

Alongshore sediment transport analysis for a semi-enclosed basin: a case study of the Gulf of Riga, the Baltic Sea
Soomere, Tarmo; Jankowski, Mikolaj Zbigniew; Eelsalu, Maris; Parnell, Kevin Ellis; Viška, Maija Ocean Science 2025 / p. 619-641 <https://doi.org/10.5194/os-21-619-2025>

An Analysis of Arterial Pulse Wave Time Features and Pulse Wave Velocity Calculations Based on Radial Electrical Bioimpedance Waveforms in Patients Scheduled for Coronary Catheterization
Lotamõis, Kristina; Uuetoa, Tiina; Krivošei, Andrei; Annus, Paul; Metshein, Margus; Rist, Marek; Margus, Sulev; Min, Mart; Tamberg, Gert Journal of Cardiovascular Development and Disease 2025 / art. 237 <https://doi.org/10.3390/jcdd12070237>

Attribution of alterations in coastal processes in the southern and eastern Baltic Sea to climate change-driven modifications of coastal drivers
Eelsalu, Maris; Soomere, Tarmo; Parnell, Kevin Ellis; Viška, Maija Oceanologia 2025 / art. 67103 <https://doi.org/10.5697/LXTZ5389>

Calcium handling in creatine-deficient mouse hearts
Branovets, Jelena Acta Physiologica 2023 / art. e14043 <https://doi.org/10.1111/apha.14043>

Compartmentalization in cardiomyocytes modulates kinase activities
Birkedal, Rikke; Branovets, Jelena; Jaska, Lucia; Shikha, Divya; Bernasconi, Romain; Vendelin, Marko FEBS Open Bio 2024 / p. 34 <https://doi.org/10.1002/2211-5463.13836>

Compromised creatine kinase energy transfer affects cardiac excitation-contraction coupling
Branovets, Jelena; Kalda, Mari; Laasmaa, Martin; Stolova, Jekaterina; Shen, Xin; Grahv, Cärolin; Hendrikson, Eliise; Louch, William Edward; Birkedal, Rikke; Vendelin, Marko Acta Physiologica 2022 / p. 594-595
<https://onlinelibrary.wiley.com/doi/epdf/10.1111/apha.13878>

Demonstration of gas laws in physics lessons
Gavrilov, Aleksei World journal of advanced engineering technology and sciences 2025 / p. 99-102
<https://doi.org/10.30574/wjaets.2025.14.2.0558>

Development of continuous dynamic vertical reference for maritime and offshore engineering by applying geodetic and machine learning strategies
Ellmann, Artu; Delpeche-Ellmann, Nicole Camille; Varbla, Sander; Rajabi Kiasari, Saeed; Jahanmard, Vahidreza; Kupavõh, Aleksei EGU General Assembly 2025 2025 / art. EGU25-20596 <https://doi.org/10.5194/egusphere-egu25-20596>

Dynamical equivalence between resonant translocation of a polymer chain and diversity-induced resonance
Patriarca, Marco; Scialla, Stefano; Heinsalu, Els; Yamakou, Marius E.; Cartwright, Julian H. E. Chaos : An Interdisciplinary Journal of Nonlinear Science 2025 / art. 073115 <https://doi.org/10.1063/5.0262633>

Forecasting of Sea Level Extremes using Deep Learning and Extreme Value Analysis
Delpeche-Ellmann, Nicole Camille; Rajabi-Kiasari, Saeed; Soomere, Tarmo; Ellmann, Artu EGU General Assembly 2025 2025 / art. EGU25-13350 <https://meetingorganizer.copernicus.org/EGU25/EGU25-13350.html> <https://doi.org/10.5194/egusphere-egu25-13350>

Fourier neural operators for emulating ocean models : Towards a knowledge-driven machine learning
Jahanmard, Vahidreza; Ellmann, Artu; Delpeche-Ellmann, Nicole Camille EGU General Assembly 2025 2025 / art. EGU25-4354 <https://doi.org/10.5194/egusphere-egu25-4354>

