

Lorenz S Sigl

List of Publications by Year in descending order

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38
papers

1,878
citations

516710

16
h-index

395702

33
g-index

38
all docs

38
docs citations

38
times ranked

1192
citing authors

#	ARTICLE	IF	CITATIONS
1	On the sintering of molybdenum with two liquid phases. <i>Materialia</i> , 2020, 9, 100600.	2.7	3
2	A method for measuring the high temperature emittance of refractory metal surfaces. <i>International Journal of Refractory Metals and Hard Materials</i> , 2018, 73, 7-12.	3.8	4
3	CFDEM modelling of particle heating and acceleration in cold spraying. <i>International Journal of Refractory Metals and Hard Materials</i> , 2018, 73, 192-198.	3.8	15
4	OpenFOAM Modeling of Particle Heating and Acceleration in Cold Spraying. <i>Journal of Thermal Spray Technology</i> , 2018, 27, 135-144.	3.1	9
5	Fundamental analysis of the influence of powder characteristics in Selective Laser Melting of molybdenum based on a multi-physical simulation model. <i>International Journal of Refractory Metals and Hard Materials</i> , 2018, 72, 1-8.	3.8	42
6	Multi-physical simulation of selective laser melting. <i>Metal Powder Report</i> , 2017, 72, 331-338.	0.1	49
7	Diffusion assisted reactive coating for plasma resistant tungsten surfaces. <i>Metal Powder Report</i> , 2016, 71, 328-332.	0.1	1
8	Metal-supported palladium membranes for hydrogen separation. <i>Powder Metallurgy</i> , 2015, 58, 250-253.	1.7	2
9	Finite element analysis of the high-temperature creep deformation of a TZM heavy duty charge carrier. <i>International Journal of Refractory Metals and Hard Materials</i> , 2015, 53, 104-110.	3.8	3
10	CFY-Stack Technology: The Next Design. <i>ECS Transactions</i> , 2015, 68, 2159-2168.	0.5	10
11	Multi-layer thin-film electrolytes for metal supported solid oxide fuel cells. <i>Journal of Power Sources</i> , 2014, 256, 52-60.	7.8	57
12	CFY-Stacks for Use in Stationary SOFC and SOEC Applications. <i>ECS Transactions</i> , 2013, 57, 89-98.	0.5	11
13	The Status of Metal-Supported SOFC Development and Industrialization at Plansee. <i>ECS Transactions</i> , 2013, 57, 471-480.	0.5	33
14	Long Term Performance of Stacks with Chromium-Based Interconnects (CFY). <i>ECS Transactions</i> , 2013, 57, 2235-2244.	0.5	11
15	Development of metal supported solid oxide fuel cells based on powder metallurgical manufacturing route. <i>Powder Metallurgy</i> , 2013, 56, 382-387.	1.7	13
16	Development of Metal-Supported Solid Oxide Fuel Cells. <i>ECS Transactions</i> , 2011, 35, 343-349.	0.5	19
17	Pulsed thermography of CFC monoblock divertor components. <i>Fusion Engineering and Design</i> , 2009, 84, 1867-1870.	1.9	5
18	Evaluation of the Thermal Diffusivity of Thin Specimens from Laser Flash Data. <i>International Journal of Thermophysics</i> , 2009, 30, 599-607.	2.1	16

#	ARTICLE	IF	CITATIONS
19	Timing right for PM to gear up for competition. Metal Powder Report, 2008, 63, 26-33.	0.1	1
20	When the going gets tough PM gears can cope. Metal Powder Report, 2007, 62, 22-26.	0.1	9
21	DensiForm® Technology for Wrought-Steel-Like Performance of Powder Metal Components. , 2006, , .		5
22	Determination of mechanical properties direct from production components. Powder Metallurgy, 2005, 48, 13-16.	1.7	0
23	Properties of Surface Densified P/M Gears. , 2005, , .		4
24	Thermal conductivity of liquid phase sintered silicon carbide. Journal of the European Ceramic Society, 2003, 23, 1115-1122.	5.7	91
25	Interface characteristics affecting electrical properties of Y-doped SiC. Journal of Materials Research, 2003, 18, 2608-2617.	2.6	53
26	Fractography of critical and subcritical cracks in hard materials. International Journal of Refractory Metals and Hard Materials, 2001, 19, 329-334.	3.8	6
27	Mechanical Properties of Injection Molded B4C-C Ceramics. Journal of Solid State Chemistry, 1997, 133, 68-76.	2.9	77
28	Microcrack toughening in brittle materials containing weak and strong interfaces. Acta Materialia, 1996, 44, 3599-3609.	7.9	39
29	Core/Rim Structure of Liquid-Phase-Sintered Silicon Carbide. Journal of the American Ceramic Society, 1993, 76, 773-776.	3.8	276
30	On the stability of cracks in flexure specimens. International Journal of Fracture, 1991, 51, 241-254.	2.2	9
31	Effects of residual stress and frictional sliding on cracking and pull-out in brittle matrix composites. Mechanics of Materials, 1989, 8, 1-12.	3.2	90
32	The flow stress and hardness of metal-reinforced brittle composites. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 1989, 108, 121-129.	5.6	19
33	Effect of Interface Mechanical Properties on Pullout in a SiC-Fiber-Reinforced Lithium Aluminum Silicate Glass-Ceramic. Journal of the American Ceramic Society, 1989, 72, 525-532.	3.8	255
34	On the fracture toughness of cemented carbides. Acta Metallurgica, 1988, 36, 887-897.	2.1	207
35	On the toughness of brittle materials reinforced with a ductile phase. Acta Metallurgica, 1988, 36, 945-953.	2.1	396
36	A finite element study of crack growth in WC-Co. International Journal of Fracture, 1988, 36, 305-317.	2.2	29

#	ARTICLE	IF	CITATIONS
37	Highly Loaded P/M Gears Produced by Selective Surface Densification. , 0, , .		9
38	Comparison of the Performance and Cost Properties of Automatic Transmission and Four Wheel Drive Transfer Case Planetary Carriers. , 0, , .		0