Andrus Salupere

List of Publications by Year
in descending order

41 papers	558 citations	623188 14 h-index	676716 22 g-index
43 all docs	43 docs citations	43 times ranked	207 citing authors

#	Article	IF	Citations
1	Dispersive waves in microstructured solids. International Journal of Solids and Structures, 2013, 50, 1981-1990.	1.3	58
2	Waves in microstructured solids and the Boussinesq paradigm. Wave Motion, 2011, 48, 717-726.	1.0	47
3	On the KdV soliton formation and discrete spectral analysis. Wave Motion, 1996, 23, 49-66.	1.0	37
4	Solitonic structures in KdV-based higher-order systems. Wave Motion, 2001, 34, 51-61.	1.0	33
5	Nonlinear deformation waves in solids and dispersion. Wave Motion, 2007, 44, 493-500.	1.0	32
6	Long-time behaviour of soliton ensembles. Part Iâ€“â€“Emergence of ensembles. Chaos, Solitons and Fractals, 2002, 14, 1413-1424.	2.5	29
7	On the long-time behaviour of soliton ensembles. Mathematics and Computers in Simulation, 2003, 62, 137-147.	2.4	24
8	Long-time behaviour of soliton ensembles. Part IIâ€“â€“Periodical patterns of trajectories. Chaos, Solitons and Fractals, 2003, 15, 29-40.	2.5	23
9	Propagation of sech2-type solitary waves in hierarchical KdV-type systems. Mathematics and Computers in Simulation, 2009, 79, 3314-3327.	2.4	20
10	The Pseudospectral Method and Discrete Spectral Analysis. , 2009, , 301-333.		20
11	Korteweg-de Vries soliton detection from a harmonic input. Physics Letters, Section A: General, Atomic and Solid State Physics, 1994, 192, 5-8.	0.9	19
12	On the problem of periodicity and hidden solitons for the KdV model. Chaos, 2005, 15, 015114.	1.0	19
13	Solitary waves for Non-Destructive Testing applications: Delayed nonlinear time reversal signal processing optimization. Wave Motion, 2017, 71, 101-112.	1.0	19
14	SOLVING NONLINEAR PDES USING THE HIGHER ORDER HAAR WAVELET METHOD ON NONUNIFORM AND ADAPTIVE GRIDS. Mathematical Modelling and Analysis, 2021, 26, 147-169.	0.7	19
15	Numerical simulation of interaction of solitary deformation waves in microstructured solids. International Journal of Non-Linear Mechanics, 2008, 43, 201-208.	1.4	17
16	APPLICATION OF HIGHER ORDER HAAR WAVELET METHOD FOR SOLVING NONLINEAR EVOLUTION EQUATIONS. Mathematical Modelling and Analysis, 2020, 25, 271-288.	0.7	17
17	On solitons in microstructured solids and granular materials. Mathematics and Computers in Simulation, 2005, 69, 502-513.	2.4	14
18	On modelling wave motion in microstructured solids. Proceedings of the Estonian Academy of Sciences, 2009, 58, 241.	0.9	14

#	Article	IF	Citations
19	On the propagation of solitary pulses in microstructured materials. Chaos, Solitons and Fractals, 2006, 29, 202-214.	2.5	11
20	Solving Nonlinear Boundary Value Problems Using the Higher Order Haar Wavelet Method. Mathematics, 2021, 9, 2809.	1.1	11
21	Propagation of sech2-type solitary waves in higher-order KdV-type systems. Chaos, Solitons and Fractals, 2005, 26, 453-465.	2.5	9
22	Simulation of solitary wave propagation in carbon fibre reinforced polymer. Proceedings of the Estonian Academy of Sciences, 2015, 64, 297.	0.9	9
23	On the propagation of 1D solitary waves in Mindlin-type microstructured solids. Mathematics and Computers in Simulation, 2012, 82, 1308-1320.	2.4	8
24	Numerical simulation of propagation of solitary deformation waves in a compressible hyperelastic rod. Mathematics and Computers in Simulation, 2012, 82, 1348-1362.	2.4	6
25	On the influence of material properties on the wave propagation in Mindlin-type microstructured solids. Wave Motion, 2013, 50, 1127-1139.	1.0	6
26	On solitons in media modelled by the hierarchical KdV equation. Archive of Applied Mechanics, 2014, 84, 1583-1593.	1.2	5
27	On the propagation of solitary waves in Mindlin-type microstructured solids. Proceedings of the Estonian Academy of Sciences, 2010, 59, 118.	0.9	4
28	Simulation of Detecting Contact Nonlinearity in Carbon Fibre Polymer Using Ultrasonic Nonlinear Delayed Time Reversal. Acta Acustica United With Acustica, 2017, 103, 978-986.	0.8	4
29	Deformation waves in microstructured solids and dimensionless parameters. Proceedings of the Estonian Academy of Sciences, 2013, 62, 109.	0.9	3
30	On the application of 2D discrete spectral analysis in case of the KP equation. Mechanics Research Communications, 2018, 93, 141-147.	1.0	3
31	Numerical Simulation of Interaction of Solitons and Solitary Waves in Granular Materials. Lecture Notes in Applied and Computational Mechanics, 2010, , 21-28.	2.0	3
32	On hidden solitons in KdV related systems. Mathematics and Computers in Simulation, 2016, 127, 252-262.	2.4	2
33	On Nonlinear Waves in Media with Complex Properties. Advanced Structured Materials, 2018, , 275-286.	0.3	2
34	Optimal design of rigid-plastic annular plates with piecewise constant thickness. Structural Optimization, 1992, 4, 186-192.	0.7	1
35	Soliton ensembles and solitonic structures. Applicable Analysis, 2012, 91, 237-250.	0.6	1
36	Scaling and hierarchies of wave motion in solids. ZAMM Zeitschrift Fur Angewandte Mathematik Und Mechanik, 2014, 94, 775-783.	0.9	1

#	Article	IF	Citations
37	Focusing aspects of delayed Time Reversal based Nonlinear Elastic Wave Spectroscopy methods. , 2016, , .		1
38	On solitonic solutions for the hyperelastic rod equation. Wave Motion, 2019, 91, 102404.	1.0	1
39	On Numerical Simulation of Propagation of Solitons in Microstructured Media. , 2008, , .		0
40	Acousto-Mechanical Instrumentation of Multiscale Hysteretic Memristive Properties of the Skin with Nonlinear Time Reversal Imaging. , 2017, , .		0
41	Emergence of Solitonic Structures in Hierarchical Kortewegâ€“de Vries Systems. Mathematics of Planet Earth, 2019, , 89-124.	0.1	0