

# Ionut Geonea

## List of Publications by Year in descending order

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84  
papers

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citations

1163117

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g-index

92  
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92  
docs citations

92  
times ranked

59  
citing authors

#	ARTICLE	IF	CITATIONS
1	Design and evaluation of a new exoskeleton for gait rehabilitation. Mechanical Sciences, 2017, 8, 307-321.	1.0	39
2	Static and Dynamic Analysis of Osteoarthritic and Orthotic Human Knee. Journal of Bionic Engineering, 2019, 16, 514-525.	5.0	23
3	Dynamic Analysis of an Exoskeleton New Ankle Joint Mechanism. Mechanisms and Machine Science, 2015, , 709-717.	0.5	23
4	Numerical Simulations and Experimental Human Gait Analysis Using Wearable Sensors. Mechanisms and Machine Science, 2018, , 289-304.	0.5	19
5	Experimental Characterization of Human Walking on Stairs Applied to Humanoid Dynamics. Advances in Intelligent Systems and Computing, 2017, , 293-301.	0.6	18
6	A Parallel Robot with Torque Monitoring for Brachial Monoparesis Rehabilitation Tasks. Applied Sciences (Switzerland), 2021, 11, 9932.	2.5	17
7	Design and Simulation of a Single DOF Human-Like Leg Mechanism. Applied Mechanics and Materials, 0, 332, 491-496.	0.2	16
8	New Assistive Device for People with Motor Disabilities. Applied Mechanics and Materials, 0, 772, 574-579.	0.2	15
9	Characterization of Sunflower Oil Biodiesel as Alternative for Diesel Fuel. Proceedings in Automotive Engineering, 2019, , 172-180.	0.1	11
10	Dynamic Analysis of a Spherical Parallel Robot Used for Brachial Monoparesis Rehabilitation. Applied Sciences (Switzerland), 2021, 11, 11849.	2.5	10
11	Experimental and theoretical study of friction torque from radial ball bearings. IOP Conference Series: Materials Science and Engineering, 2017, 252, 012048.	0.6	8
12	Design and Motion Analysis of a Powered Wheelchair. Applied Mechanics and Materials, 2015, 772, 613-620.	0.2	7
13	Experimental Human Walking and Virtual Simulation of Rehabilitation on Plane and Inclined Treadmill. Springer Proceedings in Physics, 2018, , 149-155.	0.2	7
14	Design and Simulation of a Mechanism for Human Leg Motion Assistance. Advanced Materials Research, 2014, 1036, 811-816.	0.3	5
15	Design and kinematics of a new leg exoskeleton for human motion assistance. Mechanisms and Machine Science, 2019, , 165-174.	0.5	5
16	Characterization of Titanium Alloy Obtained by Powder Metallurgy. Materials, 2022, 15, 2057.	2.9	4
17	Design Approaches of an Exoskeleton for Human Neuromotor Rehabilitation. Applied Sciences (Switzerland), 2022, 12, 3952.	2.5	4
18	Dynamic Modelling and Simulation of an Auto Vehicle Steering Mechanism Considering its Elements as Flexible. Applied Mechanics and Materials, 2012, 245, 150-155.	0.2	3

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19	New design and motion analysis of an exoskeleton robot for assisting human locomotion. , 2020, , .		3
20	Theoretical and experimental study methods for a robotic system with deformable elements used in minimally invasive surgery. Mechanism and Machine Theory, 2022, 167, 104459.	4.5	3
21	Motion Analysis of a Robotic Wheelchair. Advances in Intelligent Systems and Computing, 2016, , 471-479.	0.6	3
22	Design And Structural Analysis Of A Powered Wheelchair Transmission. ACTA Universitatis Cibiniensis, 2015, 67, 37-43.	0.1	2
23	Design of a Test Rig for Vehicle Stabilizer Bar Fatigue Study. Applied Mechanics and Materials, 0, 880, 226-231.	0.2	2
24	Motion assistance with an exoskeleton for stair climb. , 2018, , .		2
25	Oxygen Sensor Testing for Automotive Applications. Applied Mechanics and Materials, 0, 896, 249-254.	0.2	2
26	Design, Manufacture and Testing of a S Type Force Transducer. Applied Mechanics and Materials, 0, 896, 255-262.	0.2	2
27	Kinematic and Dynamic Study of a Mechanism for a Vehicle Front and Rear Stabilizer Bars. , 2017, , 161-169.		2
28	A New Exoskeleton Robot for Human Motion Assistance. , 2022, , .		2
29	Study upon the Dynamic Answer of Plane Manipulators. Advanced Materials Research, 2012, 463-464, 1304-1308.	0.3	1
30	Vehicle Steering Mechanism Elastodynamic Analysis. Applied Mechanics and Materials, 2016, 823, 241-246.	0.2	1
31	Car Jack Based on 6R Overconstrained Mechanism. Applied Mechanics and Materials, 2016, 822, 12-17.	0.2	1
32	Development of a Three-Dimensional Finite Element Knee Prosthesis Model. Applied Mechanics and Materials, 2016, 822, 150-155.	0.2	1
33	Experimental Investigations Concerning Friction from Threaded Assemblies. Applied Mechanics and Materials, 0, 880, 33-38.	0.2	1
34	â€œIn vitroâ€œ Implantation Technique Based on 3D Printed Prosthetic Prototypes. IOP Conference Series: Materials Science and Engineering, 2018, 374, 012060.	0.6	1
35	Computation of a torsion spring stabilizer bar rigidity and fatigue resistance. IOP Conference Series: Materials Science and Engineering, 2019, 568, 012013.	0.6	1
36	Surface roughness measuring in case of electro-erosion processed work pieces. IOP Conference Series: Materials Science and Engineering, 2019, 568, 012023.	0.6	1

