V V Kobelev

List of Publications by Year
in descending order

92	749	1163117	552781
papers	citations	8 h-index	26 g-index

117	117	117	498
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Closed-form solution for optimization of buckling column. Mechanics Based Design of Structures and Machines, 2023, 51, 5596-5635.	4.7	2
2	Rule and optimization-based selection of car body parts for the application of tailor rolled blank technology. Structural and Multidisciplinary Optimization, 2022, 65, 1.	3.5	6
3	Stability optimization for a simultaneously twisted and compressed rod. Multidiscipline Modeling in Materials and Structures, 2022, 18, 24-42.	1.3	1
4	Stress Distributions Over Cross-Section of Wires. , 2021, , 35-63.		0
5	Creep and Relaxation of Springs. , 2021, , 227-273.		0
6	â€œEquivalent Columnsâ€•for Helical Springs. , 2021, , 65-97.		0
7	Failure Analysis Based on Weakest Link Concept. , 2021, , 359-372.		0
8	Statistical Effects on Fatigue of Spring Materials. , 2021, , 373-417.		0
9	Fatigue of Spring Materials. , 2021, , 275-304.		0
10	Coiling of Helical Springs. , 2021, , 161-179.		0
11	Presetting and Residual Stresses in Springs. , 2021, , 181-225.		0
12	Thin-Walled Rods with Semi-opened Profiles. , 2021, , 131-159.		0
13	Principles of Spring Design. , 2021, , 1-34.		0
14	Scaleâ€deviating operators of Riesz type and the spaces of variable dimensions. Computational and Mathematical Methods, 2021, 3, e1174.	0.8	0
15	Factors Affecting the Fatigue Life of Springs. , 2021, , 305-357.		0
16	Durability of Springs. , 2021, , .		5
17	Delayed presetting of helical springs. Mechanics Based Design of Structures and Machines, 2020, 48, 122-132.	4.7	4
18	Comment on â€œMinimization of maximum failure criterion of laminated composite shell structure by optimizing distributed-material orientationâ€•by Shimoda M., Muramatsu Y., Tsukihara R.. Structural and Multidisciplinary Optimization, 2020, 62, 1019-1024.	3.5	0

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19	Nonâ€Łeibniz Hamiltonian and Lagrangian formalisms for certain class of dissipative systems. Computational and Mathematical Methods, 2019, 1, e1035.	0.8	3
20	Approximate static aeroelastic analysis of composite wings. Multidiscipline Modeling in Materials and Structures, 2019, 15, 365-386.	1.3	1
21	Elasticâ€“plastic deformation and residual stresses in helical springs. Multidiscipline Modeling in Materials and Structures, 2019, 16, 448-475.	1.3	3
22	Mechanics with nonâ€Łeibniz derivatives. Proceedings in Applied Mathematics and Mechanics, 2018, 18, e201800002.	0.2	1
23	Durability of Springs. , 2018, , .		10
24	Creep and Relaxation of Springs. , 2018, , 129-158.		0
25	Disk Springs. , 2018, , 93-127.		0
26	Stress Distributions Over Cross-Section of Wires. , 2018, , 27-43.		0
27	Thin-Walled Rods with Semi-Opened Profiles. , 2018, , 229-243.		0
28	Principles of Spring Design. , 2018, , 1-25.		0
29	Coiling Process for Helical Springs. , 2018, , 75-92.		0
30	â€œEquivalent Columnsâ€•for Helical Springs. , 2018, , 45-73.		0
31	Fatigue of Spring Materials. , 2018, , 173-213.		0
32	Generalizations of Creep Laws for Spring Materials. , 2018, , 159-171.		0
33	Some exact analytical solutions in structural optimization. Mechanics Based Design of Structures and Machines, 2017, 45, 43-61.	4.7	7
34	The lightest pressure vessel. Meccanica, 2017, 52, 483-486.	2.0	3
35	Optimization of load-transfer and load-diffusion. Structural and Multidisciplinary Optimization, 2017, 56, 89-99.	3.5	1
36	The anisotropic pressure vessel of minimal mass. Structural and Multidisciplinary Optimization, 2017, 55, 375-380.	3.5	4

