Pavel P Pal-Val

List of Publications by Year
in descending order

59 papers	304 citations	1163117 8 h-index	1125743 13 g-index
65 all docs	65 docs citations	65 times ranked	129 citing authors

#	Article	IF	Citations
1	Change of Parameters of the Koiwaâ€“Hasiguti Dynamic Dislocation Relaxation in Nanostructured and Polycrystalline Zirconium after Severe Plastic Deformation and Annealing. Advances in Materials Science and Engineering, 2018, 2018, 1-12.	1.8	3
2	Giant Youngâ€™S Modulus Variations in Ultrafine-Grained Copper Caused by Texture Changes at Post-Spd Heat Treatment / Gigantyczne Zmiany ModuÅ‚u Younga W Ultra Drobnoziarnistej Miedzi Spowodowane Przez Zmiany Tekstury W Trakcie ObrÃ³bki Cieplnej Po SPD. Archives of Metallurgy and Materials, 2015, 60, 3073-3076.	0.6	5
3	Structural phase transition in La2/3Ba1/3MnO3 perovskite: Elastic, magnetic, and lattice anomalies and microscopic mechanism. AIP Advances, 2015, 5, 077189.	1.3	3
4	Unusual Youngâ€™s modulus behavior in ultrafine-grained and microcrystalline copper wires caused by texture changes during processing and annealing. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2014, 618, 9-15.	5.6	20
5	Observation of glass-like low-temperature anomalies in the acoustic properties of nanostructured metals. Low Temperature Physics, 2013, 39, 1078-1089.	0.6	6
6	Current Problems of Mechanical Spectroscopy. Progress in Physics of Metals, 2013, 14, 259-273.	1.5	2
7	Low-temperature internal friction and nanostructured metal stability. Metal Science and Heat Treatment, 2012, 54, 234-238.	0.6	4
8	Low-temperature acoustic properties of nanostructured zirconium obtained by intensive plastic deformation. Low Temperature Physics, 2011, 37, 169-176.	0.6	7
9	Changes in the structural phase state and elastic and inelastic properties of superplastic eutectic Sn-38% wt Pb alloy during the aging process. Bulletin of the Russian Academy of Sciences: Physics, 2011, 75, 1345-1351.	0.6	5
10	Effect of Cd content on the kinetics of low-temperature structural transformation in Inâ€“Cd alloy. Low Temperature Physics, 2010, 36, 272-278.	0.6	0
11	Low-temperature relaxation processes in a Cuâ€“Nb nanostructured fiber composite. Low Temperature Physics, 2009, 35, 417-423.	0.6	6
12	Effect of Heat Treatment on Acoustic Properties of Chromium Polycrystals at Low Temperatures. Solid State Phenomena, 2008, 137, 43-48.	0.3	1
13	Low Temperature Kinetics of In-Cd Solid Solution Decomposition. Solid State Phenomena, 2008, 137, 35-42.	0.3	1
14	Singularities of magnetic and elastic characteristics of La2/3Ba1/3MnO3: Analysis of martensitic kinetics. Journal of Magnetism and Magnetic Materials, 2007, 308, 278-283.	2.3	6
15	Dynamic elastic moduli of niobium at low temperatures: their temperature dependence in the normal state, the influence of the superconducting transition, and dislocation effects. Low Temperature Physics, 2006, 32, 169-185.	0.6	6
16	Acoustic resonances of relaxation nature in CsI single crystals in the temperature range 2â€“20K. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2006, 442, 151-155.	5.6	0
17	Effect of superconducting transition on temperature dependence of elastic moduli in niobium: Superposition of quasistatic and dynamic effects. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2006, 442, 212-215.	5.6	2
18	Influence of the thermoelastic effect on the acoustic properties of pure metals at low temperatures. International Journal of Materials Research, 2006, 97, 217-224.	0.8	1

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19	Nonlinear acoustic effects arising from dislocations in niobium single crystals. Low Temperature Physics, 2004, 30, 87-94.	0.6	1
20	Giant radio-frequency magnetoabsorption effect in the cobaltite ceramic La0.5Sr0.5CoO3. Journal of Applied Physics, 2003, 94, 2459-2463.	2.5	4
21	Kinetics of the low-temperature structural transformation in the Inâ€“4.3 at.â€Š%â€‰Cd solid solution. Low Temperature Physics, 2002, 28, 465-474.	0.6	2
22	Phase separation in high-T c superconductors, copper oxides, and related antiferromagnetic phases CuO and Y2BaCuO5. Crystallography Reports, 2002, 47, 934-938.	0.6	1
23	Spontaneous magnetostriction in the Gdâ€“Y system: analysis of phase transformations. Low Temperature Physics, 2001, 27, 320-324.	0.6	6
24	Low-temperature Î± peak of the internal friction in niobium and its relation to the relaxation of kinks in dislocations. Low Temperature Physics, 2001, 27, 404-411.	0.6	8
25	Statistical analysis of the low-temperature Î± peak of the internal friction in iron single crystals. Low Temperature Physics, 2000, 26, 522-528.	0.6	8
26	Curious magnetic phase transition in polycrystalline Gdâ€“Y alloys: ultraacoustic study. Journal of Magnetism and Magnetic Materials, 1999, 192, 111-115.	2.3	10
27	Effect of plastic deformation on the shape and parameters of the low-temperature peak of internal friction in niobium. Low Temperature Physics, 1999, 25, 558-565.	0.6	9
28	Low-temperature dislocation and magnetomechanical acoustic effects in high purity Fe single crystals. Low Temperature Physics, 1999, 25, 63-70.	0.6	6
29	Low-temperature structure transformation in Inâ€“Cd solid solutions. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 1998, 256, 1-7.	5.6	4
30	Internal friction peak in CsI single crystal at liquid helium temperatures. Low Temperature Physics, 1998, 24, 904-907.	0.6	1
31	Low Temperature Elasticity and Magnetic Susceptibility of Gd-Y Alloys. , 1998, , 1557-1564.		1
32	Temperature dependence of the dislocation component of the modulus defect in deformed bcc metals. Low Temperature Physics, 1997, 23, 938-942.	0.6	5
33	Verification of the theory of Brownian motion of a particle through a potential barrier in a viscous medium during experimental study of dislocation acoustic relaxation in normal and superconducting niobium. Low Temperature Physics, 1997, 23, 922-932.	0.6	10
34	Phase transitions and structural instability in HTSC compounds and related phases. European Physical Journal D, 1996, 46, 1417-1418.	0.4	3
35	Dislocation mechanism of acoustic anomalies in superconducting niobium. Physica Status Solidi A, 1996, 157, 311-320.	1.7	2
36	Elastic and Anelastic Behaviour of Zirconium Polycrystals. Materials Science Forum, 1996, 210-213, 495-502.	0.3	2

