Long-yuan Li

List of Publications by Year
in descending order

156 papers	4,620 citations	87888 38 h-index	123424 61 g-index
158 all docs	158 docs citations	158 times ranked	2707 citing authors

#	Article	IF	Citations
1	Webâ€“flange distortional buckling of partially restrained CFS beams under uplift loading. Proceedings of the Institution of Civil Engineers: Structures and Buildings, 2022, 175, 940-949.	0.8	2
2	Modelling of multi-species transport in concrete under the action of external electric field: Influence of the overpotential at electrodeâ€“electrolyte interfaces. Journal of Electroanalytical Chemistry, 2022, 907, 116079.	3.8	4
3	Molecular Simulation Study on Mechanical Properties of Microcapsule-Based Self-Healing Cementitious Materials. Polymers, 2022, 14, 611.	4.5	8
4	Analytical modelling of chloride ingress in surface-treated concrete. Ocean Engineering, 2022, 250, 111091.	4.3	8
5	Assessment of equivalent substrate stiffness and mechanical properties of sustainable alkali-activated concrete containing recycled concrete aggregate. Case Studies in Construction Materials, 2022, 16, e00982.	1.7	3
6	Improvement of recycled concrete aggregate using alkali-activated binder treatment. Materials and Structures/Materiaux Et Constructions, 2022, 55, 1.	3.1	10
7	Heat transfer analysis in multi-layered materials with interfacial thermal resistance. Composite Structures, 2022, 293, 115728.	5.8	9
8	Modelling of convection, diffusion and binding of chlorides in concrete during wetting-drying cycles. Marine Structures, 2022, 84, 103240.	3.8	12
9	Properties of a New Insulation Material Glass Bubble in Geopolymer Concrete. Materials, 2021, 14, 809.	2.9	23
10	Editorial: Enhancement of Ductility of FRP-Concrete Structures. Frontiers in Materials, 2021, 7, .	2.4	0
11	Interfacial Binding Energy between Calcium-Silicate-Hydrates and Epoxy Resin: A Molecular Dynamics Study. Polymers, 2021, 13, 1683.	4.5	12
12	Piezoresistive modelling of CNTs reinforced composites under mechanical loadings. Composites Science and Technology, 2021, 208, 108757.	7.8	19
13	Cross-sectional flattening-induced nonlinear damped vibration of elastic tubes subjected to transverse loads. Chaos, Solitons and Fractals, 2021, 151, 111273.	5.1	0
14	Heat transfer modelling of carbon nanotube reinforced composites. Composites Part B: Engineering, 2021, 225, 109280.	12.0	9
15	Comparative mechanical and microstructural properties of high calcium fly ash one-part geopolymers activated with Na2SiO3-anhydrous and NaAlO2. Journal of Materials Research and Technology, 2021, 15, 3850-3866.	5.8	26
16	Dynamic stability of CNTs-reinforced non-uniform composite beams under axial excitation loading. Computational Materials Science, 2021, , 111054.	3.0	1
17	Behavior of Alkali-Activated Fly Ash through Underwater Placement. Materials, 2021, 14, 6865.	2.9	4
18	Percolation threshold and effective properties of CNTs-reinforced two-phase composite materials. Materials Today Communications, 2021, 29, 102977.	1.9	1

