

# Leopold Kruszka

## List of Publications by Year in descending order

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Version: 2024-02-01

79  
papers

306  
citations

1040056

9  
h-index

1058476

14  
g-index

82  
all docs

82  
docs citations

82  
times ranked

254  
citing authors

#	ARTICLE	IF	CITATIONS
1	Strength Characterization of Soilsâ€™ Properties at High Strain Rates Using the Hopkinson Techniqueâ€™A Review of Experimental Testing. <i>Materials</i> , 2022, 15, 274.	2.9	6
2	Introduction to Critical Energy Infrastructure Protection: Risks and Vulnerabilities. <i>NATO Science for Peace and Security Series D, Information and Communication Security</i> , 2022, , .	0.2	1
3	Round-Robin Exercise for Compression Testing of Steel Alloy of Pressure Tank at High Strain Rate. <i>NATO Science for Peace and Security Series D, Information and Communication Security</i> , 2022, , .	0.2	0
4	Comparative analysis of dynamic strength and impact toughness of pipe steels. <i>EPJ Web of Conferences</i> , 2021, 250, 04002.	0.3	1
5	Methodological aspects of testing brittle materials using the split Hopkinson bar technique. <i>Strain</i> , 2021, 57, e12389.	2.4	6
6	Performance characteristics of Hopkinsonâ€™s set-up pneumatic launcher. <i>Acta Polytechnica</i> , 2021, 61, 552-561.	0.6	3
7	Analysis of rail traffic vibrationsâ€™ impact on a residential building. A case study. <i>Rzeczoznawca</i> , 2021, , 35-49.	0.2	0
8	The selection of methods for strengthening of the reinforced-concrete structure of the open tank. <i>Case Studies in Construction Materials</i> , 2020, 12, e00343.	1.7	4
9	FINITE ELEMENT METHOD FOR NUMERICAL MODELING OF ELASTIC-PLASTIC DEFORMATION OF WOOD UNDER SHOCK LOADING. <i>Problems of Strength and Plasticity</i> , 2020, 82, 428-441.	0.2	0
10	Analysis impact of construction site vibrations propagated through the ground on a selected residential building and its residents. <i>Rzeczoznawca</i> , 2020, , 16-23.	0.2	0
11	Determining the technical condition of steel flue gas conduit shaftsâ€™ hot-dip galvanisation, illustrated with the example of chimney stacks at the â€™CZAJKAâ€™ sewage treatment plant in Warsaw. <i>Rzeczoznawca</i> , 2020, , 1-7.	0.2	0
12	Experimental Analysis of Impact and Blast Resistance for Various Built Security Components. <i>NATO Science for Peace and Security Series C: Environmental Security</i> , 2020, , 211-239.	0.2	2
13	Advanced Experimental and Numerical Analysis of Behavior Structural Materials Including Dynamic Conditions of Fracture for Needs of Designing Protective Structures. <i>NATO Science for Peace and Security Series C: Environmental Security</i> , 2020, , 121-137.	0.2	0
14	KONCEPCJA BADAŃ EKSPERYMENTALNYCH ZACHOWANIA SIÄ™ MATERIAŁU OBSYPKI PIASKOWEJ UKRYŃ OCHRONNYCH DLA LUDNOŒCI CYWILNEJ. In: <i>Inżynieria Bezpieczeństwa Obiektów Antropogenicznych</i> , 2020, , .	0.2	2
15	SELECTED TECHNICAL AND LEGAL ASPECTS OF THE PNEUMATIC LAUNCHER OPERATION FOR HOPKINSON MEASURING BARS SET. In: <i>Inżynieria Bezpieczeństwa Obiektów Antropogenicznych</i> , 2020, , .	0.2	0
16	Laboratory investigation on the influence of high compressive strain rates on the hybrid fibre reinforced self-compacting concrete. <i>Construction and Building Materials</i> , 2019, 227, 116687.	7.2	47
17	Diagnostics of the structural failure of sports hall external wall layers. <i>MATEC Web of Conferences</i> , 2019, 284, 02005.	0.2	0
18	Cause-and-effect study of the structural failure of the historic complex of the St. Annaâ€™s Church in Warsaw. <i>MATEC Web of Conferences</i> , 2019, 284, 05002.	0.2	0

