

# Florina Carmen Ciornei

## List of Publications by Year in descending order

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46  
papers

85  
citations

1684188

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h-index

1720034

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g-index

48  
all docs

48  
docs citations

48  
times ranked

32  
citing authors

#	ARTICLE	IF	CITATIONS
1	Validation of Nonlinear Dependence of Rolling Friction Moment on the Normal Force for Elastic Materials. <i>Materials</i> , 2022, 15, 2518.	2.9	2
2	An Analytical Solution for Non-Linear Viscoelastic Impact. <i>Mathematics</i> , 2021, 9, 1849.	2.2	2
3	A Numerical Procedure for Position Analysis of a Robotic Structure. Part I: General Methodology. <i>Mechanisms and Machine Science</i> , 2021, , 23-32.	0.5	0
4	Proposed parameter for the characterization of friction in cylindrical gears teeth contact. <i>IOP Conference Series: Materials Science and Engineering</i> , 2020, 724, 012008.	0.6	1
5	Upon the efficiency of gear transmissions. <i>Journal of Physics: Conference Series</i> , 2020, 1426, 012012.	0.4	0
6	Indetermination versus incompatibility in dynamic systems with dry friction. <i>Journal of Physics: Conference Series</i> , 2020, 1426, 012011.	0.4	1
7	Aspects concerning the friction for the motion on an inclined plane of an axisymmetric body. <i>IOP Conference Series: Materials Science and Engineering</i> , 2019, 477, 012036.	0.6	2
8	Kinematical analysis of a generalized Cardanic joint. <i>IOP Conference Series: Materials Science and Engineering</i> , 2019, 477, 012037.	0.6	2
9	An improved technique of finding the coefficient of rolling friction by inclined plane method. <i>IOP Conference Series: Materials Science and Engineering</i> , 2019, 514, 012004.	0.6	2
10	Method for simultaneous estimation of rolling and spinning friction in a higher pair. <i>IOP Conference Series: Materials Science and Engineering</i> , 2019, 514, 012005.	0.6	0
11	Use of dual numbers in kinematical analysis of spatial mechanisms. Part I: principle of the method. <i>IOP Conference Series: Materials Science and Engineering</i> , 2019, 568, 012033.	0.6	3
12	Use of dual numbers in kinematical analysis of spatial mechanisms. Part II: applying the method for the generalised Cardan mechanism. <i>IOP Conference Series: Materials Science and Engineering</i> , 2019, 568, 012032.	0.6	2
13	Scuffing analysis of roller-shoe mechanism after an aggressive test. <i>IOP Conference Series: Materials Science and Engineering</i> , 2019, 591, 012020.	0.6	4
14	Employment of hyper-cycloidal oscillatory motion for finding the coefficient of rolling friction. Part 2: Experimental investigation. <i>IOP Conference Series: Materials Science and Engineering</i> , 2019, 514, 012003.	0.6	0
15	Theoretical and Experimental Aspects Regarding Nonlinear Effects of Dry Friction and Unbalanced Rotational Mass in a Dynamical System. <i>Mechanika</i> , 2019, 24, .	0.5	0
16	Finding the coefficient of rolling friction using a pericycloidal pendulum. <i>IOP Conference Series: Materials Science and Engineering</i> , 2018, 444, 022015.	0.6	4
17	Determining the coefficient of rolling friction using hypocycloidal oscillations. <i>IOP Conference Series: Materials Science and Engineering</i> , 2018, 444, 022017.	0.6	0
18	Grapho-analytical kinematic analysis for plane cam mechanisms and follower with finite curvature. <i>IOP Conference Series: Materials Science and Engineering</i> , 2018, 444, 052001.	0.6	0