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19	Dynamic instability of channel-section beams under periodic loading. Mechanics of Advanced Materials and Structures, 2020, 27, 840-849.	2.6	3
20	Distortional buckling of perforated cold-formed steel beams subject to uniformly distributed transverse loads. Thin-Walled Structures, 2020, 148, 106569.	5.3	14
21	Mathematical modelling of concrete carbonation with moving boundary. International Communications in Heat and Mass Transfer, 2020, 117, 104809.	5.6	8
22	Seawater Exposure Effect on Fly Ash based Geopolymer Concrete with Inclusion of Steel Fiber. IOP Conference Series: Materials Science and Engineering, 2020, 743, 012013.	0.6	7
23	Drying shrinkage, strength and microstructure of alkali-activated high-calcium fly ash using FGD-gypsum and dolomite as expansive additive. Cement and Concrete Composites, 2020, 114, 103760.	10.7	54
24	Calculation of electrical conductivity of self-sensing carbon nanotube composites. Composites Part B: Engineering, 2020, 199, 108314.	12.0	18
25	Nonlinear bending of cylindrical shells subjected to transverse loads. Mechanics Research Communications, 2020, 107, 103561.	1.8	2
26	Low cost and sustainable repair material made from alkali-activated high-calcium fly ash with calcium carbide residue. Construction and Building Materials, 2020, 247, 118543.	7.2	66
27	Self-Sensing Carbon Nanotube Composites Exposed to Glass Transition Temperature. Materials, 2020, 13, 259.	2.9	10
28	Dynamic Instability Analysis of Axially Compressed Castellated Columns. International Journal of Steel Structures, 2020, 20, 559-566.	1.3	2
29	Effect of shear stress on distortional buckling of CFS beams subjected to uniformly distributed transverse loading. Mechanics of Advanced Materials and Structures, 2019, 26, 1423-1429.	2.6	0
30	Compressive stress-strain relationship for fly ash concrete under thermal steady state. Cement and Concrete Composites, 2019, 104, 103371.	10.7	20
31	Effect of temperature gradient on transient thermal creep of heated and stressed concrete in transient state tests. Construction and Building Materials, 2019, 222, 839-851.	7.2	9
32	An analytical solution for chloride diffusion in concrete with considering binding effect. Ocean Engineering, 2019, 191, 106549.	4.3	26
33	Dynamic Behaviors of Fly Ashâ€"Groundâ€Granulated Blastâ€Furnace Slagâ€"Highâ€Magnesium Nickel Slagâ€Based Geopolymer Paste When Subjected to Impact Compressive Loadings. Advanced Engineering Materials, 2019, 21, 1900621.	3.5	1
34	Flexural buckling of sandwich beams with thermal-induced non-uniform sectional properties. Journal of Building Engineering, 2019, 25, 100782.	3.4	7
35	Transverse Vibration of Sandwich Beams with Thermal-Induced Nonuniform Sectional Properties. Journal of Aerospace Engineering, 2019, 32, 04019022.	1.4	2
36	Mechanical properties and microstructure analysis of FA-GGBS-HMNS based geopolymer concrete. Construction and Building Materials, 2019, 210, 198-209.	7.2	127

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37	Chloride diffusion model for concrete in marine environment with considering binding effect. Marine Structures, 2019, 66, 44-51.	3.8	48
38	Mathematical modelling of microtubule-tau protein transients: Insights into the superior mechanical behavior of axon. Applied Mathematical Modelling, 2019, 71, 452-466.	4.2	6
39	A review on the mechanical properties for thin film and block structure characterised by using nanoscratch test. Nanotechnology Reviews, 2019, 8, 628-644.	5.8	38
40	Effect of viscoelasticity on interfacial stress transfer mechanism in the biocomposites: A theoretical study of viscoelastic shear lag model. Composites Part B: Engineering, 2019, 164, 297-308.	12.0	15
41	Influence of cracks on chloride diffusivity in concrete: A five-phase mesoscale model approach. Construction and Building Materials, 2019, 197, 587-596.	7.2	127
42	An analytical solution of distortional buckling resistance of cold-formed steel channel-section beams with web openings. Thin-Walled Structures, 2019, 135, 446-452.	5.3	32
43	Adhesion characterisation of Portland cement concrete and alkali-activated binders. Advances in Cement Research, 2019, 31, 69-79.	1.6	22
44	Dynamic instability of castellated beams subjected to transverse periodic loading. Challenge Journal of Structural Mechanics, 2019, 5, 9.	0.3	0
45	Mathematical modelling of axonal microtubule bundles under dynamic torsion. Applied Mathematics and Mechanics (English Edition), 2018, 39, 829-844.	3.6	4
46	Ionic transport features in concrete composites containing various shaped aggregates: a numerical study. Composite Structures, 2018, 183, 371-380.	5.8	167
47	Viscoelastic shear lag model to predict the micromechanical behavior of tendon under dynamic tensile loading. Journal of Theoretical Biology, 2018, 437, 202-213.	1.7	20
48	A double-porosity model for water flow in unsaturated concrete. Applied Mathematical Modelling, 2018, 53, 510-522.	4.2	12
49	Strength development and durability of alkali-activated fly ash mortar with calcium carbide residue as additive. Construction and Building Materials, 2018, 162, 714-723.	7.2	95
50	Axial Compression Buckling of Castellated Columns at Elevated Temperatures. International Journal of Structural Stability and Dynamics, 2017, 17, 1750034.	2.4	9
51	Distortional buckling of perforated cold-formed steel channel-section beams with circular holes in web. International Journal of Mechanical Sciences, 2017, 126, 255-260.	6.7	26
52	Mechanical properties, drying shrinkage, and creep of concrete containing lithium slag. Construction and Building Materials, 2017, 147, 296-304.	7.2	67
53	Creep analysis of concrete containing rice husk ash. Cement and Concrete Composites, 2017, 80, 190-199.	10.7	60
54	Durability of metakaolin geopolymers with various sodium silicate/sodium hydroxide ratios against seawater exposure. AIP Conference Proceedings, 2017, , .	0.4	6