Füüsikaprofessor Jaan Kalda selgitab : kust tuleks otsida vikerkaart?
Kalda, Jaan forte.delfi.ee 2025 <https://forte.delfi.ee/artikkel/120394914/fuusikaprofessor-jaan-kalda-selgitab-kust-tuleks-otsida-vikerkaart>

Füüsikaprofessor selgitab : mis on tasakaal ja kas inimene saab seda ise kuidagi mõjutada?
Kalda, Jaan forte.delfi.ee 2025 <https://forte.delfi.ee/artikkel/120396889/fuusikaprofessor-selgitab-mis-on-tasakaal-ja-kas-inimene-saab-seda-ise-kuidagi-mojutada>

Inherent non-stationarity in the GEV distribution for extreme sea levels : Implications for coastal vulnerability in the Baltic Sea
Viigand, Katri; Eelsalu, Maris; Soomere, Tarmo Ocean engineering 2025 / art. 122681
<https://doi.org/10.1016/j.oceaneng.2025.122681>

Initial adjustment of underwater profiles after nourishment in a mild wave climate : a case study near Klaipėda, the Baltic Sea
Šakurova, Ilona; Kondrat, Vitalijus; Baltranaite, Egle; Gardauske, Vita; Kelpšaitė-Rimkienė, Loreta; Soomere, Tarmo; Parnell, Kevin Ellis Estonian journal of earth sciences 2025 / p. 22 - 33 <https://doi.org/10.3176/earth.2025.02>

Instantaneous sea surface height prediction using satellite altimetry and deep learning
Rajabi-Kiasari, Saeed; Delpeche-Ellmann, Nicole Camille; Ellmann, Artu Living Planet Symposium (LPS25) 2025
<https://lps25.esa.int/>

Integrating satellite altimetry and deep learning for enhanced sea level forecasting

Rajabi-Kiasari, Saeed; Delpeche-Ellmann, Nicole Camille; Ellmann, Artu EGU General Assembly 2025 2025 / art. EGU25-9951
<https://meetingorganizer.copernicus.org/EGU25/EGU25-9951.html> <https://doi.org/10.5194/egusphere-egu25-9951>

An internal variable model of macroscopic twin boundary dynamics

Berezovski, Arkadi Mathematics and mechanics of solids 2024 / p. 2297 - 2315 <https://doi.org/10.1177/10812865241258723> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Inverse Problems for Simultaneous Determination of Source Terms and Several Scalar Parameters of Fractional Diffusion Equations

Janno, Jaan Inverse Problems : Modelling and Simulation : Extended Abstracts of the IPMS Conference 2024 2025 / p. 167-173
https://doi.org/10.1007/978-3-031-87213-6_21

Learning astronomy and mathematics from Apollo missions imagery

Pustönski, Vladislav-Veniamin; Pugal, Siim Erik Physics Education 2025 / art. 035036 <https://doi.org/10.1088/1361-6552/adc867>

Life-long creatine deficiency leads to adaptations in calcium handling but not heart failure

Branovets, Jelena; Laasmaa, Martin; Stolo, Jekaterina; Shen, Xin; Ratsepso, Triinu; Balodis, Mihkel Jaan; Grahv, Carolin; Hendrikson, Eliise; Louch, William Edward; Birkedal, Rikke Biophysical Journal 2024 / p. 458A-459A
<https://doi.org/10.1016/j.bpj.2023.11.2785>

Localized CaMKII movement towards the Z-line mediates RyR phosphorylation in cardiomyocytes

Bergan-Dahl, Anna; Carlson, Cathrine R.; Laasmaa, Martin; Norden, Einar; Sjaastad, Ivar; Louch, William; Shen, Xin Journal of molecular and cellular cardiology 2022 / art. S142 <https://doi.org/10.1016/j.yjmcc.2022.08.280>

