Marko Canadija

List of Publications by Year
in descending order

78 papers	1,302 citations	361045 20 h-index	377514 34 g-index
78 all docs	78 docs citations	78 times ranked	850 citing authors

#	Article	IF	Citations
1	Casting Defects Detection in Aluminum Alloys Using Deep Learning: a Classification Approach. International Journal of Metalcasting, 2023, 17, 386-398.	1.5	8
2	Predicting stressâ€"strain behavior of carbon nanotubes using neural networks. Neural Computing and Applications, 2022, 34, 17821-17836.	3.2	3
3	Stress-driven two-phase integral elasticity for Timoshenko curved beams. Proceedings of the Institution of Mechanical Engineers, Part N: Journal of Nanomaterials, Nanoengineering and Nanosystems, 2021, 235, 52-63.	0.5	4
4	Casting Microstructure Inspection Using Computer Vision: Dendrite Spacing in Aluminum Alloys. Metals, 2021, 11, 756.	1.0	13
5	Deep learning framework for carbon nanotubes: Mechanical properties and modeling strategies. Carbon, 2021, 184, 891-901.	5.4	13
6	On thermomechanics of multilayered beams. International Journal of Engineering Science, 2020, 155, 103364.	2.7	25
7	Nonlocal Mechanical Behavior of Layered Nanobeams. Symmetry, 2020, 12, 717.	1.1	7
8	NEMS Resonators for Detection of Chemical Warfare Agents Based on Graphene Sheet. Mathematical Problems in Engineering, 2019, 2019, 1-23.	0.6	8
9	Nonlocal integral thermoelasticity: A thermodynamic framework for functionally graded beams. Composite Structures, 2019, 225, 111104.	3.1	27
10	Modified Nonlocal Strain Gradient Elasticity for Nano-Rods and Application to Carbon Nanotubes. Applied Sciences (Switzerland), 2019, 9, 514.	1.3	39
11	Analysis of Materials of Similar Mechanical Behavior and Similar Industrial Assignment. Procedia Manufacturing, 2019, 37, 207-213.	1.9	4
12	Equivalent beam model of single walled carbon nanotube with imperfections. IOP Conference Series: Materials Science and Engineering, 2019, 625, 012004.	0.3	0
13	Equivalent beam model of SWNT and DWNT with imperfections. Procedia Manufacturing, 2019, 37, 417-424.	1.9	0
14	THERMODYNAMICALLY CONSISTENT HOMOGENIZATION IN FINITE STRAIN THERMOPLASTICITY. International Journal for Multiscale Computational Engineering, 2019, 17, 99-120.	0.8	0
15	Stress-driven modeling of nonlocal thermoelastic behavior of nanobeams. International Journal of Engineering Science, 2018, 126, 53-67.	2.7	121
16	A Multiscale Framework for Thermoplasticity. Lecture Notes in Applied and Computational Mechanics, 2018, , 329-345.	2.0	0
17	Exact solutions of inflected functionally graded nano-beams in integral elasticity. Composites Part B: Engineering, 2018, 142, 273-286.	5.9	97
18	Thermo-Mechanical Multiscale Modeling in Plasticity of Metals Using Small Strain Theory. Journal of Mechanics, 2018, 34, 579-589.	0.7	1

