

Gunter R Leugering

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

141
papers

2,119
citations

25
h-index

40
g-index

145
ext. papers

2,395
ext. citations

2
avg, IF

5.28
L-index

#	Paper	IF	Citations
141	Modeling, Analysis and Control of Dynamic Elastic Multi-Link Structures. <i>Systems and Control: Foundations and Applications</i> , 1994 ,	0.3	169
140	Design of auxetic structures via mathematical optimization. <i>Advanced Materials</i> , 2011 , 23, 2650-4	24	124
139	On the Modelling and Stabilization of Flows in Networks of Open Canals. <i>SIAM Journal on Control and Optimization</i> , 2002 , 41, 164-180	1.9	113
138	Optimal Control for Traffic Flow Networks. <i>Journal of Optimization Theory and Applications</i> , 2005 , 126, 589-616	1.6	86
137	Uniform stabilization of a nonlinear beam by nonlinear boundary feedback. <i>Journal of Differential Equations</i> , 1991 , 91, 355-388	2.1	81
136	Global boundary controllability of the de Saint-Venant equations between steady states. <i>Annales De L'Institut Henri Poincare (C) Analyse Non Lineaire</i> , 2003 , 20, 1-11	1.6	64
135	Classical solutions and feedback stabilization for the gas flow in a sequence of pipes. <i>Networks and Heterogeneous Media</i> , 2010 , 5, 691-709	1.6	59
134	Gas Flow in Fan-Shaped Networks: Classical Solutions and Feedback Stabilization. <i>SIAM Journal on Control and Optimization</i> , 2011 , 49, 2101-2117	1.9	56
133	Modeling and Analysis of Modal Switching in Networked Transport Systems. <i>Applied Mathematics and Optimization</i> , 2009 , 59, 275-292	1.5	48
132	Multidisciplinary Free Material Optimization. <i>SIAM Journal on Applied Mathematics</i> , 2010 , 70, 2709-2728	1.8	42
131	Global controllability between steady supercritical flows in channel networks. <i>Mathematical Methods in the Applied Sciences</i> , 2004 , 27, 781-802	2.3	37
130	Optimal Control Problems for Partial Differential Equations on Reticulated Domains 2011 ,		32
129	Optimal control of cracks in elastic bodies with thin rigid inclusions. <i>ZAMM Zeitschrift Fur Angewandte Mathematik Und Mechanik</i> , 2011 , 91, 125-137	1	32
128	Global boundary controllability of the Saint-Venant system for sloped canals with friction. <i>Annales De L'Institut Henri Poincare (C) Analyse Non Lineaire</i> , 2009 , 26, 257-270	1.6	32
127	Lp-Optimal Boundary Control for the Wave Equation. <i>SIAM Journal on Control and Optimization</i> , 2005 , 44, 49-74	1.9	32
126	Delaminated thin elastic inclusions inside elastic bodies. <i>Mathematics and Mechanics of Complex Systems</i> , 2014 , 2, 1-21	3.2	32
125	A Shape-Topological Control Problem for Nonlinear Crack-Defect Interaction: The Antiplane Variational Model. <i>SIAM Journal on Control and Optimization</i> , 2016 , 54, 1329-1351	1.9	31

