

Tanja Lube

List of Publications by Year in descending order

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72
papers

1,929
citations

394286

19
h-index

254106

43
g-index

81
all docs

81
docs citations

81
times ranked

1336
citing authors

#	ARTICLE	IF	CITATIONS
1	Stereolithographic 3D Printing of Ceramics: Challenges and Opportunities for Structural Integrity. <i>Advanced Engineering Materials</i> , 2023, 25, .	1.6	14
2	Monte Carlo Simulations of Strength Distributions of Brittle Materials – Type of Distribution, Specimen and Sample Size. <i>International Journal of Materials Research</i> , 2022, 92, 773-783.	0.1	10
3	On the transition of failure control from material-intrinsic defects to defects forming during monotonically increasing and cyclic mechanical loading in WC-Co hard metal at elevated temperature. <i>Acta Materialia</i> , 2022, 235, 118087.	3.8	5
4	Fracture Toughness Measurement. , 2021, , 762-774.		1
5	Comparison of biaxial strength measured with the Ball-on-Three-Balls- and the Ring-on-Ring-test. <i>Open Ceramics</i> , 2021, 6, 100101.	1.0	7
6	Distribution distortion in the statistical analysis of strength data when using multiple specimen batches. <i>Journal of the European Ceramic Society</i> , 2021, , .	2.8	0
7	Size effect assessment by Weibull’s approach and the coupled criterion. <i>Engineering Fracture Mechanics</i> , 2021, 256, 107979.	2.0	5
8	Influence of the Infill Orientation on the Properties of Zirconia Parts Produced by Fused Filament Fabrication. <i>Materials</i> , 2020, 13, 3158.	1.3	43
9	Strength of additive manufactured alumina. <i>Journal of the European Ceramic Society</i> , 2020, 40, 4737-4745.	2.8	34
10	Influence of WC-Co hard metal microstructure on defect density, initiation and propagation kinetics of fatigue cracks starting at intrinsic and artificial defects under a negative stress ratio. <i>Acta Materialia</i> , 2020, 188, 30-39.	3.8	21
11	Fracture Toughness of Silicon Nitride Measured by the Surface Crack in Flexure (SCF) Test Method. <i>IOP Conference Series: Materials Science and Engineering</i> , 2019, 622, 012001.	0.3	0
12	Fatigue behaviour of WC-Co hard metal under stress ratio and effectively loaded volume relevant to metalworking tool failure. <i>International Journal of Refractory Metals and Hard Materials</i> , 2019, 80, 97-103.	1.7	8
13	Fracture toughness of silicon nitride balls via thermal shock. <i>Journal of the European Ceramic Society</i> , 2018, 38, 1278-1287.	2.8	10
14	Fracture Toughness (KIC) of Lithography Based Manufactured Alumina Ceramic. <i>IOP Conference Series: Materials Science and Engineering</i> , 2018, 348, 012022.	0.3	4
15	Fracture toughness testing of biomedical ceramic-based materials using beams, plates and discs. <i>Journal of the European Ceramic Society</i> , 2018, 38, 5533-5544.	2.8	51
16	Strength behaviour of etched Zerodur®. <i>Journal of the European Ceramic Society</i> , 2017, 37, 4407-4413.	2.8	3
17	Fractography of zirconia-specimens made using additive manufacturing (LCM) technology. <i>Journal of the European Ceramic Society</i> , 2017, 37, 4331-4338.	2.8	96
18	Surface strength of balls made of five structural ceramic materials evaluated with the Notched Ball Test (NBT). <i>Journal of the European Ceramic Society</i> , 2017, 37, 5065-5070.	2.8	8

