

Karsten Durst

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134
papers

3,685
citations

35
h-index

56
g-index

137
ext. papers

4,342
ext. citations

4.9
avg, IF

5.7
L-index

#	Paper	IF	Citations
134	Indentation size effect in metallic materials: Correcting for the size of the plastic zone. <i>Scripta Materialia</i> , 2005 , 52, 1093-1097	5.6	283
133	Indentation size effect in metallic materials: Modeling strength from pop-in to macroscopic hardness using geometrically necessary dislocations. <i>Acta Materialia</i> , 2006 , 54, 2547-2555	8.4	235
132	Nanoindentation strain-rate jump tests for determining the local strain-rate sensitivity in nanocrystalline Ni and ultrafine-grained Al. <i>Journal of Materials Research</i> , 2011 , 26, 1421-1430	2.5	227
131	An improved long-term nanoindentation creep testing approach for studying the local deformation processes in nanocrystalline metals at room and elevated temperatures. <i>Journal of Materials Research</i> , 2013 , 28, 1177-1188	2.5	114
130	In situ micro-cantilever tests to study fracture properties of NiAl single crystals. <i>Acta Materialia</i> , 2012 , 60, 1193-1200	8.4	109
129	A review of experimental approaches to fracture toughness evaluation at the micro-scale. <i>Materials and Design</i> , 2019 , 173, 107762	8.1	99
128	Mechanical properties of hyaline and repair cartilage studied by nanoindentation. <i>Acta Biomaterialia</i> , 2007 , 3, 873-81	10.8	90
127	Influence of dislocation density on the pop-in behavior and indentation size effect in CaF ₂ single crystals: Experiments and molecular dynamics simulations. <i>Acta Materialia</i> , 2011 , 59, 4264-4273	8.4	85
126	Finite element study for nanoindentation measurements on two-phase materials. <i>Journal of Materials Research</i> , 2004 , 19, 85-93	2.5	78
125	Activation parameters for deformation of ultrafine-grained aluminium as determined by indentation strain rate jumps at elevated temperature. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013 , 585, 108-113	5.3	75
124	Indentation size effect in NiBe solid solutions. <i>Acta Materialia</i> , 2007 , 55, 6825-6833	8.4	74
123	Dynamic nanoindentation testing for studying thermally activated processes from single to nanocrystalline metals. <i>Current Opinion in Solid State and Materials Science</i> , 2015 , 19, 340-353	12	72
122	Indentation size effect in spherical and pyramidal indentations. <i>Journal Physics D: Applied Physics</i> , 2008 , 41, 074005	3	65
121	A simple method for residual stress measurements in thin films by means of focused ion beam milling and digital image correlation. <i>Surface and Coatings Technology</i> , 2013 , 215, 247-252	4.4	61
120	Stress evolution and cracking of crystalline diamond thin films on ductile titanium substrate: Analysis by micro-Raman spectroscopy and analytical modelling. <i>Acta Materialia</i> , 2011 , 59, 5422-5433	8.4	60
119	Cell-based resurfacing of large cartilage defects: long-term evaluation of grafts from autologous transgene-activated periosteal cells in a porcine model of osteoarthritis. <i>Arthritis and Rheumatism</i> , 2008 , 58, 475-88		55
118	Micromechanical characterisation of the influence of rhenium on the mechanical properties in nickel-base superalloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2004 , 387-389, 312-316	5.3	55

