

# Sergey G Abaimov

## List of Publications by Year in descending order

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Version: 2024-02-01

44  
papers

601  
citations

623734

14  
h-index

677142

22  
g-index

44  
all docs

44  
docs citations

44  
times ranked

527  
citing authors

#	ARTICLE	IF	CITATIONS
1	Discussion of the statistical representativeness of the results in: Lomov, Breite, Melnikov, Mesquita, Swolfs and Abaimov [Int. J. Solids Struct 225 (2021) 111061]. International Journal of Solids and Structures, 2022, 236-237, 111356.	2.7	1
2	Conductive CNT-polymer nanocomposites digital twins for self-diagnostic structures: Sensitivity to CNT parameters. Composite Structures, 2022, 291, 115617.	5.8	8
3	Experimental characterisation of textile compaction response: A benchmark exercise. Composites Part A: Applied Science and Manufacturing, 2021, 142, 106243.	7.6	23
4	Self-diagnostic carbon nanocomposites manufactured from industrial epoxy masterbatches. Composite Structures, 2021, 259, 113244.	5.8	13
5	Multiscale Numerical Modeling for Prediction of Piezoresistive Effect for Polymer Composites with a Highly Segregated Structure. Nanomaterials, 2021, 11, 162.	4.1	12
6	Detailed comparison of analytical and finite element-based homogenization approaches for fibre-reinforced composites. , 2021, , 141-177.		2
7	ReviewRecent Advances in Thermally Conductive Paper-Like Films. ECS Journal of Solid State Science and Technology, 2021, 10, 033001.	1.8	9
8	CNT/Epoxy-Masterbatch Based Nanocomposites: Thermal and Electrical Properties. , 2021, , .		4
9	Non-Linearity of Electrical Conductivity for Aligned Multi-Walled Carbon Nanotube Nanocomposites: Numerical Estimation of Significance of Influencing Factors. , 2021, , .		1
10	Clusters and avalanches of fibre breaks in a model of an impregnated unidirectional fibre bundle under tension. International Journal of Solids and Structures, 2021, 225, 111061.	2.7	10
11	Out-of-plane permeability measurement for reinforcement textiles: A benchmark exercise. Composites Part A: Applied Science and Manufacturing, 2021, 148, 106480.	7.6	27
12	NANOENGINEERED GLASS FIBER REINFORCED COMPOSITE LAMINATES WITH INTEGRATED MULTIFUNCTIONALITY. , 2021, , .		1
13	COMPUTATIONAL DESCRIPTION OF THE GEOMETRY OF ALIGNED CARBON NANOTUBES IN POLYMER NANOCOMPOSITES. , 2021, , .		3
14	Modeling the effect of uniaxial deformation on electrical conductivity for composite materials with extreme filler segregation. Journal of Composite Materials, 2020, 54, 299-309.	2.4	7
15	Interface strength of glass fibers in polypropylene: Dependence on the cooling rate and the degree of crystallinity. Polymer Composites, 2020, 41, 1310-1322.	4.6	13
16	Very High Cycle Fatigue Behavior of Additively Manufactured 316L Stainless Steel. Materials, 2020, 13, 3293.	2.9	20
17	Edge flow profile under radial injection at constant pressure: Analytical predictions vs. experiment. Composite Structures, 2020, 242, 112101.	5.8	3
18	Modeling of an effect of uniaxial deformation on electrical conductance of polypropylene-based composites filled with agglomerated nanoparticles. International Journal of Engineering Science, 2019, 144, 103132.	5.0	8

