

Advances in nonlinear wave research for hazard warning and mitigation

Didenkulova, Irina; Grimshaw, Roger; Slunyaev, Alexey; Tinti, Stefano Natural hazards 2016 / p. S431-S436

<https://doi.org/10.1007/s11069-016-2633-1> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

An experimental investigation of the breaking waves using LDA system

Liiv, Toomas 1999 http://www.ester.ee/record=b2237652*est

An investigation of breaking waves in the flume

Liiv, Toomas Second Indian National Conference on Harbour and Ocean Engineering, 7-10 December, 1997, Thiruvananthapuram, India 1998 / [9] p

Analysis of the properties of fast ferry wakes in the context of coastal management = Kiirlaevalainete omaduste analüüs rannikualade haldamise kontekstis

Kurennoy, Dmitry 2009 <https://digi.lib.ttu.ee/i/?448> https://www.ester.ee/record=b2508754*est

Analysis of wave properties in the Baltic Sea : integrating findings from the Gulf of Finland, Gulf of Riga and Western Baltic Coasts

Giudici, Andrea; Männikus, Rain; Jankowski, Mikolaj Zbigniew; Soomere, Tarmo New challenges for Baltic Sea Earth System research : conference proceedings 2024 / p. 61-62

https://baltic.earth/imperia/md/assets/baltic_earth/baltic_earth/baltic_earth/5bec_proceedings.pdf

Analytical solutions and numerical modeling for a dam-break problem in inclined channels

Pelinovsky, Efim; Didenkulova, Irina; Didenkulov, Oleg; Rodin, Artem Geophysical research abstracts 2016 / p. EGU2016-7153

Analytical theory of nonlinear long wave runup on a coast

Didenkulova, Irina BSSC 2009 : [7th Baltic Sea Science Congress 2009] : August 17-21, 2009, Tallinn, Estonia : abstract book 2009 / p. 132

Applicability of SAR-based wave retrieval for wind-wave interaction analysis in the fetch-limited Baltic

Rikka, Sander; Uiboupin, Rivo; Alari, Victor International journal of remote sensing 2017 / p. 906-922 : ill

<https://doi.org/10.1080/01431161.2016.1271472> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Application of Haar wavelet based methods for solving wave propagation problems

Ratas, Mart; Jena, S.K.; Chakraverty, S. AIP conference proceedings 2020 <https://doi.org/10.1063/5.0026696> [Conference proceeding at Scopus](#) [Article at Scopus](#)

Application of Haar wavelet method for solving nonlinear evolution equations

Ratas, Mart International Conference of Numerical Analysis and Applied Mathematics, ICNAAM 2018 : 13-18 September 2018, Rhodes, Greece 2019 / art. 330004, p. 1-4 <https://doi.org/10.1063/1.5114342> [Conference proceeding at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

Application of HoHWM in the stability analysis of nonlocal Euler-Bernoulli beam

Jena, Subrat Kumar; Chakraverty, Snehashish; Ratas, Mart; Kirs, Maarjuss International Conference of Numerical Analysis and Applied Mathematics ICNAAM 2019 : 23-28 September 2019 Rhodes, Greece 2020 / art. 230003 <https://doi.org/10.1063/5.0026439>

[Conference Proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

Applied wave mathematics II : selected topics in solids, fluids, and mathematical methods and complexity

2019 <https://doi.org/10.1007/978-3-030-29951-4> https://www.ester.ee/record=b5303400*est

Assessment of the development limitations for wave energy utilization in the Baltic Sea

Vidjajev, Nikon; Palu, Riina; Terentjev, Jan; Hilmola, Olli-Pekka Kristian; Alari, Victor Sustainability 2022 / art. 2832

<https://doi.org/10.3390/su14052832> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Changing properties of wind waves and vessel wakes on the eastern coast of the Baltic Sea = Tuulelainete režiimi ja laevalainete omaduste muutused Läänemere idarannikul

Kelpšaitė, Loreta 2009 <https://digi.lib.ttu.ee/i/?451> https://www.ester.ee/record=b2508681*est

Characteristic properties of different vessel wake signals

Didenkulova, Irina; Sheremet, Alex; Torsvik, Tomas; Soomere, Tarmo Journal of coastal research 2013 / p. 213-218 : ill

<https://doi.org/10.2112/SI65-037> <https://bioone.org/journals/journal-of-coastal-research/volume-65/issue-sp1/SI65-037.1/Characteristic-properties-of-different-vessel-wake-signals/10.2112/SI65-037.1.short> [Conference Proceedings at Scopus](#) [Article at Scopus](#)

Comparison between eddy viscosities for a plunging breaker wave

Oldekop, Nelly; Liiv, Toomas 6th IAHR Europe Congress, Warsaw, Poland : abstract book 2021 / p. 411-412 <https://iahr2020.pl/wp-content/uploads/2021/02/Book-of-Abstracts-15-02-2021.pdf>