117	Nanoindentation studies of the mechanical properties of the β phase in a creep deformed Re containing nickel-based superalloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2015 , 634, 202-208	5.3	52
116	Enhancement of strain-rate sensitivity and shear yield strength of a magnesium alloy processed by high-pressure torsion. <i>Scripta Materialia</i> , 2015 , 94, 44-47	5.6	52
115	Microcantilever bending experiments in NiAl I Evaluation, size effects, and crack tip plasticity. <i>Journal of Materials Research</i> , 2014 , 29, 2129-2140	2.5	52
114	Microstructure-dependent deformation behaviour of bcc-metals I Indentation size effect and strain rate sensitivity. <i>Philosophical Magazine</i> , 2015 , 95, 1766-1779	1.6	50
113	Stability of ultrafine-grained Cu to subgrain coarsening and recrystallization in annealing and deformation at elevated temperatures. <i>Acta Materialia</i> , 2009 , 57, 5207-5217	8.4	48
112	Dynamic nanoindentation of articular porcine cartilage. <i>Materials Science and Engineering C</i> , 2011 , 31, 789-795	8.3	48
111	Study on the indentation size effect in CaF ₂ : Dislocation structure and hardness. <i>Acta Materialia</i> , 2009 , 57, 1281-1289	8.4	47
110	Local Deformation of Glasses is Mediated by Rigidity Fluctuation on Nanometer Scale. <i>Advanced Science</i> , 2018 , 5, 1800916	13.6	44
109	Designing bulk metallic glass and glass matrix composites in martensitic alloys. <i>Journal of Alloys and Compounds</i> , 2009 , 483, 97-101	5.7	43
108	Dynamic recovery in nanocrystalline Ni. <i>Acta Materialia</i> , 2015 , 91, 91-100	8.4	42
107	Investigation of the sliding contact properties of WC-Co hard metals using nanoscratch testing. <i>Wear</i> , 2007 , 263, 1602-1609	3.5	42
106	Advanced Nanoindentation Testing for Studying Strain-Rate Sensitivity and Activation Volume. <i>Jom</i> , 2017 , 69, 2246-2255	2.1	41
105	Determination of the interfacial strength and fracture toughness of a-C:H coatings by in-situ microcantilever bending. <i>Thin Solid Films</i> , 2012 , 522, 480-484	2.2	41
104	Size-dependent fracture toughness of tungsten. <i>Acta Materialia</i> , 2017 , 138, 198-211	8.4	39
103	Study on the deformation mechanics of hard brittle coatings on ductile substrates using in-situ tensile testing and cohesive zone FEM modeling. <i>Surface and Coatings Technology</i> , 2012 , 207, 163-169	4.4	38
102	Development of new 11%Cr heat resistant ferritic steels with enhanced creep resistance for steam power plants with operating steam temperatures up to 650 °C. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2009 , 510-511, 180-184	5.3	38
101	Coarsening of precipitates and degradation of creep resistance in tempered martensite steels. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2009 , 510-511, 81-87	5.3	38
100	Influences of residual stresses on the serrated flow in bulk metallic glass under elastostatic four-point bending I A nanoindentation and atomic force microscopy study. <i>Acta Materialia</i> , 2014 , 70, 188-197	8.4	35

99	Determination of plastic properties of polycrystalline metallic materials by nanoindentation: experiments and finite element simulations. <i>Philosophical Magazine</i> , 2006 , 86, 5541-5551	1.6	33
98	Effect of Zr, Cr and Sc on the AlMgSiMn high-pressure die casting alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019 , 759, 603-612	5.3	32
97	Indentation size effect and dislocation structure evolution in (001) oriented SrTiO ₃ Berkovich indentations: HR-EBSD and etch-pit analysis. <i>Acta Materialia</i> , 2017 , 139, 1-10	8.4	32
96	Fracture toughness evaluation of NiAl single crystals by microcantilevers – new continuous J-integral method. <i>Journal of Materials Research</i> , 2016 , 31, 3786-3794	2.5	31
95	Composition and cooling-rate dependence of plastic deformation, densification, and cracking in sodium borosilicate glasses during pyramidal indentation. <i>Journal of Non-Crystalline Solids</i> , 2015 , 419, 97-109	3.9	29
94	Macro- and Nanomechanical Properties and Strain Rate Sensitivity of Accumulative Roll Bonded and Equal Channel Angular Pressed Ultrafine-Grained Materials. <i>Advanced Engineering Materials</i> , 2011 , 13, 251-255	3.5	29
93	Microstructure and local mechanical properties of Pt-modified nickel aluminides on nickel-base superalloys after thermo-mechanical fatigue. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2007 , 467, 15-23	5.3	29
92	SiC ceramic micropatterns from polycarbosilanes. <i>Journal of the European Ceramic Society</i> , 2010 , 30, 2778-2779	2.7	27
91	Micromechanics and ultrastructure of pyrolysed softwood cell walls. <i>Acta Biomaterialia</i> , 2010 , 6, 4345-4351	10.8	25
90	Microstructure formation and mechanical properties of ODS steels built by laser additive manufacturing of nanoparticle coated iron-chromium powders. <i>Acta Materialia</i> , 2021 , 206, 116566	8.4	25
89	Temperature-Dependent Deformation and Dislocation Density in SrTiO ₃ (001) Single Crystals. <i>Journal of the American Ceramic Society</i> , 2016 , 99, 3411-3420	3.8	25
88	Control of polarization in bulk ferroelectrics by mechanical dislocation imprint. <i>Science</i> , 2021 , 372, 961-964	9.3	24
87	Constitutive modeling of indentation cracking in fused silica. <i>Journal of the American Ceramic Society</i> , 2017 , 100, 1928-1940	3.8	23
86	3D Dislocation structure evolution in strontium titanate: Spherical indentation experiments and MD simulations. <i>Journal of the American Ceramic Society</i> , 2017 , 100, 1134-1145	3.8	23
85	The correlation between the internal material length scale and the microstructure in nanoindentation experiments and simulations using the conventional mechanism-based strain gradient plasticity theory. <i>Journal of Materials Research</i> , 2009 , 24, 1197-1207	2.5	23
84	Synthesis and high-temperature evolution of polysilylcarbodiimide-derived SiCN ceramic coatings. <i>Journal of the European Ceramic Society</i> , 2015 , 35, 3771-3780	6	22
83	Nanoindentation investigations to study solid solution hardening in Ni-based diffusion couples. <i>Journal of Materials Research</i> , 2009 , 24, 1127-1134	2.5	22
82	In-situ tensile testing of crystalline diamond coatings using Raman spectroscopy. <i>Surface and Coatings Technology</i> , 2009 , 204, 1022-1025	4.4	22

