

Sergei Khakalo

List of Publications by Year in descending order

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Version: 2024-02-01

15
papers

559
citations

1039406

9
h-index

1058022

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17
all docs

17
docs citations

17
times ranked

305
citing authors

#	ARTICLE	IF	CITATIONS
1	Strain gradient elasto-plasticity model: 3D isogeometric implementation and applications to cellular structures. Computer Methods in Applied Mechanics and Engineering, 2022, 388, 114225.	3.4	7
2	Anisotropic strain gradient thermoelasticity for cellular structures: Plate models, homogenization and isogeometric analysis. Journal of the Mechanics and Physics of Solids, 2020, 134, 103728.	2.3	48
3	Variational Formulations and Galerkin Methods for Strain Gradient Elasticity. , 2020, , 2601-2610.		0
4	Lattice structures as thermoelastic strain gradient metamaterials: Evidence from full-field simulations and applications to functionally step-wise-graded beams. Composites Part B: Engineering, 2019, 177, 107224.	5.9	40
5	Thermomechanical surface instability at the origin of surface fissure patterns on heated circular MDF samples. Fire and Materials, 2019, 43, 707-716.	0.9	2
6	Variational asymptotic homogenization of beam-like square lattice structures. Mathematics and Mechanics of Solids, 2019, 24, 3295-3318.	1.5	32
7	Kirchhoff's Love shells within strain gradient elasticity: Weak and strong formulations and an isogeometric implementation. Computer Methods in Applied Mechanics and Engineering, 2019, 344.	3.4	42
8	Modelling size-dependent bending, buckling and vibrations of 2D triangular lattices by strain gradient elasticity models: Applications to sandwich beams and auxetics. International Journal of Engineering Science, 2018, 127, 33-52.	2.7	142
9	Form II of Mindlin's second strain gradient theory of elasticity with a simplification: For materials and structures from nano- to macro-scales. European Journal of Mechanics, A/Solids, 2018, 71, 292-319.	2.1	72
10	Variational Formulations and Galerkin Methods for Strain Gradient Elasticity. , 2018, , 1-11.		0
11	Gradient-elastic stress analysis near cylindrical holes in a plane under bi-axial tension fields. International Journal of Solids and Structures, 2017, 110-111, 351-366.	1.3	30
12	Isogeometric analysis of higher-order gradient elasticity by user elements of a commercial finite element software. CAD Computer Aided Design, 2017, 82, 154-169.	1.4	58
13	Isogeometric finite element analysis of mode I cracks within strain gradient elasticity. Rakenteiden Mekaniikka, 2017, 50, 337-340.	0.2	1
14	Variational formulation and isogeometric analysis for fourth-order boundary value problems of gradient-elastic bar and plane strain/stress problems. Computer Methods in Applied Mechanics and Engineering, 2016, 308, 182-211.	3.4	78
15	Comparison of micromodels describing the elastic properties of diamond. Mechanics of Solids, 2012, 47, 525-532.	0.3	1