A comparison of Baltic Sea wave properties simulated using two modelled wind data sets

Giudici, Andrea; Jankowski, Mikolaj Zbigniew; Männikus, Rain; Najafzadeh, Fatemeh; Suursaar, Ülo; Soomere, Tarmo Estuarine, coastal and shelf science 2023 / art. 108401, 15 p. : ill <https://doi.org/10.1016/j.ecss.2023.108401> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Cones with convoluted geometry that always scatter or radiate

Blåsten, Emilia L.K.; Pohjola, Valter Inverse Problems 2022 / Art. 125001 <https://doi.org/10.1088/1361-6420/ac963c> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Continuum Waves

Encyclopedia of Continuum Mechanics 2020 / p. IX <https://doi.org/10.1007/978-3-662-55771-6>

Dispersive and nondispersive nonlinear long wave transformations: numerical and experimental results

Torsvik, Tomas; **Abdalazeez, Ahmed**; Dutykh, Denys; Denissenko, Petr; **Didenkulova, Irina** Applied wave mathematics II : selected topics in solids, fluids, and mathematical methods and complexity 2019 / p. 41-60 https://doi.org/10.1007/978-3-030-29951-4_3 https://www.eester.ee/record=b5303400*est

Dynamic motion analysis of stepless and stepped planing hulls in random waves: a CFD model perspective

Niazmand Bilandi, Rasul; Tavakoli, Sasan; Mancini, Simone; Dashtimanesh, Abbas Applied Ocean Research 2024 / art. 104046 <https://doi.org/10.1016/j.apor.2024.104046> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Dynamic of a planing hull in regular waves: Comparison of experimental, numerical and mathematical methods

Tavakoli, Sasan; Niazmand Bilandi, Rasul; Mancini, Simone; De Luca, Fabio; **Dashtimanesh, Abbas** Ocean engineering 2020 / art. 107959, 24 p. : ill <https://doi.org/10.1016/j.oceaneng.2020.107959> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Dynamic of tunneled planing hulls in waves

Roshan, Fatemeh; Tavakoli, Sasan; Mancini, Simone; Dashtimanesh, Abbas Journal of marine science and engineering 2022 / art. 1038 : ill <https://doi.org/10.3390/jmse10081038> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Edge-wave-driven durable variations in the thickness of the surfactant film and concentration of surface floats

Averbukh, Elena; Kurkina, Oxana; Kurkin, Andrey; **Soomere, Tarmo** Physics letters A 2014 / p. 53-58 : ill <https://doi.org/10.1016/j.physleta.2013.10.019> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Effects of the sampling bias on retrieved modes of wave climate variations from satellite altimetry : Baltic Sea case study

Najafzadeh, Fatemeh; Kudryavtseva, Nadezhda; **Soomere, Tarmo** 2019 European Space Agency Living Planet Symposium 2019 / [1] p <https://lps19.esa.int>

Elastic wave propagation in periodical one-dimensional problems: Accurate finite element modelling

Kolman, Kolman; Cho, Sang Soo; Park, K.C.; **Berezovski, Arkadi**; Gonzalez, Joze; Hora, Petra Proceedings of 8th GACM Colloquium on Computational Mechanics For Young Scientists From Academia and Industry August 28th-30th, 2019 University of Kassel, Germany 2019 / p. 23-25 <https://doi.org/10.19211/KUP9783737650939>

Experimental analysis of boundary layer dynamics in plunging breaking wave = Sukelduva murdlaine piirikihi dünaamika eksperimentaalne analüüs

Liiv, Toomas 2011

Experimental statistics of long wave runup on a plane beach

Denissenko, Petr; **Didenkulova, Irina**; Rodin, Artem; Listak, Madis; Pelinovsky, Efim Journal of coastal research 2013 / p. 195-200 : ill <https://doi.org/10.2112/SI65-034.1> [Conference Proceedings at Scopus](#) [Article at Scopus](#) [Conference Proceedings at WOS](#) [Article at WOS](#)

Experimental study of eddy viscosity for breaking waves on sloping bottom and comparisons with empirical and numerical predictions

Oldekop, Nelly; Liiv, Toomas; **Laanearu, Janek** Proceedings of the Estonian Academy of Sciences 2019 / p. 299–312 : ill <https://doi.org/10.3176/proc.2019.3.07> http://www.kirj.ee/public/proceedings_pdf/2019/issue_3/proc-2019-3-299-312.pdf [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Experimental study of hydrodynamic forces acting on artificial fish in a von Kármán vortex street

Toming, Gert; Chambers, Lily D.; **Kruusmaa, Maarja** Underwater technology 2014 / p. 81-91 : ill <https://doi.org/10.3723/ut.32.081> [Journal metrics at Scopus](#) [Article at Scopus](#)

Experimental study of wave impact on the nearshore structures during extreme coastal floods

