

# Andrzej Baier

## List of Publications by Year in descending order

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Version: 2024-02-01

49  
papers

170  
citations

1464605

7  
h-index

1427216

11  
g-index

50  
all docs

50  
docs citations

50  
times ranked

57  
citing authors

#	ARTICLE	IF	CITATIONS
1	FEM ANALYSIS OF WOODEN JOINTS AND WOODEN STRUCTURE OF THE ELECTRIC CAR'S FRAME. MATTER International Journal of Science and Technology, 2022, 8, 01-16.	0.1	0
2	Preliminary Study on Mechanical Aspects of 3D-Printed PLA-TPU Composites. Materials, 2022, 15, 2364.	1.3	5
3	Race car mirror cover production focused on reducing air drag. IOP Conference Series: Materials Science and Engineering, 2021, 1182, 012055.	0.3	0
4	Optimization of Abs 3D-Printing Method and Parameters. European Journal of Engineering Science and Technology, 2020, 3, 44-51.	0.4	13
5	Chassis Geometry Optimization based on 3D-scans of the Ergonomic Driving Position. , 2020, , 1213-1218.		1
6	CFD analysis of a hybrid, Darrieus-Savonius, horizontal wind turbine, using static and moving mesh. IOP Conference Series: Materials Science and Engineering, 2019, 591, 012049.	0.3	1
7	Designing and verifying the concept of Silesian Greenpower electric bolide structure. IOP Conference Series: Materials Science and Engineering, 2019, 564, 012120.	0.3	1
8	Telemetric System for Silesian Greenpower's Vehicle. IOP Conference Series: Materials Science and Engineering, 2019, 564, 012119.	0.3	2
9	Finite Elements Analysis of PLA 3D-printed Elements and Shape Optimization. European Journal of Engineering Science and Technology, 2019, , .	0.4	7
10	Influence of 3D-printing Parameters on Mechanical Properties of PLA defined in the Static Bending Test. European Journal of Engineering Science and Technology, 2019, , .	0.4	2
11	The Design and Construction Process of a Test Stand for Casting the Power Steering's Housing with the Use of the Pdcpd Material. IOP Conference Series: Materials Science and Engineering, 2018, 301, 012045.	0.3	0
12	Casting Molding of PDCPD Material for Purpose of Car's Power Steering Body. IOP Conference Series: Materials Science and Engineering, 2018, 301, 012049.	0.3	3
13	Numeric analysis of airflow around the body of the Silesian Greenpower vehicle. MATEC Web of Conferences, 2018, 178, 05014.	0.1	3
14	Molding of auxiliary elements for molding of the power steering gear's polymers body made of PDCPD material. IOP Conference Series: Materials Science and Engineering, 2018, 400, 032006.	0.3	0
15	The manufacturing method of the composite worm gear housing using the cold injection. IOP Conference Series: Materials Science and Engineering, 2018, 400, 032002.	0.3	0
16	The alternative manufacturing process of the mechanism housing. A PDCPD based housing of the power steering system. IOP Conference Series: Materials Science and Engineering, 2018, 400, 032010.	0.3	0
17	Tests of the acoustic emission of the power steering column equipped with a modified composite worm gear housing. Vibroengineering PROCEDIA, 2018, 17, 95-100.	0.3	0
18	Development and analysis of a new technology of freight cars modernization. Journal of Vibroengineering, 2018, 20, 2978-2997.	0.5	4

