

Radim Ctvrtlik

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/8128254/publications.pdf>

Version: 2024-02-01

35
papers

398
citations

687220

13
h-index

794469

19
g-index

35
all docs

35
docs citations

35
times ranked

555
citing authors

#	ARTICLE	IF	CITATIONS
1	Plastic instabilities explored via acoustic emission during spherical nanoindentation. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2022, 841, 143019.	2.6	3
2	The discrepancy between the indentation curves obtained by the finite element method calculation with a Berkovich and a conical indenter. <i>Journal of Materials Research</i> , 2022, 37, 1750-1761.	1.2	4
3	Assessment of Mineral Trioxide Aggregate Setting in Simulated Root Canal with Different Root Canal Wall Thickness: In Vitro Study. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 1727.	1.3	1
4	Theoretical and experimental revision of surface acoustic waves on the (100) plane of silicon. <i>Scientific Reports</i> , 2021, 11, 2845.	1.6	10
5	Tribological Behavior of NiTi Alloy Produced by Spark Plasma Sintering Method. <i>Coatings</i> , 2021, 11, 1246.	1.2	14
6	Physical Properties of Modern Reciprocal Endodontic Systems and Fatigue Failure Testing in Simulated Clinical Conditions. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 11160.	1.3	1
7	High frequency acoustic emission monitoring in nano-impact of alumina and partially stabilised zirconia. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020, 780, 139159.	2.6	8
8	High-Resolution Acoustic Emission Monitoring in Nanomechanics. <i>Jom</i> , 2019, 71, 3358-3367.	0.9	11
9	Effect of deposition conditions on physical properties of sputtered silicon oxynitride thin films on float glass. <i>International Journal of Applied Glass Science</i> , 2018, 9, 403-412.	1.0	5
10	Mechanical and optical properties of SiO ₂ thin films deposited on glass. <i>Chemical Papers</i> , 2018, 72, 2143-2151.	1.0	30
11	On the Importance of Combined Scratch/Acoustic Emission Test Evaluation: SiC and SiCN Thin Films Case Study. <i>Coatings</i> , 2018, 8, 196.	1.2	19
12	TiO ₂ Nanotubes on Transparent Substrates: Control of Film Microstructure and Photoelectrochemical Water Splitting Performance. <i>Catalysts</i> , 2018, 8, 25.	1.6	19
13	Effect of Nitrogen Doping and Temperature on Mechanical Durability of Silicon Carbide Thin Films. <i>Scientific Reports</i> , 2018, 8, 10428.	1.6	28
14	Nanocrystalline diamond protects Zr cladding surface against oxygen and hydrogen uptake: Nuclear fuel durability enhancement. <i>Scientific Reports</i> , 2017, 7, 6469.	1.6	16
15	Self-organized transparent 1D TiO ₂ nanotubular photoelectrodes grown by anodization of sputtered and evaporated Ti layers: A comparative photoelectrochemical study. <i>Chemical Engineering Journal</i> , 2017, 308, 745-753.	6.6	31
16	Multifunctional Properties of High-speed Highly Uniform Femtosecond Laser Patterning on Stainless steel. , 2017, , .		0
17	Mechanical Properties and Microstructural Characterization of Amorphous SiC _x N _y Thin Films After Annealing Beyond 1100°C. <i>Journal of the American Ceramic Society</i> , 2016, 99, 996-1005.	1.9	12
18	Structural, optical and mechanical properties of thin diamond and silicon carbide layers grown by low pressure microwave linear antenna plasma enhanced chemical vapour deposition. <i>Diamond and Related Materials</i> , 2016, 69, 13-18.	1.8	20

#	ARTICLE	IF	CITATIONS
19	Tribological Properties of Magnetron Sputtered Amorphous Silicon Carbide and Silicon Carbonitride Coatings. Defect and Diffusion Forum, 2016, 368, 91-94.	0.4	3
20	High Temperature Nanoindentation Testing of Amorphous SiC and B ₄ C Thin Films. Defect and Diffusion Forum, 2016, 368, 115-118.	0.4	0
21	Mechanical properties of amorphous silicon carbonitride thin films at elevated temperatures. Journal of Materials Science, 2015, 50, 1553-1564.	1.7	40
22	Effect of Nitrogen Content on the Mechanical Properties of Amorphous SiCN Films. Key Engineering Materials, 2015, 662, 95-98.	0.4	4
23	Wear Behavior of Hard Dental Tissues and Restorative Materials. Applied Mechanics and Materials, 2013, 486, 72-77.	0.2	1
24	Laser scanning confocal microscopy in materials engineering. Proceedings of SPIE, 2012, , .	0.8	1
25	Allanite-(Nd), CaNdAl ₂ Fe ₂₊ (SiO ₄)(Si ₂ O ₇)O(OH), a new mineral from Askagen, Sweden. American Mineralogist, 2012, 97, 983-988.	0.9	17
26	Structure and properties of plasma sprayed BaTiO ₃ coatings. Ceramics International, 2010, 36, 2155-2162.	2.3	28
27	Mechanical properties of a-C, SiC and Ti-C: H films. International Journal of Materials Research, 2008, 99, 871-875.	0.1	2
28	Hardness and elastic modulus of silicalite-1 crystal twins. Microporous and Mesoporous Materials, 2006, 94, 226-233.	2.2	25
29	Structure and mechanical properties of plasma sprayed coatings of titania and alumina. Journal of the European Ceramic Society, 2006, 26, 3509-3514.	2.8	33
30	Pulsed laser welding of cylindrical profile. , 2005, 5777, 874.		0
31	Pulsed Nd:YAG laser beam profile analyse. , 2005, , .		0
32	<title>Pulsed laser welding of thin metals</title>. , 2004, , .		5
33	Nanoindentation-Induced Phase Transformation in Silicon Thin Films. Key Engineering Materials, 0, 586, 112-115.	0.4	4
34	Wear of Human Enamel and Dentin. Key Engineering Materials, 0, 606, 129-132.	0.4	0
35	Utilization of Acoustic Emission in Scratch Test Evaluation. Key Engineering Materials, 0, 662, 119-122.	0.4	3