81	Experimental determination of the effective indenter shape and β factor for nanoindentation by continuously measuring the unloading stiffness. <i>Journal of Materials Research</i> , 2012 , 27, 214-221	2.5	21
80	Preparation of dense SiHf(B)CN-based ceramic nanocomposites via rapid spark plasma sintering. <i>Journal of the European Ceramic Society</i> , 2017 , 37, 5157-5165	6	20
79	Investigation of residual stress in lead-free BNT-based ceramic/ceramic composites. <i>Acta Materialia</i> , 2018 , 148, 432-441	8.4	19
78	In-situ investigation on the deformation and damage behaviour of diamond-like carbon coated thin films under uniaxial loading. <i>Thin Solid Films</i> , 2009 , 517, 1681-1685	2.2	19
77	Revealing deformation mechanisms with nanoindentation. <i>Jom</i> , 2009 , 61, 14-23	2.1	18
76	Study on the embrittlement of flash annealed Fe _{85.2} B _{9.5} P ₄ Cu _{0.8} Si _{0.5} metallic glass ribbons. <i>Materials and Design</i> , 2018 , 156, 252-261	8.1	17
75	Local Investigations of the Mechanical Properties of Ultrafine Grained Metals by Nanoindentations. <i>Materials Science Forum</i> , 2006 , 503-504, 31-36	0.4	17
74	Effect of thermal annealing on the mechanical properties of low-emissivity physical vapor deposited multilayer-coatings for architectural applications. <i>Thin Solid Films</i> , 2012 , 520, 7130-7135	2.2	16
73	On the temperature dependent strengthening of nickel by transition metal solutes. <i>Acta Materialia</i> , 2017 , 137, 54-63	8.4	15
72	Temperature dependence of indentation size effect, dislocation pile-ups, and lattice friction in (001) strontium titanate. <i>Journal of the American Ceramic Society</i> , 2018 , 101, 356-364	3.8	15
71	New ultra-high temperature nanoindentation system for operating at up to 1100°C. <i>Materials and Design</i> , 2020 , 192, 108727	8.1	15
70	Influence of solute effects on the saturation grain size and rate sensitivity in Cu-X alloys. <i>Scripta Materialia</i> , 2018 , 144, 5-8	5.6	14
69	Fracture toughness determination of fused silica by cube corner indentation cracking and pillar splitting. <i>Materials and Design</i> , 2020 , 186, 108311	8.1	14
68	Nanoscale to microscale reversal in room-temperature plasticity in SrTiO ₃ by tuning defect concentration. <i>Scripta Materialia</i> , 2020 , 188, 228-232	5.6	14
67	Particle Hardening in Creep-Resistant Mg-Alloy MRI 230D Probed by Nanoindenting Atomic Force Microscopy. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2009 , 40, 257-261	2.3	13
66	Microimprinting of nanocrystalline metals Influence of microstructure and work hardening. <i>Journal of Materials Processing Technology</i> , 2010 , 210, 1787-1793	5.3	13
65	Finite element simulation of spherical indentation in the elastic-plastic transition. <i>International Journal of Materials Research</i> , 2002 , 93, 857-861		13
64	Indentation densification of fused silica assessed by raman spectroscopy and constitutive finite element analysis. <i>Journal of the American Ceramic Society</i> , 2020 , 103, 3076-3088	3.8	12

