Suchart Limkatanyu

List of Publications by Year
in descending order

88 papers	1,007 citations	471061 17 h-index	525886 27 g-index
93 all docs	93 docs citations	93 times ranked	743 citing authors

#	ARTICLE	IF	CITATIONS
1	Experimental and numerical investigation on low-strength RC beams strengthened with side or bottom near surface mounted FRP rods. Structure and Infrastructure Engineering, 2023, 19, 1600-1615.	2.0	4
2	Elastic solutions of axisymmetrically loaded half-space with surface and couple stress effects. Mechanics of Advanced Materials and Structures, 2023, 30, 835-855.	1.5	2
3	Free vibration analysis of rotating FGP sandwich cylindrical shells with metal-foam core layer. Mechanics of Advanced Materials and Structures, 2023, 30, 3318-3331.	1.5	15
4	Correlation of Rapid Electrochemical and Traditional Performance-Based Test Results for Assessing the Degree of Sulfate Resistance in Concrete. Iranian Journal of Science and Technology - Transactions of Civil Engineering, 2022, 46, 1103-1116.	1.0	1
5	Effect of concentrated Butt-Joints on flexural properties of laminated Bamboo-Timber flitch beams. Journal of Sandwich Structures and Materials, 2022, 24, 1226-1244.	2.0	8
6	Effect of synthetic microfiber and viscosity modifier agent on layer deformation, viscosity, and open time of cement mortar for 3D printing application. Construction and Building Materials, 2022, 319, 126111.	3.2	12
7	Strain-Gradient Bar-Elastic Substrate Model with Surface-Energy Effect: Virtual-Force Approach. Nanomaterials, 2022, 12, 375.	1.9	4
8	Thermal and acoustic properties of sustainable structural lightweight aggregate rubberized concrete. Results in Engineering, 2022, 13, 100333.	2.2	22
9	Shear-Flexure-Interaction Frame Element Inclusion of Bond-Slip Effect for Seismic Analysis of Non-Ductile RC Columns. , 2022, 49, 14-26.		2
10	Influence of Graphene Oxide Nanoparticles on Bond-Slip Reponses between Fiber and Geopolymer Mortar. Nanomaterials, 2022, 12, 943.	1.9	14
11	Two-phase ESO and comprehensive learning PSO method for structural optimization with discrete steel sections. Advances in Engineering Software, 2022, 167, 103102.	1.8	12
12	Strain Measuring of Composite Grid Using Digital Image Correlation. Advances in Materials Science and Engineering, 2022, 2022, 1-12.	1.0	4
13	Static and Free Vibration Analyses of Single-Walled Carbon Nanotube (SWCNT)â€"Substrate Medium Systems. Nanomaterials, 2022, 12, 1740.	1.9	4
14	A practical macro-mechanical model for the bend capacity of fibre-reinforced polymer bars. Proceedings of the Institution of Civil Engineers: Structures and Buildings, 2021, 174, 824-835.	0.4	2
15	Elastic response of surface-loaded half plane with influence of surface and couple stresses. Applied Mathematical Modelling, 2021, 91, 892-912.	2.2	8
16	Critical amount of corrosion and failure behavior of flexural reinforced concrete beams. Construction and Building Materials, 2021, 270, 121448.	3.2	12
17	A rational beam-elastic substrate model with incorporation of beam-bulk nonlocality and surface-free energy. European Physical Journal Plus, 2021, 136, 1.	1.2	5
18	Influence of Associated Cations on Chloride Ingress into Concrete Structures. Engineering Journal, 2021, 25, 51-60.	0.5	4