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55	Dynamic instability of laterally-restrained zed-purlin beams under uplift loading. International Journal of Mechanical Sciences, 2017, 131-132, 408-413.	6.7	8
56	Editorial: Fire safety engineering design of concrete structures. Magazine of Concrete Research, 2017, 69, 325-326.	2.0	0
57	Combined web distortional and lateral-torsional buckling of partially restrained I-section beams. International Journal of Mechanical Sciences, 2017, 131-132, 107-112.	6.7	11
58	Prediction of chloride diffusion coefficients using multi-phase models. Magazine of Concrete Research, 2017, 69, 134-144.	2.0	41
59	Formation of one-part-mixing geopolymers and geopolymer ceramics from geopolymer powder. Construction and Building Materials, 2017, 156, 9-18.	7.2	109
60	Creep analysis of concrete with different mineral admixtures. Materials Express, 2016, 6, 328-336.	0.5	9
61	A stiffened plate buckling model for calculating critical stress of distortional buckling of CFS beams. International Journal of Mechanical Sciences, 2016, 115-116, 457-464.	6.7	13
62	Effect of carbonation on release of bound chlorides in chloride-contaminated concrete. Magazine of Concrete Research, 2016, 68, 353-363.	2.0	71
63	Performance of Corroded Reinforced Concrete Columns under the Action of Eccentric Loads. Journal of Materials in Civil Engineering, 2016, 28, .	2.9	44
64	Multiphase modelling of ionic transport in cementitious materials with surface charges. Computational Materials Science, 2016, 111, 339-349.	3.0	30
65	Modelling of chloride penetration in unsaturated concrete. Advances in Cement Research, 2016, 28, 51-61.	1.6	6
66	Analytical Solutions of Lateralâ€“Torsional Buckling of Castellated Beams. International Journal of Structural Stability and Dynamics, 2016, 16, 1550044.	2.4	19
67	A continuum model of traffic flow on road networks. , 2015, , .		2
68	Buckling analysis of cold-formed steel channel-section beams at elevated temperatures. Journal of Constructional Steel Research, 2015, 104, 74-80.	3.9	18
69	Buckling analysis of partially protected cold-formed steel channel-section columns at elevated temperatures. Fire Safety Journal, 2015, 72, 7-15.	3.1	10
70	Thermal Buckling Analysis of Axially Loaded Columns of Thin-Walled Open Section with Nonuniform Sectional Properties. International Journal of Structural Stability and Dynamics, 2015, 15, 1450088.	2.4	7
71	The stability of bound chlorides in cement paste with sulfate attack. Cement and Concrete Research, 2015, 68, 211-222.	11.0	155
72	A three-phase, multi-component ionic transport model for simulation of chloride penetration in concrete. Engineering Structures, 2015, 86, 122-133.	5.3	117

