrugated bottom. Acoustical Physics, 2008, 54, 346-352. | 1.0 | 2 |
| 65 | Sound transmission through waterâ€™air interfaces: new insights into an old problem. Contemporary Physics, 2008, 49, 105-123. | 1.8 | 50 |
| 66 | Computing the far field scattered or radiated by objects inside layered fluid media using approximate Greenâ€™s functions. Journal of the Acoustical Society of America, 2008, 123, 4051-4058. | 1.1 | 40 |
| 67 | Low-frequency sound transmission through a gasâ€™liquid interface. Journal of the Acoustical Society of America, 2008, 123, 1866-1879. | 1.1 | 35 |
| 68 | Statistics of travel time and intensity of two first arrivals of short pulses backscattered by a rough 3D surface. Waves in Random and Complex Media, 2007, 17, 9-27. | 2.7 | 3 |
| 69 | Emergence of the acoustic Greenâ€™s function from thermal noise. Journal of the Acoustical Society of America, 2007, 121, EL96-EL102. | 1.1 | 30 |
| 70 | Restless rays, steady wave fronts. Journal of the Acoustical Society of America, 2007, 122, 3353-3363. | 1.1 | 23 |
| 71 | Transmission of low-frequency sound through the water-to-air interface. Acoustical Physics, 2007, 53, 305-312. | 1.0 | 36 |
| 72 | Surface-to-volume wave conversion in shallow water with a gently sloping bottom. Acoustical Physics, 2007, 53, 714-720. | 1.0 | 7 |

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|----|--|-----|-----------|
| 73 | Refraction of Sound in a Horizontally Inhomogeneous, Time-Dependent Ocean. IEEE Journal of Oceanic Engineering, 2006, 31, 384-401. | 3.8 | 23 |
| 74 | Anomalous Transparency of Water-Air Interface for Low-Frequency Sound. Physical Review Letters, 2006, 97, 164301. | 7.8 | 54 |
| 75 | Calculation of amplitudes of acoustic normal modes from the reciprocity principle. Journal of the Acoustical Society of America, 2006, 119, 2096-2100. | 1.1 | 10 |
| 76 | Recovering the Acoustic Green's Function from Ambient Noise Cross Correlation in an Inhomogeneous Moving Medium. Physical Review Letters, 2006, 97, 054301. | 7.8 | 93 |
| 77 | Guided propagation of naturally occurring infrasound in the troposphere and stratosphere. Geophysical Research Letters, 2005, 32, . | 4.0 | 7 |
| 78 | Travel time and intensity statistics of the pulsed signals backscattered by a rough surface [geophysical remote-sensing applications]. , 2004, , . | | 0 |
| 79 | Probability distributions of travel time and intensity of the earliest arrivals of a short pulse backscattered by a rough surface. Waves in Random and Complex Media, 2004, 14, 539-562. | 1.5 | 3 |
| 80 | Air-sea interaction and feasibility of tsunami detection in the open ocean. Journal of Geophysical Research, 2004, 109, . | 3.3 | 27 |
| 81 | Fermat's principle for non-dispersive waves in non-stationary media. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2004, 460, 1631-1647. | 2.1 | 12 |
| 82 | Systematic distortions of signal propagation times in random inhomogeneous media. Doklady Physics, 2003, 48, 389-393. | 0.7 | 7 |
| 83 | A perturbation model of radiometric manifestations of oceanic currents. Radio Science, 2003, 38, n/a-n/a. | 1.6 | 11 |
| 84 | Fermat Principle for a Nonstationary Medium. Physical Review Letters, 2003, 91, 044302. | 7.8 | 6 |
| 85 | Travel-time statistics for signals scattered at a rough surface. Waves in Random and Complex Media, 2003, 13, 205-221. | 1.5 | 11 |
| 86 | On derivation of differential equations of coupled-mode propagation from the reciprocity principle (L). Journal of the Acoustical Society of America, 2003, 114, 3016-3019. | 1.1 | 2 |
| 87 | An effective quiescent medium for sound propagating through an inhomogeneous, moving fluid. Journal of the Acoustical Society of America, 2002, 112, 1269-1275. | 1.1 | 52 |
| 88 | Coupled-mode sound propagation in a range-dependent, moving fluid. Journal of the Acoustical Society of America, 2002, 111, 1984. | 1.1 | 12 |
| 89 | A 2-D DESCRIPTION OF SOUND PROPAGATION IN A HORIZONTALLY-INHOMOGENEOUS OCEAN. Journal of Computational Acoustics, 2002, 10, 123-151. | 1.0 | 16 |
| 90 | On sound propagation in a nonstationary ocean. Doklady Physics, 2002, 47, 639-642. | 0.7 | 5 |