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19	Safety assessment of strengthened floor slab structures in a historic department store in Wrocław. MATEC Web of Conferences, 2019, 284, 05007.	0.2	0
20	LOAD-BEARING CAPACITY ANALYSIS OF BUILDING PARTITIONS OF THE COLD STORAGE CHAMBERS. Problems of Strength and Plasticity, 2019, 81, 240-248.	0.2	0
21	Wybrane zagadnienia w budowywania wyrobów budowlanych z rozbiórki w inne obiekty budowlane. Materiały Budowlane, 2019, 1, 62-65.	0.1	0
22	Thermo-elastic-plastic Model for Numerical Simulation of Fasteners Destruction Under Gasodynamic Impulsive Pressure. EPJ Web of Conferences, 2018, 183, 01039.	0.3	0
23	Model of Segmentation of Rocket Fairings Due to the Action of a Cumulative Charge. EPJ Web of Conferences, 2018, 183, 04009.	0.3	1
24	Technical diagnostics of the historic apartment house located at No. 31 in Dobra street in Warsaw. MATEC Web of Conferences, 2018, 174, 03011.	0.2	0
25	Reinforcement of brick historic buildings threatened by structural damages or by failure. MATEC Web of Conferences, 2018, 174, 03013.	0.2	4
26	Dynamic Resistance of Multi-Layered Protective Elements Under Impact Loads. EPJ Web of Conferences, 2018, 183, 01021.	0.3	0
27	Use of the Kolsky method for dynamic tests of brittle media. MATEC Web of Conferences, 2018, 174, 02022.	0.2	4
28	Dynamic properties of stainless steel under direct tension loading using a simple gas gun. EPJ Web of Conferences, 2018, 183, 02035.	0.3	7
29	Tensile and compressive behaviour of S355 mild steel in a wide range of strain rates. European Physical Journal: Special Topics, 2018, 227, 29-43.	2.6	11
30	Impact and penetration of cylindrical bodies into dry and water-saturated sand. International Journal of Impact Engineering, 2018, 122, 197-208.	5.0	22
31	Experimental characterization of B500A and RB500W building steels in compression and in tension. EPJ Web of Conferences, 2018, 183, 04004.	0.3	0
32	Investigation of mechanical properties of limesand brick under dynamic loading. MATEC Web of Conferences, 2018, 174, 02018.	0.2	0
33	Analiza szkodliwych wpływów drgań, i hałasu od robót budowlanych przekazywanych na istniejące budynki i osoby w nich przebywające. Acta Scientiarum Polonorum Architectura, 2018, 17, 79-89.	0.3	0
34	A viscoplastic response of a dual phase steel exposed to prior cyclic loadings. Mechanics of Materials, 2017, 113, 126-135.	3.2	9
35	Analiza wpływu szkodliwości kolejowych drgań, komunikacyjnych na budynek biurowy – studium przypadku. Acta Scientiarum Polonorum Architectura, 2017, 16, 147-154.	0.3	0
36	Experimental Techniques and Measurements in Impact Engineering Using Hopkinson Bar Technique. Key Engineering Materials, 2016, 715, 3-12.	0.4	1

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37	Dynamics of Thin-Walled Elements of Rocket Engine under Impact Loads. Key Engineering Materials, 2016, 715, 237-242.	0.4	3
38	Mechanical response of dual phase steel at quasi-static and dynamic tensile loadings after initial fatigue loading. Mechanics of Materials, 2016, 92, 18-27.	3.2	21
39	Aspekty przebudowy zabytkowych budynków murowanych o bezwieńcowej konstrukcji stropów międzykondygnacyjnych. Bulletin of the Military University of Technology, 2016, 65, 123-141.	0.0	3
40	Deformation of compound shells under action of internal shock wave loading. EPJ Web of Conferences, 2015, 94, 04046.	0.3	0
41	Effect of strain rate and temperature on mechanical properties of selected building Polish steels. EPJ Web of Conferences, 2015, 94, 05009.	0.3	0
42	Strain localization during tensile Hopkinson bar testing of commercially pure titanium and Ti6Al4V titanium alloy. EPJ Web of Conferences, 2015, 94, 01011.	0.3	5
43	Comparative experimental study of dynamic compressive strength of mortar with glass and basalt fibres. EPJ Web of Conferences, 2015, 94, 05008.	0.3	9
44	Sensitivity of high strain rate of structural elements in relation to dynamics properties of material. EPJ Web of Conferences, 2015, 94, 04045.	0.3	0
45	Experimental analysis and constitutive modelling of steel of A-III-N strength class. EPJ Web of Conferences, 2015, 94, 05007.	0.3	3
46	Application of selected modern technology systems to strengthen the damaged masonry dome of historical St. Anna's Church in Wilanów (Poland). Case Studies in Construction Materials, 2015, 3, 92-101.	1.7	13
47	FEM Analysis of Cylindrical Structural Elements under Local Shock Loading. Applied Mechanics and Materials, 2014, 566, 499-504.	0.2	5
48	Results of Strain Rate and Temperature on Mechanical Properties of Selected Structural Steels. Procedia Engineering, 2013, 57, 789-797.	1.2	9
49	Finite Element Analysis of 3-D Problems of Deformation and Failure of Masonry under Explosive Loading. International Journal of Protective Structures, 2012, 3, 449-456.	2.3	3
50	Method to Analyze the Effect of the Shock-Wave Loading on Building Elements. International Journal of Protective Structures, 2012, 3, 141-146.	2.3	2
51	Experimental and numerical analysis of Al6063 duralumin using Taylor impact test. EPJ Web of Conferences, 2012, 26, 01062.	0.3	11
52	High-speed deformation and fracture of the dioxide-zirconium ceramics and zirconium alumina concrete. EPJ Web of Conferences, 2012, 26, 01055.	0.3	3
53	Experimental investigations of visco-plastic properties of the aluminium and tungsten alloys used in KE projectiles. EPJ Web of Conferences, 2012, 26, 05005.	0.3	8
54	Performance of Protective Doors and Windows under Impact and Explosive Loads. Applied Mechanics and Materials, 2011, 82, 422-427.	0.2	7