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37	Anisotropy of Elastic and Relaxation Properties of the Superconducting 123-YBCO Single Crystal. European Physical Journal Special Topics, 1996, 06, C8-489-C8-492.	0.2	0
38	Structural and magnetic study of HTSC with Cuî—¸O structural fragments. Physica C: Superconductivity and Its Applications, 1994, 235-240, 2088-2089.	1.2	1
39	Low-Temperature Dislocation Relaxation Processes in Niobium of Different Purity. Key Engineering Materials, 1994, 97-98, 473-478.	0.4	0
40	Low-temperature dislocation internal friction in crystals. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 1993, 164, 312-315.	5.6	4
41	Low-Temperature Relaxation and Elastic Properties of YBa₂Cu₃O_x with Different Oxygen Content. Materials Science Forum, 1993, 119-121, 701-706.	0.3	1
42	Low-Temperature Anomalies of Ultrasound and Velocity in High-Purity Niobium Single Crystals. Materials Science Forum, 1993, 119-121, 117-124.	0.3	3
43	Comparative study of the low-temperature acoustic properties of CuO and YBa2Cu3Ox ceramics. Solid State Communications, 1992, 81, 761-765.	1.9	17
44	Slip in a {112} bicrystal with asymmetrical orientations of the loading axis. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 1991, 137, 69-75.	5.6	6
45	Elastic and Anelastic Properties of Y-Ba-Cu-O Ceramics in the Temperature Range 6-340 K. Materials Science Forum, 1991, 62-64, 159-160.	0.3	1
46	Effect of Vibration Frequency and Sample Composition on Acoustic Properties of Y-Ba-Cu-O High-T_C Superconductors. Solid State Phenomena, 1989, 6-7, 501-506.	0.3	0
47	Effect of vibration frequency and sample composition on acoustic properties of Ÿï£¿Baï£¿Cuï£¿O high-Tc superconductors. Crystal Research and Technology, 1989, 24, 1151-1158.	1.3	3
48	Low-temperature dislocation absorption of ultrasound in high-purity Î±-iron single crystals. Effect of Peierls barriers and impurities on dislocation motion. Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties, 1987, 56, 407-418.	0.6	10
49	EVIDENCE OF NONLINEAR DISLOCATION MOTION IN INTERNAL FRICTION EXPERIMENTS. Journal De Physique Colloque, 1987, 48, C8-113-C8-117.	0.2	0
50	Plastic deformation of symmetrical bicrystals having Ïƒ3 coincidence twin boundary. Acta Metallurgica, 1986, 34, 2277-2289.	2.1	24
51	Variation of low temperature internal friction at microplastic deformation of high purity molybdenum single crystals. Crystal Research and Technology, 1984, 19, 1049-1055.	1.3	6
52	Unstable internal friction in Bismuth and Antimony single crystals. Crystal Research and Technology, 1984, 19, 1515-1520.	1.3	0
53	Peculiarities of High-Amplitude Dislocation Internal Friction in Molybdenum Single Crystals of High Purity in the Temperature Range 5.9 to 300 K. Physica Status Solidi A, 1982, 69, 127-132.	1.7	2
54	AMPLITUDE-DEPENDENT INTERNAL FRICTION IN HIGH PURITY MOLYBDENUM SINGLE CRYSTALS IN THE TEMPERATURE RANGE 5.9 - 300 K. Journal De Physique Colloque, 1981, 42, C5-55-C5-60.	0.2	0

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55	ON THE INTERNAL FRICTION IN ANTIMONY CAUSED BY UNPINNING OF OVERDAMPED AND UNDERDAMPED DISLOCATIONS. Journal De Physique Colloque, 1981, 42, C5-259-C5-263.	0.2	0
56	Interaction of dislocations with localized pinning points in high-purity molybdenum single crystals. Physica Status Solidi A, 1980, 62, 569-575.	1.7	17
57	Temperature dependence of the dislocation drag constant in antimony. Physica Status Solidi A, 1976, 38, 383-391.	1.7	5
58	Curious Magnetic Phase Transition in Polycrystalline Gd-Y Alloys. Ultraacoustic Study. , 0, , .		0
59	The Effect of Annealing on the Internal Friction in ECAP-Modified Ultrafine Grained Copper. Solid State Phenomena, 0, 184, 289-294.	0.3	15