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1056	Theoretical and experimental study of a quantized lattice configuration in a nearly unstable defect system. <i>Physical Review Letters</i> , <b>1989</b> , 63, 1837-1840	7.4	17
1055	Exact Anharmonic-Localized-Mode Solutions to thed-Dimensional Discrete Nonlinear Schräinger Equation. <b>1989</b> , 58, 759-762		21
1054	P-Like Stationary Self-Localized Modes in Pure One-Dimensional Lattice with Quartic Lattice Anharmonicity. <b>1990</b> , 59, 3861-3867		18
1053	Self-Localized Anharmonic Rotational Modes of Bases in DNA. <b>1990</b> , 59, 1890-1901		16
1052	Elementary excitations and a collective mode in hcp4He. <b>1990</b> , 79, 251-287		58
1051	Stationary vibrational modes of a chain of particles interacting via an even order potential. <b>1990</b> , 148, 95-97		15
1050	Stationary vibrational modes of a polyatomic chain of particles interacting via an even order potential. <b>1990</b> , 148, 355-358		8
1049	Localized vibrations of homogeneous anharmonic chains. <b>1990</b> , 147, 130-134		62
1048	Computer simulations of intrinsic localized modes in 1-D anharmonic lattices. <b>1990</b> , 74, 327-331		38
1047	Intrinsic Anharmonic Localized Modes in thed-Dimensional Sine-Gordon Lattice, the ?4-Lattice and the ?6-Lattice. <b>1990</b> , 59, 5-8		1
1046	Localized Modes in the Long-Time Behavior of Anharmonic Lattices. <b>1990</b> , 59, 1571-1580		32
1045	A Propagating Self-Localized Mode in a One-Dimensional Lattice with Quartic Anharmonicity. <b>1990</b> , 59, 3037-3040		79
1044	Asymptotic solutions for localized vibrational modes in strongly anharmonic periodic systems. <i>Physical Review B</i> , <b>1990</b> , 41, 7835-7838	3.3	362
1043	Computer simulation of intrinsic localized modes in one-dimensional and two-dimensional anharmonic lattices. <i>Physical Review B</i> , <b>1990</b> , 42, 4921-4927	3.3	132

1042	Intrinsic localized modes in a monatomic lattice with weakly anharmonic nearest-neighbor force constants. <i>Physical Review B</i> , <b>1991</b> , 43, 2339-2346	3.3	80
1041	Propagation of a Soliton and a Nonlinear Self-Localized State in a One-Dimensional Disordered Nonlinear Lattice. <b>1991</b> , 60, 731-734		18
1040	Self-Localized Modes in a Pure One-Dimensional Lattice with Cubic and Quartic Lattice Anharmonicity. <b>1991</b> , 60, 947-959		70
1039	Nonlinear localized modes in inhomogeneous chains. <b>1991</b> , 161, 80-84		54
1038	Detection and spectroscopy of single pentacene molecules in a p-terphenyl crystal by means of fluorescence excitation. <i>Journal of Chemical Physics</i> , <b>1991</b> , 95, 7150-7163	3.9	316
1037	Envelope-kink phonon localized modes in a homogeneous anharmonic chain. <i>Physical Review B</i> , <b>1991</b> , 44, 12601-12604	3.3	10
1036	Raman scattering of KI:Ag+: Exploration of a nearly unstable defect-lattice configuration. <b>1991</b> , 119-121, 577-582		2
1035	Moving Self-Localized Modes for the Displacement Field in a One-Dimensional Lattice System with Quartic Anharmonicity. <b>1992</b> , 61, 2186-2189		35
1034	Theory of Stationary Anharmonic Localized Modes in Solids. <b>1992</b> , 61, 2821-2834		65
1033	Low-Frequency and High-Frequency Moving Anharmonic Localized Modes in a One-Dimensional Lattice with Quartic Anharmonicity. <b>1992</b> , 61, 4263-4266		24
1032	Class of localized structures in nonlinear lattices. <i>Physical Review B</i> , <b>1992</b> , 46, 8652-8654	3.3	24
1031	Intrinsic self-localized magnons in one-dimensional antiferromagnets. <i>Physical Review B</i> , <b>1992</b> , 45, 5083	- <u>5</u> , <u>0</u> 86	58
1030	Modulational instabilities in discrete lattices. <b>1992</b> , 46, 3198-3205		348
1029	Stability and motion of intrinsic localized modes in nonlinear periodic lattices. <i>Physical Review B</i> , <b>1992</b> , 46, 6161-6168	3.3	160
1028	Numerical measurements of the shape and dispersion relation for moving one-dimensional anharmonic localized modes. <i>Physical Review B</i> , <b>1992</b> , 45, 10344-10347	3.3	76
1027	Soliton and Soliton-Pair as the Intrinsic Phonon Localized Modes in an Anharmonic Monoatomic Chain. <b>1992</b> , 9, 151-154		9
1026	Mechanism of nonphotochemical hole burning: Cresyl Violet in polyvinyl alcohol films. <b>1992</b> , 9, 724		64
1025	Movingd-Dimensional Nonlinear Localized Modes and Envelope Solitons in Nonlinear Exciton Transfer Models in Lattices. <b>1992</b> , 61, 1433-1436		20

1024	Single molecule spectral diffusion in a solid detected via fluorescence spectroscopy. <b>1992</b> , 53, 62-67	3
1023	Solitons and bound states of the self-consistent potential by the boson transformation method. <b>1992</b> , 172, 184-188	10
1022	A numerical scheme to solve the Korteweg-de Vries equation. <b>1993</b> , 74, 58-62	
1021	Self-localized single-anharmonic vibrational modes in two-dimensional lattices. <b>1993</b> , 505, 296-307	24
1020	Localized vibrational modes in an anharmonic chain. <b>1993</b> , 182, 105-108	8
1019	Localized modes in a chain with nonlinear on-site potential. <b>1993</b> , 173, 172-178	83
1018	New soliton equation and exotic localized modes in anharmonic lattices. <b>1993</b> , 173, 257-262	18
1017	Three-particle quartic-power dynamics: an integrable model. <b>1993</b> , 182, 417-422	5
1016	Fermi resonance interface modes and bistable energy transmission through the interface. <b>1993</b> , 183, 395-402	10
1015	Localized excitations in a discrete Klein-Gordon system. <b>1993</b> , 181, 232-238	41
1014	Kink-profile vibrational modes in one-dimensional nonlinear lattices. <b>1993</b> , 178, 123-128	12
1013	Stability of intrinsic localized modes in anharmonic 1-D lattices. <b>1993</b> , 178, 129-137	25
1012	Self-localization in arrays of defocusing waveguides. <b>1993</b> , 18, 1147	135
1011	Peierls-Nabarro potential barrier for highly localized nonlinear modes. <i>Physical Review E</i> , <b>1993</b> , 48, 3077- <u>3.0</u> 81	216
1010	Moving localized modes in nonlinear lattices. <i>Physical Review B</i> , <b>1993</b> , 47, 14228-14232	82
1009	Stationary and moving intrinsic localized modes in one-dimensional monatomic lattices with cubic and quartic anharmonicity. <i>Physical Review B</i> , <b>1993</b> , 47, 14206-14211	136
1008	Energy localization in nonlinear lattices. <i>Physical Review Letters</i> , <b>1993</b> , 70, 3935-3938	190
1007	Model Hamiltonian, Coherent State and Anharmonic Localized Modes as Dynamical Self-Trapping in Nonlinear Systems and Biological Macromolecules. <i>NATO ASI Series Series B: Physics</i> , <b>1993</b> , 203-212	1

1006	Asymmetric intrinsic localized modes in a homogeneous lattice with cubic and quartic anharmonicity. <i>Physical Review B</i> , <b>1993</b> , 47, 14561-14564	3.3	57
1005	Nonlinear envelope-function equation and strongly localized vibrational modes in anharmonic lattices. <i>Physical Review B</i> , <b>1993</b> , 47, 3138-3152	3.3	43
1004	Creation of nonlinear localized modes in discrete lattices. <i>Physical Review E</i> , <b>1993</b> , 48, 4132-4135	2.4	43
1003	Discreteness effects on the formation and propagation of breathers in nonlinear Klein-Gordon equations. <i>Physical Review E</i> , <b>1993</b> , 48, 4768-4778	2.4	44
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1000	Self-induced gap solitons. <i>Physical Review Letters</i> , <b>1993</b> , 70, 3055-3058	7.4	61
999	Nonlinear sinusoidal waves and their superposition in anharmonic lattices. <i>Physical Review Letters</i> , <b>1993</b> , 71, 2058-2061	7.4	60
998	Intrinsic localized modes as solitons with a compact support. <i>Physical Review E</i> , <b>1993</b> , 48, R43-R45	2.4	77
997	Strongly localized gap solitons in diatomic lattices. <i>Physical Review E</i> , <b>1993</b> , 48, 4128-4131	2.4	24
996	Anderson localization and solitonic energy transport in one-dimensional oscillatory systems. <i>Physical Review E</i> , <b>1993</b> , 47, 4108-4119	2.4	39
995	Anharmonic gap modes in a perfect one-dimensional diatomic lattice for standard two-body nearest-neighbor potentials. <i>Physical Review B</i> , <b>1993</b> , 48, 13508-13511	3.3	87
994	Stationary Anharmonic Gap Modes in a One-Dimensional Diatomic Lattice with Quartic Anharmonicity. <b>1993</b> , 62, 4295-4310		30
993	Magnetic Gap Solitons as the Intrinsic Self-Localized Magnons in Heisenberg Antiferromagnetic Chain. <b>1993</b> , 62, 3231-3238		22
992	Wavelet Analysis of Anharmonic Self-Localized Modes. <b>1993</b> , 62, 1819-1822		3
991	On nonlinear effects in molecular chains with one type of intramolecular vibrations. <b>1994</b> , 49, 543-549		6
990	Localized excitations in two-dimensional Hamiltonian lattices. <i>Physical Review E</i> , <b>1994</b> , 50, 2293-2303	2.4	38
989	Anharmonic gap mode in a one-dimensional diatomic lattice with nearest-neighbor Born-Mayer-Coulomb potentials and its interaction with a mass-defect impurity. <i>Physical Review B</i> , <b>1994</b> , 50, 9135-9152	3.3	69

988	Gap solitons in damped and parametrically driven nonlinear diatomic lattices. <i>Physical Review E</i> , <b>1994</b> , 49, 5893-5896	2.4	5
987	Localized states in discrete nonlinear Schräinger equations. <i>Physical Review Letters</i> , <b>1994</b> , 72, 591-595	7.4	143
986	Experimental observation of solitons in a 1D nonlinear lattice. <i>Physical Review B</i> , <b>1994</b> , 49, 15063-15066	; 3.3	37
985	Pressure effects on the absorption spectra of KBr:Ag+. <i>Physical Review B</i> , <b>1994</b> , 49, 849-853	3.3	9
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983	Localized modes in inhomogeneous one-dimensional anharmonic lattices. <i>Physical Review B</i> , <b>1994</b> , 50, 9851-9859	3.3	33
982	Damping and pumping of localized intrinsic modes in nonlinear dynamical lattices. <i>Physical Review B</i> , <b>1994</b> , 49, 5962-5967	3.3	15
981	Moving solitons in the damped Ablowitz-Ladik model driven by a standing wave. <i>Physical Review E</i> , <b>1994</b> , 50, R694-R697	2.4	19
980	Dark solitons in discrete lattices. <i>Physical Review E</i> , <b>1994</b> , 50, 5020-5032	2.4	74
979	Standing localized modes in nonlinear lattices. <i>Physical Review E</i> , <b>1994</b> , 50, 3161-3170	2.4	23
978	A quantum field theory of resonant modes in 3-d nonlinear lattices at finite temperatures. <b>1994</b> , 190, 327-336		7
977	Magnetic gap solitons in a one-dimensional Heisenberg antiferromagnetic chain. <b>1994</b> , 189, 403-408		5
976	Localized vibrational modes in a strained diatomic chain. <b>1994</b> , 191, 261-264		6
975	Anharmonic impurity modes in a 1-D lattice with two-body potentials. <b>1994</b> , 184, 255-259		12
974	Bright and dark lattice solitary waves in a discrete nonlinear system. <b>1994</b> , 193, 419-424		5
973	Intrinsic self-localized Frenkel excitons in a linear chain of interacting Frenkel excitons. <b>1994</b> , 196, 105-1	08	16
972	A quantum field theory of localized and resonant modes in a 1-d nonlinear lattice. <b>1994</b> , 186, 351-358		11
971	Localized anharmonic defect modes in a one-dimensional lattice with standard two-body nearest-neighbor potentials. <b>1994</b> , 58, 23-25		1