124	LENorm minimal control of the wave equation: on the weakness of the bang-bang principle. <i>ESAIM - Control, Optimisation and Calculus of Variations</i> , 2008 , 14, 254-283	1	30
123	Towards optimization of crack resistance of composite materials by adjustment of fiber shapes. <i>Engineering Fracture Mechanics</i> , 2011 , 78, 944-960	4.2	29
122	A Sequential Convex Semidefinite Programming Algorithm with an Application to Multiple-Load Free Material Optimization. <i>SIAM Journal on Optimization</i> , 2009 , 20, 130-155	2	29
121	Simulation of fracture in heterogeneous elastic materials with cohesive zone models. <i>International Journal of Fracture</i> , 2011 , 168, 15-29	2.3	28
120	Mixed integer linear models for the optimization of dynamical transport networks. <i>Mathematical Methods of Operations Research</i> , 2011 , 73, 339-362	1	27
119	Existence and uniqueness results for a nonlinear Caputo fractional boundary value problem on a star graph. <i>Journal of Mathematical Analysis and Applications</i> , 2019 , 477, 1243-1264	1.1	26
118	Stationary states in gas networks. <i>Networks and Heterogeneous Media</i> , 2015 , 10, 295-320	1.6	26
117	MIP-based instantaneous control of mixed-integer PDE-constrained gas transport problems. <i>Computational Optimization and Applications</i> , 2018 , 70, 267-294	1.4	25
116	On Timoshenko thin elastic inclusions inside elastic bodies. <i>Mathematics and Mechanics of Solids</i> , 2015 , 20, 495-511	2.3	24
115	Painting by numbers: nanoparticle-based colorants in the post-empirical age. <i>Advanced Materials</i> , 2011 , 23, 2554-70	24	24
114	Topology optimization of a piezoelectric-mechanical actuator with single- and multiple-frequency excitation. <i>International Journal of Applied Electromagnetics and Mechanics</i> , 2009 , 30, 201-221	0.4	24
113	On an inverse problem for tree-like networks of elastic strings. <i>ZAMM Zeitschrift Fur Angewandte Mathematik Und Mechanik</i> , 2010 , 90, 136-150	1	24
112	Time-domain decomposition of optimal control problems for the wave equation. <i>Systems and Control Letters</i> , 2003 , 48, 229-242	2.4	23
111	Domain Decomposition Methods in Optimal Control of Partial Differential Equations 2004 ,		23
110	FIMOR: An efficient simulation for ZnO quantum dot ripening applied to the optimization of nanoparticle synthesis. <i>Chemical Engineering Journal</i> , 2015 , 260, 706-715	14.7	22
109	On the analysis and control of hyperbolic systems associated with vibrating networks. <i>Proceedings of the Royal Society of Edinburgh Section A: Mathematics</i> , 1994 , 124, 77-104	1	21
108	H 2-stabilization of the Isothermal Euler equations: a Lyapunov function approach. <i>Chinese Annals of Mathematics Series B</i> , 2012 , 33, 479-500	0.4	20
107	Control of crack propagation by shape-topological optimization. <i>Discrete and Continuous Dynamical Systems</i> , 2015 , 35, 2625-2657	2	20

106	Unified Design Strategies for Particulate Products. <i>Advances in Chemical Engineering</i> , 2015 , 1-81	0.6	19
105	Dynamic Domain Decomposition of Optimal Control Problems for Networks of Strings and Timoshenko Beams. <i>SIAM Journal on Control and Optimization</i> , 1999 , 37, 1649-1675	1.9	18
104	Analysis of a system of nonlocal conservation laws for multi-commodity flow on networks. <i>Networks and Heterogeneous Media</i> , 2015 , 10, 749-785	1.6	18
103	Process control strategies for the gas phase synthesis of silicon nanoparticles. <i>Chemical Engineering Science</i> , 2012 , 73, 181-194	4.4	16
102	Optimal L ¹ -Control in Coefficients for Dirichlet Elliptic Problems: W-Optimal Solutions. <i>Journal of Optimization Theory and Applications</i> , 2011 , 150, 205-232	1.6	16
101	Fractional optimal control problems on a star graph: Optimality system and numerical solution. <i>Mathematical Control and Related Fields</i> , 2021 , 11, 189-209	1.5	16
100	Regularity Theory and Adjoint-Based Optimality Conditions for a Nonlinear Transport Equation with Nonlocal Velocity. <i>SIAM Journal on Control and Optimization</i> , 2014 , 52, 2141-2163	1.9	15
99	Optimal Control of Inclusion and Crack Shapes in Elastic Bodies. <i>Journal of Optimization Theory and Applications</i> , 2012 , 155, 54-78	1.6	15
98	Optimal distributed control of the wave equation subject to state constraints. <i>ZAMM Zeitschrift Fur Angewandte Mathematik Und Mechanik</i> , 2009 , 89, 420-444	1	15
97	Free Material Optimization with Fundamental Eigenfrequency Constraints. <i>SIAM Journal on Optimization</i> , 2009 , 20, 524-547	2	15
96	Modelling, Stabilization, and Control of Flow in Networks of Open Channels 2001 , 251-270		15
95	Challenges in Optimal Control Problems for Gas and Fluid Flow in Networks of Pipes and Canals: From Modeling to Industrial Applications. <i>Industrial and Applied Mathematics</i> , 2017 , 77-122	0.3	15
94	A strict H^1 -Lyapunov function and feedback stabilization for the isothermal Euler equations with friction. <i>Numerical Algebra, Control and Optimization</i> , 2011 , 1, 225-244	1.7	14
93	Consistent treatment of viscoelastic effects at junctions in one-dimensional blood flow models. <i>Journal of Computational Physics</i> , 2016 , 314, 167-193	4.1	13
92	Neumann boundary feedback stabilization for a nonlinear wave equation: A strict H^2 -lyapunov function. <i>Mathematical Control and Related Fields</i> , 2017 , 7, 419-448	1.5	13
91	Optimal L^1 -Control in Coefficients for Dirichlet Elliptic Problems: H^s -Optimal Solutions. <i>Zeitschrift Fur Analysis Und Ihre Anwendung</i> , 2012 , 31-53	0.8	12
90	On the effect of self-penalization of piezoelectric composites in topology optimization. <i>Structural and Multidisciplinary Optimization</i> , 2011 , 43, 405-417	3.6	12
89	On the semi-discretization of optimal control problems for networks of elastic strings: global optimality systems and domain decomposition. <i>Journal of Computational and Applied Mathematics</i> , 2000 , 120, 133-157	2.4	12