63	Dislocation-toughened ceramics. <i>Materials Horizons</i> , 2021 , 8, 1528-1537	14.4	12
62	Nanoforming behaviour and microstructural evolution during nanoimprinting of ultrafine-grained and nanocrystalline metals. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013 , 568, 68-75	5.3	11
61	Influence of Cooling Rate on Cracking and Plastic Deformation during Impact and Indentation of Borosilicate Glasses. <i>Frontiers in Materials</i> , 2017 , 4,	4	11
60	Empirical-Statistical Study on the Relationship between Deposition Parameters, Process Variables, Deposition Rate and Mechanical Properties of a-C:H:W Coatings. <i>Coatings</i> , 2014 , 4, 772-795	2.9	11
59	Exploring the compositional parameter space of high-entropy alloys using a diffusion couple approach. <i>Materials and Design</i> , 2019 , 176, 107816	8.1	9
58	Influence of application technology on the erosion resistance of DLC coatings. <i>Surface and Coatings Technology</i> , 2013 , 237, 284-291	4.4	9
57	Assessment of stress relaxation experiments on diamond coatings analyzed by digital image correlation and micro-Raman spectroscopy. <i>Surface and Coatings Technology</i> , 2013 , 237, 255-260	4.4	9
56	Failure mechanisms of a hydrogenated amorphous carbon coating in load-scanning tests. <i>Surface and Coatings Technology</i> , 2012 , 206, 4864-4871	4.4	9
55	Microscopic study on the interfacial strength of hydrogenated amorphous carbon coating systems. <i>Surface and Coatings Technology</i> , 2011 , 205, 3429-3433	4.4	9
54	Nanoindentation pop-in in oxides at room temperature: Dislocation activation or crack formation?. <i>Journal of the American Ceramic Society</i> , 2021 , 104, 4728-4741	3.8	9
53	Effect of elastic anisotropy on strain relief and residual stress determination in cubic systems by FIB-DIC experiments. <i>Materials and Design</i> , 2016 , 112, 505-511	8.1	9
52	Tailoring the Mechanical Properties of Metaluminous Aluminosilicate Glasses by Phosphate Incorporation. <i>Frontiers in Materials</i> , 2020 , 7,	4	8
51	New flat-punch indentation creep testing approach for characterizing the local creep properties at high temperatures. <i>Materials and Design</i> , 2019 , 183, 108090	8.1	8
50	A new nanoindentation creep technique using constant contact pressure. <i>Journal of Materials Research</i> , 2019 , 34, 2492-2500	2.5	8
49	Influence of solid solution strengthening on the local mechanical properties of single crystal and ultrafine-grained binary CuAl X solid solutions. <i>Journal of Materials Research</i> , 2017 , 32, 4583-4591	2.5	8
48	Experimental and theoretical confirmation of the scaling exponent 2 in pyramidal load displacement data for depth sensing indentation. <i>Scanning</i> , 2014 , 36, 526-9	1.6	8
47	Dislocation-grain boundary interactions: recent advances on the underlying mechanisms studied via nanoindentation testing. <i>Journal of Materials Research</i> , 2021 , 36, 2545-2557	2.5	8
46	Stress-driven grain boundary movement during nanoindentation in tungsten at room temperature. <i>Materialia</i> , 2018 , 1, 99-103	3.2	8