970	Localized vibrational modes in perfect crystals. <b>1994</b> , 58, 37-42		3
969	Quasicontinuum approximation and iterative method for envelope solitons in anharmonic chains. <i>European Physical Journal B</i> , <b>1994</b> , 95, 397-406	1.2	10
968	Integrability and localized excitations in nonlinear discrete systems. <i>Physical Review E</i> , <b>1994</b> , 49, 836-85	502.4	51
967	Conditions on the existence of localized excitations in nonlinear discrete systems. <i>Physical Review E</i> , <b>1994</b> , 50, 3134-3142	2.4	85
966	Interaction of discrete breathers with impurity modes. <i>Physical Review E</i> , <b>1994</b> , 49, 3400-3411	2.4	82
965	Interrelation between the stability of extended normal modes and the existence of intrinsic localized modes in nonlinear lattices with realistic potentials. <i>Physical Review B</i> , <b>1994</b> , 50, 866-887	3.3	109
964	Movability of localized excitations in nonlinear discrete systems: A separatrix problem. <i>Physical Review Letters</i> , <b>1994</b> , 72, 1777-1781	7.4	71
963	Stability of discrete solitons and quasicollapse to intrinsically localized modes. <i>Physical Review Letters</i> , <b>1994</b> , 73, 1055-1059	7.4	103
962	Stationary Nonlinear Surface Phonon Modes in One-Dimensional Lattices with Quartic Anharmonicity. <b>1994</b> , 63, 2028-2031		12
961	Stationary Anharmonic Gap Modes in the Diatomic Toda Lattice. <b>1995</b> , 64, 809-821		12
960	High order breather solutions to a discrete nonlinear Klein-Gordon model. <b>1995</b> , 81, 9-22		41
959	Influence of cubic anharmonicity on high frequency modes. <b>1995</b> , 200, 103-108		5
958	A quantum field theory of localized modes in amorphous solids with nonlinear potentials at finite temperatures. <b>1995</b> , 203, 395-402		5
957	Intrinsic localized modes in driven anharmonic lattices with realistic potentials. <b>1995</b> , 204, 418-426		39
956	Self-localized surface modes on anharmonic crystals. <b>1995</b> , 205, 349-354		10
955	Solitary waves in a chain of interacting Frenkel excitons. <b>1995</b> , 209, 99-102		10
954	The Heisenberg equation for phonon operators and soliton solutions in nonlinear lattices. <b>1995</b> , 214, 295-308		4
953	A quantum field theory of localized and resonant modes in 3D nonlinear lattices at finite temperatures I. <b>1995</b> , 213, 525-538		8

952	A quantum field theory of localized and resonant modes in 3D nonlinear lattices at finite temperatures II. <b>1995</b> , 213, 539-550		8
951	Interplay of Anderson localization and solitonic energy transport in the disordered Fermi-Pasta-Ulam chain. <b>1995</b> , 71, 649-660		3
950	Nonlinear Dynamics of Layered Structures and the Generalized Sine-Lattice Equations. <b>1995</b> , 64, 2370-237	'9	2
949	Obtaining breathers in nonlinear Hamiltonian lattices. <i>Physical Review E</i> , <b>1995</b> , 51, 3579-3587 2.	4	35
948	Resonances in driven dynamical lattices. <i>Physical Review B</i> , <b>1995</b> , 51, 3498-3502	3	1
947	Intrinsic localized anharmonic modes at crystal edges. <i>Physical Review Letters</i> , <b>1995</b> , 75, 870-873	4	29
946	Electric-field-induced nonlinear bloch oscillations and dynamical localization. <i>Physical Review Letters</i> , <b>1995</b> , 74, 1186-1189	4	75
945	Gauss procedure for the construction of self-localized solitons in discrete systems. <i>Physical Review B</i> , <b>1995</b> , 51, 15847-15855	3	14
944	Asymmetric impurity modes in nonlinear lattices. <i>Physical Review B</i> , <b>1995</b> , 51, 3218-3221	3	13
943	Breatherlike impurity modes in discrete nonlinear lattices. <i>Physical Review E</i> , <b>1995</b> , 52, R4628-R4631 2.	4	16
942	Intrinsic localized spin modes in ferromagnetic chains with on-site anisotropy. <i>Physical Review B</i> , <b>1995</b> , 52, R3828-R3831	3	73
941	Soliton excitations in a diatomic lattice with nonlinear on-site potential. <b>1995</b> , 4, 489-499		
940	Existence of Localized Modes in a Purely Anharmonic Chain. <b>1995</b> , 12, 95-97		
939	Asymmetric gap solitons in a non-linear LC transmission line. <b>1995</b> , 52, 17-20		7
938	Localized Solitary Signals on a Coupled Nonlinear Transmission Line. <b>1995</b> , 64, 2361-2369		9
937	Bifurcation Scenario of the Davydov-Scott Self-Trapping Mode. <b>1995</b> , 31, 531-536		5
936	Breathing solitary waves in a Sine-Gordon two-dimensional lattice. <i>Physical Review Letters</i> , <b>1995</b> , 75, 357-361	4	42
935	Observation of nonlinear localized modes in an electrical lattice. <i>Physical Review E</i> , <b>1995</b> , 51, 6127-6133 2.	4	215

934	Chapter 3 Unusual anharmonic local mode systems. <b>1995</b> , 7, 137-255		25
933	Generation of supersonic and subsonic solitons in the Fermi-Pasta-Ulam chain. <b>1995</b> , 71, 597-609		7
932	Existence of localized excitations in nonlinear Hamiltonian lattices. <i>Physical Review E</i> , <b>1995</b> , 51, 1503-150	<b>D</b> 7.4	90
931	Anharmonic localized surface vibrations in a scalar model. <i>Physical Review B</i> , <b>1995</b> , 51, 13739-13747	3.3	29
930	Soliton excitations in one-dimensional diatomic lattices. <i>Physical Review B</i> , <b>1995</b> , 51, 12347-12360	3.3	22
929	Energy localization in a nonlinear discrete system. <i>Physical Review E</i> , <b>1996</b> , 53, 5403-5408	2.4	18
928	Generation of high-energy localized vibrational modes in nonlinear Klein-Gordon lattices. <i>Physical Review E</i> , <b>1996</b> , 53, 4143-4152	2.4	75
927	Slow Relaxation Phenomena Induced by Breathers in Nonlinear Lattices. <i>Physical Review Letters</i> , <b>1996</b> , 77, 5225-5228	7.4	148
926	Breathers in nonlinear lattices: numerical calculation from the anticontinuous limit. <b>1996</b> , 9, 1501-1528		262
925	Discrete self-trapping, soliton interactions, and beam steering in nonlinear waveguide arrays. <i>Physical Review E</i> , <b>1996</b> , 53, 1172-1189	2.4	246
925 924		2.4	246
	Physical Review E, 1996, 53, 1172-1189  Intrinsic localized modes and related stability properties in nonlinear periodic lattices. 1996,	2.4	
924	Physical Review E, 1996, 53, 1172-1189  Intrinsic localized modes and related stability properties in nonlinear periodic lattices. 1996, 219-220, 383-386  Driven intrinsic localized modes and their stability in anharmonic lattices with realistic potentials.	2.4	4
924	Intrinsic localized modes and related stability properties in nonlinear periodic lattices. 1996, 219-220, 383-386  Driven intrinsic localized modes and their stability in anharmonic lattices with realistic potentials. 1996, 219-220, 387-389	2.4	16
9 <sup>2</sup> 4 9 <sup>2</sup> 3	Intrinsic localized modes and related stability properties in nonlinear periodic lattices. 1996, 219-220, 383-386  Driven intrinsic localized modes and their stability in anharmonic lattices with realistic potentials. 1996, 219-220, 387-389  Nonlinear modes in coupled rotator models. 1996, 92, 140-163		4 16 70
9 <sup>2</sup> 4 9 <sup>2</sup> 3 9 <sup>2</sup> 2	Intrinsic localized modes and related stability properties in nonlinear periodic lattices. 1996, 219-220, 383-386  Driven intrinsic localized modes and their stability in anharmonic lattices with realistic potentials. 1996, 219-220, 387-389  Nonlinear modes in coupled rotator models. 1996, 92, 140-163  Intrinsic localized anharmonic modes at surfaces and edges. 1996, 219-220, 390-392		4 16 70 14
924 923 922 921 920	Intrinsic localized modes and related stability properties in nonlinear periodic lattices. 1996, 219-220, 383-386  Driven intrinsic localized modes and their stability in anharmonic lattices with realistic potentials. 1996, 219-220, 387-389  Nonlinear modes in coupled rotator models. 1996, 92, 140-163  Intrinsic localized anharmonic modes at surfaces and edges. 1996, 219-220, 390-392  A Gauss procedure for the construction of localized solitons in anharmonic chains. 1996, 219-220, 393-39  Discrete localized states and localization dynamics in discrete nonlinear Schrälinger equations. 1996, T67, 160-166		4 16 70 14

3.3

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Breathing self-localized solitons in the quartic Fermi-Pasta-Ulam chain. Physical Review B, 1996, 54, 980939818 24 916 Intrinsic localized modes as solitons of the discrete Hirota equation. Physical Review E, 1996, 54, 2010-2014 915 15 Small-amplitude envelope solitons in nonlinear lattices. Physical Review E, 1996, 53, 2843-2858 914 2.4 51 Comparative study of nonlinear localized modes of diatomic chains with two types of quartic 913 3.3 nonlinearity. *Physical Review B*, **1996**, 53, 13977-13980 Modulation instability and recurrence phenomena in anharmonic lattices. Physical Review B, 1996, 912 3.3 17 54. 3257-3265 Existence of solitary solutions in nonlinear chains. Physical Review E, 1996, 54, 4299-4311 911 2.4 37 Intrinsic localized spin-wave modes in antiferromagnetic chains with single-ion easy-axis anisotropy. 910 3.3 41 Physical Review B, 1996, 54, R12665-R12668 Solitonlike solutions of the generalized discrete nonlinear Schräinger equation. Physical Review E, 909 2.4 55 **1996**, 54, 5788-5801 Nonlinear spectral characterization of discrete data. Physical Review E, 1996, 54, 5739-5742 908 2.4 7 Intrinsic localized modes in the bulk and at the surface of anharmonic diatomic chains. Physical 26 907 3.3 Review B, 1996, 53, 5420-5429 Supersonic mechanisms for charge and energy transfers in anharmonic molecular chains. Physical 906 46 3.3 Review B, 1996, 54, 266-277 Band-Theoretical Interpretation of Stationary Localized Modes in Pure Nonlinear Lattices-Ubiquity 905 of Existence and Similarity to Force-Constant-Defect Modes-. 1996, 65, 3759-3768 Intrinsic localisation in the dynamics of a Josephson-junction ladder. 1996, 36, 539-544 63 904 Nonlinear self-localized modes in a chain of two-level molecules. 1996, 29, 2611-2615 903 Electron Localization due to Symmetry Breaking in Nonlinear Coupled-Quantum Systems. 1997, 36, L834-L837 2 902 Effects of quantum lattice fluctuations on multiquanta Davydov-like solitons in a molecular chain. 901 29 **1997**, 9, 413-426 Effects of nonlocal dispersive interactions on self-trapping excitations. Physical Review E, 1997, 55, 614126150 75 900

Breatherlike excitations in discrete lattices with noise and nonlinear damping. Physical Review B,

**1997**, 55, 5759-5766

899

898	Gap solitons and resonant kinks in Heisenberg ferromagnetic chains with bond alternation. <i>Physical Review B</i> , <b>1997</b> , 55, 336-346	3.3	9
897	Energy exchange dynamics of the discrete nonlinear Schräinger equation lattice and intrinsic formation of strongly localized states. <i>Physical Review E</i> , <b>1997</b> , 56, 3101-3111	2.4	3
896	Phonon scattering by localized equilibria of nonlinear nearest-neighbor chains. <i>Physical Review E</i> , <b>1997</b> , 56, R4955-R4958	2.4	15
895	Resonance in the collision of two discrete intrinsic localized excitations. <i>Physical Review E</i> , <b>1997</b> , 56, 72	4 <del>6.</del> 72	52 <sub>25</sub>
894	Stationary self-localized magnons in Heisenberg antiferromagnets. <i>Physical Review B</i> , <b>1997</b> , 55, 8812-8	8303	14
893	Correspondence of anharmonic localized vibrations to N-phonon bound states. <i>Physical Review B</i> , <b>1997</b> , 56, 244-250	3.3	2
892	Stable nonlinear heavy-mass impurity modes. <i>Physical Review B</i> , <b>1997</b> , 55, 14265-14269	3.3	17
891	Moving breathers in a chain of magnetic pendulums. <i>Physical Review B</i> , <b>1997</b> , 55, 6304-6308	3.3	52
890	Nonlinear rotating modes: Green@-function solution. <i>Physical Review E</i> , <b>1997</b> , 55, 1922-1928	2.4	25
889	Acoustic Breathers in Two-Dimensional Lattices. <i>Physical Review Letters</i> , <b>1997</b> , 79, 4838-4841	7.4	29
888	Stationary anharmonic gap modes in diatomic aperiodic lattices. <i>Physical Review B</i> , <b>1997</b> , 55, 875-881	3.3	4
887	Intrinsic localized spin-wave resonances in ferromagnetic chains with nearest- and next-nearest-neighbor exchange interactions. <i>Physical Review B</i> , <b>1997</b> , 56, 5345-5354	3.3	57
886	Theory of kink and domain-wall excitations in translationally invariant lattices with quartic anharmonicity. <i>Physical Review B</i> , <b>1997</b> , 56, 8047-8053	3.3	6
885	Boundary-condition effects in anharmonic lattice dynamics: Existence criteria for intrinsic localized modes from extended-mode properties. <i>Physical Review B</i> , <b>1997</b> , 55, 8829-8846	3.3	10
884	Nonlinear Quantum Dynamics of Strong Vibration: Relaxation Jumps and Phonon Bursts*. <i>Zeitschrift Fur Physikalische Chemie</i> , <b>1997</b> , 201, 301-315	3.1	2
883	Intrinsic localized spin wave modes in easy-axis antiferromagnetic chains. <b>1997</b> , 81, 3972-3974		19
882	Dark and bright excitons in systems with exchange and dipole-dipole interactions. <i>Physical Review B</i> , <b>1997</b> , 55, 11342-11352	3.3	18
881	Generation of intrinsic vibrational gap modes in three-dimensional ionic crystals. <i>Physical Review B</i> , <b>1997</b> , 55, 5755-5758	3.3	103