Sriram, Venkatachalam; **Didenkulova, Irina**; Pelinovsky, Efim; Rodin, Artem Geophysical research abstracts 2016 / p. EGU2016-4240

Experimental study on dynamical blocking conditions of net exchange flows

Laanearu, Janek; Cuthbertson, Alan; Carr, Magda; Sommeria, Joel; **Lilover, Madis-Jaak;** Viboud, Samuel; Berntsen, Jarle VIIIth International Symposium on Stratified Flows : San Diego 2016 2016 / p. 1-8 : ill <http://escholarship.org/uc/item/48s7m6h9>

Extreme inundation statistics on a composite beach

Abdalazeez, Ahmed; Didenkulova, Irina; Dutykh, Denys; Labart, Celine Water 2020 / art. 1573, 13 p. : ill <https://doi.org/10.3390/w12061573> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Function approximation using Haar wavelets

Majak, Jüri; Eerme, Martin; Haavajõe, Anti AIP conference proceedings 2020 / art. 230004 <https://doi.org/10.1063/5.0026543> Conference proceeding at Scopus Article at Scopus Article at WOS

How do simple wave models perform compared with sophisticated models and measurements in the eastern Baltic Sea?

Männikus, Rain; Soomere, Tarmo; Suursaar, Ülo EGU General Assembly 2023, Vienna, Austria, 24–28 Apr 2023 2023 / EGU23-1657 <https://doi.org/10.5194/egusphere-egu23-1657> <https://meetingorganizer.copernicus.org/EGU23/EGU23-1657.html>

How do simple wave models perform compared with sophisticated models and measurements in the Gulf of Finland?

Männikus, Rain; Soomere, Tarmo; Suursaar, Ülo Estonian journal of earth sciences 2024 / p. 98-111 <https://doi.org/10.3176/earth.2024.10> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Influence of acute mental stress on the forehead photoplethysmographic signal waveform

Pilt, Kristjan; Karai, Deniss; Bachmann, Maie; Gavriljuk, Marietta; Fridolin, Ivo 19th Nordic-Baltic conference on biomedical engineering and medical physics : proceedings of NBC 2023, June 12-14, 2023, Liepaja, Latvia 2023 / p. 181 - 188 https://doi.org/10.1007/978-3-031-37132-5_23 Conference Proceedings at Scopus Article at Scopus

Interannual variations of ice cover and wave energy flux in the northeastern Baltic Sea

Zaitseva-Pärnaste, Inga; Soomere, Tarmo Annals of glaciology 2013 / p. 175-182 : ill <https://doi.org/10.3189/2013AoG62A228> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Interfacial long traveling waves in a two-layer fluid with variable depth

Pelinovsky, Efim; Talipova, Tatyana; **Didenkulova, Irina;** Didenkulova, Ekaterina Studies in applied mathematics 2019 / p. 513-527 <https://doi.org/10.1111/sapm.12235> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Investigation of planing vessels motion using nonlinear strip theory - an experimental and numerical study

Hosseinzadeh, Saeed; Khorasanchi, Mahdi; Seif, Mohammad Saeed Ships and offshore structures 2019 / p. 684-697 : ill <https://doi.org/10.1080/17445302.2018.1552342>

Investigation of the eddy viscosity for a breaking wave in the surf zone = Turbulentse viskoossusteguri määramine murdlaine piirkonnas ranna-alal

Oldekop, Nelly 2019 <https://digikogu.taltech.ee/et/Item/4bff81c5-ce66-4efb-a833-0ae8e0fbdd9>

Laboratory modeling of resonance phenomena in the long wave dynamics

Abcha, Nizar; Pelinovsky, Efim; **Didenkulova, Irina** Nonlinear waves and pattern dynamics 2018 / p. 45-61 https://doi.org/10.1007/978-3-319-78193-8_2

Laboratory study of peculiarities of the freak-wave generation

Rodin, Artem; Tyugin, Dmitry; Kurkin, Andrey; Kurkina, Oxana; **Didenkulova, Irina** Geophysical research abstracts 2017 / p. EGU2017-1845-3

Laboratory study of the breaking wave characteristics

Liiv, Toomas; Liiv, Uno XXVIII IAHR Congress : 22-27 August, Graz : proceedings [CD-ROM] 1999 / [6] p

Lagrangian timescales in the gulf of Finland

Viikmäe, Bert; Torsvik, Tomas 9th International Workshop on Modeling the Ocean (IWMO) : July 3-6, 2017, Yonsei University (Seoul, Korea) : [abstracts] 2017 / p. 30 http://docs.wxstatic.com/ugd/c8ad40_d041d85a16674a4a83f0bfd22351cbf9.pdf

Lagrangian timescales in the gulf of Finland

Viikmäe, Bert; Torsvik, Tomas Geophysical research abstracts 2017 / p. EGU2017-3854 <http://meetingorganizer.copernicus.org/EGU2017/EGU2017-3854.pdf>

