

Mykola Lugovy

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	ZrB ₂ , HfB ₂ , OsB ₂ and IrB ₂ Boride Ceramics: Processing, Structure, and Properties. , 2021, , 200-215.		0
2	Solid solution strengthening in multicomponent fcc and bcc alloys: Analytical approach. Progress in Natural Science: Materials International, 2021, 31, 95-104.	1.8	29
3	Effect of Loading and Heating History on Deformation of LaCoO ₃ . Materials, 2021, 14, 3543.	1.3	2
4	Residual stress distribution in solid oxide fuel cells: anode-electrolyte and anode-electrolyte-cathode systems. SN Applied Sciences, 2020, 2, 1.	1.5	2
5	Scattered and linked microcracks in solid oxide fuel cell electrolyte. Journal of Power Sources, 2020, 450, 227701.	4.0	1
6	Spark Plasma Sintered B ₄ C-SiC Structural, Thermal, Electrical and Mechanical Properties. Materials, 2020, 13, 1612.	1.3	22
7	Room temperature R-curve and stable crack growth behaviour of ZrB ₂ -SiC ceramic composites. Advances in Applied Ceramics, 2019, 118, 169-182.	0.6	6
8	High temperature stiffening of ferroelastic LaCoO ₃ . Journal of the European Ceramic Society, 2019, 39, 3338-3343.	2.8	4
9	Comparative study of static and cyclic fatigue of ZrB ₂ -SiC ceramic composites. Journal of the European Ceramic Society, 2018, 38, 1128-1135.	2.8	5
10	Time and frequency dependent mechanical properties of LaCoO ₃ -based perovskites: Internal friction and negative creep. Journal of Applied Physics, 2018, 124, .	1.1	4
11	Time and frequency dependent mechanical properties of LaCoO ₃ -based perovskites: Neutron diffraction and domain mobility. Journal of Applied Physics, 2018, 124, .	1.1	3
12	Non-congruence of high-temperature mechanical and structural behaviors of LaCoO ₃ based perovskites. Journal of the European Ceramic Society, 2017, 37, 1563-1576.	2.8	10
13	Cyclic fatigue effect in particulate ceramic composites. Journal of the European Ceramic Society, 2016, 36, 3257-3266.	2.8	3
14	Mechanical properties and residual stresses in ZrB ₂ -SiC spark plasma sintered ceramic composites. Journal of the European Ceramic Society, 2016, 36, 1527-1537.	2.8	49
15	Temperature dependence of elastic properties of ZrB ₂ -SiC composites. Ceramics International, 2016, 42, 2439-2445.	2.3	23
16	Hexagonal OsB ₂ : Sintering, microstructure and mechanical properties. Journal of Alloys and Compounds, 2015, 634, 168-178.	2.8	18
17	<i>In-situ</i> neutron diffraction of LaCoO ₃ perovskite under uniaxial compression. II. Elastic properties. Journal of Applied Physics, 2014, 116, .	1.1	11
18	<i>In-situ</i> neutron diffraction of LaCoO ₃ perovskite under uniaxial compression. I. Crystal structure analysis and texture development. Journal of Applied Physics, 2014, 116, .	1.1	10