880	Energy Thresholds for Discrete Breathers in One-, Two-, and Three-Dimensional Lattices. <i>Physical Review Letters</i> , <b>1997</b> , 78, 1207-1210	155
879	Stepwise quantum decay of self-localized solitons. <i>Physical Review B</i> , <b>1997</b> , 56, R2908-R2911 3.3	12
878	Generalized instability of periodic traveling waves in anharmonic monatomic chains. <b>1997</b> , 233, 383-390	13
877	Intrinsic localized modes in linear chains with Coulomb interaction. <b>1997</b> , 231, 201-207	10
876	Anharmonic localized in-band modes. <b>1997</b> , 233, 233-238	7
875	Breathers in nonlinear lattices: Existence, linear stability and quantization. <b>1997</b> , 103, 201-250	626
874	Exact solutions in the FPU oscillator chain. <b>1997</b> , 103, 251-272	102
873	Kink shape modes and resonant dynamics in sine-lattices. <b>1997</b> , 110, 51-61	10
872	Stability of strongly localized excitations in discrete media with cubic nonlinearity. <b>1998</b> , 86, 682-686	69
871	Quantal properties of self-localized solitons in anharmonic oscillatory systems. <b>1998</b> , 76-77, 599-603	2
870	mm-Wave absorption and Raman scattering from glass-like features in fluorite mixed crystals. <b>1998</b> , 244, 159-166	3
869	Dispersionless envelope lattice solitons on a D-dimensional nonlinear lattice. <b>1998</b> , 244, 418-426	
868	Intrinsic localized modes in complex lattice dynamical systems. <b>1998</b> , 113, 123-128	9
867	Localized excitations in discrete nonlinear Schräinger systems: Effects of nonlocal dispersive interactions and noise. <b>1998</b> , 113, 134-151	36
866	Energy properties of discrete breathers. <b>1998</b> , 113, 184-190	6
865	Odd and even intrinsic modes in diatomic nonlinear lattices. <b>1998</b> , 113, 191-195	7
864	The role of solitons in charge and energy transfer in 1D molecular chains. 1998, 113, 218-227	15
863	Nonlinear surface modes in monoatomic and diatomic lattices. <b>1998</b> , 113, 248-260	20

862	Intrinsic localized modes: Discrete breathers. Existence and linear stability. <b>1998</b> , 113, 283-292	59
861	Theory of quantum nonlinear localized modes in quantum lattices. <b>1998</b> , 113, 366-373	4
860	Josephson-junction ladder: A benchmark for nonlinear concepts. <b>1998</b> , 113, 387-396	15
859	A Mel@ikov approach to soliton-like solutions of systems of discretized nonlinear Schrdinger equations. <b>1998</b> , 113, 397-406	8
858	Localization in a coupled standard map lattice. <b>1998</b> , 119, 4-21	4
857	Mobility and reactivity of discrete breathers. <b>1998</b> , 119, 34-46	122
856	On the attenuation of anharmonic adsorbate vibrations. <b>1998</b> , 119, 56-67	4
855	On the wing behaviour of the overtones of self-localized modes. <b>1998</b> , 119, 99-108	1
854	Localization and relaxation effects of weakly interacting anharmonic oscillators studied by infrared absorption spectroscopy. <b>1998</b> , 119, 109-114	11
853	Multistable nonlinear surface modes. <b>1998</b> , 119, 125-133	9
8 <sub>53</sub> 8 <sub>52</sub>	Multistable nonlinear surface modes. <b>1998</b> , 119, 125-133  Stability of discrete breathers. <b>1998</b> , 119, 148-162	9
852	Stability of discrete breathers. <b>1998</b> , 119, 148-162	61
8 <sub>52</sub>	Stability of discrete breathers. <b>1998</b> , 119, 148-162  Quantum aspects of self-localized solutions in discrete systems. <b>1998</b> , 119, 227-237	61
852 851 850	Stability of discrete breathers. 1998, 119, 148-162  Quantum aspects of self-localized solutions in discrete systems. 1998, 119, 227-237  Finite size effects on instabilities of discrete breathers. 1998, 119, 163-174	61 1 54
852 851 850 849	Stability of discrete breathers. 1998, 119, 148-162  Quantum aspects of self-localized solutions in discrete systems. 1998, 119, 227-237  Finite size effects on instabilities of discrete breathers. 1998, 119, 163-174  Vibrational dynamics associated with multiple elastic configurations in KI: Ag+. 1998, 119, 205-218	61 1 54
852 851 850 849 848	Stability of discrete breathers. 1998, 119, 148-162  Quantum aspects of self-localized solutions in discrete systems. 1998, 119, 227-237  Finite size effects on instabilities of discrete breathers. 1998, 119, 163-174  Vibrational dynamics associated with multiple elastic configurations in KI: Ag+. 1998, 119, 205-218  Studies of the modulational instability of antiferromagnetic spin waves in 1D. 1998, 123, 308-314  Eigenvectors of strongly anharmonic intrinsic gap modes in three-dimensional ionic crystals. 1998,	61 1 54 5

844	Nonlinear dynamics of the Frenkelâkontorova model. <b>1998</b> , 306, 1-108		490
843	Collective Coordinates and Length-Scale Competition in Spatially Inhomogeneous Soliton-Bearing Equations. <b>1998</b> , 40, 579-615		68
842	Multiple states of intrinsic localized modes. <i>Physical Review B</i> , <b>1998</b> , 58, 5423-5428	3.3	29
841	A breather-like localized mode in a Fermi-Pasta-Ulam lattice interacting with an electron. <b>1998</b> , 10, 455.	3-4564	17
840	Modulational instability of nonlinear spin waves in easy-axis antiferromagnetic chains. <i>Physical Review B</i> , <b>1998</b> , 57, 3433-3443	3.3	45
839	Decay of mesoscopically localized vibrational eigenstates in porous materials. <i>Physical Review B</i> , <b>1998</b> , 57, 11295-11302	3.3	6
838	Creation and annihilation of intrinsic localized excitations. <i>Physical Review E</i> , <b>1998</b> , 58, R40-R43	2.4	6
837	Solitary excitations in discrete two-dimensional nonlinear Schrälinger models with dispersive dipole-dipole interactions. <i>Physical Review B</i> , <b>1998</b> , 57, 11303-11318	3.3	24
836	Strongly localized vectorial modes in nonlinear waveguide arrays. <i>Physical Review E</i> , <b>1998</b> , 57, 3520-353	<b>0</b> 2.4	59
835	Tunneling of a quantum breather in a one-dimensional chain. <i>Physical Review E</i> , <b>1998</b> , 58, 339-346	2.4	23
834	Localized vibrations and standing waves in anharmonic lattices. <i>Physical Review E</i> , <b>1998</b> , 57, 1134-1138	2.4	10
833	Strongly localized modes in discrete systems with quadratic nonlinearity. <i>Physical Review E</i> , <b>1998</b> , 57, 2344-2349	2.4	42
832	Designing localized multipulse solutions of the discrete nonlinear Schrödinger equation with an external potential. <i>Physical Review E</i> , <b>1998</b> , 57, 2371-2376	2.4	8
831	Localized modes in an anharmonic diamond-structure chain. <i>Physical Review B</i> , <b>1998</b> , 58, 8391-8397	3.3	9
830	Intrinsic resonant modes for a one-dimensional lattice with a soft optic mode. <i>Physical Review B</i> , <b>1998</b> , 57, 3402-3405	3.3	10
829	Intrinsic localized modes of bright and dark types in ferromagnetic Heisenberg chains. <i>Physical Review B</i> , <b>1998</b> , 57, R14012-R14015	3.3	19
828	Asymmetric gap soliton modes in diatomic lattices with cubic and quartic nonlinearity. <i>Physical Review B</i> , <b>1998</b> , 57, 5746-5757	3.3	39
827	Interference of Mode Instabilities and Pattern Formation in Anharmonic Lattices. <i>Physical Review Letters</i> , <b>1998</b> , 80, 3988-3991	7.4	15

826	Using DNA to probe nonlinear localized excitations?. <b>1998</b> , 44, 271-277		35
825	Subsonic solitons in the Fermiâ <b>P</b> astaâ <b>D</b> lam chain. <b>1998</b> , 77, 485-490		
824	Correlation of the properties of high-Tc superconductor La2â\(\mathbb{B}\)SrxCuO4 and anharmonicity of atomic potentials. <b>1998</b> , 24, 9-11		1
823	Coupling of cutoff modes in nonlinear lattices. <b>1999</b> , 11, 2759-2771		4
822	Observation of Intrinsically Localized Modes in a Discrete Low-Dimensional Material. <i>Physical Review Letters</i> , <b>1999</b> , 82, 3288-3291	7.4	273
821	Experimental Generation and Observation of Intrinsic Localized Spin Wave Modes in an Antiferromagnet. <i>Physical Review Letters</i> , <b>1999</b> , 83, 223-226	7.4	222
820	Localized modes in two-dimensional square anisotropic ferromagnets with a hole. <i>Physical Review B</i> , <b>1999</b> , 60, 12810-12819	3.3	2
819	Localized multibunch modes in accelerators. <b>1999</b> , 2,		1
818	Energy relaxation in discrete nonlinear lattices. <i>Physical Review E</i> , <b>1999</b> , 59, 1234-1237	2.4	56
817	Enhanced pulse propagation in nonlinear arrays of oscillators. <i>Physical Review E</i> , <b>1999</b> , 60, 5317-26	2.4	22
816	Discrete Breathers in Systems with Homogeneous Potentials: Analytic Solutions. <i>Physical Review Letters</i> , <b>1999</b> , 83, 248-251	7.4	17
815	Soliton-breather reaction pathways. <i>Physical Review E</i> , <b>1999</b> , 60, 7618-21	2.4	13
814	Stationary dark localized modes: discrete nonlinear Schräinger equations. <i>Physical Review E</i> , <b>1999</b> , 60, 1001-8	2.4	29
813	Nonlinear model of intramolecular excitations on a multileg ladder lattice. <i>Physical Review E</i> , <b>1999</b> , 60, R2492-5	2.4	7
812	Envelope solitons and companion modes in diatomic lattices. <i>Physical Review B</i> , <b>1999</b> , 60, 6465-6475	3.3	9
811	Discrete breathers in dc-biased Josephson-junction arrays. <i>Physical Review B</i> , <b>1999</b> , 59, 13604-13607	3.3	17
810	Excited states in one-dimensional quantum crystals. <i>Physical Review B</i> , <b>1999</b> , 60, 12091-12098	3.3	1
809	SPATIAL- AND SPATIO-TEMPORAL PATTERN FORMATION IN OPTICALLY DRIVEN DISCRETE SYSTEMS. <b>1999</b> , 13, 791-805		2