Localized CaMKIIδ movement at the RyR nanodomain mediates RyR phosphorylation

Bergan-Dahl, A.; Carlson, C. R.; Laasmaa, Martin; Norden, E. S.; Sjaastad, I.; Louch, W. E.; Shen, X. Acta physiologica 2022 / p. 107-108 <https://onlinelibrary.wiley.com/doi/epdf/10.1111/apha.13875>

Optimization of VTD Sb2Se3 absorber growth rate in CdS/Sb2Se3 thin film solar cells : A defect perspective on chloride vs non-chloride based devices

Gopi, Sajeesh Vadakkedath; Krautmann, Robert; Katerski, Atanas; Josepson, Raavo; Untila, Dumitru; Hiie, Jaan; Krunks, Malle; Oja Acik, Ilona; Spalatu, Nicolae Solar energy materials and solar cells 2025 / art. 113856
<https://doi.org/10.1016/j.solmat.2025.113856>

PCGOD: Enhancing object detection with synthetic data for scarce and sensitive computer vision tasks

Remmas, Walid; Lints, Martin; Uudmae, Jaak Joonas IEEE Access 2025 / p. 91325-91333
<https://doi.org/10.1109/ACCESS.2025.3572719>

Professor selgitab : miks me rattaga kukume ja kuidas püsti jääda?

Postimees 2025 <https://teadus.postimees.ee/8301189/professor-selgitab-miks-me-rattaga-kukume-ja-kuidas-pusti-jaada>

Prolonged β-adrenergic stimulation disperses ryanodine receptor clusters in cardiomyocytes: Implications for heart failure

Shen, Xin; van den Brink, Jonas; Bergan-Dahl, Anna; Kolstad, Terje; Norden, Einar; Hou, Yufeng; Laasmaa, Martin; Quick, Ann; Espe, Emil; Sjaastad, Ivar Journal of molecular and cellular cardiology 2022 / p. S151 <https://doi.org/10.1016/j.yjmcc.2022.08.297>

Quantifying exposedness of the eastern Baltic Sea shores with respect to extremely high and low water levels

Viigand, Katri; Eelsalu, Maris; Soomere, Tarmo Estuarine, coastal and shelf science 2025 / art. 109267
<https://doi.org/10.1016/j.ecss.2025.109267>

Role of zealots in the spread of linguistic traits

Dornelas, Vivian; Anteneodo, C.; Nunes, Renan; Heinsalu, Els; Patriarca, Marco Physical review E 2025 / art. 044303
<https://doi.org/10.1103/PhysRevE.111.044303>

Sea level forecasting using deep recurrent neural networks with high-resolution hydrodynamic model

Rajabi-Kiasari, Saeed; Ellmann, Artu; Delpeche-Ellmann, Nicole Camille Applied ocean research 2025 / art. 104496
<https://doi.org/10.1016/j.apor.2025.104496>

Solid-state NMR backbone chemical shift assignments of α-synuclein amyloid fibrils at fast MAS regime

Toleikis, Zigmantas; Paluch, Piotr; Kuc, Ewelina; Petkus, Jana; Sulskis, Darius; Org-Tago, Mai-Liis; Samoson, Ago; Smirnovas, Vytautas; Stanek, Jan; Lends, Alons Biomolecular NMR assignments 2024 / p. 181-186 <https://doi.org/10.1007/s12104-024-10186-2> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Statistical Analysis of Fluorescence Intensity Transients with Bayesian Methods

Karimi, Hamed; **Laasmaa, Martin**; Pihlak, Margus; **Vendelin, Marko** Science Advances 2025

Strain gradient elasticity and dual internal variables

Berezovski, Arkadi Sixty shades of generalized continua : Dedicated to the 60th birthday of Prof. Victor A. Eremeyev 2023 / p. 53 - 62 https://doi.org/10.1007/978-3-031-26186-2_5

SWOT-derived geometric marine geoid surface complements gravimetric geoid modelling approaches

Kupavõh, Aleksei; Ellmann, Artu; Delpeche-Ellmann, Nicole Camille; Varbla, Sander EGU General Assembly 2025 2025 / art. EGU25-10957 <https://doi.org/10.5194/egusphere-egu25-10957>

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>