Long surface wave dynamics along a convex bottom

Didenkulova, Irina; Pelinovsky, Efim; **Soomere, Tarmo** Journal of geophysical research 2009 / p. C07006 [14 p.] : ill <https://agupubs.onlinelibrary.wiley.com/doi/full/10.1029/2008JC005027>

Long wave dynamics in the coastal zone = Pikkade lainete dünaamika rannavööndis

Didenkulova, Irina 2008 <https://digi.lib.ttu.ee/i/?230> https://www.ester.ee/record=b2394485*est

Long wave generation and coastal amplification due to propagating atmospheric pressure disturbances

Dogan, Gozde Guney; Pelinovsky, Efim; Zaytsev, Andrey; Metin, Ayse Duha; Ozyurt Tarakcioglu, Gulizar; Yalciner, Ahmet Cevdet; Yalciner, Bora; **Didenkulova, Ira** Natural hazards 2021 / p. 1195-1221 : ill <https://doi.org/10.1007/s11069-021-04625-9> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Läänemere rahutute rannikute põnevad saladused

Soomere, Tarmo Teadusmõtte Eestis (X). Tehnikateadused. 3 : [artiklikogumik] 2019 / lk. 177-189 : ill., fot https://www.ester.ee/record=b5208765*est

Mapping wave set-up near a complex geometric urban coastline

Soomere, Tarmo; Pindsoo, Katri; Bishop, Steven Richard; Käär, Arvo; Valdmann, Ain Natural Hazards and Earth System Sciences 2013 / p. 3049 - 3061 <https://doi.org/10.5194/nhess-13-3049-2013> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Mapping wave set-up near a complex geometric urban coastline

Soomere, Tarmo; Pindsoo, Katri; Bishop, Steven Richard; Käär, Arvo; Valdmann, Ain Natural hazards and earth system sciences discussions 2013 / p. 1651-1688 : ill <https://doi.org/10.5194/nhessd-1-1651-2013>

Measurement and model simulations of hydrodynamic parameters, observations of coastal changes and experiments with indicator sediments to analyse the impact of storm St. Jude in October, 2013

Tönisson, Hannes; Suursaar, Ülo; **Alari, Victor;** Muru, Merle; Ravis, Reimo; Kont, Are; **Viitak, Marii** Journal of coastal research 2016 / p. 1257-1261 : ill <https://doi.org/10.2112/SI75-252.1> [Conference Proceedings at Scopus](#) [Article at Scopus](#) [Conference Proceedings at WOS](#) [Article at WOS](#)

Microstructured continua and scaling for wave motion

Engelbrecht, Jüri Atti della Accademia Peloritana dei Pericolanti, Classe di Scienze Fisiche, Matematiche e Naturali 2013 / art. A8 <https://doi.org/10.1478/AAPP.91S1A8> [Journal metrics at Scopus](#) [Article at Scopus](#)

Modelling suitable layout for a small island harbour: A case study of Ruhnu in the Gulf of Riga, eastern Baltic Sea

Männikus, Rain; Wang, W. W.; **Eelsalu, Maris;** Najafzadeh, Fatemeh; Bihs, H.; **Soomere, Tarmo** Latvian journal of physics and technical sciences 2024 / p. 3-24 <https://doi.org/10.2478/lpts-2024-0040>

Monitoring of coastal waves and velocities with a robotic platform

Piho, Laura; Egerer, Margit; Gkliva, Roza; Kruusmaa, Maarja; Ristolainen, Asko OCEANS 2024 - Halifax : proceedings 2024 / 5 p <https://doi.org/10.1109/OCEANS55160.2024.10754335> [Conference proceedings at Scopus](#) [Article at Scopus](#)

Nonlinear dynamics of internal gravity waves in shallow seas = Siselainete mittelineaarne dünaamika madala vee lähenduses

Kurkina, Oxana 2012

Nonlinear effects at the initial stage of tsunami-wave development

Pelinovsky, Efim; Rodin, Artem Izvestiya, atmospheric and oceanic physics 2013 / p. 548-553 : ill <https://doi.org/10.1134/S0001433813050083> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Nonlinear wave dynamics in self-consistent water channels

Pelinovsky, Efim; Didenkulova, Ira; Shurgalina, Ekaterina; Aseeva, Nataly Journal of physics A: mathematical and theoretical 2017 / art. 505501, 16 p. : ill <https://doi.org/10.1088/1751-8121/aa923e> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Nonlinear wave effects at the non-reflecting beach

Didenkulova, Irina; Pelinovsky, Efim Nonlinear processes in geophysics 2012 / p. 1-8 : ill <https://npg.copernicus.org/articles/19/1/2012/>

Nonlinear wave motion : complexity and simplicity revisited

Engelbrecht, Jüri; Salupere, Andrus; Peterson, Pearu Abstracts of IUTAM/IFTOMM Symposium on Synthesis of Nonlinear Dynamical Systems, Riga, Latvia, 24-28 Aug. 1998 1998 / p. 3-4 https://link.springer.com/chapter/10.1007/978-94-011-4229-8_3

