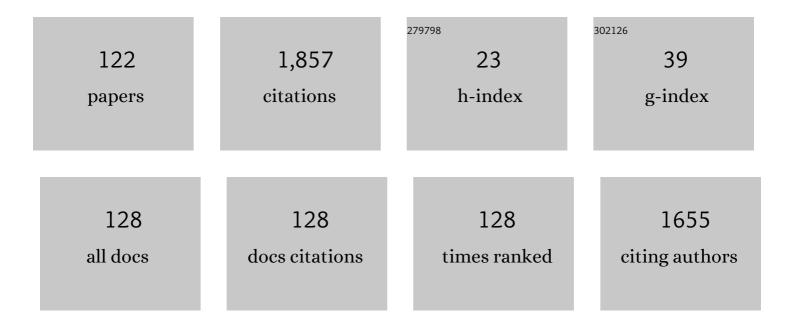
Pavol Hvizdos

List of Publications by Year in descending order

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PANOL HUIZDOS

#	Article	IF	CITATIONS
1	Effect of ZrC nanopowder addition in WC preforms on microstructure and properties of W–ZrC composites prepared by the displacive compensation of porosity (DCP) method. Journal of the Australian Ceramic Society, 2021, 57, 515-523.	1.9	3
2	Ceramic Matrix Composites With Carbon Nanophases: Development, Structure, Mechanical and Tribological Properties and Electrical Conductivity. , 2021, , 116-133.		4
3	Influence of the frequency and flow rate of a pulsating water jet on the wear damage of tantalum. Wear, 2021, 477, 203893.	3.1	17
4	Rotary friction welded C45 to 16NiCr6 steel rods: statistical optimization coupled to mechanical and microstructure approaches. International Journal of Advanced Manufacturing Technology, 2021, 116, 2285-2298.	3.0	15
5	Surface Topography Analysis of Mg-Based Composites with Different Nanoparticle Contents Disintegrated Using Abrasive Water Jet. Materials, 2021, 14, 5471.	2.9	5
6	Effect of Post Weld Heat Treatment on Microstructure and Mechanical Behaviors of Weld Overlay Inconel 182 on 4130 Steel Substrate Using SMAW Process. Metallography, Microstructure, and Analysis, 2021, 10, 567-578.	1.0	1
7	Effect of WC-Co cermet positioning and NiCr interlayer on the microstructure and mechanical response of the dissimilar WC-Co / AISI 304ÂL rotary friction joint. International Journal of Refractory Metals and Hard Materials, 2021, 101, 105653.	3.8	7
8	Wear and Erosion Resistant Ceramic Materials. , 2021, , 416-424.		2
9	Application of the statistical Taguchi method to optimize the properties of WC preforms to produce W-ZrC composites using reactive infiltration by molten Zr2 Cu. International Journal of Modern Physics B, 2020, 34, 2050233.	2.0	0
10	A Taguchi approach to the influence of infiltration parameters on microstructure and properties of W–ZrC composites prepared by the displacive compensation of porosity (DCP) method. Composites Communications, 2020, 20, 100356.	6.3	5
11	Effect of pulsating water jet disintegration on hardness and elasticity modulus of austenitic stainless steel AISI 304L. International Journal of Advanced Manufacturing Technology, 2020, 107, 2719-2730.	3.0	6
12	Influence of secondary phases in A356 MMCs on their mechanical properties at macro- and nanoscale. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2020, 42, 1.	1.6	6
13	Microstructure, fracture behaviour and mechanical properties of conductive alumina based composites manufactured by SPS from graphenated Al2O3 powders. Journal of the European Ceramic Society, 2020, 40, 4818-4824.	5.7	16
14	Preparation, friction, wear, and fracture of the Si3N4-Ag-GNPs composites prepared by SPS. Journal of the European Ceramic Society, 2020, 40, 4853-4859.	5.7	17
15	Mechanical and tribological properties of TiB2-Ti composites prepared by spark plasma sintering. Metallic Materials, 2020, 57, 435-442.	0.3	1
16	Microstructure and tribological behavior of SPS processed Fe/Ti-15wt.%Cu-based metal matrix composites with incorporated waste Ti-chips. Metallic Materials, 2020, 58, 83-91.	0.3	0
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	Mechanical, physical properties and tribological behaviour of silicon carbide composites with addition of carbon nanotubes. International Journal of Refractory Metals and Hard Materials, 2019, 81, 272-280.	3.8	16
20	Study of Ni ₆₃ -Co ₃₇ nanocrystalline electrodeposited alloy as anti-wear coating on mild steel substrate. Materials Research Express, 2019, 6, 126557.	1.6	1
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	Ultrasonically generated pulsed water jet peening of austenitic stainless-steel surfaces. Journal of Manufacturing Processes, 2018, 32, 455-468.	5.9	66
23	Surface integrity of Mg-based nanocomposite produced by Abrasive Water Jet Machining (AWJM). Materials and Manufacturing Processes, 2017, 32, 1707-1714.	4.7	28
24	Mechanical and tribological properties of electrically conductive SiC based cermets. International Journal of Refractory Metals and Hard Materials, 2017, 65, 76-82.	3.8	8
25	Fractography of Advanced Ceramics V "Fractography from MACRO- to NANO-scale― Journal of the European Ceramic Society, 2017, 37, 4241-4242.	5.7	1
26	Microstructure, fracture, electrical properties and machinability of SiC-TiNbC composites. Journal of the European Ceramic Society, 2017, 37, 4315-4322.	5.7	8
27	Wear damage of TiTaCN-Co cermets at room and elevated temperatures. Procedia Structural Integrity, 2017, 5, 1385-1392.	0.8	2
28	Comparison of the influence of acoustically enhanced pulsating water jet on selected surface integrity characteristics of CW004A copper and CW614N brass. Measurement: Journal of the International Measurement Confederation, 2017, 110, 230-238.	5.0	34
29	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
30	The Study of Selected Properties of Ti EB PVD Coating Deposited Onto Inner Tube Surface at Low Temperature. Archives of Metallurgy and Materials, 2016, 61, 67-74.	0.6	3
31	TiTaCN-Co Cermets Prepared by Mechanochemical Technique: Microstructure and Mechanical Properties. Procedia Engineering, 2016, 149, 87-93.	1.2	0
32	Surface Integrity Evaluation of Brass CW614N after Impact of Acoustically Excited Pulsating Water Jet. Procedia Engineering, 2016, 149, 236-244.	1.2	13
33	Effect of Fiber Laser Treating on Magnetic Domains in the Grain-Oriented Silicon Steel: Imaging Domains by Bitter, MFM and Kerr Microscopy. High Temperature Materials and Processes, 2016, 35, 739-744.	1.4	4
34	Tribological behaviour and local mechanical properties of magnesium-alumina composites. Metallic Materials, 2016, 52, 313-319.	0.3	2
35	Structural and nanomechanical properties of sol–gel prepared (K, Na)NbO ₃ thin films. Surface and Interface Analysis, 2015, 47, 1063-1071.	1.8	10
36	Sintered composite materials on the basis of Fe/FePO4-coated powders. Surface and Interface Analysis, 2015, 47, 350-356.	1.8	4