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19	Effect of graphene oxide on single fiber pullout behavior. Construction and Building Materials, 2021, 280, 122539.	3.2	18
20	Size effects in two-dimensional layered materials modeled by couple stress elasticity. Frontiers of Structural and Civil Engineering, 2021, 15, 425-443.	1.2	9
21	SBFE analysis of surface loaded elastic layered media with influence of surface/interface energy. International Journal of Mechanical Sciences, 2021, 197, 106302.	3.6	0
22	Sequential elastic recovery stress edge-smoothed finite element method for lower-bound limit determination of structures. Acta Mechanica, 2021, 232, 2877.	1.1	2
23	Effect of viscoelastic polymer on damping properties of precast concrete panel. Heliyon, 2021, 7, e06967.	1.4	7
24	Prediction of Shear Strength of Reinforced Recycled Aggregate Concrete Beams without Stirrups. Buildings, 2021, 11, 402.	1.4	12
25	Sustainable rubberized concrete mixed with surface treated PCM lightweight aggregates subjected to high temperature cycle. Construction and Building Materials, 2021, 303, 124535.	3.2	19
26	Seismic design method for preventing column shear failure in reinforced concrete frames with infill walls. Journal of Building Engineering, 2021, 44, 102963.	1.6	3
27	Strengthening effect of natural fiber reinforced polymer composites (NFRP) on concrete. Case Studies in Construction Materials, 2021, 15, e00653.	0.8	13
28	Residual Strength of Reinforced Concrete Beams under Sequential Small Impact Loads. Buildings, 2021, 11, 518.	1.4	11
29	Mechanical properties and electrical resistivity of multiwall carbon nanotubes incorporated into high calcium fly ash geopolymer. Case Studies in Construction Materials, 2021, 15, e00785.	0.8	7
30	FOURTH-ORDER STRAIN GRADIENT BAR-SUBSTRATE MODEL WITH NONLOCAL AND SURFACE EFFECTS FOR THE ANALYSIS OF NANOWIRES EMBEDDED IN SUBSTRATE MEDIA. Facta Universitatis, Series: Mechanical Engineering, 2021, 19, 657.	2.3	6
31	Thermal storage properties of lightweight concrete incorporating phase change materials with different fusion points in hybrid form for high temperature applications. Heliyon, 2020, 6, e04863.	1.4	29
32	Manuscript title: Development of strength prediction models for fly ash based geopolymer concrete. Journal of Building Engineering, 2020, 32, 101704.	1.6	17
33	Elastic Half Space under Axisymmetric Surface Loading and Influence of Couple Stresses. Applied Mechanics and Materials, 2020, 897, 129-133.	0.2	3
34	Frictionless Contact on Elastic Half Plane with Influence of Surface and Couple Stresses. Applied Mechanics and Materials, 2020, 897, 73-77.	0.2	1
35	Influence of frictional contact on indentation of elastic layer under surface energy effects. Mechanics Research Communications, 2020, 110, 103622.	1.0	6
36	Seismic Building Damage Prediction From GIS-Based Building Data Using Artificial Intelligence System. Frontiers in Built Environment, 2020, 6, .	1.2	20