88	Domain Decomposition of Optimal Control Problems for Dynamic Networks of Elastic Strings. <i>Computational Optimization and Applications</i> , 2000 , 16, 5-27	1.4	12
87	A fast adaptive spectral graph wavelet method for the viscous Burgers equation on a star-shaped connected graph. <i>Mathematical Methods in the Applied Sciences</i> , 2020 , 43, 7595-7614	2.3	12
86	Control and Stabilization of Degenerate Wave Equations. <i>SIAM Journal on Control and Optimization</i> , 2017 , 55, 2052-2087	1.9	11
85	A cohesive crack propagation model: Mathematical theory and numerical solution. <i>Communications on Pure and Applied Analysis</i> , 2012 , 12, 1705-1729	1.9	11
84	On exact controllability of generic trees. <i>ESAIM: Proceedings and Surveys</i> , 2000 , 8, 95-105		11
83	On the inverse problem of the two-velocity tree-like graph. <i>ZAMM Zeitschrift Fur Angewandte Mathematik Und Mechanik</i> , 2015 , 95, 1490-1500	1	10
82	An augmented BV setting for feedback switching control. <i>Journal of Systems Science and Complexity</i> , 2010 , 23, 456-466	1	10
81	On boundary feedback stabilisability of a viscoelastic beam. <i>Proceedings of the Royal Society of Edinburgh Section A: Mathematics</i> , 1990 , 114, 57-69	1	10
80	Matrix-Valued L^1 -Optimal Controls in the Coefficients of Linear Elliptic Problems. <i>Zeitschrift Fur Analysis Und Ihre Anwendung</i> , 2013 , 32, 433-456	0.8	10
79	Towards simulation based mixed-integer optimization with differential equations. <i>Networks</i> , 2018 , 72, 60-83	1.6	9
78	Regularization of L^1 -Optimal Control Problems for Distributed Parameter Systems. <i>Computational Optimization and Applications</i> , 2002 , 22, 151-192	1.4	9
77	Control and stabilization of a flexible robot arm. <i>Dynamical Systems</i> , 1990 , 5, 37-46		9
76	On exact controllability of networks of nonlinear elastic strings in 3-dimensional space. <i>Chinese Annals of Mathematics Series B</i> , 2012 , 33, 33-60	0.4	8
75	Shape sensitivity analysis of a quasi-electrostatic piezoelectric system in multilayered media. <i>Mathematical Methods in the Applied Sciences</i> , 2010 , 33, 2118-2131	2.3	8
74	An approach based on Haar wavelet for the approximation of fractional calculus with application to initial and boundary value problems. <i>Mathematical Methods in the Applied Sciences</i> , 2021 , 44, 3195-3213	2.3	8
73	The Eshelby Theorem and Application to the Optimization of an Elastic Patch. <i>SIAM Journal on Applied Mathematics</i> , 2012 , 72, 512-534	1.8	7
72	Conservation law constrained optimization based upon Front-Tracking. <i>ESAIM: Mathematical Modelling and Numerical Analysis</i> , 2006 , 40, 939-960	1.8	7
71	Existence results and stability analysis for a nonlinear fractional boundary value problem on a circular ring with an attached edge : A study of fractional calculus on metric graph. <i>Networks and Heterogeneous Media</i> , 2021 , 16, 155	1.6	7