808	Wave transmission in nonlinear lattices. <b>1999</b> , 307, 333-432	326
807	Nonlinear nanoscale localization of magnetic excitations in atomic lattices. <b>1999</b> , 314, 147-236	73
806	Intrinsic localized modes in nonlinear photonic crystal waveguides. <b>1999</b> , 251, 322-335	38
805	Intrinsic localized modes in nonlinear photonic crystal waveguides: Dispersive modes. <b>1999</b> , 260, 314-321	31
804	Intraband discrete breathers in disordered nonlinear systems. I. Delocalization. <b>1999</b> , 130, 155-186	70
803	Models for energy and charge transport and storage in biomolecules. <b>1999</b> , 25, 41-63	63
802	Multiphonon anharmonic decay of a quantum mode. <b>1999</b> , 45, 508-513	14
801	Discrete fronts and quasirectangular solitons. <i>Physical Review B</i> , <b>1999</b> , 59, 5994-5997 3.3	20
800	Soliton interaction for a nonlinear discrete double chain. <i>Physical Review E</i> , <b>1999</b> , 59, 2380-2392 2.4	11
799	Time evolution of the density of vibrational states in the crystal lattice of the system LaâBrâជuâD. <b>1999</b> , 25, 71-73	
798	Atomically Sharp Artificially Reordered Structures in Si(100). <b>2000</b> , 638, 1	
797	Photoinduced Localized Lattice Vibrations in IIâlVI Semiconductors. <b>2000</b> , 221, 553-556	6
796	Discrete breathers: classical and quantum. <b>2000</b> , 288, 174-198	60
795	Nonlinear localization in thermalized lattices: application to DNA. <b>2000</b> , 288, 199-217	45
794	The structure of eigenmodes and phonon scattering by discrete breathers in the discrete nonlinear Schräinger chain. <b>2000</b> , 141, 91-103	13
793	Breathers in systems with intrinsic and extrinsic nonlinearities. <b>2000</b> , 142, 101-112	6
792	Being stable and discrete. <b>2000</b> , 135, 212-232	25
791	Discrete breathers in aperiodic diatomic FPU lattices with long range order. <b>2000</b> , 136, 93-124	6

## (2000-2000)

790	Intraband discrete breathers in disordered nonlinear systems. II. Localization. 2000, 139, 247-275		49
789	Multibreathers and homoclinic orbits in 1-dimensional nonlinear lattices. <b>2000</b> , 268, 50-60		58
788	Excitation and stability of bright and dark localised spin modes in ferromagnetic chains with on-site anisotropy. <b>2000</b> , 210, 403-420		1
787	EFFECT OF TEMPERATURE ON INTRINSIC LOCALIZED MODES IN ANHARMONIC LATTICES. <b>2000</b> , 14, 1001-1007		1
786	PHONON SCATTERING BY BREATHERS IN THE DISCRETE NONLINEAR SCHRDINGER CHAIN. <b>2000</b> , 14, 1903-1914		7
785	Optic Discrete Breathers in Euclidean Invariant Systems. <b>2000</b> , 1,		2
784	Stable multisite periodic orbits in networks of weakly coupled bistable oscillators. <b>2000</b> , 13, 29-42		3
783	Surface and gap intrinsic localized modes in one-dimensional III-V semiconductors. 2000, 12, 1-11		30
782	Thermal Transient Gratings as Probes for Intrinsic Localized Modes. <b>2000</b> , 61, 123-126		3
781	A method for locating symmetric homoclinic orbits using symbolic dynamics. <b>2000</b> , 33, 8059-8070		22
780	Intrinsic localized modes in the one-dimensional zinc-blende structure: two-body potential versus anharmonic force constant model. <b>2000</b> , 12, 5629-5637		6
779	Asymmetry Localized Modes in an Anharmonic Sphalerite-Structure Lattice. <b>2000</b> , 17, 899-901		3
778	Optical creation of vibrational intrinsic localized modes in anharmonic lattices with realistic interatomic potentials. <i>Physical Review B</i> , <b>2000</b> , 62, 11460-11472	3	30
777	Modulational instability and energy localization in anharmonic lattices at finite energy density.  Physical Review B, <b>2000</b> , 61, 299-307	3	57
776	Oscillations of a highly discrete breather with a critical regime. <i>Physical Review E</i> , <b>2000</b> , 62, 5767-76 2.	4	6
775	Universal features of self-trapping in nonlinear tight-binding lattices. <i>Physical Review B</i> , <b>2000</b> , 62, 15287-3.	<b>≨</b> 29	017
774	Compactlike breathers: bridging the continuous with the anticontinuous limit. <i>Physical Review E</i> , <b>2000</b> , 62, 7540-3	4	35
773	Discrete breathers and delocalization in nonlinear disordered systems. <i>Physical Review Letters</i> , <b>2000</b> , 84, 3236-9	4	83

772	Two-dimensional discrete breathers: construction, stability, and bifurcations. <i>Physical Review E</i> , <b>2000</b> , 61, 2006-9	2.4	48
771	Possible localized modes in the uniform quantum Heisenberg chains of Sr2CuO3. <i>Physical Review B</i> , <b>2000</b> , 62, 367-371	3.3	12
770	Short-time and long-time relaxation dynamics of glass-forming substances: a coupling model perspective. <b>2000</b> , 12, 6437-6451		47
769	Solitonic energy transfer in a coupled exciton-vibron system. <i>Physical Review E</i> , <b>2000</b> , 61, 4550-5	2.4	25
768	Dynamic and thermodynamic properties of glass-forming substances. <b>2000</b> , 275, 7-51		375
767	Electron-vibron-breather interaction. <i>Physical Review E</i> , <b>2000</b> , 62, 2846-57	2.4	15
766	THE DISCRETE NONLINEAR SCHRDINGER EQUATION: A SURVEY OF RECENT RESULTS. <b>2001</b> , 15, 2833-2	2900	316
765	Optical nonlinearities in polyenes: role of intrinsic localized modes. <b>2001</b> , 116, 45-48		5
764	Threshold Behavior of Strongly Localized Nonlinear Modes in Crystals with Fermi Resonance Interaction. <b>2001</b> , 355, 25-39		5
763	Self-trapping and stable localized modes in nonlinear photonic crystals. <i>Physical Review Letters</i> , <b>2001</b> , 86, 5474-7	7.4	134
763 762		7.4	134
	<b>2001</b> , 86, 5474-7	7.4	, , , , , , , , , , , , , , , , , , ,
762	2001, 86, 5474-7  Strongly nonlinear envelope soliton in a lattice model for periodic structure. 2001, 34, 97-107	7-4	22
762 761	2001, 86, 5474-7  Strongly nonlinear envelope soliton in a lattice model for periodic structure. 2001, 34, 97-107  Discrete breathers in Josephson ladders. 2001, 156, 98-138	7-4	22
762 761 760	Strongly nonlinear envelope soliton in a lattice model for periodic structure. 2001, 34, 97-107  Discrete breathers in Josephson ladders. 2001, 156, 98-138  Breathers in cuprate-like lattices. 2001, 281, 21-25	7.4	22 25 50
762 761 760 759	2001, 86, 5474-7  Strongly nonlinear envelope soliton in a lattice model for periodic structure. 2001, 34, 97-107  Discrete breathers in Josephson ladders. 2001, 156, 98-138  Breathers in cuprate-like lattices. 2001, 281, 21-25  Comparison of one-dimensional and two-dimensional discrete breathers. 2001, 55, 449-462	7.4	22 25 50 8
762 761 760 759 758	Strongly nonlinear envelope soliton in a lattice model for periodic structure. 2001, 34, 97-107  Discrete breathers in Josephson ladders. 2001, 156, 98-138  Breathers in cuprate-like lattices. 2001, 281, 21-25  Comparison of one-dimensional and two-dimensional discrete breathers. 2001, 55, 449-462  Existence of breathers on FPU lattices. 2001, 332, 581-586	7.4	22 25 50 8 43

## (2002-2001)

754	Self-localized oscillations in high-temperature superconductors. <b>2001</b> , 46, 34-41		2
753	Resonant motion of discrete breathers in curved nonlinear chains. <b>2001</b> , 34, 8465-8475		9
752	Slow energy relaxation and localization in 1D lattices. <b>2001</b> , 34, 9803-9814		27
751	Targeted energy transfer through discrete breathers in nonlinear systems. <i>Physical Review Letters</i> , <b>2001</b> , 87, 165501	7.4	132
750	Twisted localized modes. <i>Physical Review E</i> , <b>2001</b> , 63, 036603	2.4	47
749	Energy relaxation in nonlinear one-dimensional lattices. <i>Physical Review E</i> , <b>2001</b> , 64, 066608	2.4	39
748	Multiquanta breather model for PtCl. <i>Physical Review B</i> , <b>2001</b> , 64,	3.3	25
747	Two-vibron state dynamics in an anharmonic confined adlayer. <i>Physical Review B</i> , <b>2001</b> , 65,	3.3	13
746	Quantum transport theory of vibrons in a molecular monolayer. <i>Journal of Chemical Physics</i> , <b>2001</b> , 114, 4955-4967	3.9	27
745	Discrete breathers in classical spin lattices. <i>Physical Review B</i> , <b>2001</b> , 63,	3.3	28
744	Quantization of weakly nonlinear lattices: envelope solitons. <i>Physical Review E</i> , <b>2001</b> , 63, 066606	2.4	10
743	Discrete diffraction managed spatial solitons. <i>Physical Review Letters</i> , <b>2001</b> , 87, 254102	7.4	149
742	Nonlinear excitations in arrays of Bose-Einstein condensates. <b>2001</b> , 64,		233
741	Quantum lattice effects in mixed-valence transition-metal chain complexes. <i>Physical Review B</i> , <b>2001</b> , 63,	3.3	16
740	Solitons on a zigzag-runged ladder lattice. <i>Physical Review E</i> , <b>2001</b> , 64, 067601	2.4	21
739	Interaction of a discrete breather with a lattice junction. <i>Physical Review E</i> , <b>2002</b> , 66, 036617	2.4	14
738	Observation of a new excitation in bcc 4He by inelastic neutron scattering. <i>Physical Review Letters</i> , <b>2002</b> , 88, 195301	7.4	38
737	Discrete solitons in nonlinear zigzag optical waveguide arrays with tailored diffraction properties. <i>Physical Review E</i> , <b>2002</b> , 65, 056607	2.4	61

736	One- and two-dimensional solitons in second-harmonic-generating lattices. <i>Physical Review E</i> , <b>2002</b> , 65, 056606	2.4	26
735	Nonlinear disorder model for Raman profiles in naturally abundant PtCl. <i>Physical Review B</i> , <b>2002</b> , 66,	3.3	20
734	Dynamical properties of discrete breathers in curved chains with first and second neighbor interactions. <i>Physical Review E</i> , <b>2002</b> , 65, 041902	2.4	24
733	Femtosecond study of self-trapped vibrational excitons in crystalline acetanilide. <i>Physical Review Letters</i> , <b>2002</b> , 88, 067403	7.4	84
732	Dipolar effects on soliton dynamics on a discrete ferromagnetic chain. <i>Physical Review E</i> , <b>2002</b> , 66, 0566	1234	8
731	Hybrid discrete solitons. <i>Physical Review E</i> , <b>2002</b> , 66, 066604	2.4	13
730	Methods for discrete solitons in nonlinear lattices. <i>Physical Review E</i> , <b>2002</b> , 65, 026602	2.4	54
729	Orientational discrete breathers in hydrogen-bonded chains. <i>Physical Review E</i> , <b>2002</b> , 65, 046604	2.4	2
728	Bright compact breathers. <i>Physical Review E</i> , <b>2002</b> , 65, 066614	2.4	34
727	Asymptotic dynamics of breathers in Fermi-Pasta-Ulam chains. <i>Physical Review E</i> , <b>2002</b> , 66, 046607	2.4	24
726	Tunneling of quantum rotobreathers. <i>Physical Review B</i> , <b>2002</b> , 65,	3.3	14
725	Transport of localized vibrational energy in biopolymer models with rigidity. 2002, 57, 697-703		22
724	Theory of intrinsic localized modes in diatomic chains: beyond the rotating wave approximation. <b>2002</b> , 14, 145-152		16
723	Influence of sample shape on the production of intrinsic localized modes in an antiferromagnetic lattice. <b>2002</b> , 91, 8676		23
722	Highly Excited Motion in Molecules: Saddle-Node Bifurcations and Their Fingerprints in Vibrational Spectra. <b>2002</b> , 106, 5407-5421		71
721	Internal localized eigenmodes on spin discrete breathers in antiferromagnetic chains with on-site easy-axis anisotropy. <i>Physical Review B</i> , <b>2002</b> , 66,	3.3	11
720	Modulational instability of electromagnetic waves in inhomogeneous and in discrete media. <b>2002</b> , 303-2	365	30
719	Discrete solitons in photorefractive optically induced photonic lattices. <i>Physical Review E</i> , <b>2002</b> , 66, 046	602	429