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73	A numerical study on chloride migration in cracked concrete using multi-component ionic transport models. Computational Materials Science, 2015, 99, 396-416.	3.0	73
74	Numerical simulation of chloride penetration in concrete in rapid chloride migration tests. Cement and Concrete Composites, 2015, 63, 113-121.	10.7	47
75	Analytical approach for transverse vibration analysis of castellated beams. International Journal of Structural Stability and Dynamics, 2014, 14, 1350071.	2.4	9
76	A pore size distribution-based chloride transport model in concrete. Magazine of Concrete Research, 2014, 66, 937-947.	2.0	17
77	Free torsion of thin-walled structural members of open- and closed-sections. Applied Mathematics and Mechanics (English Edition), 2014, 35, 25-32.	3.6	3
78	Web-flange distortional buckling of partially restrained cold-formed steel purlins under uplift loading. International Journal of Mechanical Sciences, 2014, 89, 476-481.	6.7	19
79	Three-phase modelling of electrochemical chloride removal from corroded steel-reinforced concrete. Construction and Building Materials, 2014, 70, 410-427.	7.2	65
80	Buckling of axially loaded castellated steel columns. Journal of Constructional Steel Research, 2014, 92, 40-45.	3.9	24
81	Elastic axially compressed buckling of battened columns. International Journal of Mechanical Sciences, 2013, 77, 1-7.	6.7	19
82	Numerical simulation of ionic transport in cement paste under the action of externally applied electric field. Construction and Building Materials, 2013, 39, 51-59.	7.2	66
83	Lateralâ€“torsional buckling of cold-formed channel sections subject to combined compression and bending. Journal of Constructional Steel Research, 2013, 80, 174-180.	3.9	30
84	Mechanical performance of corroded steel bars in concrete. Proceedings of the Institution of Civil Engineers: Structures and Buildings, 2013, 166, 235-246.	0.8	43
85	Effect of chloride-induced reinforcing steel corrosion on the flexural strength of reinforced concrete beams. Magazine of Concrete Research, 2012, 64, 471-485.	2.0	53
86	Multi-phase modelling of ionic transport in concrete when subjected to an externally applied electric field. Engineering Structures, 2012, 42, 201-213.	5.3	62
87	A multi-phase model for predicting the effective diffusion coefficient of chlorides in concrete. Construction and Building Materials, 2012, 26, 295-301.	7.2	98
88	Theoretical analysis of partially restrained zed-purlin beams subjected to up-lift loads. Journal of Constructional Steel Research, 2012, 70, 273-279.	3.9	20
89	Bending analysis of partially restrained channel-section purlins subjected to up-lift loadings. Journal of Constructional Steel Research, 2012, 72, 254-260.	3.9	14
90	Nonlinear instability of angle section beams subjected to static and dynamic sudden step loads. Journal of Constructional Steel Research, 2012, 77, 19-22.	3.9	4

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91	Modelling of moisture diffusion in multilayer woven fabric composites. Computational Materials Science, 2011, 50, 1675-1680.	3.0	12
92	Shear performance of reinforced concrete beams with corroded stirrups in chloride environment. Corrosion Science, 2011, 53, 1794-1805.	6.6	117
93	Calculation of moment capacity of cold-formed steel members. International Journal of Structural Engineering, 2011, 2, 101.	0.4	10
94	Pseudo-plastic moment resistance of continuous beams with cold-formed sigma sections at internal supports: A numerical study. Thin-Walled Structures, 2011, 49, 1592-1604.	5.3	10
95	Pseudo-plastic moment resistance of continuous beams with cold-formed sigma sections at internal supports: An experimental study. Engineering Structures, 2011, 33, 947-957.	5.3	13
96	Interaction between local and distortional buckling modes in cold-formed steel members subjected to pure bending. International Journal of Computer Applications in Technology, 2011, 42, 279.	0.5	1
97	A nonlinear macroscopic multi-phasic model for describing interactions between solid, fluid and ionic species in biological tissue materials. Philosophical Magazine, 2011, 91, 300-314.	1.6	3
98	DISTORTIONAL BUCKLING OF COLD-FORMED STEEL SECTIONS SUBJECTED TO UNIFORMLY DISTRIBUTED TRANSVERSE LOADING. International Journal of Structural Stability and Dynamics, 2010, 10, 1017-1030.	2.4	13
99	Adhesive contacts of a rigid sphere and an elasticâ€“perfectly plastic half-space. Computational Materials Science, 2010, 48, 848-853.	3.0	3
100	Predicting Rebound Kinematics of Elastic and Rigid Particles Resulting from Oblique Impacts. , 2009, , .		0
101	A semi-analytical model for oblique impacts of elastoplastic spheres. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2009, 465, 937-960.	2.1	76
102	An analytical solution for the unloading in spherical indentation of elasticâ€“plastic solids. International Journal of Engineering Science, 2009, 47, 452-462.	5.0	18
103	Analyses of distortional buckling of cold-formed sigma purlins using EN1993-1-3. Journal of Constructional Steel Research, 2009, 65, 2099-2102.	3.9	22
104	An analytical model for analysing distortional buckling of cold-formed steel sections. Thin-Walled Structures, 2008, 46, 1430-1436.	5.3	45
105	REBOUND BEHAVIOUR OF SPHERES DURING ELASTIC-PLASTIC OBLIQUE IMPACTS. International Journal of Modern Physics B, 2008, 22, 1095-1102.	2.0	11
106	Nonlinear analysis of static axisymmetric deformation of the human cornea. Computational Materials Science, 2007, 38, 618-624.	3.0	12
107	Numerical simulation of corneal transport processes. Journal of the Royal Society Interface, 2006, 3, 303-310.	3.4	14
108	Numerical simulation of mass transfer during the osmotic dehydration of biological tissues. Computational Materials Science, 2006, 35, 75-83.	3.0	8

