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List of Publications by Year in descending order

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62
papers

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citations

1039406

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14
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62
all docs

62
docs citations

62
times ranked

204
citing authors

#	ARTICLE	IF	CITATIONS
1	In-pipe micromachine locomotion via the inertial stepping principle. Journal of Mechanical Science and Technology, 2014, 28, 3237-3247.	0.7	23
2	Inverse and Forward Dynamic Analysis of Two Link Manipulator. Procedia Engineering, 2012, 48, 158-163.	1.2	21
3	Methodology of contact stress analysis of gearwheel by means of experimental photoelasticity. Applied Optics, 2016, 55, 4856.	2.1	18
4	Modeling of Two-Wheeled Self-Balancing Robot Driven by DC Gearmotors. International Journal of Applied Mechanics and Engineering, 2017, 22, 739-747.	0.3	15
5	Sizing and Topology Optimization of Trusses Using Genetic Algorithm. Materials, 2021, 14, 715.	1.3	13
6	Applications of the Strain Gauge for Determination of Residual Stresses using Ring-core Method. Procedia Engineering, 2012, 48, 396-401.	1.2	12
7	A geometric approach to modeling of four- and five-link planar snake-like robot. International Journal of Advanced Robotic Systems, 2016, 13, 172988141666371.	1.3	12
8	Meshing Stiffness – A Parameter Affecting the Emission of Gearboxes. Applied Sciences (Switzerland), 2020, 10, 8678.	1.3	11
9	The Influence of Automated Machining Strategy on Geometric Deviations of Machined Surfaces. Applied Sciences (Switzerland), 2021, 11, 2353.	1.3	11
10	Application of holographic interferometry in the analysis of stress states in a crack root area. Applied Optics, 2020, 59, D170.	0.9	10
11	Further Possibilities of Using Software PhotoStress for Separation of Principal Normal Stresses. Acta Mechanica Slovaca, 2010, 14, 82-91.	0.1	9
12	Experimental analysis of stress fields of rotating structural elements by means of reflection photoelasticity. Applied Optics, 2017, 56, 3064.	2.1	9
13	Kinematic Analysis of Mechanisms Using MSC Adams. Applied Mechanics and Materials, 0, 611, 83-89.	0.2	8
14	Analysis of the Fatigue Life of Composite Leaf Springs. Applied Mechanics and Materials, 0, 611, 346-351.	0.2	8
15	Application of the harmonic star method in photoelastic separation of principal stresses. Applied Optics, 2016, 55, 425.	2.1	8
16	Experimental Assessment of Time-Limited Operation and Rectification of a Bridge Crane. Materials, 2020, 13, 2708.	1.3	8
17	New Possibilities of using PhotoStress® Method. Acta Mechanica Slovaca, 2011, 15, 44-50.	0.1	8
18	Machine Vision System Measuring the Trajectory of Upper Limb Motion Applying the Matlab Software. Measurement Science Review, 2019, 19, 1-8.	0.6	8

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19	The Use of Optical Methods in the Analysis of the Areas with Stress Concentration. Strojnický Casopis, 2018, 68, 61-76.	0.3	8
20	Automation of Experiments in Photoelasticity. Procedia Engineering, 2012, 48, 153-157.	1.2	7
21	Analysis of Simple Mechanism Using MSC Adams. Manufacturing Technology, 2014, 14, 141-145.	0.2	7
22	Lifetime Assessment of the Technological Equipment for a Robotic Workplace. International Journal of Applied Mechanics, 2020, 12, 2050097.	1.3	6
23	Kinematic Analysis of Crank Rocker Mechanism Using MSC Adams/View. Applied Mechanics and Materials, 0, 611, 90-97.	0.2	4
24	Influence of the Shape of Gear Wheel Bodies in Marine Engines on the Gearing Deformation and Meshing Stiffness. Journal of Marine Science and Engineering, 2021, 9, 1060.	1.2	4
25	Experimental Identification of Linear Actuator Properties. Acta Mechanica Slovaca, 2015, 19, 42-47.	0.1	4
26	Verification of Stress Components Determined by Experimental Methods Using Airy Stress Function. Procedia Engineering, 2012, 48, 295-303.	1.2	3
27	Application of PhotoStress method in Stress Analysis of Structural Elements Under Consideration of Centrifugal Force Effect. Procedia Engineering, 2014, 96, 235-241.	1.2	3
28	Wheeled mobile robot in structured environment. , 2018, , .		3
29	Influence of Different Strain Hardening Models on the Behavior of Materials in the Elastic-Plastic Regime under Cyclic Loading. Materials, 2020, 13, 5323.	1.3	3
30	Numerical Simulation of Intrachamber Processes in the Power Plant. Applied Sciences (Switzerland), 2021, 11, 4990.	1.3	3
31	Motion Analysis of the Hydraulic Ladder. International Journal of Applied Mechanics and Engineering, 2019, 24, 230-240.	0.3	3
32	Photoelast Method and Possible Applications of Mathematical Statistics in Prediction of Stress State of Structural Elements. Applied Mechanics and Materials, 0, 611, 405-411.	0.2	2
33	Stability Loss Analysis for Thin-Walled Shells with Elliptical Cross-Sectional Area. Materials, 2021, 14, 5636.	1.3	2
34	EVALUATION OF RESIDUAL STRESSES USING OPTICAL METHODS. Acta Mechatronica, 2019, 4, 29-34.	0.1	2
35	Implementation of Correction Coefficients Relevant for Photoelastic Coatings into the PhotoStress Software. Applied Mechanics and Materials, 0, 486, 26-31.	0.2	1
36	Increase of Tool Steel Durability in Abrasion Wear Conditions. Applied Mechanics and Materials, 2014, 611, 424-429.	0.2	1