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37	Vibrations influence on the operation of gears. IOP Conference Series: Materials Science and Engineering, 2019, 568, 012037.	0.6	1
38	Dynamic Analysis of a Human Ankle Joint Prosthesis. IOP Conference Series: Materials Science and Engineering, 2019, 568, 012077.	0.6	1
39	Dynamic and Modal Analysis of a Snake like Robot. Applied Mechanics and Materials, 2020, 896, 203-210.	0.2	1
40	About the Vibration and Dynamics of a Bus Chassis. Applied Mechanics and Materials, 2020, 896, 97-104.	0.2	1
41	Experimental measurement of the cutting forces and wear of the drill in processing X17CrNi16-2 martensitic stainless steel. Mechanical Sciences, 2021, 12, 269-287.	1.0	1
42	Dynamic Models for Analyzing a Self-propelled Vehicle for People with Locomotor Disabilities. Proceedings in Automotive Engineering, 2019, , 667-675.	0.1	1
43	The Monitoring of the Submarine Effect in Frontal Collisions, at Different Impact Speeds and for the Driver's Out of Position Instances. Proceedings in Automotive Engineering, 2019, , 799-807.	0.1	1
44	Nonlinear Dynamic Analysis of Human Sit-to-Stand Movement with Application to the Robotic Structures. Mechanisms and Machine Science, 2021, , 238-246.	0.5	1
45	Dynamic Optimization of a Plane Manipulator. Advanced Materials Research, 2012, 463-464, 1006-1010.	0.3	0
46	Structure and Kinematics of Mechanisms for Position and Control from Farming Machine. Advanced Materials Research, 0, 463-464, 1021-1024.	0.3	0
47	Design Considerations Regarding a New Knee Orthosis. Applied Mechanics and Materials, 0, 162, 276-285.	0.2	0
48	Determining the Design Specifications for Mechanical Polyarticulated System Compatible with Minimally Invasive Surgery. Mechanisms and Machine Science, 2013, , 367-374.	0.5	0
49	Motion Evaluation Of A Wheelchair Prototype For Disabled People. ACTA Universitatis Cibiniensis, 2015, 67, 44-50.	0.1	0
50	Design of a Wheelchair Intended to Humans with Locomotors Disabilities. Applied Mechanics and Materials, 2016, 822, 293-298.	0.2	0
51	The Modal Analysis for the Helicoidally Spring of the Macpherson Automotive Suspension. Applied Mechanics and Materials, 2016, 822, 83-88.	0.2	0
52	Design of a Transmission for Wheelchairs Intended to Humans with Locomotors Disabilities. Applied Mechanics and Materials, 2016, 822, 60-67.	0.2	0
53	Experimental Measurements of the Human Knee Flexion Angle during Squat Exercises. Applied Mechanics and Materials, 0, 823, 113-118.	0.2	0
54	Experimental Validation of an Exoskeleton for Motion Assistance. Applied Mechanics and Materials, 2018, 880, 111-117.	0.2	0