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|-----|---|-----|-----------|
| 91 | Wide-angle parabolic equations for sound in a 3D inhomogeneous moving medium. Doklady Physics, 2002, 47, 643-646. | 0.7 | 14 |
| 92 | Modeling the Effects of Horizontal Refraction and Medium Non-Stationarity in Ocean Acoustics. , 2002, , 35-49. | | 0 |
| 93 | Dispersion of interface waves in sediments with power-law shear speed profiles. I. Exact and approximate analytical results. Journal of the Acoustical Society of America, 2001, 110, 1890-1907. | 1.1 | 41 |
| 94 | Dispersion of interface waves in sediments with power-law shear speed profiles. II. Experimental observations and seismo-acoustic inversions. Journal of the Acoustical Society of America, 2001, 110, 1908-1916. | 1.1 | 42 |
| 95 | Parabolic approximation in the theory of the sound propagation in three-dimensionally heterogeneous media. Doklady Physics, 2000, 45, 367-371. | 0.7 | 3 |
| 96 | Head wave data inversion for geoacoustic parameters of the ocean bottom off Vancouver Island. Journal of the Acoustical Society of America, 1999, 106, 2540-2551. | 1.1 | 18 |
| 97 | Shear-speed gradients and ocean seismo-acoustic noise resonances. Journal of the Acoustical Society of America, 1999, 106, 2367-2382. | 1.1 | 40 |
| 98 | Reciprocity and energy conservation within the parabolic approximation. Wave Motion, 1999, 29, 175-194. | 2.0 | 48 |
| 99 | Acoustics of Layered Media II. Springer Series on Wave Phenomena, 1999, , . | 0.7 | 203 |
| 100 | High Frequency Sound Fields. Springer Series on Wave Phenomena, 1999, , 193-208. | 0.7 | 2 |
| 101 | Wave Propagation in a Range Dependent Waveguide. Springer Series on Wave Phenomena, 1999, , 243-360. | 0.7 | 1 |
| 102 | Energy Conservation and Reciprocity for Waves in Three-Dimensionally Inhomogeneous Moving Media. Springer Series on Wave Phenomena, 1999, , 361-399. | 0.7 | 0 |
| 103 | A note on differential equations of coupled-mode propagation in fluids. Journal of the Acoustical Society of America, 1998, 103, 159-168. | 1.1 | 39 |
| 104 | Simulations of Acoustic Imprints of Meddies in the Iberian Basin: Toward Acoustic Detection of Meddies. Journal of Atmospheric and Oceanic Technology, 1997, 14, 938-949. | 1.3 | 7 |
| 105 | Reciprocity and energy theorems for waves in a compressible inhomogeneous moving fluid. Wave Motion, 1997, 25, 143-167. | 2.0 | 84 |
| 106 | Acoustics of Layered Media II. Springer Series on Wave Phenomena, 1992, , . | 0.7 | 68 |
| 107 | RECONSTRUCTION OF VERTICAL DISTRIBUTIONS OF SOUND AND FLOW VELOCITIES AT STRONG OCEANIC CURRENTS VIA INVERSION OF ACOUSTIC TRAVEL TIMES. European Physical Journal Special Topics, 1992, 02, C1-953-C1-956. | 0.2 | 1 |
| 108 | Acoustics of Layered Media I. Springer Series on Wave Phenomena, 1990, , . | 0.7 | 207 |

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|-----|--|-----|-----------|
| 109 | On a modification of the wave equation for a layered medium. <i>Wave Motion</i> , 1985, 7, 515-528. | 2.0 | 7 |
| 110 | On the high-frequency theory of lateral waves. <i>Wave Motion</i> , 1984, 6, 105-117. | 2.0 | 9 |
| 111 | An opportunity for improved observation of ocean currents in the coastal zone. , 0, , . | | 0 |
| 112 | Bottom Attenuation Coefficient Inversion Based on the Modal Phase Difference Between Pressure and Vertical Velocity from a Single Vector Sensor. <i>Journal of Theoretical and Computational Acoustics</i> , 0, , 2150008. | 1.1 | 3 |