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19	Time Dependent Mechanical Properties of ZrB ₂ -SiC Ceramic Composites: Room Temperature Fatigue Parameters. <i>Science of Advanced Materials</i> , 2014, 6, 844-852.	0.1	8
20	Room temperature fatigue of ZrB ₂ -SiC ceramic composites. <i>Ceramics International</i> , 2013, 39, 9187-9194.	2.3	10
21	Powder Metallurgy Production of Ti-5.4 wt.% Si Alloy. I. Simulating the Formation of Powder Particles by Centrifugal Atomization. <i>Powder Metallurgy and Metal Ceramics</i> , 2013, 52, 409-416.	0.4	9
22	Mechanical properties of ZrB ₂ -SiC ceramic composites: room temperature instantaneous behaviour. <i>Advances in Applied Ceramics</i> , 2013, 112, 9-16.	0.6	30
23	Residual Stress and Biaxial Strength in Sc ₂ O ₃ -CeO ₂ -ZrO ₂ /Y ₂ O ₃ -ZrO ₂ Layered Electrolytes. <i>Fuel Cells</i> , 2013, 13, 1068-1075.		
24	Mechanical behavior and failure mechanisms of boron carbide based three-layered laminates with weak interfaces. <i>Ceramics International</i> , 2011, 37, 2255-2261.	2.3	12
25	A further insight into spherical indentation: Ring crack formation in a brittle La _{0.8} Sr _{0.2} Ga _{0.8} Mg _{0.2} O ₃ perovskite. <i>Acta Materialia</i> , 2011, 59, 4425-4436.	3.8	4
26	Two-layered Cantilever Sensor: A Simplified Mechanical Analysis of Dimensional Limitations. <i>Mechanics of Advanced Materials and Structures</i> , 2010, 17, 280-286.	1.5	1
27	Boron Carbide/Boron Carbide-Carbon Nanofibers Laminates with Weak Interfaces. <i>NATO Science for Peace and Security Series B: Physics and Biophysics</i> , 2010, , 1-11.	0.2	1
28	All Ceramic Cantilever Sensors with Boron Carbide Layer: Advantages and Dimensional Limitations. <i>NATO Science for Peace and Security Series B: Physics and Biophysics</i> , 2010, , 13-27.	0.2	0
29	Dual ferroelasticity of lanthanum chromium-based multicomponent solid solution perovskite. <i>Scripta Materialia</i> , 2009, 60, 783-786.	2.6	1
30	Microcracking in electron beam deposited scandia-stabilised zirconia electrolyte. <i>Journal of Power Sources</i> , 2009, 194, 950-960.	4.0	6
31	On thermal and vibrational properties of LaGaO ₃ single crystals. <i>Acta Materialia</i> , 2009, 57, 2984-2992.	3.8	9
32	Thermal and mechanical properties of LaCoO ₃ and La _{0.8} Ca _{0.2} CoO ₃ perovskites. <i>Journal of Power Sources</i> , 2008, 182, 230-239.	4.0	40
33	Effects of rolling and hot pressing on mechanical properties of boron carbide-based ceramics. <i>Journal of Materials Science</i> , 2008, 43, 5942-5947.	1.7	6
34	Room-temperature creep of LaCoO_3 perovskites: Equilibrium strain under compression. <i>Physical Review B</i> , 2008, 78, .	1.3	25
35	Development of Failure Tolerant Multi-Layer Silicon Nitride Ceramics: Review from Macro to Micro Layered Structures. <i>Key Engineering Materials</i> , 2007, 333, 117-126.	0.4	0
36	Structural evolution of LaCrO ₃ thin film: Part II. Elasto-plastic properties by nanoindentation. <i>Thin Solid Films</i> , 2007, 515, 2847-2853.	0.8	5

