Tanel Peets

List of Publications by Year in descending order

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Version: 2024-02-01

32 papers	380 citations	840585 11 h-index	794469 19 g-index
37 all docs	37 docs citations	37 times ranked	175 citing authors

#	Article	IF	Citations
1	Physics shapes signals in nerves. European Physical Journal Plus, 2022, 137, .	1.2	0
2	In Silico Experiments. , 2021, , 137-157.		0
3	Dynamical Effects in Nerves. , 2021, , 55-61.		0
4	An Ensemble of Waves. , 2021, , 111-135.		0
5	On the Physical Background of Nerve Pulse Propagation: Heat and Energy. Journal of Non-Equilibrium Thermodynamics, 2021, 46, 343-353.	2.4	5
6	Modelling of processes in nerve fibres at the interface of physiology and mathematics. Biomechanics and Modeling in Mechanobiology, 2020, 19, 2491-2498.	1.4	8
7	Internal variables used for describing the signal propagation in axons. Continuum Mechanics and Thermodynamics, 2020, 32, 1619-1627.	1.4	7
8	Temperature changes accompanying signal propagation in axons. Journal of Non-Equilibrium Thermodynamics, 2019, 44, 277-284.	2.4	14
9	Criteria for modelling wave phenomena in complex systems:the case of signals in nerves. Proceedings of the Estonian Academy of Sciences, 2019, 68, 276.	0.9	3
10	On solutions of a Boussinesq-type equation with displacement-dependent nonlinearity: A soliton doublet. Wave Motion, 2019, 85, 10-17.	1.0	5
11	Mathematics of Nerve Signals. Mathematics of Planet Earth, 2019, , 207-238.	0.1	2
12	On Nonlinear Waves in Media with Complex Properties. Advanced Structured Materials, 2018, , 275-286.	0.3	2
13	Solitons modelled by Boussinesq-type equations. Mechanics Research Communications, 2018, 93, 62-65.	1.0	3
14	Modeling of complex signals in nerve fibers. Medical Hypotheses, 2018, 120, 90-95.	0.8	16
15	On the complexity of signal propagation in nerve fibres. Proceedings of the Estonian Academy of Sciences, 2018, 67, 28.	0.9	31
16	Soliton trains in dispersive media. Low Temperature Physics, 2018, 44, 696-700.	0.2	4
17	Electromechanical coupling of waves in nerve fibres. Biomechanics and Modeling in Mechanobiology, 2018, 17, 1771-1783.	1.4	27
18	Negative group velocity in solids. Wave Motion, 2017, 71, 127-138.	1.0	11

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19	On the role of nonlinearities in the Boussinesq-type wave equations. Wave Motion, 2017, 71, 113-119.	1.0	21
20	On solutions of a Boussinesq-type equation with displacement-dependent nonlinearities: the case of biomembranes. Philosophical Magazine, 2017, 97, 967-987.	0.7	22
21	Internal scales and dispersive properties of microstructured materials. Mathematics and Computers in Simulation, 2016, 127, 220-228.	2.4	3
22	On mechanical aspects of nerve pulse propagation and the Boussinesq paradigm. Proceedings of the Estonian Academy of Sciences, 2015, 64, 331.	0.9	14
23	On solitary waves in case of amplitude-dependent nonlinearity. Chaos, Solitons and Fractals, 2015, 73, 108-114.	2.5	7
24	On mathematical modelling of solitary pulses in cylindrical biomembranes. Biomechanics and Modeling in Mechanobiology, 2015, 14, 159-167.	1.4	39
25	On the influence of internal degrees of freedom on dispersion in microstructured solids. Mechanics Research Communications, 2013, 47, 106-111.	1.0	3
26	Dispersive waves in microstructured solids. International Journal of Solids and Structures, 2013, 50, 1981-1990.	1.3	58
27	Deformation waves in microstructured solids and dimensionless parameters. Proceedings of the Estonian Academy of Sciences, 2013, 62, 109.	0.9	3
28	Waves in microstructured solids and negative group velocity. Europhysics Letters, 2013, 103, 16001.	0.7	12
29	Multiscale modeling of microstructured solids. Mechanics Research Communications, 2010, 37, 531-534.	1.0	31
30	Dispersion Analysis of Wave Motion in Microstructured Solids. IUTAM Symposium on Cellular, Molecular and Tissue Mechanics, 2010, , 349-354.	0.1	5
31	On modelling dispersion in microstructured solids. Wave Motion, 2008, 45, 471-480.	1.0	22
32	Mechanical waves in myelinated axons. Biomechanics and Modeling in Mechanobiology, 0, , .	1.4	2