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55	Focusing device based on overconstrained mechanism. IOP Conference Series: Materials Science and Engineering, 2019, 568, 012004.	0.6	0
56	Vehicle dynamics influence on traffic safety in case of a certain route deceleration. IOP Conference Series: Materials Science and Engineering, 2019, 568, 012056.	0.6	0
57	Research about the quality of the surface after turning out of duralumin alloy. IOP Conference Series: Materials Science and Engineering, 2019, 568, 012066.	0.6	0
58	Application of thermogravimetric analysis for thermal characterization of walnut oil and biodiesel. IOP Conference Series: Materials Science and Engineering, 2019, 568, 012075.	0.6	0
59	Focusing Device Based on Overconstrained Mechanism. IOP Conference Series: Materials Science and Engineering, 2019, 568, 012085.	0.6	0
60	Influence of Gates on Quality Parameters for a Joystick Handler. Materials Science Forum, 0, 957, 399-408.	0.3	0
61	Considerations on Single and Multiple Nests Molding Injection. Applied Mechanics and Materials, 0, 896, 286-292.	0.2	0
62	About the Static Mechanical Properties of Epoxy/Hemp Composites. Applied Mechanics and Materials, 0, 896, 321-326.	0.2	0
63	Circular-Arc Radial Cams with One Connection Arc. Applied Mechanics and Materials, 2020, 896, 83-94.	0.2	0
64	Research in the field of vibration of automotive systems. IOP Conference Series: Materials Science and Engineering, 2020, 898, 012039.	0.6	0
65	Experimental Determination of the Loading Capacity of the Elastic Bracelet Assembly. IOP Conference Series: Materials Science and Engineering, 2020, 724, 012006.	0.6	0
66	Modeling the Vibrations of the Pale of a Wind. Applied Mechanics and Materials, 2020, 896, 47-58.	0.2	0
67	Structural Design and Kinematics Study of a Mechanism for Quadruped Walking. Mechanisms and Machine Science, 2013, , 441-449.	0.5	0
68	Dynamic Modelling of a Four Legged Robot. Mechanisms and Machine Science, 2015, , 147-155.	0.5	0
69	MOTION STUDY OF A WHEELCHAIR PROTOTYPE FOR DISABLED PEOPLE. Annals of the Oradea University: Fascicle Management and Technological Engineering, 2015, XXIV (XIV), 2015/1, .	0.1	0
70	DESIGN, KINEMATIC AND STRUCTURAL ANALYSIS OF A WHEELCHAIR TRANSMISSION. Annals of the Oradea University: Fascicle Management and Technological Engineering, 2015, XXIV (XIV), 2015/2, .	0.1	0
71	Numerical Simulation of a Leg Exoskeleton for Human Motion Assistance. Mechanisms and Machine Science, 2019, , 101-108.	0.5	0
72	Dynamic Analysis of a Human Ankle Joint Prosthesis. Annals of the Oradea University: Fascicle Management and Technological Engineering, 2019, Volume XXIX (XIX), 2019/2, .	0.1	0

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73	Vibrations influence on the operation of gears. Annals of the Oradea University: Fascicle Management and Technological Engineering, 2019, Volume XXIX (XIX), 2019/1, .	0.1	0
74	Surface roughness measuring in case of electro-erosion processed work pieces. Annals of the Oradea University: Fascicle Management and Technological Engineering, 2019, Volume XXIX (XIX), 2019/1, .	0.1	0
75	Solicitations in the Rear Axle Support of a Karting Frame. , 2020, , 607-613.		0
76	Surface Roughness and Temperature in Dry Milling of an Austenitic Stainless Steel. , 2020, , 670-677.		0
77	An Engine Mechanism Dynamic Analysis by Considering the Kinematic Elements as Deformable Ones. , 2020, , 15-25.		0
78	Experimental Stand to Evaluate Engine Mass Air Flow (MAF) Sensor. , 2020, , 26-30.		0
79	Computer-Assisted Learning Used to Overconstrained Mechanism's Mobility. Mechanisms and Machine Science, 2020, , 519-527.	0.5	0
80	Mechanical properties determination for a hybrid sandwich bar reinforced with steel wire mesh. IOP Conference Series: Materials Science and Engineering, 0, 997, 012030.	0.6	0
81	Modeling of Dynamic Behavior of a Spur Gear. , 2020, , 559-564.		0
82	Gears Dynamic Response to Vibrations. Springer Proceedings in Physics, 2021, , 91-100.	0.2	0
83	MOTION STUDY OF A WHEELCHAIR PROTOTYPE FOR DISABLED PEOPLE. Annals of the Oradea University: Fascicle Management and Technological Engineering, 2015, XXIV (XIV), 2015/1, .	0.1	0
84	DESIGN, KINEMATIC AND STRUCTURAL ANALYSIS OF A WHEELCHAIR TRANSMISSION. Annals of the Oradea University: Fascicle Management and Technological Engineering, 2015, XXIV (XIV), 2015/2, .	0.1	0