

# V V Kobelev

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3666306/publications.pdf>

Version: 2024-02-01

92  
papers

749  
citations

1163117

8  
h-index

552781

26  
g-index

117  
all docs

117  
docs citations

117  
times ranked

498  
citing authors

#	ARTICLE	IF	CITATIONS
1	Bubble method for topology and shape optimization of structures. <i>Structural Optimization</i> , 1994, 8, 42-51.	0.6	498
2	Some basic solutions for nonlinear creep. <i>International Journal of Solids and Structures</i> , 2014, 51, 3372-3381.	2.7	26
3	Exact shell solutions for conical springs. <i>Mechanics Based Design of Structures and Machines</i> , 2016, 44, 317-339.	4.7	15
4	“Bubble-and-grain” method and criteria for optimal positioning inhomogeneities in topological optimization. <i>Structural and Multidisciplinary Optimization</i> , 2010, 40, 117-135.	3.5	11
5	Ferromagnetic Films in Nonuniform Fields. <i>Physica Status Solidi (B): Basic Research</i> , 1966, 17, 381-388.	1.5	10
6	Elastoplastic Stress Analysis and Residual Stresses in Cylindrical Bar Under Combined Bending and Torsion. <i>Journal of Manufacturing Science and Engineering, Transactions of the ASME</i> , 2011, 133, .	2.2	10
7	Effect of static axial compression on the natural frequencies of helical springs. <i>Multidiscipline Modeling in Materials and Structures</i> , 2014, 10, 379-398.	1.3	10
8	Weakest link concept for springs fatigue. <i>Mechanics Based Design of Structures and Machines</i> , 2017, 45, 523-543.	4.7	10
9	Durability of Springs. , 2018, , .		10
10	On a game approach to optimal structural design. <i>Structural Optimization</i> , 1993, 6, 194-199.	0.6	9
11	Elastic-plastic work-hardening deformation under combined bending and torsion and residual stresses in helical springs. <i>International Journal of Material Forming</i> , 2010, 3, 869-881.	2.0	8
12	Thin-walled rods with semi-open profile for semi-solid automotive suspension. <i>International Journal of Automotive Technology</i> , 2012, 13, 231-245.	1.4	8
13	Model of thin-walled anisotropic rods. <i>Mechanics of Composite Materials</i> , 1988, 24, 97-104.	1.4	7
14	Mircopolar Model of Fracture for Composite Material. <i>Meccanica</i> , 2006, 41, 653-660.	2.0	7
15	Some exact analytical solutions in structural optimization. <i>Mechanics Based Design of Structures and Machines</i> , 2017, 45, 43-61.	4.7	7
16	An Exact Solution of Torsion Problem for an Incomplete Torus with Application to Helical Springs. <i>Meccanica</i> , 2002, 37, 269-282.	2.0	6
17	Rule and optimization-based selection of car body parts for the application of tailor rolled blank technology. <i>Structural and Multidisciplinary Optimization</i> , 2022, 65, 1.	3.5	6
18	On optimal plastic anisotropy. <i>Prikladnaya Matematika I Mekhanika</i> , 1987, 51, 381-385.	0.4	5

