

Emanuel Willert

List of Publications by Year in descending order

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38
papers

235
citations

1307594

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1372567

10
g-index

42
all docs

42
docs citations

42
times ranked

129
citing authors

#	ARTICLE	IF	CITATIONS
1	Handbook of Contact Mechanics. , 2019, , .		93
2	Modeling of the dynamic contact in stick-slip microdrives using the method of reduction of dimensionality. Physical Mesomechanics, 2012, 15, 287-292.	1.9	16
3	Handbuch der Kontaktmechanik. , 2018, , .		14
4	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
5	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
6	Effect of elastic grading on fretting wear. Scientific Reports, 2019, 9, 7791.	3.3	10
7	Influence of the Tabor parameter on the adhesive normal impact of spheres in Maugisâ€Dugdale approximation. Computational Particle Mechanics, 2018, 5, 313-318.	3.0	9
8	DUGDALE-MAUGIS ADHESIVE NORMAL CONTACT OF AXISYMMETRIC POWER-LAW GRADED ELASTIC BODIES. Facta Universitatis, Series: Mechanical Engineering, 2018, 16, 9.	4.6	9
9	StoÃŸprobleme in Physik, Technik und Medizin. , 2020, , .		8
10	THE JKR-ADHESIVE NORMAL CONTACT PROBLEM OF AXISYMMETRIC RIGID PUNCHES WITH A FLAT ANNULAR SHAPE OR CONCAVE PROFILES. Facta Universitatis, Series: Mechanical Engineering, 2016, 14, 281.	4.6	8
11	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
12	METHOD OF DIMENSIONALITY REDUCTION IN CONTACT MECHANICS AND FRICTION: A USERâ€™S HANDBOOK. III. VISCOELASTIC CONTACTS. Facta Universitatis, Series: Mechanical Engineering, 2018, 16, 99.	4.6	6
13	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
14	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
15	Influence of Wear Profile Geometry on Critical Plane Fatigue Crack Initiation Criteria in Plane and Axisymmetric Elastic Fretting Contacts. Frontiers in Mechanical Engineering, 2022, 8, .	1.8	4
16	Stress tensor and gradient of hydrostatic pressure in the contact plane of axisymmetric bodies under normal and tangential loading. ZAMM Zeitschrift Fur Angewandte Mathematik Und Mechanik, 2020, 100, e201900223.	1.6	3
17	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
18	Contact Problems of Functionally Graded Materials. , 2019, , 251-293.		2

#	ARTICLE	IF	CITATIONS
19	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
20	ENERGY LOSS AND WEAR IN SPHERICAL OBLIQUE ELASTIC IMPACTS. <i>Facta Universitatis, Series: Mechanical Engineering</i> , 2019, 17, 75.	4.6	2
21	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
22	Short note: Method of Dimensionality Reduction for compressible viscoelastic media. I. Frictionless normal contact of a Kelvin-Voigt solid. <i>ZAMM Zeitschrift Fur Angewandte Mathematik Und Mechanik</i> , 2018, 98, 306-311.	1.6	1
23	Short note: Method of dimensionality reduction for compressible viscoelastic media. ii. Frictionless normal contact for arbitrary shear and bulk rheologies. <i>ZAMM Zeitschrift Fur Angewandte Mathematik Und Mechanik</i> , 2018, 98, 2022-2026.	1.6	1
24	Transversely Isotropic Problems. , 2019, , 205-212.		1
25	Annular Contacts. , 2019, , 295-318.		0
26	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
27	First yield in the Maugis adhesive contact of elastic spheres. <i>ZAMM Zeitschrift Fur Angewandte Mathematik Und Mechanik</i> , 2021, 101, e201900313.	1.6	0
28	MECHANICS OF COLLISIONS OF SOLIDS: INFLUENCE OF FRICTION AND ADHESION. II NUMERICAL MODELING. <i>PNRPU Mechanics Bulletin</i> , 2018, , .	0.4	0
29	Transversal isotrope Probleme. , 2018, , 203-211.		0
30	Kontakte ohne kompaktes Kontaktgebiet. , 2018, , 293-315.		0
31	EFFECT OF ELASTIC GRADING ON FRETTING WEAR. , 2019, , .		0
32	Quasistatischer Normalstoß axialsymmetrischer Körper. , 2020, , 113-156.		0
33	Ausgewählte Anwendungen von Stoßproblemen. , 2020, , 197-227.		0
34	Kinematik und Dynamik räumlicher Stöße von Kugeln. , 2020, , 5-15.		0
35	Die Methode der Dimensionsreduktion in der Kontaktmechanik. , 2020, , 95-111.		0
36	Kontaktmechanische Grundlagen. , 2020, , 17-93.		0

#	ARTICLE	IF	CITATIONS
37	Quasistatische ebene Stre von Kugeln. , 2020, , 157-182.		0
38	Rumliche Effekte in elastischen Stren von Kugeln. , 2020, , 183-196.		0