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19	Molding of strength testing samples using modern PDCPD material for purpose of automotive industry. IOP Conference Series: Materials Science and Engineering, 2017, 227, 012051.	0.3	4
20	The impact of various distance between axes of worm gear on torque value. Worm gear test stand. IOP Conference Series: Materials Science and Engineering, 2017, 227, 012118.	0.3	2
21	Comparison of vibration damping of standard and PDCPD housing of the electric power steering system. IOP Conference Series: Materials Science and Engineering, 2017, 227, 012095.	0.3	3
22	Modal analysis in relation to the casing of an electric power steering system. IOP Conference Series: Materials Science and Engineering, 2017, 227, 012010.	0.3	1
23	An investigation of the influence of a fiber arrangement of a laminate on the values of stresses in the composite panel of a modified freight wagon using the FEM method. MATEC Web of Conferences, 2017, 112, 04015.	0.1	2
24	Calculations of flexibility module in measurements instruments. IOP Conference Series: Materials Science and Engineering, 2017, 227, 012137.	0.3	2
25	Compression studies of multi-layered composite materials for the purpose of verifying composite panels model used in the renovation process of the freight wagon's hull. Eksploatacja i Niezawodnosc, 2017, 20, 137-146.	1.1	6
26	Modelling of Vibrations Subsystems of the Power Steering System Body. DEStech Transactions on Engineering and Technology Research, 2017, , .	0.0	0
27	Testing and analysis of a modernized freight wagon's elements flammability. IOP Conference Series: Materials Science and Engineering, 2016, 145, 042026.	0.3	2
28	Composite materials molding simulation for purpose of automotive industry. IOP Conference Series: Materials Science and Engineering, 2016, 145, 022023.	0.3	7
29	Fatigue test of a fiberglass based composite panel. Increasing the lifetime of freight wagon. IOP Conference Series: Materials Science and Engineering, 2016, 145, 032008.	0.3	3
30	Studies on rail track surface detector properties in the selected frictional coupling conditions. International Journal of Materials and Product Technology, 2015, 51, 375.	0.1	1
31	Carbon fiber based composites stress analysis. Experimental and computer comparative studies. IOP Conference Series: Materials Science and Engineering, 2015, 95, 012011.	0.3	10
32	Computer-aided strength analysis of the modernized freight wagon. IOP Conference Series: Materials Science and Engineering, 2015, 95, 012042.	0.3	20
33	Application of CAD/CAE class systems to aerodynamic analysis of electric race cars. IOP Conference Series: Materials Science and Engineering, 2015, 95, 012044.	0.3	14
34	Application of Programs of the CAD/CAE Class for Creating the Virtual Laboratory Stand. Applied Mechanics and Materials, 2015, 809-810, 841-846.	0.2	2
35	Strain Analysis of an Epoxy Resin Based Composites " Laboratory and Simulation Comparative Studies. Applied Mechanics and Materials, 2015, 809-810, 548-553.	0.2	0
36	Application of Computational Fluid Dynamics for Study of the Occurrence of Aerodynamic Effect for its Application in the Construction of Electric Race Car. Applied Mechanics and Materials, 2015, 809-810, 956-961.	0.2	0

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37	Numerical Modeling of the Phenomena of Frictional Coupling between Wheel and Rail to Describe and Verify the Operation of Surface Condition Detector. <i>Solid State Phenomena</i> , 2015, 220-221, 251-256.	0.3	8
38	Examination of a Cargo Space of a Freight Wagon Modified with Composite Panels. <i>Applied Mechanics and Materials</i> , 2015, 809-810, 944-949.	0.2	4
39	Computer Aided Design and Analysis of Composite Structure. <i>Advanced Materials Research</i> , 2014, 1036, 989-994.	0.3	4
40	Computer Aided Process of Designing the Mechatronic Silesian Greenpower Electric Car. <i>Advanced Materials Research</i> , 2014, 1036, 674-679.	0.3	14
41	SELECTED ASPECTS OF POWER DISTRIBUTION FOR 4WD VEHICLE MOVING ON CURVE. <i>Scientific Journal of the Military University of Land Forces</i> , 2011, 159, 7-20.	0.1	0
42	GRINDING TESTING OF COMPOSITE MATERIALS. <i>Scientific Journal of the Military University of Land Forces</i> , 2011, 159, 21-36.	0.1	0
43	ANALYSIS OF RAILWAY CARRIAGE MOVEMENT ON CURVED TRACK. <i>Scientific Journal of the Military University of Land Forces</i> , 2010, 158, 15-28.	0.1	1
44	Testing device for electrical car networks. <i>Journal of Materials Processing Technology</i> , 2005, 164-165, 1452-1458.	3.1	4
45	Virtual Simulation of Mechatronics Laboratory. <i>Solid State Phenomena</i> , 0, 147-149, 930-935.	0.3	2
46	Computer Aided Analysis of Composite Structural Elements. <i>Applied Mechanics and Materials</i> , 0, 657, 765-769.	0.2	0
47	Computer Modeling and Research of FML Composites Using the Method of Features. <i>Solid State Phenomena</i> , 0, 220-221, 837-842.	0.3	0
48	Studies on optimization of 3D-printed elements applied in Silesian Greenpower vehicle. <i>IOP Conference Series: Materials Science and Engineering</i> , 0, 400, 022010.	0.3	5
49	Influence of Selected Parameters of the Motor Controller on the Current Characteristics of the DC Brush Motor Used in the Silesian Greenpower's Vehicle. <i>IOP Conference Series: Materials Science and Engineering</i> , 0, 520, 012010.	0.3	2