#### (2003-2002)

718	Interaction of a kink soliton with a breather in a Fermi-Pasta-Ulam chain. <i>Physical Review E</i> , <b>2002</b> , 65, 026605	22
717	An algebraic approach to discrete breather construction. <b>2002</b> , 35, 951-957	18
716	Slow relaxation, confinement, and solitons. <i>Physical Review Letters</i> , <b>2002</b> , 88, 224101 7.4	34
715	Surface and gap intrinsic localized modes in one-dimensional lattices. <b>2002</b> , 502-503, 458-462	3
714	Gap Soliton Modes in an Electrical Lattice. <b>2002</b> , 71, 2061-2066	4
713	Spatially localized voltage oscillations in an electrical lattice. <b>2002</b> , 35, 1438-1441	8
712	Asymmetric Shape and Dynamic Stability of Excitonâ <b>P</b> honon Solitons Moving in a Medium. <b>2002</b> , 231, 31-53	
711	Thermally activated generation, motion and annihilation of localized modes in the FrenkelâKontorova model. <b>2002</b> , 316-317, 129-131	
710	Quantum properties of intrinsic localized modes. <b>2002</b> , 316-317, 132-135	22
709	Self-localized states as precursors to strong first-order structural phase transition. <b>2002</b> , 316-317, 170-173	
708	Temporal Fourier spectra of stationary and slowly moving breathers in Fermiâ <b>P</b> astaâ <b>D</b> lam anharmonic lattice. <b>2002</b> , 170, 1-12	19
707	Localized vibrational modes in a quasi-one-dimensional lattice with a macrodefect. <b>2002</b> , 121, 305-308	1
706	Anharmonicity of lattice vibrations induced by charged nickel impurities in IIâl⁄II semiconductors. <b>2002</b> , 44, 34-41	4
705	Aging phenomena in nonlinear dissipative chains. <i>European Physical Journal B</i> , <b>2003</b> , 34, 193-199 1.2	2
704	Bound states of breathers in the Frenkel-Kontorova model. <i>European Physical Journal B</i> , <b>2003</b> , 37, 213-2212	7
703	Static properties of two-component kink in a non-linear discrete polarizability model. 2003, 64, 759-768	
702	Exact localized and periodic solutions of the discrete complex Ginzburgâllandau equation. <b>2003</b> , 221, 199-209	39
701	Sensitive behaviors of intrinsic localized modes in the presence of impurity and random inhomogeneity. <b>2003</b> , 38, 177-188	4

700	On a class of discretizations of Hamiltonian nonlinear partial differential equations. <b>2003</b> , 183, 68-86		58
699	Discrete spatial solitons in a diffraction-managed nonlinear waveguide array: a unified approach. <b>2003</b> , 184, 276-303		53
698	Exact localized solutions of quintic discrete nonlinear Schräinger equation. 2003, 311, 214-220		14
697	Compactons in discrete nonlinear Kleinâ©ordon models. <b>2003</b> , 62, 79-89		7
696	Observation of a new excitation in BCC 4He by inelastic neutron scattering. 2003, 329-333, 371-374		2
695	Intrinsic inhomogeneity due to nonlinearity. <b>2003</b> , 338, 87-91		1
694	Solitons and breathers from the third integral of motion in galaxies. <b>2003</b> , 344, 575-582		6
693	Discretizing light behaviour in linear and nonlinear waveguide lattices. 2003, 424, 817-23		1157
692	Vibrational spectra of Fe3P and Fe2P metal-metalloid compound crystallites: Phonon and breather excitations. <b>2003</b> , 45, 326-334		3
691	Quantum field theory of the liquidâglass transition. <b>2003</b> , 383, 1-94		15
690	Nonlinear localized modes in waveguide bends. <b>2003</b> , 307, 287-291		22
689	Discrete breathers in a polyethylene chain. <i>Physical Review B</i> , <b>2003</b> , 67,	3.3	32
688	Detection of acoustic solitary waves in nonlinear lithium niobate crystals. 2003, 82, 2733-2735		2
687	Chemical Tuning of Nonlinearity Leading to Intrinsically Localized Modes in Halide-Bridged Mixed-Valence Platinum Materialsâ[]2003, 107, 8198-8207		10
686	Discrete quantum breathers: what do we know about them?. <i>Chaos</i> , <b>2003</b> , 13, 676-82	3.3	54
685	Modulational instability of nonlinear spin waves in easy-axis antiferromagnetic chains. II. Influence of sample shape on intrinsic localized modes and dynamic spin defects. <i>Physical Review B</i> , <b>2003</b> , 67,	3.3	45
684	Discrete solitons in inhomogeneous waveguide arrays. <i>Chaos</i> , <b>2003</b> , 13, 744-53	3.3	17
683	Observation of discrete solitons in optically induced real time waveguide arrays. <i>Physical Review Letters</i> , <b>2003</b> , 90, 023902	7.4	430

### (2003-2003)

682	Discrete vector solitons in two-dimensional nonlinear waveguide arrays: solutions, stability, and dynamics. <i>Physical Review E</i> , <b>2003</b> , 67, 056618	2.4	35
681	Study of intrinsic localized vibrational modes in micromechanical oscillator arrays. <i>Chaos</i> , <b>2003</b> , 13, 702	-1553	76
680	An Envelope Soliton in a Nonlinear Chain with the Power-Law Dependence of Long-Range Interaction. <b>2003</b> , 20, 554-556		4
679	Intrinsic localized modes in photonic crystal circuits. <i>Chaos</i> , <b>2003</b> , 13, 754-65	3.3	27
678	Collective rotational tunneling of methyl groups and quantum solitons in 4-methylpyridine: Neutron scattering studies of single crystals. <i>Physical Review B</i> , <b>2003</b> , 68,	3.3	8
677	Numerical approximation of breathers in lattices with nearest-neighbor interactions. <i>Physical Review E</i> , <b>2003</b> , 67, 026703	2.4	11
676	Two-vibron bound states in alpha-helix proteins: the interplay between the intramolecular anharmonicity and the strong vibron-phonon coupling. <i>Physical Review E</i> , <b>2003</b> , 68, 021909	2.4	56
675	Energy exchange in collisions of intrinsic localized modes. <i>Physical Review E</i> , <b>2003</b> , 68, 066608	2.4	29
674	Confinement of discrete breathers in inhomogeneously profiled nonlinear chains. <i>Physical Review E</i> , <b>2003</b> , 67, 037601	2.4	7
673	Selected topics in lattice dynamics: a critical review (including breathers). <i>Chaos</i> , <b>2003</b> , 13, 667-75	3.3	2
672	If "discrete breathers" is the answer, what is the question?. Chaos, 2003, 13, 657-66	3.3	20
671	Existence and stability of discrete gap breathers in a diatomic beta Fermi-Pasta-Ulam chain. <i>Physical Review E</i> , <b>2003</b> , 67, 046612	2.4	29
670	Instabilities and bifurcations of nonlinear impurity modes. <i>Physical Review E</i> , <b>2003</b> , 67, 046604	2.4	19
669	Semiclassical quantization of localized lattice solitons. <b>2003</b> , 68,		11
668	Two-vibron bound states lifetime in a one-dimensional molecular lattice coupled to acoustic phonons. <i>Journal of Chemical Physics</i> , <b>2003</b> , 118, 3736-3747	3.9	18
667	Two-vibron bound states in CO/Ru(001): An effective Hamiltonian approach. <i>Journal of Chemical Physics</i> , <b>2003</b> , 118, 9364-9371	3.9	16
666	Moving Compacton-like Kink in a Purely Anharmonic Lattice with Symmetric On-Site Potential. <b>2003</b> , 20, 105-107		1
665	Diffusion of intrinsic localized modes by attractor hopping. <b>2003</b> , 36, 11779-11790		1

664	Optical manipulation of intrinsic localized vibrational energy in cantilever arrays. <b>2004</b> , 66, 318-323		69
663	Localized rotating-modes in capacitively coupled intrinsic Josephson junctions: Systematic study of branching structure and collective dynamical instability. <i>Physical Review B</i> , <b>2004</b> , 70,	.3	54
662	Transmission anomalies in Kerr media photonic crystal circuits: Intrinsic localized modes. <i>Physical Review B</i> , <b>2004</b> , 69,	.3	17
661	Intermittent movement of localized excitations of a nonlinear lattice. <i>Physical Review E</i> , <b>2004</b> , 70, 016609	·4	20
660	Discrete solitons and soliton-induced dislocations in partially coherent photonic lattices. <i>Physical Review Letters</i> , <b>2004</b> , 92, 123902	·4	193
659	Role of breathers in anomalous decay. <i>Physical Review E</i> , <b>2004</b> , 70, 016610	·4	14
658	Bright and dark breathers in Fermi-Pasta-Ulam lattices. <i>Physical Review B</i> , <b>2004</b> , 70,	.3	29
657	Anisotropic enhancement of discrete diffraction and formation of two-dimensional discrete-soliton trains. <i>Physical Review Letters</i> , <b>2004</b> , 92, 143902	·4	77
656	Computational investigation of intrinsic localization in crystalline Si. <i>Physical Review B</i> , <b>2004</b> , 69,	.3	38
655	The dynamical generation of two-dimensional matter-wave discrete solitons. <b>2004</b> , 6, S231-S240		10
654	A PANORAMIC VIEW OF SOME PERTURBED NONLINEAR WAVE EQUATIONS. <b>2004</b> , 14, 1-40		24
653	Intrinsic local modes and heterogeneity in relaxor ferroelectrics. <b>2004</b> , 16, L313-L320		10
652	Quasi-Continuum Approximation for Discrete Breathers in Fermiâ <b>P</b> astaâ <b>U</b> lam Atomic Chains. <b>2004</b> , 73, 2100-2111		11
651	Dynamic properties of Ni, Cu, and Fe in the condensed state: The molecular dynamics method. <b>2004</b> , 49, 203-206		1
650	Nonlinear theory of solitary waves associated with longitudinal particle motion in lattices. <b>2004</b> , 29, 247-2	263	30
649	Inhomogeneity, local mode formation, and the breakdown of the Bloch theorem in complex charge transfer systems as a consequence of discrete breather formation. <i>Physical Review B</i> , <b>2004</b> , 70,	.3	17
648	On classification of intrinsic localized modes for the discrete nonlinear Schrölinger equation. <b>2004</b> , 194, 127-150		72
647	Breathers on diatomic Fermiâ <b>P</b> astaâ�lam lattices. <b>2004</b> , 196, 124-171		30

646	Nonlinearity and disorder in fiber arrays. <i>Physical Review Letters</i> , <b>2004</b> , 93, 053901	'·4	159
645	Observation of vortex-ring "discrete" solitons in 2D photonic lattices. <i>Physical Review Letters</i> , <b>2004</b> , 92, 123904	'·4	300
644	Modulated wavepackets associated with longitudinal dust grain oscillations in a dusty plasma crystal. <b>2004</b> , 11, 1384-1393		25
643	The interaction of intrinsic localized modes in the gap of doped semiconductors with plasmons. <b>2004</b> , 15, 966-969		
642	Rich example of geometrically induced nonlinearity: from rotobreathers and kinks to moving localized modes and resonant energy transfer. <i>Physical Review E</i> , <b>2004</b> , 70, 066627	4	16
641	SOLITONS IN A MONOATOMIC CHAIN WITH KACâ <b>B</b> AKER-LIKE LONG-RANGE INTERACTION POTENTIAL. <b>2004</b> , 18, 2713-2719		6
640	Asymmetric Envelope and Hole Solitons in a Monoatomic Chain with Kacâ <b>B</b> aker-like Long-Range Interaction Potential. <b>2004</b> , 73, 123-129		12
639	Localizing Energy Through Nonlinearity and Discreteness. <b>2004</b> , 57, 43-49		389
638	On localized solutions of discrete nonlinear Schräinger equation: An exact result. <b>2005</b> , 204, 122-133		8
637	Targeted energy transfer between a Rotor and a Morse oscillator: A model for selective chemical dissociation. <b>2005</b> , 207, 1-23		9
636	Energy localization and molecular dissociation. <b>2005</b> , 343, 274-280		7
635	Dissipative solitons of the discrete complex cubicâquintic Ginzburgâ[landau equation. <b>2005</b> , 347, 231-240	)	18
634	Existence and stability of breathers in lattices of weakly coupled two-dimensional near-integrable Hamiltonian oscillators. <b>2005</b> , 201, 65-82		8
633	Observation of random-phase lattice solitons. <b>2005</b> , 433, 500-3		76
632	Travelling Breathers with Exponentially Small Tails in a Chain of Nonlinear Oscillators. <b>2005</b> , 257, 51-85		18
631	Transmission of nonlinear localized modes through waveguide bends. <b>2005</b> , 69, 223-234		2
630	Breather Lattices as Pseudospin Glasses. <b>2005</b> , 71, 318-324		5
629	Symbolic Computation of Extended Jacobian Elliptic Function Algorithm for Nonlinear Differential-Different Equations. <i>Communications in Theoretical Physics</i> , <b>2005</b> , 43, 471-478	:-4	37