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19	Lifetime prediction of ceramic components " A case study on hybrid rolling contact. Engineering Fracture Mechanics, 2017, 169, 292-308.	2.0	11
20	Chairside CAD/CAM materials. Part 2: Flexural strength testing. Dental Materials, 2017, 33, 99-109.	1.6	227
21	A Fracture Toughness Test Using the Ball-on-three-Balls Test. Journal of the American Ceramic Society, 2016, 99, 249-256.	1.9	18
22	Analysis of the effective thermoelastic properties and stress fields in silicon nitride based on EBSD data. Journal of the European Ceramic Society, 2016, 36, 1109-1125.	2.8	4
23	On the Development of Experimental Methods for the Determination of Fracture Mechanical Parameters of Ceramics. , 2016, , 197-214.		3
24	Macroscopic damage modeling for silicon nitride. Proceedings in Applied Mathematics and Mechanics, 2015, 15, 147-148.	0.2	0
25	Testing Methods on Ceramic Rolling Elements for Hybrid Bearings. Materials Performance and Characterization, 2015, 4, 209-225.	0.2	0
26	Toughness measurement on ball specimens. Part II: Experimental procedure and measurement uncertainties. Journal of the European Ceramic Society, 2014, 34, 1881-1892.	2.8	12
27	Fracture toughness testing of small ceramic discs and plates. Journal of the European Ceramic Society, 2014, 34, 1637-1642.	2.8	25
28	Mechanical Properties and Reliability of Advanced Ceramics. , 2014, , 173-199.		1
29	Determination of Strength and Fracture Toughness of Small Ceramic Discs Using the Small Punch Test and the Ball-on-three-balls Test. , 2014, 3, 961-966.		23
30	Mechanical properties of silicon nitride rolling elements in dependence of size and shape. Journal of the European Ceramic Society, 2014, 34, 4167-4176.	2.8	10
31	Mechanical Properties of Ceramics. , 2013, , 609-632.		3
32	A Residual Stress Intensity Factor Solution for Knoop Indentation Cracks. International Journal of Fracture, 2012, 175, 65-71.	1.1	3
33	Toughness measurement on ball specimens. Part I: Theoretical analysis. Journal of the European Ceramic Society, 2012, 32, 1163-1173.	2.8	9
34	Surface crack in tension or in bending " A reassessment of the Newman and Raju formula in respect to fracture toughness measurements in brittle materials. Journal of the European Ceramic Society, 2012, 32, 1491-1501.	2.8	63
35	Sub-Critical Crack Growth in Alumina " a Comparison of Different Measurement and Evaluation Methods. BHM-Zeitschrift Fuer Rohstoffe Geotechnik Metallurgie Werkstoffe Maschinen-Und Anlagentechnik, 2011, 156, 450-456.	0.4	9
36	Defects and Fracture Statistics in Low-Pressure Injection Moulded Alumina Components. Praktische Metallographie/Practical Metallography, 2011, 48, 442-453.	0.1	1

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37	25<i>year perspective</i>Aspects of strain and strength measurement in miniaturised testing for engineering metals and ceramics. Materials Science and Technology, 2010, 26, 127-148.	0.8	34
38	Keramische Verbundwerkstoffe*. Materialpruefung/Materials Testing, 2010, 52, 20-26.	0.8	0
39	Influence of an apparent r-curve on strength and fracture statistics of ceramic laminates. International Journal of Materials Research, 2009, 100, 1137-1144.	0.1	1
40	Fracture of Ceramics. Advanced Engineering Materials, 2008, 10, 275-298.	1.6	275
41	Fracture statistics of ceramic laminates strengthened by compressive residual stresses. Journal of the European Ceramic Society, 2008, 28, 1551-1556.	2.8	29
42	Optimal strength and toughness of Al ₂ O ₃ /ZrO ₂ laminates designed with external or internal compressive layers. Journal of the European Ceramic Society, 2008, 28, 1575-1583.	2.8	85
43	Einfluss von Kontaktspannungen auf die Festigkeit im 4-Kugelversuch. Praktische Metallographie/Practical Metallography, 2008, 45, 18-32.	0.1	2
44	Mechanical Properties of Ceramic Laminates. Key Engineering Materials, 2007, 333, 87-96.	0.4	7
45	Strain Mismatch in Ceramic Multilayers: Determination by Strength Measurements. Key Engineering Materials, 2007, 333, 239-242.	0.4	1
46	Geometry Effect on the Thermal Shock Response of Al ₂ O ₃ /ZrO ₂ Multilayered Ceramics. Key Engineering Materials, 2007, 333, 251-254.	0.4	1
47	Fracture statistics of ceramics – Weibull statistics and deviations from Weibull statistics. Engineering Fracture Mechanics, 2007, 74, 2919-2932.	2.0	238
48	A silicon nitride reference material – A testing program of ESIS TC6. Journal of the European Ceramic Society, 2007, 27, 1203-1209.	2.8	47
49	Elastic properties and damping behaviour of alumina – alumina/zirconia laminates. Journal of the European Ceramic Society, 2007, 27, 1307-1311.	2.8	10
50	The ball on three balls test – Strength and failure analysis of different materials. Journal of the European Ceramic Society, 2007, 27, 1481-1485.	2.8	113
51	Effective fracture toughness in Al ₂ O ₃ /Al ₂ O ₃ /ZrO ₂ laminates. Journal of the European Ceramic Society, 2007, 27, 1449-1453.	2.8	60
52	Biaxial Strength Testing on Mini Specimens. , 2006, , 589-590.		5
53	Strength Distributions in Ceramic Laminates. Materials Science Forum, 2005, 492-493, 581-586.	0.3	20
54	Fracture of Monoliths Fabricated by Stacking Water Processed Green Ceramic Tapes. Key Engineering Materials, 2005, 290, 203-207.	0.4	1

