

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	Dispersive waves in microstructured solids. <i>International Journal of Solids and Structures</i> , 2013, 50, 1981-1990.	1.3	58
2	On mathematical modelling of solitary pulses in cylindrical biomembranes. <i>Biomechanics and Modeling in Mechanobiology</i> , 2015, 14, 159-167.	1.4	39
3	Multiscale modeling of microstructured solids. <i>Mechanics Research Communications</i> , 2010, 37, 531-534.	1.0	31
4	On the complexity of signal propagation in nerve fibres. <i>Proceedings of the Estonian Academy of Sciences</i> , 2018, 67, 28.	0.9	31
5	Electromechanical coupling of waves in nerve fibres. <i>Biomechanics and Modeling in Mechanobiology</i> , 2018, 17, 1771-1783.	1.4	27
6	On modelling dispersion in microstructured solids. <i>Wave Motion</i> , 2008, 45, 471-480.	1.0	22
7	On solutions of a Boussinesq-type equation with displacement-dependent nonlinearities: the case of biomembranes. <i>Philosophical Magazine</i> , 2017, 97, 967-987.	0.7	22
8	On the role of nonlinearities in the Boussinesq-type wave equations. <i>Wave Motion</i> , 2017, 71, 113-119.	1.0	21
9	Modeling of complex signals in nerve fibers. <i>Medical Hypotheses</i> , 2018, 120, 90-95.	0.8	16
10	On mechanical aspects of nerve pulse propagation and the Boussinesq paradigm. <i>Proceedings of the Estonian Academy of Sciences</i> , 2015, 64, 331.	0.9	14
11	Temperature changes accompanying signal propagation in axons. <i>Journal of Non-Equilibrium Thermodynamics</i> , 2019, 44, 277-284.	2.4	14
12	Waves in microstructured solids and negative group velocity. <i>Europhysics Letters</i> , 2013, 103, 16001.	0.7	12
13	Negative group velocity in solids. <i>Wave Motion</i> , 2017, 71, 127-138.	1.0	11
14	Modelling of processes in nerve fibres at the interface of physiology and mathematics. <i>Biomechanics and Modeling in Mechanobiology</i> , 2020, 19, 2491-2498.	1.4	8
15	On solitary waves in case of amplitude-dependent nonlinearity. <i>Chaos, Solitons and Fractals</i> , 2015, 73, 108-114.	2.5	7
16	Internal variables used for describing the signal propagation in axons. <i>Continuum Mechanics and Thermodynamics</i> , 2020, 32, 1619-1627.	1.4	7
17	On solutions of a Boussinesq-type equation with displacement-dependent nonlinearity: A soliton doublet. <i>Wave Motion</i> , 2019, 85, 10-17.	1.0	5
18	On the Physical Background of Nerve Pulse Propagation: Heat and Energy. <i>Journal of Non-Equilibrium Thermodynamics</i> , 2021, 46, 343-353.	2.4	5

#	ARTICLE	IF	CITATIONS
19	Dispersion Analysis of Wave Motion in Microstructured Solids. IUTAM Symposium on Cellular, Molecular and Tissue Mechanics, 2010, , 349-354.	0.1	5
20	Soliton trains in dispersive media. Low Temperature Physics, 2018, 44, 696-700.	0.2	4
21	On the influence of internal degrees of freedom on dispersion in microstructured solids. Mechanics Research Communications, 2013, 47, 106-111.	1.0	3
22	Deformation waves in microstructured solids and dimensionless parameters. Proceedings of the Estonian Academy of Sciences, 2013, 62, 109.	0.9	3
23	Internal scales and dispersive properties of microstructured materials. Mathematics and Computers in Simulation, 2016, 127, 220-228.	2.4	3
24	Solitons modelled by Boussinesq-type equations. Mechanics Research Communications, 2018, 93, 62-65.	1.0	3
25	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
26	On Nonlinear Waves in Media with Complex Properties. Advanced Structured Materials, 2018, , 275-286.	0.3	2
27	Mathematics of Nerve Signals. Mathematics of Planet Earth, 2019, , 207-238.	0.1	2
28	Mechanical waves in myelinated axons. Biomechanics and Modeling in Mechanobiology, 0, , .	1.4	2
29	In Silico Experiments. , 2021, , 137-157.		0
30	Dynamical Effects in Nerves. , 2021, , 55-61.		0
31	An Ensemble of Waves. , 2021, , 111-135.		0
32	Physics shapes signals in nerves. European Physical Journal Plus, 2022, 137, .	1.2	0