628	Existence and stability of 3-site breathers in a triangular lattice. <b>2005</b> , 38, 1021-1030		24
627	Moving and Interaction of Compact-like Pulses in Kleinâlordon Lattice System. <i>Communications in Theoretical Physics</i> , <b>2005</b> , 44, 151-154	2.4	
626	Soliton Solutions of Discrete Complex Ginzburgâllandau Equation via Extended Hyperbolic Function Approach. <i>Communications in Theoretical Physics</i> , <b>2005</b> , 44, 79-84	2.4	3
625	Localized waves in nonlinear oscillator chains. <i>Chaos</i> , <b>2005</b> , 15, 15113	3.3	54
624	Discrete breathers in Fermi-Pasta-Ulam lattices. <i>Chaos</i> , <b>2005</b> , 15, 15112	3.3	54
623	Nonlinear lattices generated from harmonic lattices with geometric constraints. <i>Physical Review B</i> , <b>2005</b> , 71,	3.3	5
622	Counting discrete emission steps from intrinsic localized modes in a quasi-one-dimensional antiferromagnetic lattice. <i>Physical Review B</i> , <b>2005</b> , 71,	3.3	18
621	Classical waves on nonlinear lattices. <i>Physical Review B</i> , <b>2005</b> , 72,	3.3	6
620	Biphonons in the Klein-Gordon lattice. <i>Physical Review B</i> , <b>2005</b> , 71,	3.3	34
619	Dynamical structure factor of a nonlinear Klein-Gordon lattice. <i>Physical Review B</i> , <b>2005</b> , 72,	3.3	6
618	Localized two-vibron bound-state dynamics in a molecular lattice with a defect: Resonances between bound, localized, and free states. <i>Physical Review B</i> , <b>2005</b> , 71,	3.3	13
617	Counting intrinsic localized modes in an antiferromagnet. 2005,		
616	On modulational instability of nonlinear waves in 1D ferromagnetic spin chains. <b>2005</b> , 17, 3083-3112		19
615	Stable spatiotemporal solitons in bessel optical lattices. <i>Physical Review Letters</i> , <b>2005</b> , 95, 023902	7.4	85
614	Bloch modes and self-localized waveguides in nonlinear photonic crystals. <b>2005</b> , 22, 613		14
613	Experiments on Gaussian beams and vortices in optically induced photonic lattices. <b>2005</b> , 22, 1395		22
612	Nonlinear lattice model for spatially guided solitons in nonlinear photonic crystals. <b>2005</b> , 13, 1544-54		4
611	The Fermi-Pasta-Ulam problem: fifty years of progress. <i>Chaos</i> , <b>2005</b> , 15, 15104	3.3	211

## (2006-2005)

610	The anti-FPU problem. <i>Chaos</i> , <b>2005</b> , 15, 15110	3.3	45	
609	NONLINEAR EXCITATIONS IN STRONGLY-COUPLED PLASMA LATTICES: ENVELOPE SOLITONS, KINKS AND INTRINSIC LOCALIZED MODES. <b>2006</b> , 16, 1711-1725		8	
608	Discrete breathers in nonlinear magnetic metamaterials. <i>Physical Review Letters</i> , <b>2006</b> , 97, 157406	7.4	84	
607	Formation of a new dynamical mode in -uranium observed by inelastic x-ray and neutron scattering. <i>Physical Review Letters</i> , <b>2006</b> , 96, 125501	7.4	98	
606	Observation of discrete solitons and soliton rotation in optically induced periodic ring lattices. <i>Physical Review Letters</i> , <b>2006</b> , 96, 083904	7.4	101	
605	Multi-quanta energy relaxation in a nonlinear quantum dimer coupled to a phonon bath. <b>2006</b> , 221, 13-	-30	12	
604	New exact solutions to some difference differential equations. <b>2006</b> , 15, 2210-2215		29	
603	From diffusive to coherent light propagation in disordered nonlinear fiber arrays. 2006, WA7			
602	An Integrable Three Particle System Related to Intrinsic Localized Modes in Fermiâ <b>P</b> astaâ <b>Ū</b> lam-∰ Chain. <b>2006</b> , 75, 014401		5	
601	Dynamical contribution into enzyme catalytic efficiency. <b>2006</b> , 371, 481-491		9	
600	Exact solutions of discrete complex cubicâquintic Ginzburgâllandau equation with non-local quintic term. <b>2006</b> , 263, 309-316		30	
599	A regularized model equation for discrete breathers in anharmonic lattices with symmetric nearest-neighbor potentials. <b>2006</b> , 214, 33-41		9	
598	Biphonons in the ∉FermiâPastaâDlam model. <b>2006</b> , 216, 200-206		23	
597	Quantum breathers in a nonlinear Klein Gordon lattice. <b>2006</b> , 216, 191-199		15	
596	Discrete Breathers: Localization and transfer of energy in discrete Hamiltonian nonlinear systems. <b>2006</b> , 216, 1-30		130	
595	Energy dissipation threshold and self-induced transparency in systems with discrete breathers. <b>2006</b> , 216, 121-135		23	
594	Fast energy transfer mediated by multi-quanta bound states in a nonlinear quantum lattice. <b>2006</b> , 221, 58-71		10	
593	Asymptotic behavior of stochastic discrete complex Ginzburgâllandau equations. <b>2006</b> , 221, 157-169		31	

Quantization of intrinsic localized modes: Effective linear lattice method. **2006**, 359, 438-444

591	Self-consistent theory of intrinsic localized modes: Application to monatomic chain. <b>2006</b> , 357, 393-396		7
590	Anomalous decay and breather formation in doped alkali halides. <b>2006</b> , 121, 465-469		6
589	Modulational instability and spatial structures of the Ablowitzâ[ladik equation. <b>2006</b> , 266, 648-655		7
588	Two-vibron bound states in a stochastic surrounding: Quantum breather diffusion. 2006, 213, 1-14		4
587	Quantum Solitons and Localized Modes in a One-Dimensional Lattice Chain with Nonlinear Substrate Potential. <i>Communications in Theoretical Physics</i> , <b>2006</b> , 45, 869-872	2.4	3
586	Jacobian Elliptic Function Method and Solitary Wave Solutions for Hybrid Lattice Equation. <i>Communications in Theoretical Physics</i> , <b>2006</b> , 45, 1057-1062	2.4	3
585	Interaction of intrinsic localized modes with structures in anharmonic lattice systems. <b>2006</b> , 14, S85-S94	1	2
584	Linear local modes induced by intrinsic localized modes in a monatomic chain. <i>Physical Review B</i> , <b>2006</b> , 73,	3.3	16
583	Traveling solitons in one-dimensional quartic lattices. <i>Physical Review B</i> , <b>2006</b> , 74,	3.3	3
582	Opticlike excitations in bcc He4: An inelastic neutron scattering study. <i>Physical Review B</i> , <b>2006</b> , 73,	3.3	3
581	Colloquium: Nonlinear energy localization and its manipulation in micromechanical oscillator arrays. <b>2006</b> , 78, 137-157		252
580	Quasiperiodic and chaotic discrete breathers in a parametrically driven system without linear dispersion. <i>Physical Review E</i> , <b>2006</b> , 73, 046211	2.4	26
579	Formation and light guiding properties of dark solitons in one-dimensional waveguide arrays. <i>Physical Review E</i> , <b>2006</b> , 74, 065601	2.4	43
578	Governing soliton splitting in one-dimensional lattices. <i>Physical Review E</i> , <b>2006</b> , 73, 046603	2.4	19
577	Interaction of an external impurity with the surface intrinsic mode in a Heisenberg chain. <i>Physical Review B</i> , <b>2006</b> , 73,	3.3	5
576	COMPUTATIONAL STUDIES OF DISCRETE BREATHERS âlFROM BASICS TO COMPETING LENGTH SCALES. <b>2006</b> , 16, 1645-1669		6
575	A STABILITY CRITERION FOR MULTIBREATHERS IN KLEINâ©ORDON CHAINS. <b>2006</b> , 16, 1823-1827		4

## (2007-2007)

574	Periodic orbits in biological molecules: phase space structures and selectivity in alanine dipeptide. Journal of Chemical Physics, <b>2007</b> , 126, 175101	3.9	11
573	Equilibration problem for the generalized Langevin equation. 2007, 79, 60003		25
572	Intrinsic localized modes and trapped phonons in crystal lattices. <i>Journal of Physics: Conference Series</i> , <b>2007</b> , 92, 012142	0.3	1
571	Management of localized energy in discrete nonlinear transmission lines. <b>2007</b> , 80, 30002		31
57°	Modulational instabilities in acetanilide taking into account both the Nâ⊞ and the C=O vibrational self-trappings. <b>2007</b> , 75, 174-181		1
569	Coupling of stationary nonlinear modes in an electrical lattice. <b>2007</b> , 76, 480-485		1
568	Self-consistent potential of intrinsic localized modes: Application to diatomic chain. <i>Physical Review B</i> , <b>2007</b> , 75,	3.3	9
567	Driven localized excitations in the acoustic spectrum of small nonlinear macroscopic and microscopic lattices. <i>Physical Review Letters</i> , <b>2007</b> , 98, 214101	7.4	23
566	Boundary-induced energy localization in a nonlinear quantum lattice. <i>Physical Review B</i> , <b>2007</b> , 76,	3.3	5
565	Bifurcations of discrete breathers in a diatomic FermiâPastaâDlam chain. <b>2007</b> , 20, 631-657		23
564	Discrete gap breathers in a diatomic K 2 âlk 3 âlk 4 chain with cubic nonlinearity. <b>2007</b> , 16, 228-235		4
563	Excitation of intrinsic localized modes in a graphene sheet. <b>2007</b> , 80, 40008		61
562	Manipulation of Intrinsic Localized Modes by Elastic Waves in One Dimensional Anharmonic Lattice Systems. <b>2007</b> , 340-341, 997-1002		2
561	Dark Solitons in FPU Lattice Chain. <i>Communications in Theoretical Physics</i> , <b>2007</b> , 48, 917-920	2.4	7
560	Experimental generation of intrinsic localized modes in a discrete electrical transmission line. <b>2007</b> , 40, 5394-5398		36
559	Adomian Decomposition Method for Nonlinear Differential-Difference Equation. <i>Communications in Theoretical Physics</i> , <b>2007</b> , 48, 983-986	2.4	4
558	Backward resonant scattering of synchrotron radiation by F nuclei in crystals âla pathway to intrinsic local modes. <i>Journal of Physics: Conference Series</i> , <b>2007</b> , 92, 012166	0.3	
557	Energy transfer in coupled nonlinear phononic waveguides: transition from wandering breather to nonlinear self-trapping. <i>Journal of Physics: Conference Series</i> , <b>2007</b> , 92, 012093	0.3	11

556	Intrinsically localized vibrations and the mechanical properties of Euranium. 2007, 444-445, 129-132	9
555	A brief historical introduction to solitons and the inverse scattering transformâl vision of Scott Russell. <b>2007</b> , 38, 1003-1028	3
554	Semiclassical approximation for the specific heat of non-crystalline solids at intermediate temperatures. <b>2007</b> , 87, 291-297	3
553	Nonlinear optical media in photonic crystal waveguides: Intrinsic localized modes and device applications. <b>2007</b> , 12, 18-32	5
552	Discrete breathers in two-dimensional nonlinear lattices. <b>2007</b> , 45, 68-82	28
551	Theory of vibration propagation in disordered media. <b>2007</b> , 45, 30-47	4
550	Moving discrete breathers in nonlinear lattice: Resonance and stability. <b>2007</b> , 45, 83-99	29
549	Localized oscillations of a spatially periodic and articulated structure. <b>2007</b> , 45, 100-117	7
548	A method of easy fabrication of 2D light-induced nonlinear photonic lattices in self-defocusing LiNbO3:Fe crystal. <b>2007</b> , 30, 527-531	5
547	Chaotic breathers of two types in a two-dimensional Morse lattice with an on-site harmonic potential. <b>2007</b> , 225, 184-196	30
546	The polaronic soliton in a narrow gap system. <b>2007</b> , 226, 80-94	
545	Raman and photoluminescence study of CdSe nanoparticles capped with a bifunctional molecule. <b>2007</b> , 39, 8-14	56
544	Modulational instability in isolated and driven Fermiâ <b>P</b> astaâ <b>D</b> lam lattices. <b>2007</b> , 147, 3-23	13
543	Energy localization and transport in two-dimensional Fermiâ <b>P</b> astaâ <b>U</b> lam lattices. <b>2007</b> , 147, 73-92	2
542	Semiclassical and quantum polarons in crystalline acetanilide. 2007, 147, 303-331	19
541	An Exterior Differential System for a Generalized Korteweg-de Vries Equation and its Associated Integrability. <b>2007</b> , 95, 223-231	10
540	Existence and stability of quasi-periodic breathers in networks of Ginzburgâllandau oscillators. <b>2007</b> , 227, 43-50	7
539	Intrinsic localized modes in a three particle Fermiâ <b>P</b> astaâ <b>D</b> lam lattice with on-site harmonic potential. <b>2007</b> , 74, 292-301	1