#	ARTICLE	IF	CITATIONS
19	The variant of post-Newtonian mechanics with generalized fractional derivatives. <i>Chaos</i> , 2006, 16, 043117.	2.5	5
20	Relaxation and creep in twist and flexure. <i>Multidiscipline Modeling in Materials and Structures</i> , 2014, 10, 304-327.	1.3	5
21	Durability of Springs. , 2021, , .		5
22	Sensitivity analysis of the linear nonconservative systems with fractional damping. <i>Structural and Multidisciplinary Optimization</i> , 2007, 33, 179-188.	3.5	4
23	The anisotropic pressure vessel of minimal mass. <i>Structural and Multidisciplinary Optimization</i> , 2017, 55, 375-380.	3.5	4
24	Delayed presetting of helical springs. <i>Mechanics Based Design of Structures and Machines</i> , 2020, 48, 122-132.	4.7	4
25	Explicit crack problem solutions of hybrid composites. <i>International Journal of Solids and Structures</i> , 1993, 30, 413-426.	2.7	3
26	The lightest pressure vessel. <i>Meccanica</i> , 2017, 52, 483-486.	2.0	3
27	Unification proposals for fatigue crack propagation laws. <i>Multidiscipline Modeling in Materials and Structures</i> , 2017, 13, 262-283.	1.3	3
28	A proposal for unification of fatigue crack growth law. <i>Journal of Physics: Conference Series</i> , 2017, 843, 012022.	0.4	3
29	Non-Leibniz Hamiltonian and Lagrangian formalisms for certain class of dissipative systems. <i>Computational and Mathematical Methods</i> , 2019, 1, e1035.	0.8	3
30	Elastic-plastic deformation and residual stresses in helical springs. <i>Multidiscipline Modeling in Materials and Structures</i> , 2019, 16, 448-475.	1.3	3
31	Optimizing the effective characteristics of granular composites in component-design problems. <i>Mechanics of Composite Materials</i> , 1981, 17, 175-180.	1.4	2
32	Optimization of structures made of randomly reinforced composites. <i>Mechanics of Composite Materials</i> , 1982, 17, 466-473.	1.4	2
33	Analytical solutions to problems of optimum reinforcement for multilayer plates made of composite materials. <i>Mechanics of Composite Materials</i> , 1984, 19, 571-576.	1.4	2
34	Numerical method for shape optimization using BEM. <i>Computers and Structures</i> , 1989, 33, 1223-1227.	4.4	2
35	Linear nonconservative systems with fractional damping and the derivatives of critical load parameter. <i>GAMM Mitteilungen</i> , 2007, 30, 287-299.	5.5	2
36	Theory of optimal residual stresses and defects distribution. <i>Structural and Multidisciplinary Optimization</i> , 2010, 41, 351-370.	3.5	2

#	ARTICLE	IF	CITATIONS
37	Confirmation of Lagrange hypothesis for twisted elastic rod. Structural and Multidisciplinary Optimization, 2012, 46, 155-157.	3.5	2
38	On the Lagrangian and instability of medium with defects. Meccanica, 2012, 47, 745-753.	2.0	2
39	Addendum to "relaxation and creep in twist and flexure". Multidiscipline Modeling in Materials and Structures, 2016, 12, 473-477.	1.3	2
40	Topological derivatives for fundamental frequencies of elastic bodies. Engineering Optimization, 2016, 48, 53-72.	2.6	2
41	Closed-form solution for optimization of buckling column. Mechanics Based Design of Structures and Machines, 2023, 51, 5596-5635.	4.7	2
42	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
43	A Structural Model of Ceramic Deformation and Fracture—. Mechanics Based Design of Structures and Machines, 1991, 19, 251-279.	0.6	1
44	Microstructural Model of a Fibrous Composite Fracture. Mechanics Based Design of Structures and Machines, 1992, 20, 1-16.	0.6	1
45	Structural analysis and optimization modelling including fracture conditions. International Journal for Numerical Methods in Engineering, 1992, 34, 873-888.	2.8	1
46	Isoperimetric inequalities in optimal structural design. Structural Optimization, 1993, 6, 38-51.	0.6	1
47	Thin-Walled Rods With Semiopened Profiles. Journal of Applied Mechanics, Transactions ASME, 2013, 80, .	2.2	1
48	Isoperimetric inequality in the periodic Greenhill Problem of twisted elastic rod. Structural and Multidisciplinary Optimization, 2016, 54, 133-136.	3.5	1
49	Optimization of load-transfer and load-diffusion. Structural and Multidisciplinary Optimization, 2017, 56, 89-99.	3.5	1
50	Mechanics with non-Leibniz derivatives. Proceedings in Applied Mathematics and Mechanics, 2018, 18, e201800002.	0.2	1
51	Approximate static aeroelastic analysis of composite wings. Multidiscipline Modeling in Materials and Structures, 2019, 15, 365-386.	1.3	1
52	Isoperimetric Inequalities in Stability Problems. , 1993, , 1155-1164.		1
53	Stability optimization for a simultaneously twisted and compressed rod. Multidiscipline Modeling in Materials and Structures, 2022, 18, 24-42.	1.3	1
54	Rational schemes for reinforcing laminar plates from composite materials. Prikladnaya Matematika I Mekhanika, 1984, 48, 40-49.	0.4	0

