Victor V Krylov

List of Publications by Year
in descending order

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69	2,450	304743 22	197818 49
papers	citations	h-index	g-index

73	73	73	832
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Overview of localised flexural waves in wedges of power-law profile and comments on their relationship with the acoustic black hole effect. Journal of Sound and Vibration, 2020, 468, 115100.	3.9	21
2	Stochastically rough surfaces as seismic barriers against railway-induced ground vibrations. , 2019, , 337-358.		0
3	On the theory of smooth topographic waveguides for Rayleigh waves. , 2019, , .		0
4	Reduced-scale ultrasonic modelling of Rayleigh wave transmission over seismic barriers formed by periodic arrays of vertical holes. Noise Control Engineering Journal, 2018, 66, 33-44.	0.3	2
5	On the role of nonlinear distortion in the theory of wave-like aquatic propulsion. Ocean Engineering, 2017, 145, 15-23.	4.3	1
6	Acoustic Black Holes for Flexural Waves: A Smart Approach to Vibration Damping. Procedia Engineering, 2017, 199, 56-61.	1.2	10
7	Focusing of ground vibrations generated by high-speed trains travelling at trans-Rayleigh speeds. Soil Dynamics and Earthquake Engineering, 2017, 100, 389-395.	3.8	6
8	Slots of Power-Law Profile as Acoustic Black Holes for Flexural Waves in Metallic and Composite Plates. Structures, 2016, 6, 48-58.	3.6	26
9	Directivity patterns of laser-generated sound in solids: Effects of optical and thermal parameters. Ultrasonics, 2016, 69, 279-284.	3.9	11
10	Vibration of a rectangular plate with a central power-law profiled groove by the Rayleighâ€“Ritz method. Applied Acoustics, 2016, 104, 24-32.	3.3	48
11	Quasi-flat acoustic absorber enhanced by metamaterials. Proceedings of Meetings on Acoustics, 2015, , .	0.3	0
12	Optimisation of the structural modes of automotive-type panels using line stiffeners and point masses to achieve weak acoustic radiation. Applied Acoustics, 2015, 93, 23-37.	3.3	8
13	Experimental study of sound radiation by plates containing circular indentations of power-law profile. Applied Acoustics, 2015, 88, 30-37.	3.3	61
14	Experimental investigation of damping flexural vibrations in glass fibre composite plates containing one- and two-dimensional acoustic black holes. Composite Structures, 2014, 107, 406-415.	5.8	75
15	Damping of flexural vibrations in turbofan blades using the acoustic black hole effect. Applied Acoustics, 2014, 76, 359-365.	3.3	56
16	Acoustic black holes: recent developments in the theory and applications. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2014, 61, 1296-1306.	3.0	75
17	Comments on â€˜â€˜Effect of the surface free energy on the behaviour of surface and guided wavesâ€™ by V. Vlasie Belloncle, M. Rousseau, Ultrasonics, 45 (2006) 188â€“195. Ultrasonics, 2014, 54, 2-3.	3.9	1
18	Recent developments in the theory and applications of ‘acoustic black holes’. , 2013, , .		3