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37	Tribological behaviour and mechanical properties of copper and magnesium based composites treated by severe plastic deformation. International Journal of Materials and Product Technology, 2015, 50, 80.	0.2	3
38	Experimental in-vitro bone cements disintegration with ultrasonic pulsating water jet for revision arthroplasty. Tehnicki Vjesnik, 2015, 22, .	0.2	5
39	Creep Behaviour and Fracture Analysis of MoSi2 Based Composites. High Temperature Materials and Processes, 2015, 34, .	1.4	2
40	Nanoindentation of (Ti,Ta)(C,N)–Co cermets prepared by methods of mechanochemistry. International Journal of Refractory Metals and Hard Materials, 2015, 49, 219-224.	3.8	3
41	Structural and mechanical properties of sol–gel prepared pyrochlore lanthanum niobates. Journal of Materials Science, 2015, 50, 7197-7207.	3.7	7
42	Development of Cold-Rolled Dual-Phase Steels with Tensile Strength Above 1000ÂMPa and Good Bendability. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2015, 46, 4755-4771.	2.2	9
43	Orientation-dependent hardness and nanoindentation-induced deformation mechanisms of WC crystals. Acta Materialia, 2015, 83, 397-407.	7.9	107
44	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
45	Thermal manifestations and nanoindentation of bone cements for orthopaedic surgery. Thermal Science, 2014, 18, 251-258.	1.1	3
46	Multicomponent Thin Films Deposited by PVD ARC and LARC Technology. Medziagotyra, 2014, 20, .	0.2	2
47	Indentation fatigue of WC grains in WC–Co composite. Journal of the European Ceramic Society, 2014, 34, 3407-3412.	5.7	32
48	Effect of solvent on phase composition and particle morphology of lanthanum niobates prepared by polymeric complex sol–gel method. Journal of Sol-Gel Science and Technology, 2014, 69, 272-280.	2.4	13
49	Effect of tantalum content on the microstructure and mechanical behavior of cermets based on (TixTa1â^x)(C0.5N0.5) solid solutions. Materials & Design, 2014, 53, 435-444.	5.1	33
50	Structural properties and phase transformation of sol–gel prepared lanthanum tantalates. Journal of Materials Science, 2014, 49, 8423-8435.	3.7	12
51	Wear damage of Si3N4-graphene nanocomposites at room and elevated temperatures. Journal of the European Ceramic Society, 2014, 34, 3309-3317.	5.7	42
52	Influence of hBN content on mechanical and tribological properties of Si3N4/BN ceramic composites. Journal of the European Ceramic Society, 2014, 34, 3319-3328.	5.7	60
53	Coating Surface Roughness Measurement Made On Coining Dies. Manufacturing Technology, 2014, 14, 309-317.	1.4	11
54	Indentation fatigue of WC–Co cemented carbides. International Journal of Refractory Metals and Hard Materials, 2013, 41, 229-235.	3.8	26