45	Local analysis on dislocation structure and hardening during grain boundary pop-ins in tungsten. <i>Journal of Materials Science</i> , 2020 , 55, 9597-9607	4.3	7
44	Accelerated thermal degradation of DLC-coatings via growth defects. <i>Surface and Coatings Technology</i> , 2018 , 349, 272-278	4.4	7
43	The influence of hydrogenated amorphous carbon coatings (a-C:H) on the fatigue life of coated steel specimens. <i>International Journal of Fatigue</i> , 2012 , 37, 1-7	5	7
42	Quantitative Gefügecharakterisierung mittels Rasterkraftmikroskopie und Elektronenmikroskopie – Eine vergleichende Studie der Superlegierung Waspaloy / Quantitative Microstructural Characterisation by Atomic Force Microscopy and Electron Microscopy – A Comparative Study on the Superalloy Waspaloy. <i>Praktische Metallographie/Practical Metallography</i> , 2019 , 56, 105-112	0.3	7
41	Multi-alloying effect of Sc, Zr, Cr on the Al-Mg-Si-Mn high-pressure die casting alloys. <i>Materials Characterization</i> , 2020 , 168, 110537	3.9	7
40	Indentation size effect in tungsten: Quantification of geometrically necessary dislocations underneath the indentations using HR-EBSD. <i>Materials Characterization</i> , 2018 , 142, 39-42	3.9	7
39	Dislocation-based crack initiation and propagation in single-crystal SrTiO ₃ . <i>Journal of Materials Science</i> , 2021 , 56, 5479-5492	4.3	7
38	Failure mechanisms of a tungsten-modified hydrogenated amorphous carbon coating in load-scanning tests. <i>Surface and Coatings Technology</i> , 2012 , 212, 46-54	4.4	6
37	Highly resolved analysis of the chemistry and mechanical properties of an a-C:H coating system by nanoindentation and auger electron spectroscopy. <i>Thin Solid Films</i> , 2013 , 528, 263-268	2.2	5
36	Untersuchungen zur Ursache der Tropfenkondensation von Wasserdampf an ionenimplantierten Metalloberflächen. <i>Chemie-Ingenieur-Technik</i> , 2011 , 83, 545-551	0.8	5
35	Effect of nanoparticle addition on the microstructure and microhardness of oxide dispersion strengthened steels produced by laser powder bed fusion and directed energy deposition. <i>Procedia CIRP</i> , 2020 , 94, 41-45	1.8	5
34	Influence of Al ₂ O ₃ Addition on Structure and Mechanical Properties of Borosilicate Glasses. <i>Frontiers in Materials</i> , 2020 , 7,	4	5
33	Switching the fracture toughness of single-crystal ZnS using light irradiation. <i>Applied Physics Letters</i> , 2021 , 118, 154103	3.4	5
32	Towards manufacturing of Nd-Fe-B magnets by continuous rotary swaging of cast alloy. <i>Journal of Magnetism and Magnetic Materials</i> , 2019 , 490, 165405	2.8	4
31	Indentation-Induced Structural Changes in Vitreous Silica Probed by in-situ Small-Angle X-Ray Scattering. <i>Frontiers in Materials</i> , 2020 , 7,	4	4
30	A Multiple Length-Scales Nanoimprinting Approach on Nanocrystalline and Strongly Deformed CuZn ₃₀ Alloys. <i>Scientific Reports</i> , 2020 , 10, 2454	4.9	4
29	Local Fracture Toughness and Residual Stress Measurements on NiAl Bond Coats by Micro Cantilever and FIB Based Bar Milling Tests 2012 , 93-102		4
28	Quantification of dislocation structures at high resolution by atomic force microscopy of dislocation etch pits. <i>Philosophical Magazine Letters</i> , 2009 , 89, 391-398	1	4