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37	A Thermodynamics-Based Nonlocal Bar-Elastic Substrate Model with Inclusion of Surface-Energy Effect. Journal of Nanomaterials, 2020, 2020, 1-16.	1.5	3
38	Thermal behaviour of concrete sandwich panels incorporating phase change material. Advances in Building Energy Research, 2020, , 1-25.	1.1	9
39	Analysis of 3D cracked components repaired by adhesively bonded patches using FEM-BIEM coupling. Theoretical and Applied Fracture Mechanics, 2020, 108, 102602.	2.1	3
40	Seismic Strengthening of Low Strength Concrete Columns using High Ductile Metal Strap Confinement: A Case Study of Kindergarten School in Northern Thailand. Walailak Journal of Science and Technology, 2020, 17, 1335-1347.	0.5	3
41	Seismic Upgrading of Exterior Reinforced Concrete Frame with Small Column and Joint Area Using Externally Attached Steel Column. Latin American Journal of Solids and Structures, 2019, 16, .	0.6	0
42	Elastic buckling of cellular columns under axial compression. Thin-Walled Structures, 2019, 145, 106434.	2.7	9
43	Nonlinear Frame Element with Shear–Flexure Interaction for Seismic Analysis of Non-Ductile Reinforced Concrete Columns. International Journal of Concrete Structures and Materials, 2019, 13, .	1.4	6
44	Simplified Buckling-Strength Determination of Pultruded FRP Structural Beams. Practice Periodical on Structural Design and Construction, 2019, 24, 04018036.	0.7	4
45	Uncertainty and Fuzzy Decisions in Earthquake Risk Evaluation of Buildings. Engineering Journal, 2019, 23, 89-105.	0.5	26
46	Field Investigation of Service Performance of Concrete Bridges Exposed to Tropical Marine Environment. International Journal of Civil Engineering, 2018, 16, 1757-1769.	0.9	6
47	Simulation of control characteristics of liquid column vibration absorber using a quasi-elliptic flow path estimation method. Engineering Structures, 2018, 177, 785-794.	2.6	3
48	Flexural responses of nanobeams with coupled effects of nonlocality and surface energy. ZAMM Zeitschrift Fur Angewandte Mathematik Und Mechanik, 2018, 98, 1771-1793.	0.9	7
49	Shear model with shear-flexure interaction for non-linear analysis of reinforced concrete frame element. MATEC Web of Conferences, 2018, 192, 02003.	0.1	0
50	Energy-Based Temperature Profiles for Designing Fire Resistance of Concrete Sections. Arabian Journal for Science and Engineering, 2017, 42, 3779-3798.	1.7	1
51	Moment capacity and fire protection of the welded plate joint for precast members. Archives of Civil and Mechanical Engineering, 2016, 16, 753-766.	1.9	4
52	A Novel Beam-Elastic Substrate Model with Inclusion of Nonlocal Elasticity and Surface Energy Effects. Arabian Journal for Science and Engineering, 2016, 41, 4099-4113.	1.1	5
53	Behavior and Performance of GFRP Reinforced Concrete Columns with Various Types of Stirrups. International Journal of Polymer Science, 2015, 2015, 1-9.	1.2	19
54	Parametric Study on Dynamic Response of Fiber Reinforced Polymer Composite Bridges. International Journal of Polymer Science, 2015, 2015, 1-13.	1.2	3

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55	A Thermo-Hygro-Coupled Model for Chloride Penetration in Concrete Structures. Advances in Materials Science and Engineering, 2015, 2015, 1-10.	1.0	7
56	Improved nonlinear displacement-based beam element on a two-parameter foundation. European Journal of Environmental and Civil Engineering, 2015, 19, 649-671.	1.0	3
57	Novel simplified equations for Vierendeel design of beams with (elongated) circular openings. Journal of Constructional Steel Research, 2015, 112, 10-21.	1.7	28
58	Force–based derivation of exact stiffness matrix for beams on Winkler–Pasternak foundation. ZAMM Zeitschrift Fur Angewandte Mathematik Und Mechanik, 2015, 95, 140-155.	0.9	8
59	Baseline Moisture Resistance of PWP Cement Composite Boards Reinforced with Internal Glass Fiber Reinforcement under Accelerated Wet-Dry Aging. Journal of Composites, 2014, 2014, 1-7.	0.8	1
60	Unification of Mixed Euler-Bernoulli-Von Karman Planar Frame Model and Corotational Approach. Mechanics Based Design of Structures and Machines, 2014, 42, 419-441.	3.4	3
61	Exact stiffness matrix for nonlocal bars embedded in elastic foundation media: the virtual-force approach. Journal of Engineering Mathematics, 2014, 89, 163-176.	0.6	5
62	Effects of CFRP Strengthening on Dynamic and Fatigue Responses of Composite Bridge. Advances in Materials Science and Engineering, 2014, 2014, 1-10.	1.0	0
63	Correlation between beam on Winkler-Pasternak foundation and beam on elastic substrate medium with inclusion of microstructure and surface effects. Journal of Mechanical Science and Technology, 2014, 28, 3653-3665.	0.7	9
64	Development of Equivalent Stress Block Parameters for Fly-Ash-Based Geopolymer Concrete. Arabian Journal for Science and Engineering, 2014, 39, 8549-8558.	1.1	37
65	Novel design equations for shear strength of local web-post buckling in cellular beams. Thin-Walled Structures, 2014, 76, 92-104.	2.7	57
66	Simplified passive earth pressure element. KSCE Journal of Civil Engineering, 2014, 18, 1359-1363.	0.9	1
67	Temperature effect on multi-ionic species diffusion in saturated concrete. Computers and Concrete, 2014, 13, 149-171.	0.7	11
68	Seismic performance evaluation of RC columns reinforced by GFRP composite sheets with clip connectors. Construction and Building Materials, 2013, 43, 563-574.	3.2	18
69	Nonlinear Winkler-based beam element with improved displacement shape functions. KSCE Journal of Civil Engineering, 2013, 17, 192-201.	0.9	7
70	Total Lagrangian formulation of 2D bar element using vectorial kinematical description. KSCE Journal of Civil Engineering, 2013, 17, 1348-1358.	0.9	1
71	Modeling of Axially Loaded Nanowires Embedded in Elastic Substrate Media with Inclusion of Nonlocal and Surface Effects. Journal of Nanomaterials, 2013, 2013, 1-14.	1.5	9
72	Exact Stiffness for Beams on Kerr-Type Foundation: The Virtual Force Approach. Journal of Applied Mathematics, 2013, 2013, 1-13.	0.4	9