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55	Pulse current treatment effect on the strength of reinforcing steel and its weld joint under impact loading. <i>Strength of Materials</i> , 2009, 41, 303-309.	0.5	1
56	Experimental definition of dynamic friction. , 2009, , .		3
57	Influence of pulsed electric current treatment on strength of reinforcing steel and its welds under impact loading. , 2009, , .		0
58	DYNAMIC COMPRESSIBILITY OF HIGH-POROSITY DAMPERS OF THERMAL AND SHOCK LOADINGS: MODELING AND EXPERIMENT. <i>International Journal of Modern Physics B</i> , 2008, 22, 1183-1188.	2.0	4
59	Experimental and numerical analysis of high strain rate behavior of aluminum alloys AMg-6 and D-16. <i>European Physical Journal Special Topics</i> , 2006, 134, 487-491.	0.2	1
60	Application of the Improved Immune Algorithm to Structural Design Support System. <i>Journal of Structural Engineering</i> , 2004, 130, 108-119.	3.4	14
61	Mechanical behaviours of cement based materials at high rates of strain. <i>European Physical Journal Special Topics</i> , 2003, 110, 225-230.	0.2	1
62	Static and dynamic response of ceramics and zirconium alumina concrete materials. <i>European Physical Journal Special Topics</i> , 2003, 110, 231-236.	0.2	3
63	Study of Dry and Wet Cement Mortar Dynamic Properties. <i>Strength of Materials</i> , 2002, 34, 233-237.	0.5	2
64	Experimental Study of Concrete Subjected to Explosive Loading. <i>Strength of Materials</i> , 2002, 34, 242-245.	0.5	0
65	Dynamic Testing of Reinforced Glass Fibreâ€“Epoxy Composite at Elevated Temperatures. <i>Strength of Materials</i> , 2002, 34, 238-241.	0.5	0
66	Analysis of the Process of Explosion Braze-Welding of Heat Exchanger Tube Plates. <i>Strength of Materials</i> , 2002, 34, 407-411.	0.5	0
67	Theoretical-Experimental Analysis of Structural Components Separation upon Local Impulse Loading. <i>Strength of Materials</i> , 2002, 34, 497-499.	0.5	0
68	Measurements of temperature during dynamic shear deformation of carbon steel. <i>European Physical Journal Special Topics</i> , 2000, 10, Pr9-243-Pr9-248.	0.2	1
69	THERMOPLASTIC ANALYSIS OF NORMAL IMPACT OF LONG CYLINDRICAL SPECIMEN: EXPERIMENT AND COMPARISON WITH THE NUMERICAL CALCULATION. <i>Journal of Thermal Stresses</i> , 1995, 18, 313-334.	2.0	5
70	Application of Infrared thermography for determining the temperature distribution in Taylor's impact test. , 1992, , .		0
71	Residual Stresses Relaxation Caused by Pulsed Electric Current. <i>Materials Science Forum</i> , 0, 638-642, 2429-2433.	0.3	2
72	Effect of Pulsed Electric Current Treatment on the Corrosion and Strength of Reinforcing Steel. <i>Materials Science Forum</i> , 0, 706-709, 937-944.	0.3	2

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73	Experimental Analysis of Visco-Plastic Properties of the Aluminium and Tungsten Alloys by Means of Hopkinson Bars Technique. Applied Mechanics and Materials, 0, 566, 110-115.	0.2	11
74	Thermo-Elastic-Plastic Constitutive Model for Numerical Analysis of Metallic Structures under Local Impulsive Loadings. Applied Mechanics and Materials, 0, 566, 493-498.	0.2	7
75	Identification Methods of Parameters for Johnson-Cook Constitutive Equation – Comparison. Applied Mechanics and Materials, 0, 566, 97-103.	0.2	7
76	The Resistance of Structural Elements to Impact and Shock-Wave Load. Key Engineering Materials, 0, 715, 216-221.	0.4	1
77	Experimental Analysis of Elastic-Plastic Free Vibrations of Beam Models Caused by Impact. Key Engineering Materials, 0, 715, 254-260.	0.4	1
78	Design errors and performance defects as causes of the risk for a collapse of the ceiling of the concert hall. , 0, , .		0
79	Design analysis of strengthening a damaged supporting structure in a swimming pool building. , 0, , .		0