

Emanuel Willert

List of Publications by Year in descending order

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129
citing authors

#	ARTICLE	IF	CITATIONS
1	Influence of Wear Profile Geometry on Critical Plane Fatigue Crack Initiation Criteria in Plane and Axisymmetric Elastic Fretting Contacts. <i>Frontiers in Mechanical Engineering</i> , 2022, 8, .	1.8	4
2	First yield in the Maugisâ€œadhesive contact of elastic spheres. <i>ZAMM Zeitschrift Fur Angewandte Mathematik Und Mechanik</i> , 2021, 101, e201900313.	1.6	0
3	A Simple Semi-Analytic Contact Mechanical Model for Tangential and Torsional Fretting Wear of Axisymmetric Contacts. <i>Symmetry</i> , 2021, 13, 1582.	2.2	2
4	FFT-BASED IMPLEMENTATION OF THE MDR TRANSFORMATIONS FOR HOMOGENEOUS AND POWER-LAW GRADED MATERIALS. <i>Facta Universitatis, Series: Mechanical Engineering</i> , 2021, 19, 805.	4.6	2
5	StoÃŸprobleme in Physik, Technik und Medizin. , 2020, , .		8
6	Ratio of Loss and Storage Moduli Determines Restitution Coefficient in Low-Velocity Viscoelastic Impacts. <i>Frontiers in Mechanical Engineering</i> , 2020, 6, .	1.8	0
7	Stress tensor and gradient of hydrostatic pressure in the contact plane of axisymmetric bodies under normal and tangential loading. <i>ZAMM Zeitschrift Fur Angewandte Mathematik Und Mechanik</i> , 2020, 100, e201900223.	1.6	3
8	Quasistatischer NormalstoÃŸ axialsymmetrischer KÃ¶rper. , 2020, , 113-156.		0
9	AusgewÃhlte Anwendungen von StoÃŸproblemen. , 2020, , 197-227.		0
10	Kinematik und Dynamik rÃumlicher StÃ¶ÃŸe von Kugeln. , 2020, , 5-15.		0
11	Die Methode der Dimensionsreduktion in der Kontaktmechanik. , 2020, , 95-111.		0
12	Kontaktmechanische Grundlagen. , 2020, , 17-93.		0
13	Quasistatische ebene StÃ¶ÃŸe von Kugeln. , 2020, , 157-182.		0
14	RÃumliche Effekte in elastischen StÃ¶ÃŸen von Kugeln. , 2020, , 183-196.		0
15	Annular Contacts. , 2019, , 295-318.		0
16	Effect of elastic grading on fretting wear. <i>Scientific Reports</i> , 2019, 9, 7791.	3.3	10
17	Contact Problems of Functionally Graded Materials. , 2019, , 251-293.		2
18	Handbook of Contact Mechanics. , 2019, , .		93

#	ARTICLE	IF	CITATIONS
19	ENERGY LOSS AND WEAR IN SPHERICAL OBLIQUE ELASTIC IMPACTS. Facta Universitatis, Series: Mechanical Engineering, 2019, 17, 75.	4.6	2
20	Transversely Isotropic Problems. , 2019, , 205-212.		1
21	EFFECT OF ELASTIC GRADING ON FRETTING WEAR. , 2019, , .		0
22	Handbuch der Kontaktmechanik. , 2018, , .		14
23	Short note: Method of Dimensionality Reduction for compressible viscoelastic media. I. Frictionless normal contact of a Kelvin-Voigt solid. ZAMM Zeitschrift Fur Angewandte Mathematik Und Mechanik, 2018, 98, 306-311.	1.6	1
24	Influence of the Tabor parameter on the adhesive normal impact of spheres in Maugis-Dugdale approximation. Computational Particle Mechanics, 2018, 5, 313-318.	3.0	9
25	Short note: Method of dimensionality reduction for compressible viscoelastic media. ii. Frictionless normal contact for arbitrary shear and bulk rheologies. ZAMM Zeitschrift Fur Angewandte Mathematik Und Mechanik, 2018, 98, 2022-2026.	1.6	1
26	DUGDALE-MAUGIS ADHESIVE NORMAL CONTACT OF AXISYMMETRIC POWER-LAW GRADED ELASTIC BODIES. Facta Universitatis, Series: Mechanical Engineering, 2018, 16, 9.	4.6	9
27	METHOD OF DIMENSIONALITY REDUCTION IN CONTACT MECHANICS AND FRICTION: A USER'S HANDBOOK. III. VISCOELASTIC CONTACTS. Facta Universitatis, Series: Mechanical Engineering, 2018, 16, 99.	4.6	6
28	MECHANICS OF COLLISIONS OF SOLIDS: INFLUENCE OF FRICTION AND ADHESION. II NUMERICAL MODELING. PNRPU Mechanics Bulletin, 2018, , .	0.4	0
29	Transversal isotrope Probleme. , 2018, , 203-211.		0
30	Kontakte ohne kompaktes Kontaktgebiet. , 2018, , 293-315.		0
31	The oblique impact of a rigid sphere on a power-law graded elastic half-space. Mechanics of Materials, 2017, 109, 82-87.	3.2	12
32	Adhesive tangential impact without slip of a rigid sphere and a power-law graded elastic half-space. ZAMM Zeitschrift Fur Angewandte Mathematik Und Mechanik, 2017, 97, 872-878.	1.6	4
33	Exact one-dimensional mapping of axially symmetric elastic contacts with superimposed normal and torsional loading. ZAMM Zeitschrift Fur Angewandte Mathematik Und Mechanik, 2017, 97, 173-182.	1.6	2
34	THE INFLUENCE OF VISCOELASTICITY ON VELOCITY-DEPENDENT RESTITUTIONS IN THE OBLIQUE IMPACT OF SPHERES. Facta Universitatis, Series: Mechanical Engineering, 2017, 15, 269.	4.6	7
35	Impact of an elastic sphere with an elastic half space with a constant coefficient of friction: Numerical analysis based on the method of dimensionality reduction. ZAMM Zeitschrift Fur Angewandte Mathematik Und Mechanik, 2016, 96, 1089-1095.	1.6	5
36	Adhesive impact of an elastic sphere with an elastic half space: Numerical analysis based on the method of dimensionality reduction. Mechanics of Materials, 2016, 92, 155-163.	3.2	11

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37	THE JKR-ADHESIVE NORMAL CONTACT PROBLEM OF AXISYMMETRIC RIGID PUNCHES WITH A FLAT ANNULAR SHAPE OR CONCAVE PROFILES. <i>Facta Universitatis, Series: Mechanical Engineering</i> , 2016, 14, 281.	4.6	8
38	Modeling of the dynamic contact in stick-slip microdrives using the method of reduction of dimensionality. <i>Physical Mesomechanics</i> , 2012, 15, 287-292.	1.9	16