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109	The anisotropic material constitutive models for the human cornea. Journal of Structural Biology, 2006, 153, 223-230.	2.8	25
110	Local and distortional buckling of cold-formed zed-section beams under uniformly distributed transverse loads. International Journal of Mechanical Sciences, 2006, 48, 378-388.	6.7	30
111	Global optimization of cold-formed steel channel sections. Thin-Walled Structures, 2006, 44, 399-406.	5.3	40
112	Fire resistance of axially loaded concrete filled steel tube columns. Journal of Constructional Steel Research, 2006, 62, 723-729.	3.9	44
113	Buckling behaviour of cold-formed channel sections under uniformly distributed loads. Thin-Walled Structures, 2005, 43, 531-542.	5.3	39
114	Influence of lateral restraint on lateral-torsional buckling of cold-formed steel purlins. Thin-Walled Structures, 2005, 43, 800-810.	5.3	25
115	Modelling of chloride ingress into concrete from a saline environment. Building and Environment, 2005, 40, 1573-1582.	6.9	49
116	Stressâ€“strain constitutive equations of concrete material at elevated temperatures. Fire Safety Journal, 2005, 40, 669-686.	3.1	147
117	Energy dissipation during normal impact of elastic and elasticâ€“plastic spheres. International Journal of Impact Engineering, 2005, 32, 593-604.	5.0	178
118	The Effect of Warping Stress on the Lateral-Torsion Buckling of Cold-Formed Zed-Purlins. Journal of Applied Mechanics, Transactions ASME, 2004, 71, 742-744.	2.2	5
119	Transport of multicomponent ionic solutions in membrane systems. Philosophical Magazine Letters, 2004, 84, 593-599.	1.2	9
120	Mathematical modelling of corneal swelling. Biomechanics and Modeling in Mechanobiology, 2004, 3, 114-123.	2.8	14
121	Lateralâ€“torsional buckling of cold-formed zed-purlins partial-laterally restrained by metal sheeting. Thin-Walled Structures, 2004, 42, 995-1011.	5.3	53
122	Lateral-torsion buckling analysis of partial-laterally restrained thin-walled channel-section beams. Journal of Constructional Steel Research, 2004, 60, 1159-1175.	3.9	38
123	Analysis of cold-formed zed-purlins partially restrained by steel sheeting. Computers and Structures, 2004, 82, 731-739.	4.4	33
124	Rebound behaviour of spheres for plastic impacts. International Journal of Impact Engineering, 2003, 28, 929-946.	5.0	200
125	Coefficients of restitution for elastoplastic oblique impacts. Advanced Powder Technology, 2003, 14, 435-448.	4.1	67
126	Buckling behavior of cold-formed zed-purlins partially restrained by steel sheeting. Thin-Walled Structures, 2002, 40, 853-864.	5.3	40