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55	Thermal Shock Behavior of an Al ₂ O ₃ /ZrO ₂ Multilayered Ceramic with Residual Stresses due to Phase Transformations. Key Engineering Materials, 2005, 290, 191-198.	0.4	24
56	R-Curves in Al ₂ O ₃ - Al ₂ O ₃ /ZrO ₂ Laminates. Key Engineering Materials, 2005, 290, 214-221.	0.4	11
57	Quantitative determination of the volume fraction of intergranular amorphous phase in sintered silicon nitride. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2004, 370, 453-458.	2.6	27
58	A threshold stress intensity factor at the onset of stable crack extension of Knoop indentation cracks. Engineering Fracture Mechanics, 2004, 71, 2263-2269.	2.0	14
59	Delayed failure behaviour of the ESIS silicon nitride reference material at 1200 Å°C in air. Materials Letters, 2004, 58, 871-875.	1.3	2
60	The Thermo-Mechanical Response to a General Loading Path of a Martensitically Transforming Steel. Journal of Intelligent Material Systems and Structures, 2002, 13, 811-815.	1.4	3
61	Indentation Cracks in Silicon Nitride. Key Engineering Materials, 2002, 223, 27-38.	0.4	1
62	Improvement of the Strength of Silicon Nitride by Aging. , 2002, , 151-157.		4
63	A Knoop-Indentation Method for R-Curve Determination. , 2002, , 447-456.		2
64	Indentation crack profiles in silicon nitride. Journal of the European Ceramic Society, 2001, 21, 211-218.	2.8	68
65	Development of a Bending-Test Device for Small Samples. Key Engineering Materials, 1997, 132-136, 488-491.	0.4	10
66	THE MINIATURISATION OF THE 4-POINT-BEND TEST. Fatigue and Fracture of Engineering Materials and Structures, 1997, 20, 1605-1616.	1.7	48
67	Influence of the Sample Size on the Results of B3B-Tests. Key Engineering Materials, 0, 409, 176-184.	0.4	15
68	Fracture Mechanisms of Structural and Functional Multilayer Ceramic Structures. Key Engineering Materials, 0, 465, 41-46.	0.4	3
69	Single Edge Pre-crack V-Notched Beam (SEPVNB) Fracture Toughness Testing on Silicon Nitride. Materials Science Forum, 0, 962, 205-209.	0.3	2
70	The Esis Silicon Nitride Reference Material Testing Program. Ceramic Engineering and Science Proceedings, 0, , 337-342.	0.1	4
71	Failure Statistics Beyond the Weibull Behavior. Ceramic Engineering and Science Proceedings, 0, , 497-502.	0.1	1
72	Strength Distributions in Ceramic Laminates. Materials Science Forum, 0, , 581-586.	0.3	1