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37	Weakest link concept for springs fatigue. Mechanics Based Design of Structures and Machines, 2017, 45, 523-543.	4.7	10
38	Unification proposals for fatigue crack propagation laws. Multidiscipline Modeling in Materials and Structures, 2017, 13, 262-283.	1.3	3
39	A proposal for unification of fatigue crack growth law. Journal of Physics: Conference Series, 2017, 843, 012022.	0.4	3
40	Lattice of infinite bending-resistant fibers. Multidiscipline Modeling in Materials and Structures, 2016, 12, 397-422.	1.3	0
41	Exact shell solutions for conical springs. Mechanics Based Design of Structures and Machines, 2016, 44, 317-339.	4.7	15
42	Addendum to â€œrelaxation and creep in twist and flexureâ€• Multidiscipline Modeling in Materials and Structures, 2016, 12, 473-477.	1.3	2
43	Isoperimetric inequality in the periodic Greenhill Problem of twisted elastic rod. Structural and Multidisciplinary Optimization, 2016, 54, 133-136.	3.5	1
44	Topological derivatives for fundamental frequencies of elastic bodies. Engineering Optimization, 2016, 48, 53-72.	2.6	2
45	The extreme property of twisted spherical shell. Structural and Multidisciplinary Optimization, 2016, 53, 123-127.	3.5	0
46	Relaxation and creep in twist and flexure. Multidiscipline Modeling in Materials and Structures, 2014, 10, 304-327.	1.3	5
47	Effect of static axial compression on the natural frequencies of helical springs. Multidiscipline Modeling in Materials and Structures, 2014, 10, 379-398.	1.3	10
48	Comment to the Article â€œSeveral Examples of Application of Nash and Pareto Approaches to Multiobjective Structural Optimization with Uncertaintiesâ€•of N. V. Banichuk, F. Ragnedda, M. Serra. Mechanics Based Design of Structures and Machines, 2014, 42, 130-133.	4.7	0
49	Some basic solutions for nonlinear creep. International Journal of Solids and Structures, 2014, 51, 3372-3381.	2.7	26
50	Topological derivatives for fundamental frequencies of elastic bodies. , 2014, , 485-490.		0
51	PARETO and NASH fronts as the limit case of the isoperimetric inequality in multiobjective optimization theory. , 2014, , 165-167.		0
52	Thin-Walled Rods With Semiopened Profiles. Journal of Applied Mechanics, Transactions ASME, 2013, 80, .	2.2	1
53	Thin-walled rods with semi-open profile for semi-solid automotive suspension. International Journal of Automotive Technology, 2012, 13, 231-245.	1.4	8
54	Confirmation of Lagrange hypothesis for twisted elastic rod. Structural and Multidisciplinary Optimization, 2012, 46, 155-157.	3.5	2

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55	On the Lagrangian and instability of medium with defects. Meccanica, 2012, 47, 745-753.	2.0	2
56	Elastoplastic Stress Analysis and Residual Stresses in Cylindrical Bar Under Combined Bending and Torsion. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 2011, 133, .	2.2	10
57	â€œBubble-and-grainâ€•method and criteria for optimal positioning inhomogeneities in topological optimization. Structural and Multidisciplinary Optimization, 2010, 40, 117-135.	3.5	11
58	Theory of optimal residual stresses and defects distribution. Structural and Multidisciplinary Optimization, 2010, 41, 351-370.	3.5	2
59	Comments on â€œShape and topology optimization for periodic problems part I: the shape and the topological derivativeâ€• Structural and Multidisciplinary Optimization, 2010, 42, 481-481.	3.5	0
60	Elastic-plastic work-hardening deformation under combined bending and torsion and residual stresses in helical springs. International Journal of Material Forming, 2010, 3, 869-881.	2.0	8
61	Linear nonâ€conservative systems with fractional damping and the derivatives of critical load parameter. GAMM Mitteilungen, 2007, 30, 287-299.	5.5	2
62	Sensitivity analysis of the linear nonconservative systems with fractional damping. Structural and Multidisciplinary Optimization, 2007, 33, 179-188.	3.5	4
63	The variant of post-Newtonian mechanics with generalized fractional derivatives. Chaos, 2006, 16, 043117.	2.5	5
64	Mircopolar Model of Fracture for Composite Material. Meccanica, 2006, 41, 653-660.	2.0	7
65	An Exact Solution of Torsion Problem for an Incomplete Torus with Application to Helical Springs. Meccanica, 2002, 37, 269-282.	2.0	6
66	Design and optimization of elastic nonlinear helical springs. , 1998, , .		0
67	Bubble method for topology and shape optimization of structures. Structural Optimization, 1994, 8, 42-51.	0.6	498
68	Explicit crack problem solutions of hybrid composites. International Journal of Solids and Structures, 1993, 30, 413-426.	2.7	3
69	A structural model of ceramics: Multiple fracture. Meccanica, 1993, 28, 209-215.	2.0	0
70	Isoperimetric inequalities in optimal structural design. Structural Optimization, 1993, 6, 38-51.	0.6	1
71	On a game approach to optimal structural design. Structural Optimization, 1993, 6, 194-199.	0.6	9
72	Isoperimetric Inequalities in Stability Problems. , 1993, , 1155-1164.		1