Numerical simulation of acoustic emission during crack growth in 3-point bending test

Berezovski, Arkadi; Berezovski, Mihail Structural control & health monitoring 2017 / e1996, p. 1-8 : ill <https://doi.org/10.1002/stc.1996> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Numerical simulation of unidirectional irregular nonlinear waves in the basin of intermediate depth

Slunyaev, Alexey; Sergeeva, Anna; Didenkulova, Irina Geophysical research abstracts 2016 / p. EGU2016-3303

Numerical solution of stiff ODEs using non-uniform Haar wavelets

Aziz, Imran; Yasmeen, Shumaila; Tsukrejev, Pavel International Conference of Numerical Analysis and Applied Mathematics,

ICNAAM 2018 : 13-18 September 2018, Rhodes, Greece 2019 / art. 330008 <https://doi.org/10.1063/1.5114346> [Conference proceeding at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

Nutikas poi: LainePoissi ei heiduta antarktiline jäämeri ega soolane ookean
geenius.ee 2023 [Nutikas poi: LainePoissi ei heiduta antarktiline jäämeri ega soolane ookean](#)

Nähtav transport ja nähtamatud tökked Läänemere idarannikul
Soomere, Tarmo Meri 2016 / lk. 15-23 https://artiklid.elnet.ee/record=b2818112*est

On identical traveling-wave solutions of the Kudryashov-Sinelshchikov and related equations
Randrüüt, Merle; Braun, Manfred International journal of non-linear mechanics 2014 / p. 206-211 : ill
<https://doi.org/10.1016/j.jnonlinmec.2013.09.013> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

On pulse propagation in porous visco-elastic felt-like material
Kartofelev, Dmitri; Vuin, Maria Miranda Symposium on the Acoustics of Poro-Elastic Materials 2023 / 46 p. : ill
https://sapem2023.matelys.com/proceedings/Kartofelev_et al_SAPEM2023.pdf

On shallow water rogue wave formation in strongly inhomogeneous channels
Didenkulova, Irina; Pelinovsky, Efim Journal of physics A : mathematical and theoretical 2016 / art. 194001, p. 1-11 : ill
<https://doi.org/10.1088/1751-8113/49/19/194001> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

On the variability of the Baltic Sea wave fields
Räämet, Andrus Biodiversity and Functioning of Aquatic Ecosystems in the Baltic Sea Region : Klaipeda, Lithuania 9-12 October 2008 2008

Pre-evaluation of wave energy converter deployment in the Baltic Sea through site limitations using CEMS hindcast, Sentinel-1, and wave Buoy data
Vidjajev, Nikon; Rikka, Sander; Alari, Victor Energies 2025 / art. 3843 <https://doi.org/10.3390/en18143843>

Propagation and run-up of nonlinear solitary surface waves in shallow seas and coastal areas = Pikkade mittelineaarsete lainete dünaamika ja lainerünnak
Rodin, Artem 2015 https://www.ester.ee/record=b4467039*est

Propagation regimes of interfacial solitary waves in a three-layer fluid
Kurkina, Oxana; Kurkin, Andrey; Rouvinskaya, Ekaterina; **Soomere, Tarmo** Nonlinear processes in geophysics 2015 / p. 117-132
<https://doi.org/10.5194/npg-22-117-2015> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Quantification of the impact of vessel wakes on a shinglegravel beach
Pindsoo, Katri; Soomere, Tarmo; Eelsalu, Maris; Tõnisson, Hannes 10th Baltic Sea Science Congress : Science and innovation for future of the Baltic and the European regional seas : 15-19 June, 2015, Riga, Latvia : abstract book 2015 / p. 201
http://www.bssc2015.lv/wp-content/uploads/2015/07/10th_BSSC_AbstractBook_final.pdf

Questions about elastic waves
Engelbrecht, Jüri 2015 https://www.ester.ee/record=b4467528*est

Reflectionless surface wave dynamics in channels of variable depth and width [Online resource]
Pelinovsky, Efim; Talipova, Tatyana; **Didenkulova, Irina**; Shurgalina, Ekaterina IUTAM Symposium Wind Waves : 4-8 September 2017, London, UK : abstracts 2017 / p. [28] https://www.ucl.ac.uk/maths/events/other-events/iutam-symposium-wind-waves/abstracts_final

Reflectionless wave dynamics in channels of variable depth and width
Pelinovsky, Efim; **Didenkulova, Irina**; Shurgalina, Ekaterina Geophysical research abstracts 2017 / p. EGU2017-2977

Reflections on mathematical models of deformation waves in elastic microstructured solids
Engelbrecht, Jüri; Berezovski, Arkadi Mathematics and Mechanics of Complex Systems 2015 / p. 43 - 82
<https://doi.org/10.2140/memocs.2015.3.43> [Journal metrics at Scopus](#) [Article at Scopus](#)

