

# Dmitrii Legatiuk

## List of Publications by Year in descending order

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19  
papers

81  
citations

1684188  
5  
h-index

1588992  
8  
g-index

21  
all docs

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docs citations

21  
times ranked

50  
citing authors

#	ARTICLE	IF	CITATIONS
1	Operator Calculus Approach to Comparison of Elasticity Models for Modelling of Masonry Structures. <i>Mathematics</i> , 2022, 10, 1670.	2.2	0
2	Discrete Hardy Spaces for Bounded Domains in $\mathbb{R}^n$ . <i>Complex Analysis and Operator Theory</i> , 2021, 15, 1.	0.6	2
3	Mathematical Modelling by Help of Category Theory: Models and Relations between Them. <i>Mathematics</i> , 2021, 9, 1946.	2.2	7
4	Conceptual modelling: Towards detecting modelling errors in engineering applications. <i>Mathematical Methods in the Applied Sciences</i> , 2020, 43, 1243-1252.	2.3	5
5	Metaization concepts for monitoring-related information. <i>Advanced Engineering Informatics</i> , 2020, 46, 101158.	8.0	4
6	Boundary Values of Discrete Monogenic Functions over Bounded Domains in $\mathbb{R}^3$ . <i>Operator Theory: Advances and Applications</i> , 2019, , 149-165.	0.2	4
7	Finite element exterior calculus with script geometry. <i>AIP Conference Proceedings</i> , 2019, , .	0.4	0
8	A categorical perspective towards aerodynamic models for aeroelastic analyses of bridge decks. <i>Royal Society Open Science</i> , 2019, 6, 181848.	2.4	10
9	Interpolation of monogenic functions by using reproducing kernel Hilbert spaces. <i>Mathematical Methods in the Applied Sciences</i> , 2018, 41, 8100-8114.	2.3	0
10	Categorical approach to modelling and to coupling of models. <i>Mathematical Methods in the Applied Sciences</i> , 2017, 40, 523-534.	2.3	11
11	Three-dimensional interpolation with monogenic polynomials. <i>Complex Variables and Elliptic Equations</i> , 2017, 62, 1364-1373.	0.8	3
12	Interpolation problem for the solutions of linear elasticity equations based on monogenic functions. <i>AIP Conference Proceedings</i> , 2017, , .	0.4	1
13	Error Estimates for the Coupling of Analytical and Numerical Solutions. <i>Complex Analysis and Operator Theory</i> , 2017, 11, 1221-1240.	0.6	3
14	Modeling and evaluation of cyber-physical systems in civil engineering. <i>Proceedings in Applied Mathematics and Mechanics</i> , 2017, 17, 807-808.	0.2	5
15	Uncertainty-based evaluation and coupling of mathematical and physical models. <i>Probabilistic Engineering Mechanics</i> , 2016, 45, 52-60.	2.7	2
16	Hyperholomorphic functions and a Kolosov-Muskhelishvili formula. <i>Mathematical Methods in the Applied Sciences</i> , 2015, 38, 5114-5123.	2.3	17
17	Improved Convergence Results for the Finite Element Method with Holomorphic Functions. <i>Advances in Applied Clifford Algebras</i> , 2014, 24, 1077-1092.	1.0	2
18	An Additive Decomposition of Harmonic Functions in $\mathbb{R}^3$ . <i>Lecture Notes in Computer Science</i> , 2014, , 189-203.	1.3	1

#	ARTICLE	IF	CITATIONS
19	Coupling of Complex Function Theory and Finite Element Method for Crack Propagation Through Energetic Formulation: Conformal Mapping Approach and Reduction to a Riemann-Hilbert Problem. Computational Methods and Function Theory, 0, , 1.	1.5	0