## Catalin Alexandru

## List of Publications by Year in descending order

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A Method for Finding the Static Equilibrium of the Non-Steered Wheel Suspension Systems Used in
Passenger Cars. Applied Sciences (Switzerland), 2022, 12, 7122.

Multi-Criteria Optimization of an Innovative Suspension System for Race Cars. Applied Sciences (Switzerland), 2021, 11, 4167.

Optimization of the Bi-Axial Tracking System for a Photovoltaic Platform. Energies, 2021, 14, 535.
1.6

Performance of Diaphragm Elastic Elements in ABS. Applied Mechanics and Materials, 2020, 896, 241-248.
0.2

A STUDY ON THE SEMI-ACTIVE SUSPENSION SYSTEMS USED FOR MOTOR VEHICLES. Journal of Research
and Innovation for Sustainable Society, 2020, 2, 16-25.

ANALYTICAL METHOD FOR THE KINEMATICS OF THE MULTI-LINK GUIDING MECHANISMS USED FOR VEHICLE
6 REAR AXLE SUSPENSION. Journal of Research and Innovation for Sustainable Society, 2020, 2, 13-20.
$0.1 \quad 0$

7 Optimal design of the dual-axis tracking system used for a PV string platform. Journal of Renewable
and Sustainable Energy, 2019, 11, .
$0.8 \quad 11$

Method for the quasi-static analysis of beam axle suspension systems used for road vehicles.
8 Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering, 2019, 233, 1818-1833.

A REVIEW ON THE SUN TRACKING MECHANISMS FOR PV STRINGS. Journal of Research and Innovation for
$9 \quad$ Sustainable Society, 2019, 1, 5-14.

10 Aspects regarding the experimental research of the stressors of the human pregnancy in case of road
events. MATEC Web of Conferences, 2018, 184, 01006.
0.1
0.1

0

11 Optimizing the mechanical device of a mono-axial sun tracking mechanism. MATEC Web of
Conferences, 2018, 184, 01001.

Optimizing the control system of a single-axis sun tracking mechanism. MATEC Web of Conferences, 2018, 184, 01002.

Numerical Method for the Kinematic Analysis of the Spatial Multi-Link Mechanisms. International Journal of Modeling and Optimization, 2018, 8, 101-105.
$0.4 \quad 1$

A mechanical integral steering system for increasing the stability and handling of motor vehicles.
14 Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2017, 231, 1465-1480.

15 Mono-Objective Optimization of a Photovoltaic Tracking System with LPF Controllers. Applied Mechanics and Materials, 2016, 823, 7-12.

Method for the multi-criteria optimization of car wheel suspension mechanisms. Ingenieria E
Investigacion, 2016, 36, 60.

Dynamic Modeling and Simulation of a 4-Wheel Integral Steering Vehicle. Applied Mechanics and
Materials, 2015, 811, 284-290.
0.2

A comparative analysis between the tracking solutions implemented on a photovoltaic string. Journal
of Renewable and Sustainable Energy, 2014, 6, .
Dynamic Optimization of a Single-Seater Car Suspension System. Applied Mechanics and Materials, 2014,
$658,147-152$.

| 27 | Design and Optimization of a Monoaxial Tracking System for Photovoltaic Modules. Journal of Solar Energy, 2013, 2013, 1-6. | 0.8 | 4 |
| :---: | :---: | :---: | :---: |
| 28 | Study Concerning the Effect of the Bushings' Deformability on the Static Behavior of the Rear Axle Guiding Linkages. Applied Mechanics and Materials, 2012, 245, 132-137. | 0.2 | 5 |
| 29 | Dynamic optimization of the tracking system for a pseudo-azimuthal photovoltaic platform. Journal of Renewable and Sustainable Energy, 2012, 4, . | 0.8 | 15 |
| 30 | Optimal algorithm for spray pyrolysis deposition of TiO 2 films by using an industrial robot. Journal of Renewable and Sustainable Energy, 2012, 4, . | 0.8 | 5 |
| 31 | Design and simulation of a steering gearbox with variable transmission ratio. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2012, 226, 2538-2548. | 1.1 | 19 |

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37 The design and optimization of a photovoltaic tracking mechanism. , 2009, , .
43 Designing the Tracking System for a String of Photovoltaic Modules. Advanced Materials Research, O,
\(463-464,1589-1592\).```