70	Shape Optimization in Electromagnetic Applications. <i>International Series of Numerical Mathematics</i> , 2015 , 251-269	0.4	6
69	Material parameter computation for multi-layered vocal fold models. <i>Journal of the Acoustical Society of America</i> , 2011 , 129, 2168-80	2.2	6
68	Interfacial energy estimation in a precipitation reaction using the flatness based control of the moment trajectories. <i>Chemical Engineering Science</i> , 2010 , 65, 2183-2189	4.4	6
67	Registration of PE segment contour deformations in digital high-speed videos. <i>Medical Image Analysis</i> , 2008 , 12, 318-34	15.4	6
66	Boundary control of a vibrating plate with internal damping. <i>Mathematical Methods in the Applied Sciences</i> , 1989 , 11, 573-586	2.3	6
65	Stabilization of Networked Hyperbolic Systems with Boundary Feedback. <i>International Series of Numerical Mathematics</i> , 2014 , 487-504	0.4	6
64	Optimal Boundary Control of Convection-Reaction Transport Systems with Binary Control Functions. <i>Lecture Notes in Computer Science</i> , 2009 , 209-222	0.9	6
63	Optimal control of a fractional Sturm-Liouville problem on a star graph. <i>Optimization</i> , 2021 , 70, 659-687	1.2	6
62	Exact boundary controllability on a tree-like network of nonlinear planar Timoshenko beams. <i>Chinese Annals of Mathematics Series B</i> , 2017 , 38, 711-740	0.4	5
61	Interaction of light with hematite hierarchical structures: Experiments and simulations. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2017 , 189, 369-382	2.1	5
60	Optimal and approximate boundary controls of an elastic body with quasistatic evolution of damage. <i>Mathematical Methods in the Applied Sciences</i> , 2015 , 38, 2739-2760	2.3	5
59	On Shape Optimization for an Evolution Coupled System. <i>Applied Mathematics and Optimization</i> , 2011 , 64, 441-466	1.5	5
58	S-Homogenization of Optimal Control Problems in Banach Spaces. <i>Mathematische Nachrichten</i> , 2002 , 233-234, 141-169	0.8	5
57	Stabilization of the Gas Flow in Star-Shaped Networks by Feedback Controls with Varying Delay. <i>International Federation for Information Processing</i> , 2013 , 255-265		5
56	Analysis of a system of nonlocal balance laws with weighted work in progress. <i>Journal of Hyperbolic Differential Equations</i> , 2018 , 15, 375-406	0.6	5
55	Exact boundary controllability for 1-D quasilinear wave equations with dynamical boundary conditions. <i>Mathematical Methods in the Applied Sciences</i> , 2017 , 40, 3808-3820	2.3	4
54	Homogenization of constrained optimal control problems for one-dimensional elliptic equations on periodic graphs. <i>ESAIM - Control, Optimisation and Calculus of Variations</i> , 2009 , 15, 471-498	1	4
53	On elastic bodies with thin rigid inclusions and cracks. <i>Mathematical Methods in the Applied Sciences</i> , 2010 , 33, n/a-n/a	2.3	4