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19	Influence of imperfections on double walled carbon nanotube mechanical properties. Materials Today: Proceedings, 2018, 5, 17397-17403.	0.9	4
20	Thermomechanics of Beam-Like Nanostructures. , 2018, , 179-231.		0
21	Imperfections in carbon nanotubes structure and their impact on the basic mechanical properties. IOP Conference Series: Materials Science and Engineering, 2018, 378, 012006.	0.3	1
22	Uniaxial Properties versus Temperature, Creep and Impact Energy of an Austenitic Steel. High Temperature Materials and Processes, 2017, 36, 135-143.	0.6	0
23	On the influence of thermal stresses on eigenvalues of a circular saw blade. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2017, 231, 96-108.	1.1	4
24	Application of gradient elasticity to armchair carbon nanotubes: Size effects and constitutive parameters assessment. European Journal of Mechanics, A/Solids, 2017, 65, 1-13.	2.1	68
25	Elastic properties of nanocomposite materials: influence of carbon nanotube imperfections and interface bonding. Meccanica, 2017, 52, 1655-1668.	1.2	7
26	A closed-form model for torsion of nanobeams with an enhanced nonlocal formulation. Composites Part B: Engineering, 2017, 108, 315-324.	5.9	83
27	Analysis of the Mechanical Behavior, Creep Resistance and Uniaxial Fatigue Strength of Martensitic Steel X46Cr13. Materials, 2017, 10, 388.	1.3	8
28	10.34: Creep properties of grade S275JR steel at high temperature. Ce/Papers, 2017, 1, 2806-2810.	0.1	1
29	A manual calculation method for the check of the fire resistance of concrete columns subjected to a standard fire. , 2017, , 37-44.		0
30	Mechanical Properties, Short Time Creep, and Fatigue of an Austenitic Steel. Materials, 2016, 9, 298.	1.3	16
31	A variational formulation for thermomechanically coupled low cycle fatigue at finite strains. International Journal of Solids and Structures, 2016, 100-101, 388-398.	1.3	12
32	A multiscale approach to thermoplastic deformation. Proceedings in Applied Mathematics and Mechanics, 2016, 16, 435-436.	0.2	0
33	On functionally graded Timoshenko nonisothermal nanobeams. Composite Structures, 2016, 135, 286-296.	3.1	53
34	A gradient elasticity model of Bernoulliâ€"Euler nanobeams in non-isothermal environments. European Journal of Mechanics, A/Solids, 2016, 55, 243-255.	2.1	51
35	A higher-order Eringen model for Bernoulliâ€"Euler nanobeams. Archive of Applied Mechanics, 2016, 86, 483-495.	1.2	46
36	Short-time creep, fatigue and mechanical properties of 42CrMo4 - Low alloy structural steel. Steel and Composite Structures, 2016, 22, 875-888.	1.3	7

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37	On the thermomechanical coupling in dissipative materials: A variational approach for generalized standard materials. Journal of the Mechanics and Physics of Solids, 2015, 82, 218-234.	2.3	35
38	Study of the Effects of High Temperatures on the Engineering Properties of Steel 42CrMo4. High Temperature Materials and Processes, 2015, 34, .	0.6	11
39	Deformation behaviour and material properties of austenitic heat-resistant steel X15CrNiSi25-20 subjected to high temperatures and creep. Materials & Design, 2015, 69, 219-229.	5.1	18
40	A gradient model for torsion of nanobeams. Comptes Rendus - Mecanique, 2015, 343, 289-300.	2.1	12
41	Influence of Waviness and Vacancy Defects on Carbon Nanotubes Properties. Procedia Engineering, 2015, 100, 213-219.	1.2	18
42	Information relevant for the design of structure: Ferritic â€“ Heat resistant high chromium steel X10CrAlSi25. Materials & Design, 2014, 63, 508-518.	5.1	13
43	Experimental determination and prediction of the mechanical properties of steel 1.7225. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2014, 600, 47-52.	2.6	10
44	Low cycle fatigue and mechanical properties of magnesium alloy Mgâ€“6Znâ€“1Yâ€“0.6Ceâ€“0.6Zr at different temperatures. Materials & Design, 2014, 59, 287-295.	5.1	20
45	Significance of experimental data in the design of structures made from 1.4057 steel. Journal Wuhan University of Technology, Materials Science Edition, 2014, 29, 131-136.	0.4	3
46	Comparison of material properties: Steel 20MnCr5 and similar steels. Journal of Constructional Steel Research, 2014, 95, 81-89.	1.7	32
47	Mechanical testing of the behavior of steel 1.7147 at different temperatures. Steel and Composite Structures, 2014, 17, 549-560.	1.3	4
48	Temperature-Dependent Thermoplasticity at Finite Strains. , 2014, , 4813-4826.		0
49	Estimation of material properties of nanocomposite structures. Meccanica, 2013, 48, 2209-2220.	1.2	18
50	Analysis of experimental data on the behavior of steel S275JR â€“ Reliability of modern design. Materials & Design, 2013, 47, 497-504.	5.1	33
51	Testing and analysis of X39CrMo17-1 steel properties. Construction and Building Materials, 2013, 44, 293-301.	3.2	9
52	Responses of Austenitic Stainless Steel American Iron and Steel Institute (AISI) 303 (1.4305) Subjected to Different Environmental Conditions. Journal of Testing and Evaluation, 2012, 40, 319-328.	0.4	8
53	Martensitic stainless steel AISI 420â€"mechanical properties, creep and fracture toughness. Mechanics of Time-Dependent Materials, 2011, 15, 341-352.	2.3	38
54	On the thermomechanical coupling in finite strain plasticity theory with non-linear kinematic hardening by means of incremental energy minimization. International Journal of Solids and Structures, 2011, 48, 1120-1129.	1.3	44