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55	Tribological properties of Si3N4–graphene nanocomposites. Journal of the European Ceramic Society, 2013, 33, 2359-2364.	5.7	125
56	Failure analysis of overhead power line yoke connector. Engineering Failure Analysis, 2013, 33, 66-74.	4.0	8
57	Wear resistance of Al2O3–CNT ceramic nanocomposites at room and high temperatures. Ceramics International, 2013, 39, 5821-5826.	4.8	80
58	Effect of substrate on microstructure and mechanical properties of sol–gel prepared (K, Na)NbO3 thin films. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2013, 178, 254-262.	3.5	19
59	Nanoindentation of WC–Co hardmetals. Journal of the European Ceramic Society, 2013, 33, 2227-2232.	5.7	66
60	Tribological Characteristics of Copper Based Composites with Al2O3 Particles at Various Temperatures. High Temperature Materials and Processes, 2013, 32, 437-442.	1.4	0
61	Plasma nitriding and its influence on contact fatigue of sintered steel. Metallic Materials, 2013, 50, 365-371.	0.3	Ο
62	The effect of surface pre-treatment and coating post-treatment to the properties of TiN coatings. Estonian Journal of Engineering, 2012, 18, 185.	0.4	12
63	Tribological Parameters of Copper-Alumina Composite. Key Engineering Materials, 2012, 527, 191-196.	0.4	1
64	Investigation of thin layers deposited by two PVD techniques on high speed steel produced by powder metallurgy. Applied Surface Science, 2012, 258, 5105-5110.	6.1	17
65	Tribological and electrical properties of ceramic matrix composites with carbon nanotubes. Ceramics International, 2012, 38, 5669-5676.	4.8	52
66	Fracture toughness and toughening mechanisms in graphene platelet reinforced Si3N4 composites. Scripta Materialia, 2012, 66, 793-796.	5.2	191
67	Effect of substrate on phase formation and surface morphology of sol-gel lead-free KNbO3, NaNbO3, and K0.5Na0.5NbO3 thin films. Chemical Papers, 2012, 66, .	2.2	8
68	Effect of sol-gel preparation method on particle morphology in pure and nanocomposite PZT thin films. Chemical Papers, 2011, 65, .	2.2	7
69	Tribological Characteristics of Micro- and Nano-Composites Cu-Al2O3 at Room and Elevated Temperatures. High Temperature Materials and Processes, 2011, 30, .	1.4	1
70	Damage mechanism of AZ61-F Mg alloy with nano-Al2O3 particles. Metallic Materials, 2011, 49, 451-455.	0.3	2
71	Tribological behavior of carbon nanofiber–zirconia composite. Scripta Materialia, 2010, 63, 254-257.	5.2	34
72	Effect of heat treatment on wear damage mechanisms in 3Y-TZP ceramics. Wear, 2010, 269, 26-30.	3.1	14