52	Optimal Control Problems Driven by Time-Fractional Diffusion Equations on Metric Graphs: Optimality System and Finite Difference Approximation. <i>SIAM Journal on Control and Optimization</i> , 2021 , 59, 4216-4242	1.9	4
51	Instantaneous Control of Vibrating String Networks 2001 , 229-249		4
50	Simulation and structural optimization of 3d Timoshenko beam networks based on fully analytic network solutions. <i>ESAIM: Mathematical Modelling and Numerical Analysis</i> , 2018 , 52, 2409-2431	1.8	4
49	Model-Based Optimization of Ripening Processes with Feedback Modules. <i>Chemical Engineering and Technology</i> , 2020 , 43, 896-903	2	3
48	Optimal Control in Matrix-Valued Coefficients for Nonlinear Monotone Problems: Optimality Conditions II. <i>Zeitschrift Fur Analysis Und Ihre Anwendung</i> , 2015 , 34, 199-219	0.8	3
47	The Eshelby Theorem and its Variants for Piezoelectric Media. <i>Archive for Rational Mechanics and Analysis</i> , 2015 , 215, 707-739	2.3	3
46	Optimal Design of Brittle Composite Materials: a Nonsmooth Approach. <i>Journal of Optimization Theory and Applications</i> , 2012 , 155, 962-985	1.6	3
45	Asymptotic analysis of 3D thin anisotropic plates with a piezoelectric patch. <i>Mathematical Methods in the Applied Sciences</i> , 2012 , 35, 633-658	2.3	3
44	Exact boundary controllability of nodal profile for Saint-Venant system on a network with loops. <i>Journal Des Mathematiques Pures Et Appliquees</i> , 2019 , 129, 34-60	1.7	3
43	Optimal Control of a Population Dynamics Model with Missing Birth Rate. <i>SIAM Journal on Control and Optimization</i> , 2020 , 58, 1289-1313	1.9	2
42	Optimal Control in Matrix-Valued Coefficients for Nonlinear Monotone Problems: Optimality Conditions I. <i>Zeitschrift Fur Analysis Und Ihre Anwendung</i> , 2015 , 34, 85-108	0.8	2
41	Timoshenko thin inclusions in an elastic body with possible delamination. <i>Doklady Physics</i> , 2014 , 59, 401-404	1.4	2
40	Regularized nonlinear scalarization for vector optimization problems with PDE-constraints. <i>GAMM Mitteilungen</i> , 2012 , 35, 209-225	1.8	2
39	Topological derivatives for networks of elastic strings. <i>ZAMM Zeitschrift Fur Angewandte Mathematik Und Mechanik</i> , 2011 , 91, 926-943	1	2
38	On the equilibrium of elastic bodies containing thin rigid inclusions. <i>Doklady Physics</i> , 2010 , 55, 18-22	0.8	2
37	Asymptotic Analysis of State Constrained Semilinear Optimal Control Problems. <i>Journal of Optimization Theory and Applications</i> , 2007 , 135, 301-321	1.6	2
36	Repetitive processes modelling of gas transport networks 2007 ,		2
35	An overview of modelling challenges for a nonlinear plate-beam model. <i>Nonlinear Analysis: Theory, Methods & Applications</i> , 2005 , 63, e1529-e1539	1.3	2

34	Time Domain Decomposition in Final Value Optimal Control of the Maxwell System. <i>ESAIM - Control, Optimisation and Calculus of Variations</i> , 2002 , 8, 775-799	1	2
33	Optimal Control of Nonlinear Hyperbolic Conservation Laws with Switching. <i>International Series of Numerical Mathematics</i> , 2014 , 109-131	0.4	2
32	Boundary Feedback Stabilization for the Intrinsic Geometrically Exact Beam Model. <i>SIAM Journal on Control and Optimization</i> , 2020 , 58, 3533-3558	1.9	2
31	An adaptive spectral graph wavelet method for PDEs on networks. <i>Advances in Computational Mathematics</i> , 2021 , 47, 1	1.6	2
30	Exact boundary controllability and its applications for a coupled system of quasilinear wave equations with dynamical boundary conditions. <i>Nonlinear Analysis: Real World Applications</i> , 2019 , 49, 71-89	2.1	1
29	Asymptotic analysis of 3-D thin piezoelectric rods. <i>ZAMM Zeitschrift Fur Angewandte Mathematik Und Mechanik</i> , 2014 , 94, 529-550	1	1
28	Modeling, Analysis and Optimization of Particle Growth, Nucleation and Ripening by the Way of Nonlinear Hyperbolic Integro-Partial Differential Equations. <i>International Series of Numerical Mathematics</i> , 2014 , 471-486	0.4	1
27	Adaptive refinement based on asymptotic expansions of finite element solutions for node insertion in 1d. <i>GAMM Mitteilungen</i> , 2012 , 35, 175-190	1.8	1
26	Feedback stabilization of quasilinear hyperbolic systems with varying delays 2012 ,		1
25	Material and shape optimization for multi-layered vocal fold models using transient loadings. <i>Journal of the Acoustical Society of America</i> , 2013 , 134, 1261-70	2.2	1
24	PDE-constrained optimization for advanced materials. <i>GAMM Mitteilungen</i> , 2010 , 33, 209-229	1.8	1
23	Shape optimization for the Helmholtz equation. <i>Proceedings in Applied Mathematics and Mechanics</i> , 2008 , 8, 10705-10706	0.2	1
22	Time-Domain Decomposition for Optimal Control Problems Governed by Semilinear Hyperbolic Systems. <i>SIAM Journal on Control and Optimization</i> , 2021 , 59, 4339-4372	1.9	1
21	On Existence of Optimal Solutions to Boundary Control Problem for an Elastic Body with Quasistatic Evolution of Damage. <i>Solid Mechanics and Its Applications</i> , 2014 , 265-286	0.4	1
20	Free Material Optimization for Plates and Shells. <i>IFIP Advances in Information and Communication Technology</i> , 2009 , 239-250	0.5	1
19	Model-Based Design of Biochemical Microreactors. <i>Frontiers in Bioengineering and Biotechnology</i> , 2016 , 4, 13	5.8	1
18	On boundary exact controllability of one-dimensional wave equations with weak and strong interior degeneration. <i>Mathematical Methods in the Applied Sciences</i> ,	2.3	1
17	Singularly perturbed reaction-diffusion problems on a k-star graph. <i>Mathematical Methods in the Applied Sciences</i> ,	2.3	1