#	ARTICLE	IF	CITATIONS
19	An improved model for the damped impact of composite materials applicable to wind turbine blades. MATEC Web of Conferences, 2018, 184, 01008.	0.2	0
20	Dynamical analysis of a 2-degrees of freedom spatial pendulum. MATEC Web of Conferences, 2018, 184, 01003.	0.2	1
21	The importance of correct specification of tribological parameters in dynamical systems modelling. IOP Conference Series: Materials Science and Engineering, 2018, 294, 012039.	0.6	2
22	Analytical kinematics for direct coupled shafts using a point-surface contact. IOP Conference Series: Materials Science and Engineering, 2018, 444, 052002.	0.6	2
23	Identification of exponent from load-deformation relation for soft materials from impact tests. IOP Conference Series: Materials Science and Engineering, 2018, 294, 012041.	0.6	0
24	Considerations on finding the rolling and spinning friction coefficients. MATEC Web of Conferences, 2018, 184, 01009.	0.2	0
25	Graphical-analytical analysis of the mechanism with rotating cam and flat-face follower. MATEC Web of Conferences, 2018, 184, 01010.	0.2	1
26	Upon the relationship between rolling friction and sliding friction. IOP Conference Series: Materials Science and Engineering, 2018, 400, 042002.	0.6	3
27	Valuation of coefficient of rolling friction by the inclined plane method. IOP Conference Series: Materials Science and Engineering, 2017, 200, 012006.	0.6	8
28	Method and device for measurement of dynamic viscosity. IOP Conference Series: Materials Science and Engineering, 2017, 174, 012041.	0.6	5
29	Testing the assumption of linear dependence between the rolling friction torque and normal force. MATEC Web of Conferences, 2017, 112, 07002.	0.2	1
30	A method for the determination of the coefficient of rolling friction using cycloidal pendulum. IOP Conference Series: Materials Science and Engineering, 2017, 227, 012027.	0.6	9
31	Estimation of coefficient of rolling friction by the evolvent pendulum method. IOP Conference Series: Materials Science and Engineering, 2017, 200, 012005.	0.6	6
32	Use of loading-unloading compression curves in medical device design. IOP Conference Series: Materials Science and Engineering, 2017, 227, 012026.	0.6	0
33	Damped periodic motions used in the study of the drag coefficient. MATEC Web of Conferences, 2017, 112, 07003.	0.2	0
34	Rigidity versus deformability hypothesis in impact dynamics. MATEC Web of Conferences, 2017, 112, 07005.	0.2	0
35	The effect of transport velocity upon spin torque. IOP Conference Series: Materials Science and Engineering, 2017, 174, 012008.	0.6	3
36	Method and device for dynamic modelling of rubbery materials applied to human soft tissues. Part I: determination of mechanical characteristics and dynamic model proposal. IOP Conference Series: Materials Science and Engineering, 2016, 161, 012056.	0.6	0

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37	Determination of the coefficient of friction using spinning motion. IOP Conference Series: Materials Science and Engineering, 2016, 147, 012024.	0.6	1
38	Considerations upon applying tripodic coupling in artificial hip joint. IOP Conference Series: Materials Science and Engineering, 2016, 147, 012074.	0.6	2
39	Method and device for dynamic modelling of rubbery materials applied to human soft tissues. Part II: device and experimental results. IOP Conference Series: Materials Science and Engineering, 2016, 161, 012057.	0.6	0
40	Experimental Highlight of Hysteresis Phenomenon in Rolling Contact. Journal of Physics: Conference Series, 2015, 585, 012010.	0.4	2
41	Method of Integration for Equation of Two Balls in Dumped Collision. Journal of Physics: Conference Series, 2015, 585, 012008.	0.4	2
42	CONSIDERATIONS UPON A NEW TRIPOD JOINT SOLUTION. Mechanika, 2013, 19, .	0.5	11
43	Experimental Aspects Concerning Self-locking Angle. , 2010, , 479-493.		0
44	Some Consideration Regarding the Models for Collisions with Plastic Indentation. Applied Mechanics and Materials, 0, 658, 161-166.	0.2	1
45	The effect of mass eccentricity upon tribological test results. IOP Conference Series: Materials Science and Engineering, 0, 444, 022016.	0.6	0
46	Employment of hyper-cycloidal oscillatory motion for finding the coefficient of rolling friction. Part 1: Theoretical model. IOP Conference Series: Materials Science and Engineering, 0, 514, 012002.	0.6	0