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55	AISI 316Ti (1.4571) steelâ€"Mechanical, creep and fracture properties versus temperature. Journal of Constructional Steel Research, 2011, 67, 1948-1952.	1.7	36
56	Loading and Responses of Austenitic Stainless Steels at Elevated Temperatures. High Temperature Materials and Processes, 2011, 30, .	0.6	0
57	Effect of Elevated Temperatures on Behavior of Structural Steel 50CrMo4. High Temperature Materials and Processes, 2011, 30, .	0.6	2
58	Experimental determination of mechanical properties and short-time creep of AISI 304 stainless steel at elevated temperatures. International Journal of Minerals, Metallurgy and Materials, 2010, 17, 39-45.	2.4	6
59	Behavior of HSLA A709 steel under different environmental conditions. Journal Wuhan University of Technology, Materials Science Edition, 2010, 25, 897-902.	0.4	2
60	Behaviour of S 355JO steel subjected to uniaxial stress at lowered and elevated temperatures and creep. Bulletin of Materials Science, 2010, 33, 475-481.	0.8	15
61	Shear stress analysis in engineering beams using deplanation field of special 2-D finite elements. Meccanica, 2010, 45, 227-235.	1.2	9
62	A dissipation model for cyclic non-associative thermoplasticity at finite strains. Mechanics Research Communications, 2010, 37, 510-514.	1.0	5
63	Structural Steel ASTM A709â€"Behavior at Uniaxial Tests Conducted at Lowered and Elevated Temperatures, Short-Time Creep Response, and Fracture Toughness Calculation. Journal of Engineering Mechanics - ASCE, 2010, 136, 1083-1089.	1.6	24
64	50CrMo4 Steel-Determination of Mechanical Properties at Lowered and Elevated Temperatures, Creep Behavior, and Fracture Toughness Calculation. Journal of Engineering Materials and Technology, Transactions of the ASME, 2010, 132, .	0.8	13
65	Nonlinear kinematic hardening in coupled thermoplasticity. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2009, 499, 275-278.	2.6	5
66	Creep behavior of high-strength low-alloy steel at elevated temperatures. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2009, 499, 23-27.	2.6	33
67	Tool Material Behavior at Elevated Temperatures. Materials and Manufacturing Processes, 2009, 24, 758-762.	2.7	23
68	FE modelling of multi-walled carbon nanotubes. Estonian Journal of Engineering, 2009, 15, 77.	0.3	15
69	Comparison of Both Creep Resistance and Material Properties of High-Strength Low-Alloy Steel and Stainless Steel. Journal of Testing and Evaluation, 2009, 37, 358-363.	0.4	0
70	Finite-element modelling and shear stress analysis of engineering structural elements. Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering, 2008, 222, 861-872.	0.7	1
71	Coupled Thermoplasticity with Temperature Dependent Properties. Journal of the Mechanical Behavior of Materials, 2004, 15, 419-426.	0.7	0
72	Associative coupled thermoplasticity at finite strain with temperature-dependent material parameters. International Journal of Plasticity, 2004, 20, 1851-1874.	4.1	48

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73	Finite Elastoplasticity in Plane Strain Cold Rolling Problem. , 2002, , 425-432.		0
74	Comparison of Measured and Computed Contact Pressure Distribution in Cold Sheet Rolling Process. , 1999, , 337-344.		0
75	Multiscale Modeling of Nanocomposite Structures with Defects. Key Engineering Materials, 0, 577-578, 141-144.	0.4	0
76	Comparison of Material Properties and Creep Behavior of 20MnCr5 and S275JR Steels. Materials Science Forum, 0, 762, 47-54.	0.3	3
77	Dynamic behavior of nanobeams under axial loads: Integral elasticity modeling and sizeâ€dependent eigenfrequencies assessment. Mathematical Methods in the Applied Sciences, 0, , .	1.2	5
78	Reducing computational time for FEM postprocessing through the use of feedforward neural networks. , 0, , .		0