Rogue waves in shallow water
Soomere, Tarmo The European physical journal. Special topics 2010 / p. 81-96 : ill https://www.ester.ee/record=b2624547*est

Rogue waves in the basin of intermediate depth and the possibility of their formation due to the modulational instability
Didenkulova, Irina; Nikolkina, Irina; Pelinovsky, Efim JETP letters 2013 / p. 194-198 : ill <https://doi.org/10.1134/S0021364013040024>
[Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Runup of long irregular waves on plane beach
Didenkulova, Irina; Pelinovsky, Efim; Sergeeva, Anna Extreme ocean waves. 2nd ed 2016 / p. 141-153 : ill
https://doi.org/10.1007/978-3-319-21575-4_8

Runup of nonlinear asymmetric waves on a plane beach

Didenkulova, Irina; Pelinovsky, Efim; **Soomere, Tarmo**; Zahibo, Narcisse Tsunami and nonlinear waves 2007 / p. 175-190 : ill https://link.springer.com/chapter/10.1007/978-3-540-71256-5_8

Run-up of surface waves on a sea wall built on a convex bottom profile

Didenkulova, Irina; Pelinovsky, Efim; Rodin, Artem Oceanology 2016 / p. 483-490 : ill <https://doi.org/10.1134/S0001437016030036>
[Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Satellite altimetry reveals spatial patterns of variations in the Baltic Sea wave climate

Kudryavtseva, Nadezhda; **Soomere, Tarmo** Earth System Dynamics 2017 / p. 697-706 : ill <https://doi.org/10.5194/esd-2016-68>
[Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Shallow water rogue wave formation in inhomogeneous channels

Pelinovsky, Efim; **Didenkulova, Irina** Geophysical research abstracts 2016 / EGU2016-1219

Shear investigations of the breaking waves in the flume

Liiv, Toomas; **Liiv, Uno** Proceedings of the 3rd International Conference on Hydro-Science and -Engineering, Cottbus/Berlin, Germany, August 31 - September 3, 1998 1998 / Ettekanne CD-ROMil: 21 lk

Simulated and observed reversals of wave-driven alongshore sediment transport at the eastern Baltic Sea coast

Viška, Maija; **Soomere, Tarmo** Baltica 2013 / p. 145-156 : ill <https://doi.org/10.5200/baltica.2013.26.15> [Journal metrics at Scopus](#)
[Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Simulation of wave damping near coast due to offshore wind farms

Alari, Victor; **Raudsepp, Urmas** Journal of coastal research 2012 / p. 143-148 : ill <https://bioone.org/journals/Journal-of-Coastal-Research-JCR/volume-28/issue-1/JCOASTRES-D-10-00054.1/Simulation-of-Wave-Damping-Near-Coast-due-to-Offshore-Wind/10.2112/JCOASTRES-D-10-00054.1.short>

Soliton interaction as a possible model for extreme waves in shallow water

Peterson, Pearu; **Soomere, Tarmo**; **Engelbrecht, Jüri**; van Groesen, E. Nonlinear processes in geophysics 2003 / p. 503-510 : ill

Solitons and solitonic structures - what is visible and what is hidden

Salupere, Andrus Contributions to the Foundations of Multidisciplinary Research in Mechanics : papers presented during the 24th International Congress of Theoretical and Applied Mechanics ICTAM 2016, Montreal, August 22-26, 2016. Vol. 3 2017 / p. 2216-2217 : ill http://iutam.org/wp-content/uploads/2017/02/ICTAM_Proceedings_Vol_3.pdf

Special issue on advanced modelling of wave propagation in solids

Engelbrecht, Jüri; Givoli, Dan; Hagstrom, Thomas; Maugin, Gerard Wave Motion 2013 <https://doi.org/10.1016/j.wavemoti.2013.07.001>
[Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Storm Ulla causes record summer waves in Gulf of Finland

Oidermaa, Jaan-Juhan news.err.ee 2025 <https://news.err.ee/1609737702/storm-ulla-causes-record-summer-waves-in-gulf-of-finland>

Strain wave propagation through felt-like material

Vuin, Maria Miranda; **Kartofelev, Dmitri**; **Salupere, Andrus** Symposium on the Acoustics of Poro-Elastic Materials 2023 / 24 p. : ill https://sapem2023.matelys.com/proceedings/Vuin_et_al_SAPem2023.pdf

Subharmonic resonant excitation of edge waves by breaking surface waves

Abcha, Nizar; Zhang, Tonglei; Ezersky, Alexander; Pelinovsky, Efim; **Didenkulova, Irina** Nonlinear processes in geophysics 2017 / p. 157-165 : ill <https://doi.org/10.5194/npg-24-157-2017> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Swell hindcast statistics for the Baltic Sea

