

Tamás Csanádi

List of Publications by Year in descending order

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Version: 2024-02-01

49
papers

2,068
citations

279798

23
h-index

243625

44
g-index

49
all docs

49
docs citations

49
times ranked

1582
citing authors

#	ARTICLE	IF	CITATIONS
1	Micro-scale fracture toughness of textured alumina ceramics. Journal of the European Ceramic Society, 2023, 43, 2943-2950.	5.7	6
2	Synthesis and densification of (Zr-Hf-Nb-Ta)C-Co high entropy cermet prepared by pressureless melt infiltration using spark plasma sintering. Journal of Alloys and Compounds, 2022, 900, 163412.	5.5	11
3	Synthesis, microstructure, and mechanical properties of novel high entropy carbonitrides. Acta Materialia, 2022, 231, 117887.	7.9	31
4	The role of Cr addition on the processing and mechanical properties of high entropy carbides. Journal of the European Ceramic Society, 2022, 42, 5273-5279.	5.7	13
5	Effect of alumina and silica content in the calcium aluminosilicoferrite $\text{Ca}_2(\text{Ca,Fe,Mg})_6(\text{Fe,Si,Al})_6\text{O}_{20}$ bonding phase on the strength of iron ore sinter. Materials Chemistry and Physics, 2021, 257, 123733.	4.0	1
6	Nanoindentation and tribology of a (Hf-Ta-Zr-Nb-Ti)C high-entropy carbide. Journal of the European Ceramic Society, 2021, 41, 5417-5426.	5.7	60
7	Hardness anisotropy and active slip systems in a (Hf-Ta-Zr-Nb)C high-entropy carbide during nanoindentation. International Journal of Refractory Metals and Hard Materials, 2021, 100, 105646.	3.8	13
8	Anisotropic dislocation nucleation in ZrB ₂ grains and deformation behaviour of constituents of ZrB ₂ -SiC and ZrB ₂ -B ₄ C composites during nanoindentation. Journal of the European Ceramic Society, 2020, 40, 2674-2682.	5.7	11
9	Deformation and fracture of WC grains and grain boundaries in a WC-Co hardmetal during microcantilever bending tests. International Journal of Refractory Metals and Hard Materials, 2020, 87, 105163.	3.8	22
10	The Influence of the Third Element on Nano-Mechanical Properties of Iron Borides FeB and Fe ₂ B Formed in Fe-B-X (X = C, Cr, Mn, V, W, Mn + V) Alloys. Materials, 2020, 13, 4155.	2.9	2
11	Enhanced Hardness in High-Entropy Carbides through Atomic Randomness. Advanced Theory and Simulations, 2020, 3, 2000111.	2.8	68
12	Micro scale fracture strength of grains and grain boundaries in polycrystalline La-doped $\text{La}_2\text{-Si}_3\text{N}_4$ ceramics. Journal of the European Ceramic Society, 2020, 40, 4783-4791.	5.7	9
13	Small scale fracture and strength of high-entropy carbide grains during microcantilever bending experiments. Journal of the European Ceramic Society, 2020, 40, 4774-4782.	5.7	32
14	Strength enhancement and slip behaviour of high-entropy carbide grains during micro-compression. Scientific Reports, 2019, 9, 10200.	3.3	81
15	Synthesis and Mechanical Testing of Calcium Aluminosilicoferrite Crystals with High Alumina Content. Metals, 2019, 9, 906.	2.3	1
16	Anomalous slip of ZrB ₂ ceramic grains during in-situ micropillar compression up to 500 °C. International Journal of Refractory Metals and Hard Materials, 2019, 80, 270-276.	3.8	7
17	Microstructure and mechanical behavior of dissimilar AISI 304L/WC-Co cermet rotary friction welds. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2019, 758, 36-46.	5.6	28
18	Small-Scale Mechanical Testing of Cemented Carbides from the Micro- to the Nano-Level: A Review. Metals, 2019, 9, 502.	2.3	18