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73	Parawood particle cement composite boards under accelerated wet/dry cycling and natural aging. Journal of Sustainable Cement-Based Materials, 2013, 2, 227-237.	1.7	2
74	Numerical Evaluation of Fundamental Finite Element Models in Bar and Beam Structures. Journal of the Korean Society for Advanced Composite Structures, 2013, 4, 1-8.	0.0	1
75	Simplified load distribution factors for fiber reinforced polymer composite bridge decks. Baltic Journal of Road and Bridge Engineering, 2013, 8, 271-280.	0.4	2
76	Contact interface fiber section element: shallow foundation modeling. Geomechanics and Engineering, 2012, 4, 173-190.	0.9	6
77	Natural stiffness matrix for beams on Winkler foundation: exact force-based derivation. Structural Engineering and Mechanics, 2012, 42, 39-53.	1.0	7
78	Response of reinforced concrete piles including soil–pile interaction effects. Engineering Structures, 2009, 31, 1976-1986.	2.6	21
79	Impact of transesterification mechanisms on the kinetic modeling of biodiesel production by immobilized lipase. Biochemical Engineering Journal, 2008, 42, 261-269.	1.8	84
80	A practical appraisal method for through-wall cracks in tubular structures. WIT Transactions on the Built Environment, 2008, , .	0.0	0
81	Frame element with lateral deformable supports: Formulations and numerical validation. Computers and Structures, 2006, 84, 942-954.	2.4	11
82	Failure Mode Analyses of Reinforced Concrete Beams Strengthened in Flexure with Externally Bonded Fiber-Reinforced Polymers. Journal of Composites for Construction, 2004, 8, 123-131.	1.7	71
83	Effects of reinforcement slippage on the non-linear response under cyclic loadings of RC frame structures. Earthquake Engineering and Structural Dynamics, 2003, 32, 2407-2424.	2.5	21
84	Reinforced Concrete Frame Element with Bond Interfaces. I: Displacement-Based, Force-Based, and Mixed Formulations. Journal of Structural Engineering, 2002, 128, 346-355.	1.7	56
85	Reinforced Concrete Frame Element with Bond Interfaces. II: State Determinations and Numerical Validation. Journal of Structural Engineering, 2002, 128, 356-364.	1.7	18
86	HELLINGER-REISSNER MIXED FORMULATION FOR THE NONLINEAR FRAME ELEMENT WITH LATERAL DEFORMABLE SUPPORTS. , 2002, , .		0
87	Role of Bond in RC Beams Strengthened with Steel and FRP Plates. Journal of Structural Engineering, 2001, 127, 1445-1452.	1.7	54
88	Flexibility-based stress-driven nonlocal frame element: formulation and applications. Engineering With Computers, 0, , 1.	3.5	1