

Katalin Balázs

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/6668642/publications.pdf>

Version: 2024-02-01

39
papers

573
citations

567281

15
h-index

642732

23
g-index

39
all docs

39
docs citations

39
times ranked

743
citing authors

#	ARTICLE	IF	CITATIONS
1	Application of sputtered ceramic TiC/a:C thin films with different structures by changing the deposition parameters. International Journal of Applied Ceramic Technology, 2022, 19, 753-761.	2.1	2
2	Examination of the Hydrogen Incorporation into Radio Frequency-Sputtered Hydrogenated SiNx Thin Films. Coatings, 2021, 11, 54.	2.6	6
3	Silicon Nitride and Hydrogenated Silicon Nitride Thin Films: A Review of Fabrication Methods and Applications. Materials, 2021, 14, 5658.	2.9	22
4	Microstructure and Fracture Mechanism Investigation of Porous Silicon Nitrideâ€Zirconiaâ€Graphene Composite Using Multi-Scale and In-Situ Microscopy. Nanomaterials, 2021, 11, 285.	4.1	3
5	Processing of Al2O3-AlN Ceramics and Their Structural, Mechanical, and Tribological Characterization. Materials, 2021, 14, 6055.	2.9	5
6	Comparison of the Morphological and Structural Characteristic of Bioresorbable and Biocompatible Hydroxyapatite-Loaded Biopolymer Composites. Nanomaterials, 2021, 11, 3194.	4.1	4
7	Composition, Structure and Mechanical Properties of Industrially Sputtered Taâ€Bâ€C Coatings. Coatings, 2020, 10, 853.	2.6	5
8	Influence of Graphene and Graphene Oxide on Properties of Spark Plasma Sintered Si3N4 Ceramic Matrix. Ceramics, 2020, 3, 40-50.	2.6	12
9	Graphene added multilayer ceramic sandwich (GMCS) composites: Structure, preparation and properties. Journal of the European Ceramic Society, 2020, 40, 4792-4798.	5.7	12
10	Properties of MWCNTs added Si3N4 composites processed from oxidized silicon nitride powders. Processing and Application of Ceramics, 2020, 14, 25-31.	0.8	3
11	On the origin of multilayered structure of W-B-C coatings prepared by non-reactive magnetron sputtering from a single segmented target. Surface and Coatings Technology, 2019, 377, 124864.	4.8	8
12	Microstructural and magnetic characteristics of ceramic dispersion strengthened sintered stainless steels after thermal ageing. Fusion Engineering and Design, 2019, 145, 46-53.	1.9	4
13	Magnetron sputtered TiC/a:C nanocomposite thin films: Deposition parameters vs. properties. Vacuum, 2019, 164, 121-125.	3.5	5
14	The role of the attrition milling on the grain size and distribution of the carbon nanotubes in YSZ powders. Boletin De La Sociedad Espanola De Ceramica Y Vidrio, 2019, 58, 126-133.	1.9	4
15	The effect of graphene nanoplatelet thickness on the fracture toughness of Si3N4 composites. Ceramics International, 2019, 45, 6858-6862.	4.8	26
16	The influence of carbon nanotube addition on the phase composition, microstructure and mechanical properties of 316L stainless steel consolidated by spark plasma sintering. Journal of Materials Research and Technology, 2019, 8, 1141-1149.	5.8	15
17	Influence of structure on the hardness and the toughening mechanism of the sintered 8YSZ/MWCNTs composites. Ceramics International, 2019, 45, 5058-5065.	4.8	19
18	Examination of novel electrospayed biogenic hydroxyapatite coatings on si3n4 and Si3N4/MWCNT ceramic composite. Processing and Application of Ceramics, 2019, 13, 132-138.	0.8	4

#	ARTICLE	IF	CITATIONS
19	Research on Technical Ceramics and their Industrial Application: Preparation Techniques and Properties of Transparent AlON Ceramics. Acta Materialia Transylvanica, 2019, 2, 7-12.	0.0	1
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	Effect of the oxidization of Si ₃ N ₄ powder on the microstructural and mechanical properties of hot isostatic pressed silicon nitride. Ceramics International, 2018, 44, 14601-14609.	4.8	20
22	Examination of milled h-BN addition on sintered Si ₃ N ₄ /h-BN ceramic composites. Processing and Application of Ceramics, 2018, 12, 357-365.	0.8	3
23	Si ₃ N ₄ /graphene nanocomposites for tribological application in aqueous environments prepared by attritor milling and hot pressing. Journal of the European Ceramic Society, 2017, 37, 3797-3804.	5.7	39
24	Preparation of iron tungstate (FeWO ₄) nanosheets by hydrothermal method. Materials Research Bulletin, 2017, 95, 563-569.	5.2	29
25	Highly wear-resistant and low-friction Si ₃ N ₄ composites by addition of graphene nanoplatelets approaching the 2D limit. Scientific Reports, 2017, 7, 10087.	3.3	33
26	Ceramic TiC/a:C protective nanocomposite coatings: Structure and composition versus mechanical properties and tribology. Ceramics International, 2016, 42, 12215-12220.	4.8	33
27	TiC crystallite formation and the role of interfacial energies on the composition during the deposition process of TiC/a:C thin films. Surface and Coatings Technology, 2016, 302, 410-419.	4.8	15
28	High orientation degree of graphene nanoplatelets in silicon nitride composites prepared by spark plasma sintering. Ceramics International, 2016, 42, 1002-1006.	4.8	44
29	Tribological characterisation of silicon nitride/multilayer graphene nanocomposites produced by HIP and SPS technology. Tribology International, 2016, 93, 269-281.	5.9	39
30	Spark plasma sintering of Si ₃ N ₄ /multilayer graphene composites. Open Chemistry, 2015, 13, .	1.9	24
31	Sputtered nanocrystalline ceramic TiC/amorphous C thin films as potential materials for medical applications. Ceramics International, 2015, 41, 5863-5871.	4.8	16
32	Spark plasma sintering of graphene reinforced hydroxyapatite composites. Ceramics International, 2015, 41, 3647-3652.	4.8	42
33	Examination of nanocrystalline TiC/amorphous C deposited thin films. Journal of the European Ceramic Society, 2014, 34, 3421-3425.	5.7	11
34	Comparative Study of hydroxyapatite prepared from seashells and eggshells as a bone graft material. Tissue Engineering and Regenerative Medicine, 2014, 11, 113-120.	3.7	30
35	The influence of sintering on the dispersion of carbon nanotubes in ceramic matrix composites. Chemical Physics Letters, 2014, 614, 148-150.	2.6	8
36	Mechanical Behavior of Bioactive TiC Nanocomposite Thin Films. Materials Science Forum, 2012, 729, 296-301.	0.3	4

#	ARTICLE	IF	CITATIONS
37	Influence of Microstructure on Mechanical Response of Silicon Nitride Ceramic Composites in Nano-, Micro- and Macro-Volume of Material. Key Engineering Materials, 2009, 409, 346-349.	0.4	0
38	The Effect of Neutron Irradiation on the Mechanical Properties of Advanced Silicon Nitride Nanocomposites. Key Engineering Materials, 2009, 409, 237-243.	0.4	1
39	Biopolymer-Hydroxyapatite Scaffolds for Advanced Prosthetics. Composite Interfaces, 2009, 16, 191-200.	2.3	9