27	The Influence of Particle Size on the Mechanical Properties of Dental Glass Ionomer Cements. <i>Advanced Engineering Materials</i> , 2010 , 12, B684-B689	3.5	4
26	Solid solution hardening in CrMnFeCoNi-based high entropy alloy systems studied by a combinatorial approach. <i>Journal of Materials Research</i> , 2021 , 36, 2558-2570	2.5	3
25	Thermally activated dislocation mechanism in Mo studied by indentation, compression and impact testing. <i>Journal of Materials Research</i> , 2021 , 36, 2397-2407	2.5	3
24	Tailored Mechanical Properties and Residual Stresses of a-C:H:W Coatings. <i>Advanced Materials Research</i> , 2014 , 996, 14-21	0.5	2
23	Microstructural and micromechanical characterisation of a PtAlCrNiBe alloy by means of transmission electron microscopy and nanoindentation. <i>International Journal of Materials Research</i> , 2010 , 101, 585-588	0.5	2
22	Compression moduli of foamed films of fluorinated ethylene propylene copolymers determined by nanoindentation. <i>Polymer Testing</i> , 2011 , 30, 286-293	4.5	2
21	Comment to paper Penetration depth and tip radius dependence on the correction factor in nanoindentation measurements by J.M. Meza et al. [<i>J. Mater. Res.</i> 23(3), 725 (2008)]. <i>Journal of Materials Research</i> , 2012 , 27, 1205-1207	2.5	2
20	Impact of n-Type versus p-Type Doping on Mechanical Properties and Dislocation Evolution during SiC Crystal Growth. <i>Materials Science Forum</i> , 2007 , 556-557, 259-262	0.4	2
19	From diluted solid solutions to high entropy alloys: Saturation grain size and mechanical properties after high pressure torsion. <i>Scripta Materialia</i> , 2021 , 192, 43-48	5.6	2
18	Influence of microstructure on the application of Ni-Mn-In Heusler compounds for multicaloric cooling using magnetic field and uniaxial stress. <i>Acta Materialia</i> , 2021 , 217, 117157	8.4	2
17	Strain-Rate Sensitivity (SRS) of Nickel by Instrumented Indentation. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , 2013 , 47-52	0.3	2
16	Nano-mechanical testing in materials research and development. <i>Philosophical Magazine</i> , 2011 , 91, 1035-1036	10.36	1
15	Determination of Plastic Properties of Polycrystalline Metallic Materials by Nanoindentation - Experiments and Finite Element Simulations. <i>Materials Research Society Symposia Proceedings</i> , 2004 , 841, R11.4.1		1
14	Finite element study for nanoindentation measurements on two-phase materials 2004 , 19, 85		1
13	Realization of Diamond/Metal Laminates through Brazing of Freestanding Diamond Foils. <i>Key Engineering Materials</i> , 2019 , 809, 309-313	0.4	1
12	A simple way to make tough diamond/metal laminates. <i>Journal of the European Ceramic Society</i> , 2021 , 41, 5138-5146	6	1
11	Room-temperature dislocation plasticity in SrTiO ₃ tuned by defect chemistry. <i>Journal of the American Ceramic Society</i> , 2022 , 105, 1318	3.8	1
10	Mechanical tailoring of dislocation densities in SrTiO ₃ at room temperature. <i>Journal of the American Ceramic Society</i> , 2022 , 105, 2399-2402	3.8	1

9	Nanoindentation creep testing: Advantages and limitations of the constant contact pressure method. <i>Journal of Materials Research</i> , 2022 , 37, 567-579	2.5	o
8	Bioinspired damage tolerant diamond-metal laminates by alternating CVD and PVD processes. <i>Materials and Design</i> , 2022 , 213, 110315	8.1	o
7	Effects of solutes on thermal stability, microstructure and mechanical properties in CrMnFeCoNi based alloys after high pressure torsion. <i>Acta Materialia</i> , 2022 , 227, 117689	8.4	o
6	Nanoindentation study of the oxide scale on FeCr alloy by high-pressure torsion. <i>Corrosion Science</i> , 2022 , 194, 109951	6.8	o
5	Heat treatment of the new high-strength high-ductility AlMgSiMn alloys with Sc, Zr and Cr additions. <i>Materialia</i> , 2021 , 15, 100981	3.2	o
4	Coating delamination analysis of diamond/Ti and diamond/Ti-6Al-4V systems using cohesive damage and extended finite element modeling. <i>Surface Topography: Metrology and Properties</i> , 2021 , 9, 035034	1.5	o
3	Untersuchung des tribologisch-mechanischen Verhaltens amorpher Kohlenstoffschichten mittels Load Scanner. <i>Materialwissenschaft Und Werkstofftechnik</i> , 2012 , 43, 226-233	0.9	
2	Study on the local damage mechanisms in WC-Co hard metals during scratch testing. <i>Materials Research Society Symposia Proceedings</i> , 2007 , 1049, 1		
1	Deformation of WC-Co Hardmetals During Scratch Testing 171-177		