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37	Si ₃ N ₄ /TiN based micro-laminates with rising R-curve behaviour. Composites Part B: Engineering, 2006, 37, 459-465.	5.9	19
38	SiC/SiC woven fabric laminates: Design, manufacturing, mechanical properties. Composites Part B: Engineering, 2006, 37, 524-529.	5.9	11
39	Structural evolution of La ₂ O ₃ /Cr ₂ O ₃ thin films: Part I. Microstructure and phase development. Thin Solid Films, 2006, 515, 1741-1747.	0.8	8
40	Anisotropy of destruction viscosity of hot-pressed silicon nitride. Refractories and Industrial Ceramics, 2006, 47, 228-233.	0.2	1
41	Nanoindentation of LaCrO ₃ thin films. Journal of Materials Science, 2006, 41, 3105-3111.	1.7	6
42	Design of tough ceramic laminates by residual stresses control. , 2006, , 178-215.		1
43	Inelastic deformation behavior of La _{0.6} Sr _{0.4} FeO ₃ perovskite. Journal of Applied Physics, 2006, 100, 026102.	1.1	18
44	Apparent fracture toughness of Si ₃ N ₄ -based laminates with residual compressive or tensile stresses in surface layers. Acta Materialia, 2005, 53, 289-296.	3.8	115
45	Design of Si ₃ N ₄ -based ceramic laminates by the residual stresses. Journal of Materials Science, 2005, 40, 5443-5450.	1.7	23
46	Robust design and manufacturing of ceramic laminates with controlled thermal residual stresses for enhanced toughness. Journal of Materials Science, 2005, 40, 5483-5490.	1.7	42
47	Fracture Resistance of Residually-Stressed Ceramic Laminated Structures. Strength of Materials, 2004, 36, 291-303.	0.2	2
48	Residual stress relaxation processes in thermal barrier coatings under tension at high temperature. Surface and Coatings Technology, 2004, 184, 331-337.	2.2	11
49	Crack arrest in Si ₃ N ₄ -based layered composites with residual stress. Composites Science and Technology, 2004, 64, 1947-1957.	3.8	53
50	Bifurcation of Cracks in Laminated Ceramic Composites with Rigid Interlaminar Bonds. Strength of Materials, 2003, 35, 248-259.	0.2	1
51	Boron Carbide-Silicon Carbide Laminated Ceramics for Ballistic Protection. , 2003, , 319.		1
52	Crack bifurcation features in laminar specimens with fixed total thickness. Composites Science and Technology, 2002, 62, 819-830.	3.8	27
53	Statistical Evaluation of Microcracking of Inelastic Ceramics. Strength of Materials, 2002, 34, 349-358.	0.2	1
54	Local stochastic analysis of microcracking and non-elastic behavior of ceramics. Theoretical and Applied Fracture Mechanics, 2001, 36, 115-123.	2.1	6

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55	Analysis of Layered Composites With Crack Deflection Controlled by Layer Thickness. , 2001, , 273-280.		1
56	Principles of the design of highly porous layered composites working in the bending mode. Powder Metallurgy and Metal Ceramics, 2000, 39, 171-177.	0.4	2
57	Microstructural engineering of ceramic-matrix layered composites: Effect of grain-size dispersion on single-phase ceramic strength. Composites Science and Technology, 1999, 59, 283-289.	3.8	17
58	Macrostructural engineering of ceramic-matrix layered composites. Composites Science and Technology, 1999, 59, 1429-1437.	3.8	28
59	Fracture resistance and strength of two-phase WCâ€“Ni alloy. Theoretical and Applied Fracture Mechanics, 1999, 31, 85-90.	2.1	2
60	A method of determining the mechanical properties of a two-layer composite consisting of a steel matrix and a plasma spray coating based on amorphizing powders. Powder Metallurgy and Metal Ceramics, 1999, 38, 224-227.	0.4	3
61	Influence of random pore-type mesodeflects on the strength of brittle materials. Powder Metallurgy and Metal Ceramics, 1999, 38, 198-201.	0.4	3
62	Structural sensitivity of the ultimate mechanical properties of biporous materials prepared using a pore-former. Powder Metallurgy and Metal Ceramics, 1999, 38, 403-407.	0.4	2
63	Microplasticity behavior of porous nickel. Powder Metallurgy and Metal Ceramics, 1998, 37, 529-534.	0.4	1
64	Elastic modulus of highly porous nickel-based materials. Powder Metallurgy and Metal Ceramics, 1997, 36, 203-206.	0.4	4
65	Statistical failure model of materials with micro-inhomogeneity. Theoretical and Applied Fracture Mechanics, 1997, 26, 35-40.	2.1	10
66	Effect of the pore space structure in a biporous material on the elastic modulus. Phenomenological analysis. Powder Metallurgy and Metal Ceramics, 1995, 33, 628-632.	0.4	1
67	Effect of porosity on the fracture stress of powder materials in the ductile fracture mechanism. Soviet Powder Metallurgy and Metal Ceramics (English Translation of Poroshkovaya Metallurgiya), 1992, 31, 451-455.	0.1	2
68	Effects of high-speed electrothermal treatment on the mechanical characteristics of VK and VN hard alloys. Soviet Powder Metallurgy and Metal Ceramics (English Translation of Poroshkovaya) Tj ETQq0 0 0 rgBT /Ovedack 10 Tf 50 217 T		