#	ARTICLE	IF	CITATIONS
55	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
56	Fracture of fibers by a crack propagating in a composite. Mechanics of Composite Materials, 1988, 24, 180-188.	1.4	0
57	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
58	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
59	Fragmentation of a composite material and fragmentation of fibres under a dynamic load. Prikladnaya Matematika I Mekhanika, 1990, 54, 577-581.	0.4	0
60	Isoperimetric Inequalities in the Anisotropic Rod Torsion Problem— . Mechanics Based Design of Structures and Machines, 1990, 18, 151-158.	0.6	0
61	A structural model of ceramics: Multiple fracture. Meccanica, 1993, 28, 209-215.	2.0	0
62	Comments on “Shape and topology optimization for periodic problems part I: the shape and the topological derivative” . Structural and Multidisciplinary Optimization, 2010, 42, 481-481.	3.5	0
63	Comment to the Article “Several Examples of Application of Nash and Pareto Approaches to Multiobjective Structural Optimization with Uncertainties” of N. V. Banichuk, F. Ragnedda, M. Serra. Mechanics Based Design of Structures and Machines, 2014, 42, 130-133.	4.7	0
64	Lattice of infinite bending-resistant fibers. Multidiscipline Modeling in Materials and Structures, 2016, 12, 397-422.	1.3	0
65	The extreme property of twisted spherical shell. Structural and Multidisciplinary Optimization, 2016, 53, 123-127.	3.5	0
66	Comment on “Minimization of maximum failure criterion of laminated composite shell structure by optimizing distributed-material orientation” by Shimoda M., Muramatsu Y., Tsukihara R.. Structural and Multidisciplinary Optimization, 2020, 62, 1019-1024.	3.5	0
67	Stress Distributions Over Cross-Section of Wires. , 2021, , 35-63.		0
68	Creep and Relaxation of Springs. , 2021, , 227-273.		0
69	“Equivalent Columns” for Helical Springs. , 2021, , 65-97.		0
70	Failure Analysis Based on Weakest Link Concept. , 2021, , 359-372.		0
71	Statistical Effects on Fatigue of Spring Materials. , 2021, , 373-417.		0
72	Fatigue of Spring Materials. , 2021, , 275-304.		0

#	ARTICLE	IF	CITATIONS
73	Coiling of Helical Springs. , 2021, , 161-179.		0
74	Presetting and Residual Stresses in Springs. , 2021, , 181-225.		0
75	Thin-Walled Rods with Semi-opened Profiles. , 2021, , 131-159.		0
76	Principles of Spring Design. , 2021, , 1-34.		0
77	Scaleâ€deviating operators of Riesz type and the spaces of variable dimensions. Computational and Mathematical Methods, 2021, 3, e1174.	0.8	0
78	Factors Affecting the Fatigue Life of Springs. , 2021, , 305-357.		0
79	Integral Equation Methods in the Internal Structure Optimization. Lecture Notes in Engineering, 1989, , 202-209.	0.1	0
80	Shape Optimization Using Boundary Elements. Lecture Notes in Engineering, 1991, , 165-171.	0.1	0
81	Design and optimization of elastic nonlinear helical springs. , 1998, , .		0
82	Topological derivatives for fundamental frequencies of elastic bodies. , 2014, , 485-490.		0
83	PARETO and NASH fronts as the limit case of the isoperimetric inequality in multiobjective optimization theory. , 2014, , 165-167.		0
84	Creep and Relaxation of Springs. , 2018, , 129-158.		0
85	Disk Springs. , 2018, , 93-127.		0
86	Stress Distributions Over Cross-Section of Wires. , 2018, , 27-43.		0
87	Thin-Walled Rods with Semi-Opened Profiles. , 2018, , 229-243.		0
88	Principles of Spring Design. , 2018, , 1-25.		0
89	Coiling Process for Helical Springs. , 2018, , 75-92.		0
90	â€œEquivalent Columnsâ€for Helical Springs. , 2018, , 45-73.		0

#	ARTICLE	IF	CITATIONS
91	Fatigue of Spring Materials. , 2018, , 173-213.		0
92	Generalizations of Creep Laws for Spring Materials. , 2018, , 159-171.		0