Björkqvist, Jan-Victor; **Pärt, Siim**; **Alari, Victor**; **Rikka, Sander** Ocean Science 2021 / p. 1815–1829 <https://doi.org/10.5194/os-17-1815-2021> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Teadlane vastab : miks on merel vahel lained ka vaikse ilmaga? [Võrguväljaanne]

Soomere, Tarmo Eesti Teaduste Akadeemia : Youtube kanal 2020 / video [Teadlane vastab: miks on merel vahel lained ka vaikse ilmaga?](#)

The comparison of wind-waves and ship-wakes on the coastal zone in Tallinn Bay, the Baltic Sea

Kelpšaitė, Loreta BSSC 2009 : [7th Baltic Sea Science Congress 2009] : August 17-21, 2009, Tallinn, Estonia : abstract book 2009 / p. 181

The effect of turbulent roughness to the turbulence in breaking waves [Electronic resource]

Liiv, Toomas Proceedings of the COPEDEC V : Johannesburg, South Africa, 1999 1999 / [CD-ROM]

The effects of wind and waves on in-situ surface drift in the Baltic Sea [Online resource]

Delpeche-Ellmann, Nicole Camille; Giudici, Andrea; Soomere, Tarmo Geophysical research abstracts 2020 / p. EGU2020-11496 <https://doi.org/10.5194/egusphere-egu2020-11496>

The impact of seasonal changes in stratification on the dynamics of internal waves in the Sea of Okhotsk

Kurkina, Oxana; Talipova, Tatyana; **Soomere, Tarmo**; Kurkin, Andrey; Rybin, Artem Estonian journal of earth sciences 2017 / p. 238-255 : ill <https://doi.org/10.3176/earth.2017.20> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

The run-up of nonlinearly deformed sea waves on the coast of a bay with a parabolic cross-section

Didenkulov, Oleg; **Didenkulova, Irina**; Pelinovsky, Efim Moscow University physics bulletin 2016 / p. 323-328 : ill <https://doi.org/10.3103/S0027134916030048> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

The variation of turbulent eddy viscosity during a wave cycle [Electronic resource]

Oldekop, Nelly; Liiv, Toomas E-proceedings of the 36th IAHR World Congress : 28 June - 3 July, 2015, The Hague, the Netherlands 2015 / p. 1-5 : ill

Torm Ulla tekitas Soome lahel rekordkõrged suvelained

Oidermaa, Jaan-Juhan novaator.err.ee 2025 <https://novaator.err.ee/1609737681/torm-ulla-tekitas-soome-lahel-rekordkorged-suvelained>

Transfer of techniques developed for the Baltic Sea to the Caspian Sea region : Decadal wave climate variability of the Caspian Sea from satellite altimetry

Kussembayeva, Kuanysh; **Kudryavtseva, Nadezhda; Soomere, Tarmo** 7th IEEE/OES Baltic Symposium Clean and Safe Baltic Sea and Energy Security for the Baltic countries : abstract book, 12-15 June 2018, Klaipėda, Lithuania 2018 / p. 41 http://balticvalley.lt/baltic2018/wp-content/uploads/2018/06/abstract-book_7th_Baltic-Symposium_20180528.pdf

Transformation of internal breathers in the idealised shelf sea conditions

Rouvinskaya, Ekaterina; Talipova, Tatyana; Kurkina, Oxana; **Soomere, Tarmo**; Tyugin, Dmitry Continental shelf research 2015 / p. 60-71 <https://doi.org/10.1016/j.csr.2015.09.017> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Tsunami evolution and run-up in a large scale experimental facility

Sriram, Venkatachalam; **Didenkulova, Irina**; Sergeeva, Anna; Schimmels, Stefan Coastal engineering 2016 / p. 1-12 : ill <https://doi.org/10.1016/j.coastaleng.2015.11.006> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Tsunami run-up on a plane beach in a tidal environment

Didenkulova, Irina; Pelinovsky, Efim Pure and applied geophysics 2020 / p. 1583-1593 : ill <https://doi.org/10.1007/s00024-019-02332-y> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Tsunami wave run-up on a vertical wall in tidal environment

Didenkulova, Irina; Pelinovsky, Efim Pure and applied geophysics 2018 / p. 1387-1391 <https://doi.org/10.1007/s00024-017-1744-2> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

A typical wave wake from high-speed vessels : its group structure and run-up

Didenkulova, Irina; Rodin, Artem Nonlinear processes in geophysics 2013 / p. 179-188 : ill <https://doi.org/10.5194/npg-20-179-2013> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Untangling the waves: decomposing extreme sea levels in a non-tidal basin, the Baltic Sea

Lorenz, Marvin; **Viigand, Katri**; Gräwe, Ulf Natural Hazards and Earth System Sciences 2025 / p. 1439-1458 <https://doi.org/10.5194/nhess-25-1439-2025>

Using spectrograms from underwater total pressure sensors to detect passing vessels in a coastal environment