16	Partial Differential Equations on Metric Graphs: A Survey of Results on Optimization, Control, and Stabilizability Problems with Special Focus on Shape and Topological Sensitivity Problems. <i>Industrial and Applied Mathematics</i> , 2020 , 77-115	0.3	0
15	Shape-Topological Differentiability of Energy Functionals for Unilateral Problems in Domains with Cracks and Applications. <i>Lecture Notes in Computational Science and Engineering</i> , 2014 , 243-284	0.3	0
14	Optimal control problems of parabolic fractional Sturm-Liouville equations in a star graph. <i>Mathematical Control and Related Fields</i> , 2022 ,	1.5	0
13	Exact Boundary Controllability for the Spatial Vibration of String with Dynamical Boundary Conditions. <i>Chinese Annals of Mathematics Series B</i> , 2020 , 41, 325-334	0.4	
12	1-d Wave Equations Coupled via Viscoelastic Springs and Masses: Boundary Controllability of a Quasilinear and Exponential Stabilizability of a Linear Model. <i>Springer INdAM Series</i> , 2019 , 139-156	0.4	
11	Preface of the Guest Editor Identification, optimization and control for modern technologies. <i>GAMM Mitteilungen</i> , 2012 , 35, 108-109	1.8	
10	A Posteriori Error Estimates in Time-Domain Decomposition of Final Value Optimal Control of the Acoustic Wave Equation. <i>Applied Mathematics and Optimization</i> , 2002 , 46, 263-290	1.5	
9	Optimal Control of Coupled Systems of PDE. <i>Oberwolfach Reports</i> , 2005 , 995-1072	0	
8	Topologie und Dynamische Netzwerke: Anwendungen Der Optimierung MIT Zukunft 2009 , 323-338		
7	Domain Decomposition of Constrained Optimal Control Problems for 2D Elliptic System on Networked Domains: Convergence and A Posteriori Error Estimates. <i>Lecture Notes in Computational Science and Engineering</i> , 2008 , 119-130	0.3	
6	Modeling, Simulation and Optimization of Process Chains 2020 , 549-578		
5	On the Existence of Weak Optimal Controls in the Coefficients for a Degenerate Anisotropic p-Laplacian. <i>Studies in Systems, Decision and Control</i> , 2015 , 315-337	0.8	
4	Topology and Dynamic Networks: Optimization with Application in Future Technologies 2010 , 263-276		
3	Model Reduction, Structure-property Relations and Optimization Techniques for the Production of Nanoscale Particles. <i>International Series of Numerical Mathematics</i> , 2012 , 541-559	0.4	
2	Existence and Uniqueness of Time-Fractional Diffusion Equation on a Metric Star Graph. <i>Communications in Computer and Information Science</i> , 2021 , 25-41	0.3	
1	Nodal profile control for networks of geometrically exact beams. <i>Journal Des Mathematiques Pures Et Appliquees</i> , 2021 , 155, 111-111	1.7	