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19	Correlation between strain-rate sensitivity and viscous properties derived from dynamic nanoindentation of ultrafine-grained Al [~] Zn alloys. MRS Communications, 2019, 9, 310-314.	1.8	4
20	The structural and mechanical characterization of TiC and TiC/Ti thin films grown by DC magnetron sputtering. Journal of the European Ceramic Society, 2018, 38, 2886-2892.	5.7	13
21	Investigation of WC decarburization effect on the microstructure and wear behavior of WC-Ni hardfacing under dry and alkaline wet conditions. Materials Chemistry and Physics, 2018, 208, 237-247.	4.0	26
22	Anisotropic slip activation via homogeneous dislocation nucleation in ZrB ₂ ceramic grains during nanoindentation. Scripta Materialia, 2018, 152, 89-93.	5.2	13
23	Investigation of anisotropic mechanical properties of textured K ₂ Sr ₂ Nb ₅ O ₁₅ ceramics via ab-initio calculation and nanoindentation. Journal of the American Ceramic Society, 2018, 101, 5138-5150.	3.8	20
24	Microstructure of (Hf-Ta-Zr-Nb)C high-entropy carbide at micro and nano/atomic level. Journal of the European Ceramic Society, 2018, 38, 4303-4307.	5.7	167
25	Processing and Properties of High-Entropy Ultra-High Temperature Carbides. Scientific Reports, 2018, 8, 8609.	3.3	506
26	Mechanical Properties of Hard W-C Coating on Steel Substrate Deduced from Nanoindentation and Finite Element Modeling. Experimental Mechanics, 2017, 57, 1057-1069.	2.0	23
27	Nanoindentation and tribology of VC, NbC and ZrC refractory carbides. Journal of the European Ceramic Society, 2017, 37, 4371-4377.	5.7	52
28	Nanoindentation derived elastic constants of carbon fibres and their nanostructural based predictions. Carbon, 2017, 119, 314-325.	10.3	41
29	Orientation-dependent nanoscratch resistance of zirconium diboride ceramic grains. International Journal of Refractory Metals and Hard Materials, 2017, 65, 45-51.	3.8	10
30	Slip activation controlled nanohardness anisotropy of ZrB ₂ ceramic grains. Acta Materialia, 2017, 140, 452-464.	7.9	25
31	Effect of brazing current on microstructure and mechanical behavior of WC-Co/AISI 1020 steel TIG brazed joint. International Journal of Refractory Metals and Hard Materials, 2017, 64, 210-218.	3.8	34
32	Nanoindentation induced deformation anisotropy in β -Si ₃ N ₄ ceramic crystals. Journal of the European Ceramic Society, 2016, 36, 3059-3066.	5.7	23
33	Ceramic TiC/a:C protective nanocomposite coatings: Structure and composition versus mechanical properties and tribology. Ceramics International, 2016, 42, 12215-12220.	4.8	33
34	Plasticity in ZrB ₂ micropillars induced by anomalous slip activation. Journal of the European Ceramic Society, 2016, 36, 389-394.	5.7	27
35	Nanohardness and elastic anisotropy of ZrB ₂ crystals. Journal of the European Ceramic Society, 2016, 36, 239-242.	5.7	31
36	Anisotropic nanoscratch resistance of WC grains in WC-Co composite. International Journal of Refractory Metals and Hard Materials, 2015, 51, 188-191.	3.8	16

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37	Deformation and Fracture of Silicon Nitride Micropillars. Journal of the American Ceramic Society, 2015, 98, 374-377.	3.8	12
38	Orientation-dependent hardness and nanoindentation-induced deformation mechanisms of WC crystals. Acta Materialia, 2015, 83, 397-407.	7.9	107
39	Indentation hardness and fatigue of the constituents of WC-Co composites. International Journal of Refractory Metals and Hard Materials, 2015, 49, 178-183.	3.8	19
40	Characterization of stress-strain relationships in Al over a wide range of testing temperatures. International Journal of Plasticity, 2014, 54, 178-192.	8.8	21
41	Indentation fatigue of WC grains in WC-Co composite. Journal of the European Ceramic Society, 2014, 34, 3407-3412.	5.7	32
42	Deformation characteristics of WC micropillars. Journal of the European Ceramic Society, 2014, 34, 4099-4103.	5.7	61
43	Strain rate sensitivity studies in an ultrafine-grained Al-30wt.% Zn alloy using micro- and nanoindentation. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2012, 543, 117-120.	5.6	92
44	Plastic behavior of fcc metals over a wide range of strain: Macroscopic and microscopic descriptions and their relationship. Acta Materialia, 2011, 59, 2385-2391.	7.9	34
45	Plastic behavior of face-centered-cubic metals over a wide range of strain. Acta Materialia, 2010, 58, 5015-5021.	7.9	28
46	Microstructure and strength of severely deformed fcc metals. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2007, 462, 86-90.	5.6	91
47	Flow processes at low temperatures in ultrafine-grained aluminum. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2006, 434, 326-334.	5.6	70
48	The Effect of Grain Boundary Sliding and Strain Rate Sensitivity on the Ductility of Ultrafine-Grained Materials. Materials Science Forum, 0, 667-669, 677-682.	0.3	17
49	Nanoindentation and AFM Studies on Tungsten Carbide Crystals in WC-Co Hardmetal. Key Engineering Materials, 0, 606, 107-110.	0.4	6