Marek Rybaczuk

List of Publications by Year
in descending order

21 papers	156 citations	1478505 6 h-index	1199594 12 g-index
21 all docs	21 docs citations	21 times ranked	116 citing authors

#	Article	IF	Citations
1	Mechanical properties of silica aerogels modelled by Movable Cellular Automata simulations. Materials Today Communications, 2021, 27, 102432.	1.9	3
2	Modelling highly porous brittle materials with the movable cellular automata method. AIP Conference Proceedings, 2019, , .	0.4	1
3	Multiplicative HÃ©non map. AIP Conference Proceedings, 2016, , .	0.4	1
4	Investigation of influence of fibres layout in composite specimens on their strength with cellular automata method. AIP Conference Proceedings, 2015, , .	0.4	0
5	Modelling elastic and plastic material properties with the movable cellular automata. , 2013, , .		0
6	Modelling the behaviour of ceramics under various modes of mechanical loading with movable cellular automata. , 2012, , .		0
7	The influence of defects on strength of ceramics modeled with Movable Cellular Automata. Computational Materials Science, 2012, 51, 151-155.	3.0	12
8	Exploring process of fibre breaking in tube samples of composite during quasi-static process of fracture. , 2011, , .		0
9	Chaos in Multiplicative Systems. , 2010, , .		0
10	Numerical Simulations of 3D Defects Growth in Ceramics Modelled with Movable Cellular Automata. , 2010, , .		0
11	Lyapunov type stability and Lyapunov exponent forÂexemplary multiplicative dynamical systems. Nonlinear Dynamics, 2008, 54, 345-354.	5.2	23
12	Physical stability and critical effects in models of fractal defects evolution based on single fractal approximation. Chaos, Solitons and Fractals, 2007, 32, 246-251.	5.1	2
13	Blood flow simulation through fractal models of circulatory system. Chaos, Solitons and Fractals, 2006, 27, 1-7.	5.1	53
14	Modeling of silica solâ€"gel thin films with ballistic aggregation. Chaos, Solitons and Fractals, 2005, 24, 1053-1058.	5.1	0
15	Analysis of the multiplicative Lorenz system. Chaos, Solitons and Fractals, 2005, 25, 79-90.	5.1	8
16	Ballistic aggregation: an alternative approach to modeling of silica solâ€"gel structures. Chaos, Solitons and Fractals, 2004, 19, 1003-1011.	5.1	19
17	Fractal characteristics of brain vessel microangioarchitecture during the fetal period. Medical Science Monitor, 2002, 8, MT145-52.	1.1	5
18	The concept of physical and fractal dimension I. The projective dimensions. Chaos, Solitons and Fractals, 2001, 12, 2517-2535.	5.1	7

#	Article	IF	Citations
19	The concept of physical and fractal dimension II. The differential calculus in dimensional spaces. Chaos, Solitons and Fractals, 2001, 12, 2537-2552.	5.1	16
20	The Fatigue Evolution of Fractal Defects in Metals. , 1992, , 733-738.		4
21	Nonhomogeneous Fractal Growth of Fatigue Defects in Materials. , 0, , .		2