#	Article	IF	Citations
19	Commentary on Discussion of â€˜On the theory of standing waves in tyres at high vehicle speedsâ€™ by V.V. Krylov and O. Gilbert, Journal of Sound and Vibration 329 (2010) 4398â€“4408. Journal of Sound and Vibration, 2013, 332, 7290-7292.	3.9	2
20	Structuralâ€“acoustic behaviour of automotive-type panels with dome-shaped indentations. Applied Acoustics, 2013, 74, 897-908.	3.3	8
21	Experimental investigation of damping flexural vibrations in plates containing tapered indentations of power-law profile. Applied Acoustics, 2013, 74, 553-560.	3.3	65
22	Damping of flexural vibrations in glass fibre composite plates and honeycomb sandwich panels containing indentations of power-law profile. Proceedings of Meetings on Acoustics, 2013, , .	0.3	2
23	Sound radiation of rectangular plates containing tapered indentations of power-law profile. Proceedings of Meetings on Acoustics, 2013, , .	0.3	7
24	Damping of flexural vibrations in plates containing ensembles of tapered indentations of power-law profile. Proceedings of Meetings on Acoustics, 2013, , .	0.3	4
25	Effect of geometrical and material imperfections on damping flexural vibrations in plates with attached wedges of power law profile. Applied Acoustics, 2012, 73, 514-523.	3.3	56
26	Guided acoustic waves propagating at surfaces, interfaces and edges. , 2011, , .		6
27	Comments on Chapter 12 of â€˜â€˜Railway Noise and Vibration: Mechanisms, Modelling and Means of Controlâ€, by D. Thompson (with contributions from C. Jones and P.-E. Gautier), Elsevier, 2009. Applied Acoustics, 2011, 72, 785-786.	3.3	0
28	Remarks on reply to comments on Chapter 12 of â€˜â€˜Railway Noise and Vibration: Mechanisms, Modelling and Means of Controlâ€™â€™, by D. Thompson (with contributions from C. Jones and P.-E. Gautier), Elsevier, 2009. Applied Acoustics, 2011, 72, 789.	3.3	0
29	Generation of flexural waves in plates by laser-initiated airborne shock waves. Journal of Sound and Vibration, 2011, 330, 217-228.	3.9	17
30	Damping of flexural vibrations in circular plates with tapered central holes. Journal of Sound and Vibration, 2011, 330, 2220-2236.	3.9	88
31	Damping of structural vibrations in beams and elliptical plates using the acoustic black hole effect. Journal of Sound and Vibration, 2011, 330, 2497-2508.	3.9	160
32	Point mobility of a cylindrical plate incorporating a tapered hole of power-law profile. Journal of the Acoustical Society of America, 2011, 129, 3475-3482.	1.1	33
33	Generation of Rayleigh-type Waves on Plate Edges by Laser-initiated Airborne Shock Waves. Acta Acustica United With Acustica, 2010, 96, 843-850.	0.8	0
34	Wave-like aquatic propulsion of mono-hull marine vessels. Ocean Engineering, 2010, 37, 378-386.	4.3	7
35	Calculation of ground vibration spectra from heavy military vehicles. Journal of Sound and Vibration, 2010, 329, 3020-3029.	3.9	18
36	On the theory of standing waves in tyres at high vehicle speeds. Journal of Sound and Vibration, 2010, 329, 4398-4408.	3.9	19