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73	Wear resistance of hot-pressed Si3N4/SiC micro/nanocomposites sintered with rare-earth oxide additives. Wear, 2010, 269, 867-874.	3.1	46
74	Study of near surface changes in yttria-doped tetragonal zirconia after low temperature degradation. International Journal of Materials Research, 2009, 100, 92-96.	0.3	18
75	High Temperature Properties of the MoSi2 and MoSi2 SiC Nonocomposites. High Temperature Materials and Processes, 2009, 28, 271-276.	1.4	2
76	<i>In situ</i> tensile testing in SEM of Al-Al ₄ C ₃ nanomaterials. Estonian Journal of Engineering, 2009, 15, 247.	0.4	8
77	Residual Stresses in Laminar Functionally Graded Ceramic Materials. Key Engineering Materials, 2007, 333, 259-262.	0.4	0
78	Mechanical properties and thermal shock behaviour of an alumina/zirconia functionally graded material prepared by electrophoretic deposition. Journal of the European Ceramic Society, 2007, 27, 1365-1371.	5.7	36
79	Processing, microstructure and creep testing of Pt–Y2O3 composites. Materials & Design, 2007, 28, 2540-2543.	5.1	3
80	Creep Testing of MoSi2 - Bases Composites. High Temperature Materials and Processes, 2006, 25, 139-142.	1.4	2
81	Thermal residual stress gradients in an alumina–zirconia composite obtained by electrophoretic deposition. Journal of the European Ceramic Society, 2006, 26, 553-558.	5.7	7
82	Microstructure and mechanical properties of ZrO <sub align="right">2 reinforced MoSi<sub align=right>2 matrix composites. International Journal of Materials and Product Technology, 2005, 22, 322.</sub </sub>	0.2	1
83	Enhanced Creep Resistant Silicon-Nitride-Based Nanocomposite. Journal of the American Ceramic Society, 2005, 88, 1500-1503.	3.8	20
84	Mechanical properties of phases in Al–Al4C3 mechanically alloyed material measured by depth sensing indentation technique. Materials Letters, 2005, 59, 1971-1975.	2.6	22
85	Creep behaviour of MoSi2–HfO2 composites. Journal of Materials Science, 2005, 40, 3869-3871.	3.7	1
86	Residual Stress Profile Determined by Piezo-Spectroscopy in Alumina/Alumina-Zirconia Layers Separated by a Compositionally Graded Intermediate Layer. Key Engineering Materials, 2005, 290, 328-331.	0.4	2
87	Compressive Creep Testing of Pt-Y2O3 Composites. High Temperature Materials and Processes, 2005, 24, 189-192.	1.4	Ο
88	Mechanical Properties of Alumina/Zirconia Functionally Graded Material Prepared by Electrophoretic Deposition. Key Engineering Materials, 2005, 290, 332-335.	0.4	4
89	Influence of Al4C3particle volume fraction on fracture mechanism in Al-Al4C3composite. Journal of Materials Science, 2004, 39, 1071-1074.	3.7	5
90	Creep behavior of MoSi ₂ and MoSi ₂ + SiC composite. Journal of Materials Science, 2004, 39, 4073-4077.	3.7	3