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19	In-plane permeability characterization of engineering textiles based on radial flow experiments: A benchmark exercise. <i>Composites Part A: Applied Science and Manufacturing</i> , 2019, 121, 100-114.	7.6	75
20	Multi-step homogenization in the Mori-Tanaka-Benveniste theory. <i>Composite Structures</i> , 2019, 223, 110801.	5.8	17
21	On the applicability of replacement relations to tetrahedron-like inhomogeneities. <i>International Journal of Solids and Structures</i> , 2019, 167, 1-13.	2.7	6
22	The effect of multiple contacts between crack faces on crack contribution to the effective elastic properties. <i>International Journal of Solids and Structures</i> , 2019, 163, 75-86.	2.7	11
23	Inverse homogenization problem: Evaluation of elastic and electrical (thermal) properties of composite constituents. <i>International Journal of Engineering Science</i> , 2018, 129, 34-46.	5.0	21
24	On the bounds of applicability of two-step homogenization technique for porous materials. <i>International Journal of Engineering Science</i> , 2018, 123, 117-126.	5.0	11
25	Replacement relations for thermal conductivities of heterogeneous materials having different matrices. <i>Mechanics of Materials</i> , 2018, 121, 50-56.	3.2	9
26	Overall elastic properties of a material containing inhomogeneities of concave shape. <i>International Journal of Engineering Science</i> , 2018, 132, 30-44.	5.0	15
27	Technique of rock thermal conductivity evaluation on core cuttings and non-consolidated rocks. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2018, 108, 15-22.	5.8	22
28	Experimental and theoretical study of multiscale damage-failure transition in very high cycle fatigue. <i>Physical Mesomechanics</i> , 2017, 20, 78-89.	1.9	12
29	Effect of elastic contrast on the contribution of helical fibers into overall stiffness of a composites. <i>International Journal of Engineering Science</i> , 2017, 120, 31-50.	5.0	16
30	Non-equilibrium Annealed Damage Phenomena: A Path Integral Approach. <i>Frontiers in Physics</i> , 2017, 5, .	2.1	1
31	Non-thermal quenched damage phenomena: The application of the mean-field approach for the three-dimensional case. <i>AIP Advances</i> , 2016, 6, 095116.	1.3	1
32	On the closed form expression of the Mori-Tanaka theory prediction for the engineering constants of a unidirectional fiber-reinforced ply. <i>Composite Structures</i> , 2016, 142, 1-6.	5.8	34
33	Statistical Physics of Non-Thermal Phase Transitions. <i>Springer Series in Synergetics</i> , 2015, , .	0.4	18
34	Nucleation phenomena in an annealed damage model: Statistics of times to failure. <i>Physical Review E</i> , 2014, 90, 062401.	2.1	6
35	Statistical Variability and Tokunaga Branching of Aftershock Sequences Utilizing BASS Model Simulations. <i>Pure and Applied Geophysics</i> , 2013, 170, 155-171.	1.9	14
36	Recurrent frequency-size distribution of characteristic events. <i>Nonlinear Processes in Geophysics</i> , 2009, 16, 333-350.	1.3	2

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37	Implications of an inverse branching aftershock sequence model. <i>Physical Review E</i> , 2009, 79, 016101.	2.1	0
38	Applicability and non-applicability of equilibrium statistical mechanics to non-thermal damage phenomena: II. Spinodal behavior. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2009, 2009, P03039.	2.3	6
39	Rescaled earthquake recurrence time statistics: application to microrepeaters. <i>Geophysical Journal International</i> , 2009, 176, 256-264.	2.4	11
40	Earthquakes: Recurrence and Interoccurrence Times. <i>Pure and Applied Geophysics</i> , 2008, 165, 777-795.	1.9	46
41	Applicability and non-applicability of equilibrium statistical mechanics to non-thermal damage phenomena. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2008, 2008, P09005.	2.3	7
42	Recurrence and interoccurrence behavior of self-organized complex phenomena. <i>Nonlinear Processes in Geophysics</i> , 2007, 14, 455-464.	1.3	44
43	Recurrence-time and frequency-slip statistics of slip events on the creeping section of the San Andreas fault in central California. <i>Geophysical Journal International</i> , 2007, 170, 1289-1299.	2.4	22
44	Nonlinear Dynamics of Natural Hazards. , 2007, , 557-580.		9