

Название журнала	<b>ПИСЬМА О МАТЕРИАЛАХ</b>				
Издательство	Институт проблем сверхпластичности металлов РАН				
Год выпуска	<b>2016</b>	Том	<b>6</b>	Номер выпуска	<b>1 (21)</b>



<b>THEORY AND COMPUTER SIMULATIONS IN MATERIALS SCIENCE AND CONDENSED MATTER PHYSICS</b>	
<b>ON THE CHARGE OF QUODONS</b> <i>Archilla J.F.R., Russell F.M.</i>	3-8
<b>NONLINEAR VIBRATIONAL MODES IN GRAPHENE: GROUP-THEORETICAL RESULTS</b> <i>Chechin G.M., Ryabov D.S., Shcherbinin S.A.</i>	9-15
<b>CHEMICAL AND NUCLEAR CATALYSIS DRIVEN BY LOCALIZED ANHARMONIC VIBRATIONS</b> <i>Dubinko V.I., Laptev D.V.</i>	16-21
<b>EXISTENCE AND STABILITY OF INTRINSIC LOCALIZED MODES IN A FINITE FPU CHAIN PLACED IN THREE-DIMENSIONAL SPACE</b> <i>Kimura M., Mitani A., Doi S.</i>	22-26
<b>DISCRETE BREATHERS: POSSIBLE EFFECTS ON HEAT TRANSPORT</b> <i>Xiong D., Zhang J.</i>	27-30
<b>LARGE SYSTEMS OF DISCRETE BREATHERS IN GRAPHENE</b> <i>Baimova J.A.</i>	31-33
<b>THE SUPERLATTICES OF DISCRETE BREATHERS IN THE 1D CRYSTAL MODEL</b> <i>Laptev D.V.</i>	34-38
<b>NUMERICALLY EXACT MOBILE BREATHERS IN PEYRARD-BISHOP DNA MODEL</b> <i>Fakhretdinov M.I., Zakir'yanov F.K.</i>	39-42
<b>NONLINEAR KLEIN-GORDON EQUATION PULSONS WITH A FRACTIONAL POWER POTENTIAL</b> <i>Salimov R.K., Ekomasov E.G.</i>	43-45
<b>SIMULATION OF VORTEX CORES SWITCHING IN NANOCOLUMNAR CONDUCTING TRIPLEX STRUCTURE</b> <i>Ekomasov A.E., Ekomasov E.G., Stepanov S.V.</i>	46-48
<b>STRUCTURE AND STABILITY OF DISCRETE BREATHERS IN ZIGZAG AND ARMCHAIR CARBON NANOTUBES</b> <i>Doi Yu., Nakatani A.</i>	49-53
<b>NONLINEAR VIBRATIONAL ANALOGUE OF COHERENT OUTPUT COUPLER FOR BOSE-EINSTEIN CONDENSED ATOMS</b> <i>Kosevich Yu.A.</i>	54-56
<b>DISCRETE BREATHERS OF DIFFERENT SYMMETRY IN MONOATOMIC 2D MORSE CRYSTAL</b> <i>Fomin S.Yu., Korznikova E.A.</i>	57-60
<b>DISCRETE BREATHERS ABOVE PHONON SPECTRUM</b> <i>Hizhnyakov V., Haas M., Klopov M., Shelkan A.</i>	61-72
<b>DISCRETE BREATHERS PROPERTIES OBTAINED FROM <i>AB INITIO</i> CALCULATIONS IN GRAPHENE AND GRAPHANE</b> <i>Lobzenko I.P.</i>	73-76
<b>LOW FREQUENCY VIBRATIONS OF CARBON NANOSCROLLS</b> <i>Savin A.V., Korznikova E.A., Dmitriev S.V.</i>	77-81
<b>COLLISIONS OF QUASI-ONE-DIMENSIONAL SOLITONS IN TRIANGULAR MORSE LATTICE</b> <i>Chetverikov A., Ebeling W., Velarde M.G.</i>	82-85
<b>DISCRETE BREATHERS IN CRYSTALS: ACHIEVEMENTS AND OPEN PROBLEMS</b> <i>Dmitriev S.V.</i>	86-89