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73	Microstructural Model of a Fibrous Composite Fracture. Mechanics Based Design of Structures and Machines, 1992, 20, 1-16.	0.6	1
74	Structural analysis and optimization modelling including fracture conditions. International Journal for Numerical Methods in Engineering, 1992, 34, 873-888.	2.8	1
75	A Structural Model of Ceramic Deformation and Fractureâˆ—. Mechanics Based Design of Structures and Machines, 1991, 19, 251-279.	0.6	1
76	Shape Optimization Using Boundary Elements. Lecture Notes in Engineering, 1991, , 165-171.	0.1	0
77	Rational bounding in the problem of the plane stress state of an ideal fiber composite. Journal of Applied Mechanics and Technical Physics, 1990, 31, 306-310.	0.5	0
78	Pull-out of fibers from the matrix on the surface of a crack in a composite. Mechanics of Composite Materials, 1990, 26, 188-197.	1.4	0
79	Fragmentation of a composite material and fragmentation of fibres under a dynamic load. Prikladnaya Matematika I Mekhanika, 1990, 54, 577-581.	0.4	0
80	Isoperimetric Inequalities in the Anisotropic Rod Torsion Problemâˆ—. Mechanics Based Design of Structures and Machines, 1990, 18, 151-158.	0.6	0
81	Numerical method for shape optimization using BEM. Computers and Structures, 1989, 33, 1223-1227.	4.4	2
82	An isoperimetric inequality in the optimization of circular rings under normal pressure. Journal of Optimization Theory and Applications, 1989, 61, 403-408.	1.5	1
83	Integral Equation Methods in the Internal Structure Optimization. Lecture Notes in Engineering, 1989, , 202-209.	0.1	0
84	Isoperimetric inequality in the problem of the stability of a circular ring under normal pressure. Prikladnaya Matematika I Mekhanika, 1988, 52, 683-685.	0.4	0
85	Fracture of fibers by a crack propagating in a composite. Mechanics of Composite Materials, 1988, 24, 180-188.	1.4	0
86	Model of thin-walled anisotropic rods. Mechanics of Composite Materials, 1988, 24, 97-104.	1.4	7
87	On optimal plastic anisotropy. Prikladnaya Matematika I Mekhanika, 1987, 51, 381-385.	0.4	5
88	Rational schemes for reinforcing laminar plates from composite materials. Prikladnaya Matematika I Mekhanika, 1984, 48, 40-49.	0.4	0
89	Analytical solutions to problems of optimum reinforcement for multilayer plates made of composite materials. Mechanics of Composite Materials, 1984, 19, 571-576.	1.4	2
90	Optimization of structures made of randomly reinforced composites. Mechanics of Composite Materials, 1982, 17, 466-473.	1.4	2

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91	Optimizing the effective characteristics of granular composites in component-design problems. Mechanics of Composite Materials, 1981, 17, 175-180.	1.4	2
92	Ferromagnetic Films in Nonuniform Fields. Physica Status Solidi (B): Basic Research, 1966, 17, 381-388.	1.5	10