

# Sergey G Abaimov

## List of Publications by Year in descending order

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44  
papers

601  
citations

623188

14  
h-index

676716

22  
g-index

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all docs

44  
docs citations

44  
times ranked

527  
citing authors

#	ARTICLE	IF	CITATIONS
1	In-plane permeability characterization of engineering textiles based on radial flow experiments: A benchmark exercise. Composites Part A: Applied Science and Manufacturing, 2019, 121, 100-114.	3.8	75
2	Earthquakes: Recurrence and Interoccurrence Times. Pure and Applied Geophysics, 2008, 165, 777-795.	0.8	46
3	Recurrence and interoccurrence behavior of self-organized complex phenomena. Nonlinear Processes in Geophysics, 2007, 14, 455-464.	0.6	44
4	On the closed form expression of the Mori-Tanaka theory prediction for the engineering constants of a unidirectional fiber-reinforced ply. Composite Structures, 2016, 142, 1-6.	3.1	34
5	Out-of-plane permeability measurement for reinforcement textiles: A benchmark exercise. Composites Part A: Applied Science and Manufacturing, 2021, 148, 106480.	3.8	27
6	Experimental characterisation of textile compaction response: A benchmark exercise. Composites Part A: Applied Science and Manufacturing, 2021, 142, 106243.	3.8	23
7	Recurrence-time and frequency-slip statistics of slip events on the creeping section of the San Andreas fault in central California. Geophysical Journal International, 2007, 170, 1289-1299.	1.0	22
8	Technique of rock thermal conductivity evaluation on core cuttings and non-consolidated rocks. International Journal of Rock Mechanics and Minings Sciences, 2018, 108, 15-22.	2.6	22
9	Inverse homogenization problem: Evaluation of elastic and electrical (thermal) properties of composite constituents. International Journal of Engineering Science, 2018, 129, 34-46.	2.7	21
10	Very High Cycle Fatigue Behavior of Additively Manufactured 316L Stainless Steel. Materials, 2020, 13, 3293.	1.3	20
11	Statistical Physics of Non-Thermal Phase Transitions. Springer Series in Synergetics, 2015, , .	0.2	18
12	Multi-step homogenization in the Mori-Tanaka-Benveniste theory. Composite Structures, 2019, 223, 110801.	3.1	17
13	Effect of elastic contrast on the contribution of helical fibers into overall stiffness of a composites. International Journal of Engineering Science, 2017, 120, 31-50.	2.7	16
14	Overall elastic properties of a material containing inhomogeneities of concave shape. International Journal of Engineering Science, 2018, 132, 30-44.	2.7	15
15	Statistical Variability and Tokunaga Branching of Aftershock Sequences Utilizing BASS Model Simulations. Pure and Applied Geophysics, 2013, 170, 155-171.	0.8	14
16	Interface strength of glass fibers in polypropylene: Dependence on the cooling rate and the degree of crystallinity. Polymer Composites, 2020, 41, 1310-1322.	2.3	13
17	Self-diagnostic carbon nanocomposites manufactured from industrial epoxy masterbatches. Composite Structures, 2021, 259, 113244.	3.1	13
18	Experimental and theoretical study of multiscale damage-failure transition in very high cycle fatigue. Physical Mesomechanics, 2017, 20, 78-89.	1.0	12

#	ARTICLE	IF	CITATIONS
19	Multiscale Numerical Modeling for Prediction of Piezoresistive Effect for Polymer Composites with a Highly Segregated Structure. <i>Nanomaterials</i> , 2021, 11, 162.	1.9	12
20	Rescaled earthquake recurrence time statistics: application to microrepeaters. <i>Geophysical Journal International</i> , 2009, 176, 256-264.	1.0	11
21	On the bounds of applicability of two-step homogenization technique for porous materials. <i>International Journal of Engineering Science</i> , 2018, 123, 117-126.	2.7	11
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.	1.3	11
23	Clusters and avalanches of fibre breaks in a model of an impregnated unidirectional fibre bundle under tension. <i>International Journal of Solids and Structures</i> , 2021, 225, 111061.	1.3	10
24	Replacement relations for thermal conductivities of heterogeneous materials having different matrices. <i>Mechanics of Materials</i> , 2018, 121, 50-56.	1.7	9
25	Review "Recent Advances in Thermally Conductive Paper-Like Films. <i>ECS Journal of Solid State Science and Technology</i> , 2021, 10, 033001.	0.9	9
26	Nonlinear Dynamics of Natural Hazards. , 2007, , 557-580.		9
27	Modeling of an effect of uniaxial deformation on electrical conductance of polypropylene-based composites filled with agglomerated nanoparticles. <i>International Journal of Engineering Science</i> , 2019, 144, 103132.	2.7	8
28	Conductive CNT-polymer nanocomposites digital twins for self-diagnostic structures: Sensitivity to CNT parameters. <i>Composite Structures</i> , 2022, 291, 115617.	3.1	8
29	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.	0.9	7
30	Modeling the effect of uniaxial deformation on electrical conductivity for composite materials with extreme filler segregation. <i>Journal of Composite Materials</i> , 2020, 54, 299-309.	1.2	7
31	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.	0.9	6
32	Nucleation phenomena in an annealed damage model: Statistics of times to failure. <i>Physical Review E</i> , 2014, 90, 062401.	0.8	6
33	On the applicability of replacement relations to tetrahedron-like inhomogeneities. <i>International Journal of Solids and Structures</i> , 2019, 167, 1-13.	1.3	6
34	CNT/Epoxy-Masterbatch Based Nanocomposites: Thermal and Electrical Properties. , 2021, , .		4
35	Edge flow profile under radial injection at constant pressure: Analytical predictions vs. experiment. <i>Composite Structures</i> , 2020, 242, 112101.	3.1	3
36	COMPUTATIONAL DESCRIPTION OF THE GEOMETRY OF ALIGNED CARBON NANOTUBES IN POLYMER NANOCOMPOSITES. , 2021, , .		3

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37	Recurrent frequency-size distribution of characteristic events. Nonlinear Processes in Geophysics, 2009, 16, 333-350.	0.6	2
38	Detailed comparison of analytical and finite element-based homogenization approaches for fibre-reinforced composites. , 2021, , 141-177.		2
39	Non-thermal quenched damage phenomena: The application of the mean-field approach for the three-dimensional case. AIP Advances, 2016, 6, 095116.	0.6	1
40	Non-equilibrium Annealed Damage Phenomena: A Path Integral Approach. Frontiers in Physics, 2017, 5, .	1.0	1
41	Non-Linearity of Electrical Conductivity for Aligned Multi-Walled Carbon Nanotube Nanocomposites: Numerical Estimation of Significance of Influencing Factors. , 2021, , .		1
42	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.	1.3	1
43	NANOENGINEERED GLASS FIBER REINFORCED COMPOSITE LAMINATES WITH INTEGRATED MULTIFUNCTIONALITY. , 2021, , .		1
44	Implications of an inverse branching aftershock sequence model. Physical Review E, 2009, 79, 016101.	0.8	0