

Pavel S Volegov

List of Publications by Year in descending order

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31
papers

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31
all docs

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docs citations

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48
citing authors

#	ARTICLE	IF	CITATIONS
1	Analysis of the dislocations and grain boundaries interaction in copper depending on the misorientation and boundary type. AIP Conference Proceedings, 2018, , .	0.4	1
2	MODELS OF MOLECULAR DYNAMICS: A REVIEW OF EAM-POTENTIALS. PART 2. POTENTIALS FOR MULTI-COMPONENT SYSTEMS. PNRPU Mechanics Bulletin, 2018, , .	0.4	0
3	Damage and fracture: Classical continuum theories. Physical Mesomechanics, 2017, 20, 157-173.	1.9	18
4	Damage and fracture: Crystal plasticity models. Physical Mesomechanics, 2017, 20, 174-184.	1.9	7
5	The study of grain boundary structure using molecular dynamics method. AIP Conference Proceedings, 2017, , .	0.4	1
6	MODELS OF MOLECULAR DYNAMICS: A REVIEW OF EAM POTENTIALS. PART 1: POTENTIALS FOR SINGLE-COMPONENT SYSTEMS. PNRPU Mechanics Bulletin, 2017, , .	0.4	1
7	Modeling of crystal lattice rotations with the description of grain fragmentation under intensive inelastic deformation. AIP Conference Proceedings, 2016, , .	0.4	0
8	Damage and fracture: Review of experimental studies. Physical Mesomechanics, 2016, 19, 319-331.	1.9	10
9	Two-scale models of polycrystals: Evaluation of validity of Ilyushin's isotropy postulate at large displacement gradients. Physical Mesomechanics, 2016, 19, 21-34.	1.9	11
10	Research of complex loading of polycrystals with consideration for internal structure evolution. AIP Conference Proceedings, 2016, , .	0.4	0
11	Research of the crystal lattice rotation influence on the distribution of residual mesostresses using the model of inelastic deformation of polycrystals. AIP Conference Proceedings, 2016, , .	0.4	0
12	Description of grain lattice rotation and fragmentation mechanisms using crystal plasticity. AIP Conference Proceedings, 2016, , .	0.4	1
13	Mathematical modeling of grain boundary hardening in two-phase materials. AIP Conference Proceedings, 2016, , .	0.4	0
14	Investigation of the grain size influence on hardening in polycrystals using the two-level model based on crystal plasticity. AIP Conference Proceedings, 2015, , .	0.4	0
15	Investigation of the features of polycrystals complex loading using a two-level crystal plasticity theory. IOP Conference Series: Materials Science and Engineering, 2015, 71, 012071.	0.6	0
16	Two-level models of polycrystalline elastoviscoplasticity: Complex loading under large deformations. ZAMM Zeitschrift Fur Angewandte Mathematik Und Mechanik, 2015, 95, 1067-1080.	1.6	3
17	Polycrystals multilevel models using crystal plasticity: consistency of constitutive equations at different scale levels. Journal of Physics: Conference Series, 2014, 490, 012166.	0.4	0
18	Two-scale models of polycrystals: Analysis of complex loading. Physical Mesomechanics, 2014, 17, 349-355.	1.9	8

#	ARTICLE	IF	CITATIONS
19	Residual Meso Stresses in Multilevel Crystal Plasticity Models. <i>Advanced Materials Research</i> , 2014, 1040, 576-580.	0.3	1
20	Two-scale models of polycrystals: Independence of the loading process image of a representative macrovolume. <i>Physical Mesomechanics</i> , 2014, 17, 190-198.	1.9	4
21	Two-scale models of polycrystals: Macroscale motion decomposition. <i>Physical Mesomechanics</i> , 2014, 17, 116-122.	1.9	8
22	Multilevel models of polycrystals using crystal plasticity: investigation of hardening laws influence on the macro effects of cyclic loading. <i>Journal of Physics: Conference Series</i> , 2014, 490, 012037.	0.4	1
23	Multilevel model of inelastic deformation of FCC polycrystalline with description of structure evolution. <i>Computational Materials Science</i> , 2013, 79, 429-441.	3.0	17
24	Multilevel models of inelastic deformation of materials and their application for description of internal structure evolution. <i>Physical Mesomechanics</i> , 2012, 15, 155-175.	1.9	55
25	Asymmetric crystal plasticity theory for the evolution of polycrystal microstructures. <i>Physical Mesomechanics</i> , 2012, 15, 58-68.	1.9	5
26	Constitutive relations and their application to the description of microstructure evolution. <i>Physical Mesomechanics</i> , 2010, 13, 38-46.	1.9	16
27	Internal variable constitutive relations and their application to description of hardening in single crystals. <i>Physical Mesomechanics</i> , 2010, 13, 152-158.	1.9	11
28	Two-Level Model of Inelastic Deformation of FCC Polycrystals and Structure Evolution Description. <i>Advanced Materials Research</i> , 0, 1013, 249-256.	0.3	1
29	Viscoelastoplastic Model of FCC Monocrystals Deformation: Identification of Parameters. <i>Advanced Materials Research</i> , 0, 1040, 625-630.	0.3	0
30	Multilevel Models of Polycrystalline Metals: Application for Cyclic Loading Description. <i>Solid State Phenomena</i> , 0, 243, 155-162.	0.3	0
31	Modeling the Formation of Grain Boundaries as a Result of Two-Sided Crystallization Using Molecular Dynamics. <i>Key Engineering Materials</i> , 0, 743, 181-186.	0.4	1