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127	Nonlinear bending response and buckling of ring-stiffened cylindrical shells under pure bending. International Journal of Solids and Structures, 2002, 39, 765-781.	2.7	27
128	A two-dimensional model of electrochemical chloride removal from concrete. Computational Materials Science, 2001, 20, 196-212.	3.0	58
129	Finite element analysis of coupled heat and mass transfer in concrete when it is in a fire. Magazine of Concrete Research, 2001, 53, 117-125.	2.0	20
130	Novel approach to dynamic imaging of stress distribution with piezoluminescence. Ferroelectrics, 2001, 263, 3-8.	0.6	6
131	Finite element modelling of chloride removal from concrete by an electrochemical method. Corrosion Science, 2000, 42, 2145-2165.	6.6	88
132	Modelling of electrochemical chloride extraction from concrete: Influence of ionic activity coefficients. Computational Materials Science, 1998, 9, 303-308.	3.0	60
133	Adaptive Finite Element Methods: A Review. Applied Mechanics Reviews, 1997, 50, 581-591.	10.1	32
134	Adaptive finite element analysis of stiffened shells. Advances in Engineering Software, 1997, 28, 501-507.	3.8	6
135	Dynamic instability criteria for structures subjected to sudden step loads. International Journal of Pressure Vessels and Piping, 1997, 70, 121-126.	2.6	7
136	Buckling of stiffened plates and design of stiffeners. International Journal of Pressure Vessels and Piping, 1997, 74, 177-187.	2.6	11
137	ERROR ESTIMATES AND ADAPTIVE REMESHING TECHNIQUES IN ELASTO-PLASTICITY. Communications in Numerical Methods in Engineering, 1997, 13, 285-299.	1.3	8
138	Approximate estimates of dynamic instability of long circular cylindrical shells under pure bending. International Journal of Pressure Vessels and Piping, 1996, 67, 37-40.	2.6	15
139	Instability of cylindrical panels under combined static and dynamic loads. International Journal of Pressure Vessels and Piping, 1996, 65, 163-169.	2.6	6
140	Adaptive mesh refinement for shells with modified Ahmad elements. Computers and Structures, 1996, 61, 1135-1141.	4.4	4
141	Adaptive analysis of stiffened structures using stiffened plate bending elements. International Journal of Pressure Vessels and Piping, 1996, 65, 117-125.	2.6	7
142	Dynamic elastic instability of long circular cylindrical shells under pure bending. Thin-Walled Structures, 1996, 24, 123-133.	5.3	9
143	Bending Instability of Composite Tubes. Journal of Aerospace Engineering, 1996, 9, 58-61.	1.4	14
144	Theoretical formulations for adaptive finite element computations. Communications in Numerical Methods in Engineering, 1995, 11, 857-868.	1.3	41

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145	Notes on mesh optimal criteria in adaptive finite element computations. Communications in Numerical Methods in Engineering, 1995, 11, 911-915.	1.3	51
146	IMPROVING DESIGN OF NATURAL DRAUGHT COOLING TOWERS AGAINST BUCKLING FAILURE. Civil Engineering and Environmental Systems, 1994, 11, 143-157.	0.2	3
147	Response of shielding structures to explosive loading. International Journal of Pressure Vessels and Piping, 1994, 57, 353-358.	2.6	0
148	Numerical simulation of underwater explosions. Computers and Fluids, 1994, 23, 903-911.	2.5	13
149	Elastoplastic dynamic instability of long circular cylindrical shells under pure bending. International Journal of Mechanical Sciences, 1994, 36, 431-437.	6.7	4
150	Determination of stability in nonlinear analysis of structures. Archive of Applied Mechanics, 1994, 64, 119-126.	2.2	8
151	Dynamic contact instability of spherical caps. International Journal of Impact Engineering, 1993, 13, 479-484.	5.0	1
152	Impact responses of circular cylindrical shells under explosive loading. Advances in Engineering Software, 1993, 18, 7-13.	3.8	3
153	Stability conditions for non-conservative dynamical systems. Computational Mechanics, 1991, 8, 145-151.	4.0	12
154	The criteria for identifying the type of critical points. Archive of Applied Mechanics, 1991, 61, 231-235.	2.2	6
155	Influence of loading imperfections on the stability of an axially compressed cylindrical shell. Thin-Walled Structures, 1990, 10, 215-220.	5.3	8
156	Fire Safety Engineering Design of Structures. , 0, , .		49