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37	Damping of flexural vibrations in rectangular plates using the acoustic black hole effect. Journal of Sound and Vibration, 2010, 329, 4672-4688.	3.9	101
38	Comments on â€˜â€˜Basic properties of Rayleigh surface wave propagation along curved surfacesâ€, by F. Jin, Z. Wang, K. Kishimoto, International Journal of Engineering Science 43 (2005) 250â€“261. International Journal of Engineering Science, 2010, 48, 2108-2109.	5.0	0
39	Air-related mechanisms of noise generation by solid rubber tyres with cavities. Applied Acoustics, 2010, 71, 854-860.	3.3	12
40	Finite Element Study of the Effect of Structural Modifications on Structure-borne Vehicle Interior Noise. JVC/Journal of Vibration and Control, 2009, 15, 483-496.	2.6	7
41	Control of Traffic-Induced Ground Vibrations by Placing Heavy Masses on the Ground Surface. Journal of Low Frequency Noise Vibration and Active Control, 2007, 26, 311-321.	2.9	13
42	Experimental investigation of the acoustic black hole effect for flexural waves in tapered plates. Journal of Sound and Vibration, 2007, 300, 43-49.	3.9	181
43	Experimental investigation of the aquatic propulsion caused by localised flexural wave propagation in immersed wedges and plates. Applied Acoustics, 2007, 68, 97-113.	3.3	22
44	Experimental confirmation of the propulsion of marine vessels employing guided flexural waves in attached elastic fins. Journal of Fluids and Structures, 2007, 23, 297-307.	3.4	18
45	New approach to investigation of resonant vibrations of noncircular shells based on the theory of coupled waveguides. Journal of Mechanics of Materials and Structures, 2007, 2, 1761-1771.	0.6	0
46	Simplified Modelling of Vehicle Interior Noise: Comparison of Analytical, Numerical and Experimental Approaches. Journal of Low Frequency Noise Vibration and Active Control, 2006, 25, 69-92.	2.9	10
47	Acoustic â€˜black holesâ€™ for flexural waves as effective vibration dampers. Journal of Sound and Vibration, 2004, 274, 605-619.	3.9	318
48	9. Generation of ground vibration boom by high-speed trains. , 2001, , 251-283.		12
49	GENERATION OF GROUND ELASTIC WAVES BY ROAD VEHICLES. Journal of Computational Acoustics, 2001, 09, 919-933.	1.0	10
50	The `Bow-Wave' Effect in Soft Subgrade Beneath High Speed Rail Lines. , 2000, , 338.		5
51	GEOMETRICAL-ACOUSTICS CONSIDERATION OF THE FLEXURAL MODES IN IMMERSED ANISOTROPIC WEDGES. Journal of Sound and Vibration, 2000, 237, 427-434.	3.9	7
52	Ground-borne vibration generated by vehicles crossing road humps and speed control cushions. Applied Acoustics, 2000, 59, 221-236.	3.3	70
53	Effect of Tunnel Diameter on Ground Vibrations Generated by Underground. Journal of Low Frequency Noise Vibration and Active Control, 2000, 19, 17-25.	2.9	3
54	Flexural edge waves and Comments on â€œA new bending wave solution for the classical plate equationâ€• [J. Acoust. Soc. Am.104, 2220â€“2222 (1998)]. Journal of the Acoustical Society of America, 2000, 107, 1781-1784.	1.1	53

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55	Localized vibration modes in free anisotropic wedges. Journal of the Acoustical Society of America, 2000, 107, 657-660.	1.1	11
56	An approximate theory for waves in a slender elastic wedge immersed in liquid. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2000, 456, 2179-2196.	2.1	4
57	PROPAGATION OF LOCALIZED VIBRATION MODES ALONG EDGES OF IMMERSED WEDGE-LIKE STRUCTURES: GEOMETRICAL-ACOUSTICS APPROACH. Journal of Computational Acoustics, 1999, 07, 59-70.	1.0	2
58	Resilient Modulus of Soft Soil Beneath High-Speed Rail Lines. Transportation Research Record, 1999, 1687, 39-46.	1.9	4
59	Ground Vibration Boom from High-Speed Trains. Journal of Low Frequency Noise Vibration and Active Control, 1999, 18, 207-218.	2.9	10
60	On the velocities of localized vibration modes in immersed solid wedges. Journal of the Acoustical Society of America, 1998, 103, 767-770.	1.1	43
61	Spectra of Low-Frequency Ground Vibrations Generated by High-Speed Trains on Layered Ground. Journal of Low Frequency Noise Vibration and Active Control, 1997, 16, 257-270.	2.9	19
62	Investigation of environmental low-frequency noise. Applied Acoustics, 1997, 51, 33-51.	3.3	2
63	Vibrational impact of highâ€speed trains. I. Effect of track dynamics. Journal of the Acoustical Society of America, 1996, 100, 3121-3134.	1.1	65
64	Computation of Ground Vibrations Generated by Accelerating and Braking Road Vehicles. JVC/Journal of Vibration and Control, 1996, 2, 299-321.	2.6	7
65	Generation of ground vibrations by superfast trains. Applied Acoustics, 1995, 44, 149-164.	3.3	227
66	Surface Acoustic Waves in Inhomogeneous Media. Springer Series on Wave Phenomena, 1995, , .	0.7	151
67	Calculation of low-frequency ground vibrations from railway trains. Applied Acoustics, 1994, 42, 199-213.	3.3	76
68	Harmonic generation and parametric mixing in wedge acoustic waves. Wave Motion, 1992, 15, 185-200.	2.0	51
69	Effect of surface phenomena in solids on surface acoustic waves. Progress in Surface Science, 1989, 32, 39-110.	8.3	19