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37	Aberration Problem within the Process of Automation of the Photoelastic Measurement of the Stresses. Key Engineering Materials, 0, 635, 51-56.	0.4	1
38	Friction Force Identification for Machine Locomotion. Applied Mechanics and Materials, 2015, 816, 276-281.	0.2	1
39	Building Elements of Bond Graphs. Applied Mechanics and Materials, 2015, 816, 339-348.	0.2	1
40	Utilisation Possibilities of PhotoStress Method in Determination of Residual Stresses. Applied Mechanics and Materials, 0, 732, 3-8.	0.2	1
41	Contribution to computer simulation of problems from the theory of mechanisms focused on robots. AIP Conference Proceedings, 2019, , .	0.3	1
42	KINEMATICS OF POSITIONING DEVICE FOR MATERIAL HANDLING IN MANUFACTURING. Acta Logistica, 2021, 8, 11-18.	0.4	1
43	Modal Analysis of Beam Oscillation. Acta Mechanica Slovaca, 2021, 25, 52-58.	0.1	1
44	Characteristic Entities in PhotoStress Method. American Journal of Mechanical Engineering, 2014, 2, 239-243.	0.4	1
45	Distorsion of Isochromatic Fringes in the Process of Stress Measurement in Structural Part by Photoelasticimetry. Strojnický Casopis, 2018, 68, 53-60.	0.3	1
46	GLUED JOINTS IN THE AUTOMOTIVE INDUSTRY. Acta Mechatronica, 2019, 4, 23-28.	0.1	1
47	Geometric Optimization of the Differential Gearbox. Applied Mechanics and Materials, 0, 611, 311-315.	0.2	0
48	The Parameters Affecting Strength Calculation of Gears. Key Engineering Materials, 2014, 635, 30-34.	0.4	0
49	Matematic Model of the Use of Raw Spheroidal Iron Casts. Procedia Engineering, 2014, 96, 257-267.	1.2	0
50	Proposal of Methodology for Verification of Stress Distribution in Bolted Joints by Optical Method. Applied Mechanics and Materials, 2015, 816, 443-450.	0.2	0
51	Kinematic Analysis of the Crank Mechanism with Rotating Cylinder Using MSC Adams/View. Applied Mechanics and Materials, 2015, 816, 213-223.	0.2	0
52	Impact of dynamics of the frame on the performance of the positioning servosystem. International Journal of Advanced Robotic Systems, 2016, 13, 172988141666366.	1.3	0
53	Use of PhotoStress Method for Strength Analysis of Clutch Pedal. , 2019, , .		0
54	Analysis of residual stresses on guide bar of chainsaw. IOP Conference Series: Materials Science and Engineering, 2020, 776, 012073.	0.3	0

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55	Selected Problems and the Interpretation of the Application of Contoured Photoelastic Sheets to Irregularly Shaped Structural Elements. Acta Mechanica Slovaca, 2012, 16, 12-19.	0.1	0
56	Stress Analysis of a Rotating Body by Means of Photostress Method and Using Solidworks Programme. American Journal of Mechanical Engineering, 2014, 2, 226-230.	0.4	0
57	ESIGN OF BODY WHEEL SHAPE TO IMPROVE TEETH STIFFNESS FOR GEARBOX OF MECHATRONIC SYSTEMS. Acta Mechatronica, 2018, 3, 11-14.	0.1	0
58	WRIST REHABILITATION WITH MANIPULATOR TO PERFORM PASSIVE AND ACTIVE EXERCISES. Lekar A Technika, 2019, 49, 52-57.	0.1	0
59	GEARING WITH VARIABLE GEAR RATIO APPLIED IN MECHANICAL SYSTEMS. Acta Mechatronica, 2020, 5, 1-5.	0.1	0
60	VALUE OF DEFORMATION ENERGY DEPENDING ON DEFORMATION OF FLEXIBLE PNEUMATIC ELEMENT. Acta Mechatronica, 2020, 5, 19-22.	0.1	0
61	ANALYSIS OF INDUCTIVE SENSOR FIXING CLAMP IN RAILWAY APPLICATIONS. Acta Mechatronica, 2020, 5, 35-40.	0.1	0
62	EVALUATION OF SUPPLIERS' QUALITY AND SIGNIFICANCE BY METHODS BASED ON WEIGHTED ORDER. Acta Logistica, 2020, 7, 1-7.	0.4	0