538	Discrete moving breather collisions in a Kleinâldordon chain of oscillators. <b>2008</b> , 372, 1256-1264	9
537	Stability change of intrinsic localized mode in finite nonlinear coupled oscillators. <b>2008</b> , 372, 4592-4595	15
536	Discrete breathers âlʿAdvances in theory and applications. <b>2008</b> , 467, 1-116	667
535	Intrinsic localized modes in microresonator arrays and their relationship to nonlinear vibration modes. <i>Nonlinear Dynamics</i> , <b>2008</b> , 54, 13-29	52
534	Localized vibrational modes in an A 3 B two-dimensional perfect crystal. 2008, 51, 858-865	26
533	Doubly Periodic Wave Solutions and Soliton Solutions of Ablowitzâ[ladik Lattice System. <b>2008</b> , 47, 338-349	6
532	Weak Coupling Limit and Localized Oscillations in Euclidean Invariant Hamiltonian Systems. <b>2008</b> , 18, 433-461	4
531	Intrinsic localized modes and nonlinear impurity modes in curved Fermi-Pasta-Ulam chain. <b>2008</b> , 70, 1023-102	292
530	Two-polaron energy diffusion in a 1D lattice of hydrogen bonded peptide units. 2008, 237, 106-118	6
529	Bulk and surface localized modes on a magnetic nonlinear impurity. <b>2008</b> , 372, 6975-6980	
529 528	Bulk and surface localized modes on a magnetic nonlinear impurity. <b>2008</b> , 372, 6975-6980  Discrete solitons in optics. <b>2008</b> , 463, 1-126	787
		787
528	Discrete solitons in optics. 2008, 463, 1-126	
528 527	Discrete solitons in optics. <b>2008</b> , 463, 1-126  Localized vibrations in perfect anharmonic lattices: Trapping on phonons. <b>2008</b> , 128, 995-997  Exact solutions of discrete complex cubic Ginzburgâllandau equation via extended tanh-function	2
528 527 526	Discrete solitons in optics. 2008, 463, 1-126  Localized vibrations in perfect anharmonic lattices: Trapping on phonons. 2008, 128, 995-997  Exact solutions of discrete complex cubic Ginzburgâllandau equation via extended tanh-function approach. 2008, 56, 55-62	19
528 527 526 525	Discrete solitons in optics. 2008, 463, 1-126  Localized vibrations in perfect anharmonic lattices: Trapping on phonons. 2008, 128, 995-997  Exact solutions of discrete complex cubic Ginzburgâllandau equation via extended tanh-function approach. 2008, 56, 55-62  q-breathers in discrete nonlinear Schrälinger lattices. 2008, 10, 073034  Exact travelling wave solutions of the discrete nonlinear Schrälinger equation and the hybrid	2 19
528 527 526 525	Discrete solitons in optics. 2008, 463, 1-126  Localized vibrations in perfect anharmonic lattices: Trapping on phonons. 2008, 128, 995-997  Exact solutions of discrete complex cubic Ginzburgâllandau equation via extended tanh-function approach. 2008, 56, 55-62  q-breathers in discrete nonlinear Schrälinger lattices. 2008, 10, 073034  Exact travelling wave solutions of the discrete nonlinear Schrälinger equation and the hybrid lattice equation obtained via the exp-function method. 2008, 78, 015013  Intrinsic nature of thermally activated dynamical modes in EJ: Nonequilibrium mode creation by	2 19 10 53

520	Passive non-linear targeted energy transfer and its applications to vibration absorption: A review. <b>2008</b> , 222, 77-134		31
519	Discrete breathers in carbon nanotubes. <b>2008</b> , 82, 66002		44
518	Absence of wave packet diffusion in disordered nonlinear systems. <i>Physical Review Letters</i> , <b>2008</b> , 100, 084103	7.4	183
517	Assigning vibrational spectra of ferryl-oxo intermediates of cytochrome C oxidase by periodic orbits and molecular dynamics. <b>2008</b> , 130, 12385-93		17
516	Existences and stabilities of bright and dark breathers in a general one-dimensional discrete monatomic Chain. <i>Chinese Physics B</i> , <b>2008</b> , 17, 1331-1340	1.2	6
515	Quantum Solitary Wave Solutions in a Ferromagnetic Chain with Nearest- and Next-Nearest-Neighbor Interaction. <i>Communications in Theoretical Physics</i> , <b>2008</b> , 50, 1177-1180	2.4	5
514	Intrinsically Localized Modes in Uranium and the Prospect for Finding them in Plutonium. <b>2008</b> , 1104, 1		
513	Bright and dark small amplitude nonlinear localized modes in a quantum one-dimensional Kleinâtordon chain. <i>Chinese Physics B</i> , <b>2008</b> , 17, 3841-3846	1.2	1
512	Discrete breathers in ac-driven nanoelectromechanical shuttle arrays. <b>2008</b> , 93, 222110		16
511	Intrinsically localized mode in 🗓 as a precursor to a solid-state phase transition. <i>Physical Review B</i> , <b>2008</b> , 77,	3.3	16
510	Modulated waves and pattern formation in coupled discrete nonlinear LC transmission lines. <i>Physical Review E</i> , <b>2008</b> , 78, 016606	2.4	15
509	Discrete breathers in vibroimpact chains: analytic solutions. <i>Physical Review E</i> , <b>2008</b> , 78, 026609	2.4	19
508	Magnetoinductive breathers in metamaterials. <i>Physical Review E</i> , <b>2008</b> , 77, 036608	2.4	32
507	Interaction of discrete breathers with thermal fluctuations. 2008, 34, 554-558		5
506	Generation of traveling solitons in one-dimensional monatomic quartic lattices. <i>Physical Review B</i> , <b>2008</b> , 78,	3.3	4
505	Parametric solitons in two-dimensional lattices of purely nonlinear origin. <i>Physical Review Letters</i> , <b>2008</b> , 100, 053901	7·4	32
504	Modulation analysis of large-scale discrete vortices. <i>Physical Review E</i> , <b>2008</b> , 78, 036604	2.4	3
503	Wandering breathers and self-trapping in weakly coupled nonlinear chains: classical counterpart of macroscopic tunneling quantum dynamics. <i>Physical Review E</i> , <b>2008</b> , 77, 046603	2.4	29

502	Visualizing intrinsic localized modes with a nonlinear micromechanical array. 2008, 34, 543-548		11
501	Nonlinear localized modes in complex chains and carbon nanotubes. <b>2008</b> , 34, 549-553		1
500	Approximation of Solitons in the Discrete NLS Equation. <i>Journal of Nonlinear Mathematical Physics</i> , <b>2008</b> , 15, 124	0.9	15
499	Phonon density of states of ∃and Eplutonium by inelastic x-ray scattering. <i>Physical Review B</i> , <b>2009</b> , 79,	3.3	23
498	Self-induced gap solitons in nonlinear magnetic metamaterials. <i>Physical Review E</i> , <b>2009</b> , 80, 036608	2.4	12
497	Localized breathing modes in granular crystals with defects. <i>Physical Review E</i> , <b>2009</b> , 80, 066601	2.4	76
496	Capture and release of traveling intrinsic localized mode in coupled cantilever array. <i>Chaos</i> , <b>2009</b> , 19, 013138	3.3	21
495	Dynamics of metastable breathers in nonlinear chains in acoustic vacuum. <i>Physical Review E</i> , <b>2009</b> , 79, 036603	2.4	25
494	Anti-Fermi-Pasta-Ulam energy recursion in diatomic lattices at low energy densities. <i>Physical Review B</i> , <b>2009</b> , 80,	3.3	16
493	Modulational instability of zone boundary mode and band edge modes in nonlinear diatomic lattices. <i>Physical Review E</i> , <b>2009</b> , 79, 026603	2.4	7
492	Nucleation of breathers via stochastic resonance in nonlinear lattices. <i>Physical Review Letters</i> , <b>2009</b> , 102, 205505	7.4	17
491	BREATHERS IN INHOMOGENEOUS NONLINEAR LATTICES: AN ANALYSIS VIA CENTER MANIFOLD REDUCTION. <b>2009</b> , 21, 1-59		27
490	On some classes of two-dimensional local models in discrete two-dimensional monatomic FPU lattice with cubic and quartic potential. <i>Chinese Physics B</i> , <b>2009</b> , 18, 259-268	1.2	3
489	Periodic, Quasiperiodic and Chaotic Discrete Breathers in a Parametrical Driven Two-Dimensional Discrete Klein-Gordon Lattice. <b>2009</b> , 26, 040501		2
488	On the stability of multibreathers in Kleinâ©ordon chains. <b>2009</b> , 22, 2269-2285		36
487	Discrete gap breathers in a two-dimensional diatomic face-centered square lattice. <i>Chinese Physics B</i> , <b>2009</b> , 18, 4393-4406	1.2	4
486	Intrinsic Localized Lattice Modes and Thermal Transport: Potential Application in a Thermal Rectifier. <b>2009</b> , 1172, 101		
485	Single molecules detect ultra-slow oscillators in a molecular crystal excited by ac voltages. <b>2009</b> , 11, 023037		16

484	Avalanches of Boseâ <b>E</b> instein condensates in leaking optical lattices. <b>2009</b> , 11, 073045	28
483	Periodic, quasiperiodic and chaotic discrete breathers in a parametrical driven two-dimensional discrete diatomic Kleinâtordon lattice. <i>Chinese Physics B</i> , <b>2009</b> , 18, 2469-2474	5
482	One-dimensional delocalizing transitions of matter waves in optical lattices. <b>2009</b> , 238, 1372-1387	12
481	Dynamic long-period nanosized states in lattice structure. <b>2009</b> , 52, 132-137	8
480	Experimental and numerical exploration of intrinsic localized modes in an atomic lattice. <b>2009</b> , 35, 57-72	7
479	Discrete breathers in a two-dimensional Morse lattice with an on-site harmonic potential. <b>2009</b> , 4, 497-504	6
478	Anomalous thermostat and intraband discrete breathers. <b>2009</b> , 238, 2045-2061	7
477	Discrete nonlinear Schrödinger equation with arbitrary nonlocality: Linear stability analysis and localized solution. <b>2009</b> , 373, 1031-1036	3
476	Coupled cantilever array with tunable on-site nonlinearity and observation of localized oscillations. <b>2009</b> , 373, 1257-1260	39
475	Modulational instability and exact soliton solutions for a twist-opening model of DNA dynamics. <b>2009</b> , 373, 2476-2483	20
474	Energy transfer in weakly coupled nonlinear oscillator chains: Transition from a wandering breather to nonlinear self-trapping. <i>Journal of Sound and Vibration</i> , <b>2009</b> , 322, 524-531	10
473	Jacobi elliptic function solutions of the Ablowitzâlladik discrete nonlinear Schräinger system. <b>2009</b> , 40, 786-792	19
472	Adomian decomposition method for nonlinear differential-difference equations. <i>Communications in Nonlinear Science and Numerical Simulation</i> , <b>2009</b> , 14, 12-18	21
471	Nature of the 5f states in actinide metals. <b>2009</b> , 81, 235-298	366
470	Moving breather collisions in Klein-Gordon chains of oscillators. <i>European Physical Journal B</i> , <b>2009</b> , 70, 543-555	
469	Equilibrium thermodynamics and thermodynamic processes in nonlinear systems. <i>European Physical Journal B</i> , <b>2009</b> , 72, 247-256	2
468	Intrinsic localized modes in parametrically driven arrays of nonlinear resonators. <i>Physical Review E</i> , <b>2009</b> , 80, 046202	51
467	Bulk and surface magnetoinductive breathers in binary metamaterials. <i>Physical Review E</i> , <b>2009</b> , 80, 0466@54	14

## (2010-2009)

466	Discrete breathers in a forced-damped array of coupled pendula: modeling, computation, and experiment. <i>Physical Review Letters</i> , <b>2009</b> , 102, 224101	62
465	Energy localization in molecules, bifurcation phenomena, and their spectroscopic signatures: the global view. <b>2009</b> , 109, 4248-71	61
464	Classical waves on nonlinear lattices. II. Qn. <b>2009</b> , 50, 012701	
463	Intrinsic localized modes observed in the high-temperature vibrational spectrum of NaI. <i>Physical Review B</i> , <b>2009</b> , 79,	89
462	KAM tori in 1D random discrete nonlinear Schräinger model?. <b>2010</b> , 91, 50001	50
461	Emission of supersonic soliton wave beamsagenerators of restructuring of nanocrystals under atom bombardment, and the self-organization of a dynamic superlattice of complexes of soliton atomic vibrations. <b>2010</b> , 52, 899-903	11
460	Gap discrete breathers in two-component three-dimensional and two-dimensional crystals with Morse interatomic potentials. <b>2010</b> , 52, 1499-1505	16
459	Non-linear Localized Lattice Mode Coupling Mechanism and the Pseudogap in High-temperature Superconducting Cuprates. <b>2010</b> , 23, 333-338	3
458	Energy localization and white noise-induced enhancement of response in a micro-scale oscillator array. <i>Nonlinear Dynamics</i> , <b>2010</b> , 62, 1-16	30
457	Influence of nonlinear atomic interaction on excitation of intrinsic localized modes in carbon nanotubes. <b>2010</b> , 239, 407-413	16
456	From polaron to solectron: The addition of nonlinear elasticity to quantum mechanics and its possible effect upon electric transport. <b>2010</b> , 233, 1432-1445	59
455	Multi-field approach in mechanics of structural solids. <b>2010</b> , 47, 510-525	35
454	Integrability and Prolongation Structure of a Generalized Korteweg-de Vries Equation. <b>2010</b> , 6, 125-130	3
453	Exterior Differential Systems for Higher Order Partial Differential Equations. <b>2010</b> , 6, 52-55	1
452	Discrete breathers in a model with Morse potentials. <i>Chinese Physics B</i> , <b>2010</b> , 19, 026302 1.2	2
451	Spatial shift of lattice soliton scattering in the Fermi-Pasta-Ulam model. <i>Physical Review E</i> , <b>2010</b> , 81, 037 <b>6</b> 04	7
450	Stone-Wales transformations triggered by intrinsic localized modes in carbon nanotubes. <i>Physical Review B</i> , <b>2010</b> , 81,	52
449	Localization in Microresonator Arrays: Influence of Natural Frequency Tuning. <b>2010</b> , 5,	23

