

Svetoslav Nikolov

List of Publications by Year in descending order

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18
papers

776
citations

840776

11
h-index

940533

16
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18
all docs

18
docs citations

18
times ranked

1048
citing authors

#	ARTICLE	IF	CITATIONS
1	Revealing the Design Principles of High-Performance Biological Composites Using Ab initio and Multiscale Simulations: The Example of Lobster Cuticle. <i>Advanced Materials</i> , 2010, 22, 519-526.	21.0	285
2	Hierarchical Modeling of the Elastic Properties of Bone at Submicron Scales: The Role of Extrafibrillar Mineralization. <i>Biophysical Journal</i> , 2008, 94, 4220-4232.	0.5	112
3	Robustness and optimal use of design principles of arthropod exoskeletons studied by ab initio-based multiscale simulations. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2011, 4, 129-145.	3.1	91
4	Indentation size effects in polymers and related rotation gradients. <i>Journal of Materials Research</i> , 2007, 22, 1662-1672.	2.6	72
5	Ab initio study of thermodynamic, structural, and elastic properties of Mg-substituted crystalline calcite. <i>Acta Biomaterialia</i> , 2010, 6, 4506-4512.	8.3	44
6	Functional adaptation of crustacean exoskeletal elements through structural and compositional diversity: a combined experimental and theoretical study. <i>Bioinspiration and Biomimetics</i> , 2016, 11, 055006.	2.9	35
7	Ab initio study of single-crystalline and polycrystalline elastic properties of Mg-substituted calcite crystals. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2013, 20, 296-304.	3.1	32
8	Biomathematical modeling and analysis of blood flow in an intracranial aneurysm. <i>Neurological Research</i> , 2003, 25, 497-504.	1.3	28
9	A model-based strategy to investigate the role of microRNA regulation in cancer signalling networks. <i>Theory in Biosciences</i> , 2011, 130, 55-69.	1.4	18
10	Size Dependent Hardness of Polyamide/Imide. <i>Open Mechanics Journal</i> , 2008, 2, 89-92.	0.5	18
11	Principal difference between stability and structural stability (robustness) as used in systems biology. <i>Nonlinear Dynamics, Psychology, and Life Sciences</i> , 2007, 11, 413-33.	0.2	12
12	Dynamics of a miRNA Model with Two Delays. <i>Biotechnology and Biotechnological Equipment</i> , 2012, 26, 3315-3320.	1.3	10
13	Mathematical Modelling in Biomedicine: A Primer for the Curious and the Skeptic. <i>International Journal of Molecular Sciences</i> , 2021, 22, 547.	4.1	7
14	Valuation of the Extraocular Effective Elastance on the Base of Dynamical Model. <i>Nonlinear Dynamics, Psychology, and Life Sciences</i> , 1998, 2, 1-20.	0.2	4
15	Effects of homogenization technique and introduction of interfaces in a multiscale approach to predict the elastic properties of arthropod cuticle. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2013, 23, 103-116.	3.1	4
16	CHAPTER 9. Multi-scale Modelling of a Biological Material: The Arthropod Exoskeleton. <i>RSC Smart Materials</i> , 2013, , 197-218.	0.1	2
17	Quantum-Mechanical Study of Single-Crystalline and Polycrystalline Elastic Properties of Mg-Substituted Calcite Crystals. <i>Key Engineering Materials</i> , 0, 592-593, 335-341.	0.4	2
18	An Analytical Study of the Roadway Automobile Stability. <i>Systems Analysis Modelling Simulation</i> , 2002, 42, 1271-1281.	0.1	0