

Enrico Bertocchi

List of Publications by Year in descending order

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Version: 2024-02-01

28
papers

433
citations

933447

10
h-index

752698

20
g-index

28
all docs

28
docs citations

28
times ranked

300
citing authors

#	ARTICLE	IF	CITATIONS
1	High performance automotive chassis design: a topology optimization based approach. <i>Structural and Multidisciplinary Optimization</i> , 2011, 44, 45-56.	3.5	127
2	Shakedown of coupled two-dimensional discrete frictional systems. <i>Journal of the Mechanics and Physics of Solids</i> , 2008, 56, 3433-3440.	4.8	46
3	A repertoire of failures in connecting rods for internal combustion engines, and indications on traditional and advanced design methods. <i>Engineering Failure Analysis</i> , 2016, 60, 20-39.	4.0	45
4	Normalization of the stress concentrations at the rounded edges of a shaft-hub interference fit. <i>Journal of Strain Analysis for Engineering Design</i> , 2011, 46, 478-491.	1.8	25
5	Crash behavior of thin-walled box beams with complex sinusoidal relief patterns. <i>Thin-Walled Structures</i> , 2012, 53, 217-223.	5.3	25
6	Crash performance of notch triggers and variable frequency progressive-triggers on patterned box beams during axial impacts. <i>Thin-Walled Structures</i> , 2013, 63, 98-105.	5.3	16
7	Normalization of the stress concentrations at the rounded edges of an interference fit between a solid shaft subjected to bending and a hub. <i>Mechanics Based Design of Structures and Machines</i> , 2016, 44, 405-425.	4.7	15
8	On the loosening mechanism of a bush press-fitted in the small end of a connecting rod. <i>Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering</i> , 2012, 226, 312-324.	1.9	13
9	Maximum equivalent stress in a pin-loaded lug in the presence of initial clearance. <i>Journal of Strain Analysis for Engineering Design</i> , 2011, 46, 760-771.	1.8	12
10	Shaft-hub press fit subjected to bending couples: Analytical evaluation of the shaft-hub detachment couple. <i>Applied Mathematical Modelling</i> , 2017, 50, 135-160.	4.2	11
11	Achievement of a uniform contact pressure in a shaft-hub press-fit. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , 2013, 227, 405-419.	2.1	10
12	Frequency embedded box beam crash absorbers under oblique impacts. <i>Thin-Walled Structures</i> , 2014, 75, 1-7.	5.3	10
13	Analytical evaluation of the peak contact pressure in a rectangular elastomeric seal with rounded edges. <i>Journal of Strain Analysis for Engineering Design</i> , 2016, 51, 304-317.	1.8	10
14	A paradox in curved beams. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , 2019, 233, 2830-2833.	2.1	10
15	Contact stresses within a split ring inserted into a circular housing. <i>Journal of Strain Analysis for Engineering Design</i> , 2009, 44, 671-688.	1.8	8
16	On the applicability of the Boussinesq influence function in modelling the frictionless elastic contact between a rectangular indenter with rounded edges and a half-plane. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , 2015, 229, 987-1001.	2.1	8
17	A repertoire of failures in gudgeon pins for internal combustion engines, and a critical assessment of the design formulae. <i>Engineering Failure Analysis</i> , 2018, 87, 22-48.	4.0	8
18	Towards an analytical model of a pin-lug connection. <i>International Journal of Solids and Structures</i> , 2022, 253, 111446.	2.7	8

#	ARTICLE	IF	CITATIONS
19	Formulation of the tangential velocity slip problem in terms of variational inequalities. Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology, 2014, 228, 1122-1135.	1.8	5
20	A simple method of analysis of partial slip in shrink-fitted shafts under torsion. International Journal of Mechanical Sciences, 2018, 142-143, 541-546.	6.7	5
21	A Note on the Legendre Series Solution of the Laplace Equation for Cylindrical Problems. Journal of Elasticity, 2015, 118, 109-112.	1.9	4
22	Shaft-hub press fit subjected to couples and radial forces: analytical evaluation of the shaft-hub detachment loading. Journal of Mechanics of Materials and Structures, 2018, 13, 283-296.	0.6	3
23	Stresses in the cap of a connecting rod. Engineering Failure Analysis, 2021, 129, 105693.	4.0	3
24	Stress Concentrations at the Rounded Edges of a Shaft-Hub Interference Fit Expressed in Terms of a Coefficient Normalizing the Coupling Geometry and the Young's Modulus Effects. , 2012, , .		2
25	Analysis of a segmented locking ring for shell-bottom connection in pressure vessels. Materials Today: Proceedings, 2018, 5, 26766-26771.	1.8	2
26	On the Strength Weakening Effect of Stiffening Ribs in the Design of Machine Components. Key Engineering Materials, 0, 827, 240-245.	0.4	2
27	Composite Materials in Automotive: Improving Safety by Refining FEA Correlation. , 2013, , .		0
28	A Sensitivity-Based Approach to Improve Efficiency of Automotive Chassis Architecture. , 2013, , .		0