Katalin BalÃ¡zsi

List of Publications by Year
in descending order

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39	573	567281	642732
papers	citations	15 h-index	23 g-index

39	39	39	743
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	High orientation degree of graphene nanoplatelets in silicon nitride composites prepared by spark plasma sintering. Ceramics International, 2016, 42, 1002-1006.	4.8	44
2	Spark plasma sintering of graphene reinforced hydroxyapatite composites. Ceramics International, 2015, 41, 3647-3652.	4.8	42
3	Tribological characterisation of silicon nitride/multilayer graphene nanocomposites produced by HIP and SPS technology. Tribology International, 2016, 93, 269-281.	5.9	39
4	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
5	Ceramic TiC/a:C protective nanocomposite coatings: Structure and composition versus mechanical properties and tribology. Ceramics International, 2016, 42, 12215-12220.	4.8	33
6	Highly wear-resistant and low-friction Si3N4 composites by addition of graphene nanoplatelets approaching the 2D limit. Scientific Reports, 2017, 7, 10087.	3.3	33
7	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
8	Preparation of iron tungstate (FeWO4) nanosheets by hydrothermal method. Materials Research Bulletin, 2017, 95, 563-569.	5.2	29
9	The effect of graphene nanoplatelet thickness on the fracture toughness of Si3N4 composites. Ceramics International, 2019, 45, 6858-6862.	4.8	26
10	Spark plasma sintering of Si₃N₄/multilayer graphene composites. Open Chemistry, 2015, 13, .	1.9	24
11	Silicon Nitride and Hydrogenated Silicon Nitride Thin Films: A Review of Fabrication Methods and Applications. Materials, 2021, 14, 5658.	2.9	22
12	Effect of the oxidization of Si3N4 powder on the microstructural and mechanical properties of hot isostatic pressed silicon nitride. Ceramics International, 2018, 44, 14601-14609.	4.8	20
13	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
14	Sputtered nanocrystalline ceramic TiC/amorphous C thin films as potential materials for medical applications. Ceramics International, 2015, 41, 5863-5871.	4.8	16
15	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
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	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
18	Influence of Graphene and Graphene Oxide on Properties of Spark Plasma Sintered Si3N4 Ceramic Matrix. Ceramics, 2020, 3, 40-50.	2.6	12

#	Article	IF	Citations
19	Graphene added multilayer ceramic sandwich (GMCS) composites: Structure, preparation and properties. Journal of the European Ceramic Society, 2020, 40, 4792-4798.	5.7	12
20	Examination of nanocrystalline TiC/amorphous C deposited thin films. Journal of the European Ceramic Society, 2014, 34, 3421-3425.	5.7	11
21	Biopolymer-Hydroxyapatite Scaffolds for Advanced Prosthetics. Composite Interfaces, 2009, 16, 191-200.	2.3	9
22	The influence of sintering on the dispersion of carbon nanotubes in ceramic matrix composites. Chemical Physics Letters, 2014, 614, 148-150.	2.6	8
23	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
24	Examination of the Hydrogen Incorporation into Radio Frequency-Sputtered Hydrogenated SiNx Thin Films. Coatings, 2021, 11, 54.	2.6	6
25	Magnetron sputtered TiC/a:C nanocomposite thin films: Deposition parameters vs. properties. Vacuum, 2019, 164, 121-125.	3.5	5
26	Composition, Structure and Mechanical Properties of Industrially Sputtered Taâ€“Bâ€“C Coatings. Coatings, 2020, 10, 853.	2.6	5
27	Processing of Al2O3-AlN Ceramics and Their Structural, Mechanical, and Tribological Characterization. Materials, 2021, 14, 6055.	2.9	5
28	Mechanical Behavior of Bioactive TiC Nanocomposite Thin Films. Materials Science Forum, 2012, 729, 296-301.	0.3	4
29	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
30	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
31	Examination of novel electrosprayed biogenic hydroxyapatite coatings on si3n4 and Si3N4/MWCNT ceramic composite. Processing and Application of Ceramics, 2019, 13, 132-138.	0.8	4
32	Comparison of the Morphological and Structural Characteristic of Bioresorbable and Biocompatible Hydroxyapatite-Loaded Biopolymer Composites. Nanomaterials, 2021, 11, 3194.	4.1	4
33	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
34	Examination of milled h-BN addition on sintered Si3N4/h-BN ceramic composites. Processing and Application of Ceramics, 2018, 12, 357-365.	0.8	3
35	Properties of MWCNTs added Si3N4 composites processed from oxidized silicon nitride powders. Processing and Application of Ceramics, 2020, 14, 25-31.	0.8	3
36	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

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37	The Effect of Neutron Irradiation on the Mechanical Properties of Advanced Silicon Nitride Nanocomposites. Key Engineering Materials, 2009, 409, 237-243.	0.4	1
38	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
39	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