Rätsep, Margus; Parnell, Kevin Ellis; Soomere, Tarmo; Kruusmaa, Maarja; Ristolainen, Asko; Tuhtan, Jeffrey Andrew Journal of atmospheric and oceanic technology 2020 / p. 1353-1363 : ill <https://doi.org/10.1175/JTECH-D-19-0192.1> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Wave climate in Lake Peipsi

Nikolkina, Irina; Soomere, Tarmo; Didenkulova, Irina Journal of coastal research 2013 / p. 2035-2040 : ill <https://doi.org/10.2112/SI65-344> [Conference Proceedings at Scopus](#) [Article at Scopus](#)

Wave dynamics in the channels of variable cross-section

Pelinovsky, Efim; **Didenkulova, Irina**; Shurgalina, Ekaterina Physical oceanography 2017 / p. 19-27 : ill <http://dx.doi.org/10.22449/1573-160X-2017-3-19-27>

Wave height return periods from combined measurement–model data: a Baltic Sea case study

Björkqvist, Jan-Victor; Rikka, Sander; Alari, Victor; Männik, Aarne; Tuomi, Laura; Pettersson, Heidi Natural hazards and earth

system sciences 2020 / p. 3593–3609 <https://doi.org/10.5194/nhess-20-3593-2020> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Waves in continuous media: classical theory

Engelbrecht, Jüri Encyclopedia of Continuum Mechanics 2020 / p. 2765–2771 https://doi.org/10.1007/978-3-662-55771-6_230

Weakly reflecting waves in narrow bays

Didenkulova, Irina; Pelinovsky, Efim BSSC 2009 : [7th Baltic Sea Science Congress 2009] : August 17-21, 2009, Tallinn, Estonia : abstract book 2009 / p. 184

Безотражательное распространение волн в сильно неоднородных средах

Pelinovsky, Efim; Shurgalina, Ekaterina; **Didenkulova, Irina** Неравновесные процессы в сплошных средах : материалы международного симпозиума. Том 2 2017 / с. 131-135

Динамика волн в каналах переменного сечения

Pelinovsky, Efim; **Didenkulova, Irina**; Shurgalina, Ekaterina Морской гидрофизический журнал 2017 / с. 22-31

Изучение экстремальных заплесков волн на берег в рамках нелинейных уравнений теории мелкой воды

Senitšev, D.; **Didenkulova, Irina** XXII Международная научно-техническая конференция "Информационные системы и технологии" ИСТ-2016 : посвященная 80-летию РТФ-ФРК-ФИСТ-ИРИТ 2016 / с. 437

Накат нелинейно деформированных морских волн на берег бухты параболического сечения

Didenkulov, Oleg; **Didenkulova, Irina**; Pelinovsky, Efim Вестник Московского Университета. Серия 3, Физика. Астрономия 2016 / с. 84-89 : ил <http://vmu.phys.msu.ru/file/2016/3/16-3-84.pdf>

Накат поверхностных волн на стенку, установленную на выпуклом донном профиле

Didenkulova, Irina; Pelinovsky, Efim; Rodin, Artem Океанология 2016 / с. 529-536 <https://doi.org/10.7868/S0030157416030035>

О дисперсии в двумерных волновых процессах

Engelbrecht, Jüri Исследования по динамике конструкций 1981 / с. 56-62 : рис https://www.ester.ee/record=b1309334*est

Параметризация характеристик наката одиночных волн в бухте параболического сечения

Didenkulov, Oleg; **Didenkulova, Irina**; Pelinovsky, Efim Труды Нижегородского государственного технического университета им. Р.Е. Алексеева 2014 / с. 30-36 : ил <https://www.nntu.ru/frontend/web/ngtu/files/nauka/izdaniya/trudy/2014/03/030-036.pdf>

Параметры крупных волн при двухфазном противоточном пленочном движении жидкости

Treimann, Aksel II республиканская конференция молодых ученых-химиков, 17-19 мая 1977 : тезисы докладов. Часть 2 1977 / с. 58-59 https://www.ester.ee/record=b1308855*est

Простейшие математические модели морских природных катастроф в прибрежной зоне моря = Simple mathematical models for marine hazards in the coastal zone

Didenkulova, Irina Сборник тезисов участников форума "Наука будущего - наука молодых" - Казань, 2016. Том 1 2016 / с. 296

Распространение двумерных волн деформации в неоднородной среде

Reipman, Tõnu Динамика и оптимизация конструкции = Konstruktsioonide dünaamika ja optimiseerimine 1987 / с. 150-157 : илл. https://www.ester.ee/record=b1289025*est

Сравнение дисперсионной и бездисперсионной моделей наката длинных волн на берег

Abdalazeez, Ahmed; **Didenkulova, Irina**; Dutykh, Denys; Denissenko, Petr Известия РАН. Физика атмосферы и океана 2020 / с. 567-574 <https://doi.org/10.31857/S0002351520050028>