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91	Mechanical properties of Si3N4/SiC nanocomposites studied by instrumented indentation with spheres. Journal of the European Ceramic Society, 2004, 24, 3345-3350.	5.7	4
92	Creep behavior of a carbon-derived Si3N4/SiC nanocomposite. Journal of the European Ceramic Society, 2004, 24, 3307-3315.	5.7	26
93	Damage mechanism of Al–12Al4C3. Materials Letters, 2004, 58, 867-870.	2.6	7
94	Indentation moduli and microhardness of RE–Si–Mg–O–N glasses (RE=Sc, Y, La, Sm, Yb and Lu) with different nitrogen content. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2003, 357, 181-187.	5.6	30
95	Fracture and Mechanical Properties of MoSi ₂ and MoSi ₂ + SiC. Key Engineering Materials, 2003, 251-252, 13-18.	0.4	1
96	Indentation Crack Healing in Low Glass-Content Mullite. Key Engineering Materials, 2002, 223, 257-260.	0.4	5
97	Stress-Corrosion Cracking in Alumina Ceramics. Key Engineering Materials, 2002, 223, 187-192.	0.4	1
98	Stress Induced Depolarisation of Ferroelectrics in Thin Film Form. Ferroelectrics, 2002, 267, 367-372.	0.6	0
99	Mechanical and electromechanical properties of PZT sol-gel thin films measured by nanoindentation. Integrated Ferroelectrics, 2001, 41, 53-62.	0.7	12
100	Creep behaviour of MoSi2–SiC and MoSi2–HfO2. Materials Letters, 2001, 51, 485-489.	2.6	11
101	Fatigue behaviour of mullite studied by the indentation flexure method. Journal of the European Ceramic Society, 2001, 21, 53-61.	5.7	2
102	Effect of aqueous solutions on time-dependent failure of a glass-bonded alumina. Journal of Materials Science Letters, 2001, 20, 745-749.	0.5	0
103	Fatigue Crack Growth in Self-Reinforced Silicon Nitride Based Materials. Key Engineering Materials, 2000, 175-176, 253-260.	0.4	0
104	SiC/Si3N4 nano/micro-composite — processing, RT and HT mechanical properties. Journal of the European Ceramic Society, 2000, 20, 453-462.	5.7	82
105	Young's Modulus Measurement of Silicon Nitride Ceramics by Indentation Methods. Key Engineering Materials, 1999, 175-176, 335-0.	0.4	0
106	Bending creep behaviour of pressureless sintered MoSi2. Scripta Materialia, 1997, 37, 471-476.	5.2	9
107	Short Term Deformation and Relaxation Behaviour of Silicon Nitride Ceramics. , 1997, , 389-397.		0

108 Indentation Fatigue of Some Si3N4 Based Ceramics. , 1997, , 399-407.

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109	Deformation and fracture behaviour of two Si3N4 ceramics with different sintering additives. Scripta Metallurgica Et Materialia, 1995, 32, 1459-1464.	1.0	1
110	Effect of Low Temperature Degradation on Scratch Behaviour of 3Y-TZP. Key Engineering Materials, 0, 409, 322-325.	0.4	1
111	Carbon Nanofibers Reinforced Ceramic Matrix Composites. , 0, , .		9
112	Wear Behavior of ZrO ₂ -CNF and Si ₃ N ₄ -CNT Nanocomposites. Key Engineering Materials, 0, 465, 495-498.	0.4	16
113	Mechanical and Tribological Properties of Al ₂ O ₃ -ZrO ₂ Based Composites Prepared by EPD. Key Engineering Materials, 0, 507, 191-195.	0.4	1
114	Nanohardness of Individual Phases in WC – Co Cemented Carbides. Key Engineering Materials, 0, 586, 23-26.	0.4	6
115	Local Mechanical Properties of Various Bone Cements. Key Engineering Materials, 0, 592-593, 382-385.	0.4	1
116	Local Mechanical Properties of Cast and Sintered High Cr-Alloyed Steel. Key Engineering Materials, 0, 586, 241-244.	0.4	0
117	The Influence of Current Density on Tribological Behavior Ni-Co Electroplated Coatings. Key Engineering Materials, 0, 635, 127-130.	0.4	5
118	Nanoindentation and AFM Studies on Tungsten Carbide Crystals in WC-Co Hardmetal. Key Engineering Materials, 0, 606, 107-110.	0.4	6
119	Instrumented Indentation of Composite Materials Prepared by Methods of Mechanochemistry. Key Engineering Materials, 0, 606, 241-244.	0.4	Ο
120	Wear and Mechanical Properties of Various Bone Cements – Influence of Saline Environment. Key Engineering Materials, 0, 662, 147-150.	0.4	0
121	Local Mechanical Properties of SiC - TiNbC Composite and its Constituents. Defect and Diffusion Forum, 0, 368, 158-161.	0.4	2
122	Residual Stress Profile Determined by Piezo-Spectroscopy in Alumina/Alumina-Zirconia Layers Separated by a Compositionally Graded Intermediate Layer. Key Engineering Materials, 0, , 328-331.	0.4	1