448	A Perturbation Approach for Predicting Wave Propagation in One-Dimensional Nonlinear Periodic Structures. <b>2010</b> , 132,		135
447	Discrete Breathers and Solitons in Metamaterials. <b>2010</b> , 273-287		2
446	Quantum coherence of discrete kink solitons in ion traps. <i>Physical Review Letters</i> , <b>2010</b> , 104, 043004	7.4	39
445	Discrete breathers in one-dimensional diatomic granular crystals. <i>Physical Review Letters</i> , <b>2010</b> , 104, 244302	7.4	192
444	Intrinsic energy localization through discrete gap breathers in one-dimensional diatomic granular crystals. <i>Physical Review E</i> , <b>2010</b> , 82, 056604	2.4	71
443	Different Kinds of Discrete Breathers in Three Types of One-Dimensional Models. <i>Communications in Theoretical Physics</i> , <b>2010</b> , 54, 728-734	2.4	1
442	Elastic scattering of traveling phonons by discrete breathers as a time-periodic scatterer in the one-dimensional discrete nonlinear Schräinger model: Exact analysis. <i>Physical Review E</i> , <b>2010</b> , 82, 0366	0 <del>7</del> ·4	3
441	Soliton steering by longitudinal modulation of the nonlinearity in waveguide arrays. <i>Physical Review Letters</i> , <b>2010</b> , 104, 053903	7.4	24
440	Effects of long-range forces in nonlinear dynamics of crystals: creation of defects and self-localized vibrations. <b>2010</b> , 15, 012045		3
439	Discrete breathers in crystals with NaCl structure. <i>Physical Review B</i> , <b>2010</b> , 81,	3.3	73
438	Modulational Instability and localized modes for ultrasound contrast microbubbles surface oscillations. <b>2011</b> ,		4
437	Discrete breathers in a nonlinear electric line: modeling, computation, and experiment. <i>Physical Review E</i> , <b>2011</b> , 84, 026605	2.4	28
436	Symmetry-breaking dynamical pattern and localization observed in the equilibrium vibrational spectrum of NaI. <b>2011</b> , 1, 4		35
435	Lifetime of gap discrete breathers in diatomic crystals at thermal equilibrium. <i>Physical Review B</i> , <b>2011</b> , 84,	3.3	39
434	Prediction of high-frequency intrinsic localized modes in Ni and Nb. <i>Physical Review B</i> , <b>2011</b> , 84,	3.3	55
433	Existence and stability of discrete breathers in diatomic Fermiâ <b>P</b> astaâ�lam type lattices. <b>2011</b> , 24, 293	-317	26
432	Klein-Gordon equation approach to nonlinear split-ring resonator based metamaterials: One-dimensional systems. <i>Physical Review B</i> , <b>2011</b> , 84,	3.3	20
431	Discrete breathers in deformed graphene. <b>2011</b> , 94, 539-543		63

430	Radiation damage and recovery due to the interaction of crystal defects with anharmonic lattice excitations. <b>2011</b> , 419, 378-385	9	
429	Reaction-rate theory with account of the crystal anharmonicity. <i>Physical Review E</i> , <b>2011</b> , 83, 041124 2.4	1 37	
428	Localized oscillating modes in two-dimensional model of regulated Pt3Al alloy. <b>2011</b> , 37, 98-101	20	
427	Effect of elastic deformation on phonon spectrum and characteristics of gap discrete breathers in crystal with NaCl-type structure. <b>2011</b> , 37, 451-454	13	
426	Heat conductivity of a nonlinear 盱PU lattice. <b>2011</b> , 5, 1023-1037	3	
425	Generation of high-amplitude soliton waves in crystalline materials of different dimensions under high radiative, dynamic, and temperature loads. <b>2011</b> , 56, 1126-1130	4	
424	Soliton microdynamics of structural phase transitions in crystalline materials and phonons of a new type on phase interfaces. <b>2011</b> , 56, 1139-1144	4	
423	Influence of elastic strain on the density of phonon states and characteristics of discrete breathers in the gap of the phonon spectrum of a crystal with a NaCl structure. <b>2011</b> , 56, 1612-1618	5	
422	On the possibility of electric transport mediated by long living intrinsic localized solectron modes. <i>European Physical Journal B</i> , <b>2011</b> , 80, 545-554	2 29	
421	Linearity stabilizes discrete breathers. <b>2011</b> , 77, 975-986	4	
420	Structure and Stability of Nonlinear Vibration Mode in Graphene Sheet. <b>2011</b> , 10, 3393-3398	19	
419	Multisolitons and stability of two hump solitons of upper cutoff mode in discrete electrical transmission line. <b>2011</b> , 375, 1104-1109	16	
418	Semi-quantal method approach to small-amplitude nonlinear localized modes in a one-dimensional KleinâCordon monatomic chain. <b>2011</b> , 83, 015601	1	
418		18	
	Kleinâllordon monatomic chain. <b>2011</b> , 83, 015601		
417	Kleinatordon monatomic chain. <b>2011</b> , 83, 015601  NONLINEAR MAGNETOINDUCTIVE TRANSMISSION LINES. <b>2011</b> , 21, 2147-2159	18	
417	NONLINEAR MAGNETOINDUCTIVE TRANSMISSION LINES. <b>2011</b> , 21, 2147-2159  Discrete breathers in nonlinear LiNbO3-type ferroelectrics. <b>2011</b> , 109, 054105	18 9	

412	Discrete breathers in a realistic coarse-grained model of proteins. <b>2011</b> , 8, 046008		15
411	KAM TORI AND ABSENCE OF DIFFUSION OF A WAVE-PACKET IN THE 1D RANDOM DNLS MODEL. <b>2011</b> , 21, 2125-2145		13
410	Discrete Spatial Solitons in the Two-Dimensional Optical Waveguide Arrays. <b>2012</b> , 424-425, 435-438		
409	The High-Temperature Phonon Anomalies of Euranium <b>2012</b> , 1444, 131		
408	Maximizing the amplitude of coherent phonons with shaped laser pulses. <b>2012</b> , 112, 113103		9
407	Quantized breather excitations of Fermi-Pasta-Ulam lattices. <i>Physical Review E</i> , <b>2012</b> , 85, 011129	2.4	16
406	Nonuniversal heat conduction of one-dimensional lattices. <i>Physical Review E</i> , <b>2012</b> , 85, 020102	2.4	34
405	1D PHONON SCATTERING BY STABLE SPATIALLY INHOMOGENEOUS EQUILIBRIUM SOLUTION IN NONLINEAR DISCRETE KLEINâGORDON MODEL: EXACT ANALYSIS. <b>2012</b> , 26, 1250025		
404	Discrete solitons in chem {cal PT} -symmetric lattices. <b>2012</b> , 100, 56006		52
403	Search for Light-Induced Intrinsic Localized Modes: Negative Result. <b>2012</b> , 440, 42-46		1
402	QUANTIZED INTRINSICALLY LOCALIZED MODES: LOCALIZATION THROUGH INTERACTION. <b>2012</b> , 11, 12-21		1
401	Numerical Study on Unstable Perturbation of Intrinsic Localized Modes in Graphene. <b>2012</b> , 6, 71-80		18
400	Temperature-dependent hybridization gaps: A cause of phonon anomalies in f electron systems?. <i>Journal of Physics: Conference Series</i> , <b>2012</b> , 391, 012056	0.3	
399	Modulational Instability of Zone Boundary Mode and Band Edge Modes in Two-Dimensional Nonlinear Lattices. <b>2012</b> , 81, 124402		1
398	Discrete breathers in a nutshell. <b>2012</b> , 3, 12-26		1
397	Shozo Takeno and intrinsic localized modes. <b>2012</b> , 3, 2-11		
396	Intrinsic localized modes in nonlinear models inspired by DNA. <b>2012</b> , 3, 27-51		4
395	Stability of discrete breathers in diatomic nonlinear oscillator chains. <b>2012</b> , 3, 52-66		3

394	Intrinsic localized mode as in-plane vibration in two-dimensional Fermi-Pasta-Ulam lattices. <b>2012</b> , 3, 67-76		2
393	Discrete breathers in strained graphene. <b>2012</b> , 3, 77-86		2
392	Precise velocity measurements for driven intrinsic localized modes in the acoustic spectrum of small cantilever arrays. <b>2012</b> , 3, 87-102		3
391	Experimental manipulation of intrinsic localized modes in macro-mechanical system. <b>2012</b> , 3, 233-245		6
390	Stability of discrete breathers in nonlinear Klein-Gordon type lattices with pure anharmonic couplings. <b>2012</b> , 53, 102701		15
389	Nonlinear Effects and Multisolitons in Metamaterials. <b>2012</b> , 4, 641-645		
388	Intrinsic localized modes in two-dimensional vibrations of crystalline pillars and their application for sensing. <b>2012</b> , 112, 104326		5
387	Discrete energy levels of bright solitons in lithium niobate ferroelectrics. <i>Physical Review B</i> , <b>2012</b> , 86,	3	10
386	Quantized intrinsically localized modes of the FermiâPastaâDlam lattice. 2012, 92, 134-144		6
385	Localized anharmonic rattling of Al atoms in VAl10.1. <i>Physical Review B</i> , <b>2012</b> , 85,	3	32
384	Discrete breather clusters in strained graphene. <b>2012</b> , 100, 36005		62
383	The polarizability model for ferroelectricity in perovskite oxides. <b>2012</b> , 24, 273202		31
383	The polarizability model for ferroelectricity in perovskite oxides. <b>2012</b> , 24, 273202  Spontaneous excitation of discrete breathers in crystals with the NaCl structure at elevated temperatures. <b>2012</b> , 54, 1648-1651		
	Spontaneous excitation of discrete breathers in crystals with the NaCl structure at elevated	2	31
382	Spontaneous excitation of discrete breathers in crystals with the NaCl structure at elevated temperatures. <b>2012</b> , 54, 1648-1651  Investigation of energy relaxation in 1-D nonlinear lattices by wavelets. <i>European Physical Journal B</i> ,	2	31
382	Spontaneous excitation of discrete breathers in crystals with the NaCl structure at elevated temperatures. <b>2012</b> , 54, 1648-1651  Investigation of energy relaxation in 1-D nonlinear lattices by wavelets. <i>European Physical Journal B</i> , <b>2012</b> , 85, 1	2	31 12 1
382 381 380	Spontaneous excitation of discrete breathers in crystals with the NaCl structure at elevated temperatures. 2012, 54, 1648-1651  Investigation of energy relaxation in 1-D nonlinear lattices by wavelets. European Physical Journal B, 2012, 85, 1  Noise-enhanced Response of Nonlinear Oscillators. 2012, 5, 59-68	2	31 12 1

376	Solitary waves and stable analysis for the quintic discrete nonlinear Schrödinger equation. 2012, 86, 015	401	6
375	Toward Analytic Solution of Nonlinear Differential Difference Equations via Extended Sensitivity Approach. <i>Communications in Theoretical Physics</i> , <b>2012</b> , 57, 5-9	2.4	1
374	Mobile Intrinsic Localized Modes of a Spatially Periodic and Articulated Structure. <b>2012</b> , 81, 014002		3
373	Possible rectified frictionless transport of localized vacancies in solid 4He. <b>2012</b> , 14, 894-896		1
372	Periodic Travelling Waves of Forced FPU Lattices. <b>2013</b> , 25, 795-820		6
371	Interaction of discrete nonlinear Schräinger solitons with a linear lattice impurity. 2013, 87,		11
370	Ferromagnetism in Fe-doped CdSe nanorods prepared by solvothermal route. 2013, 24, 4464-4470		3
369	Quantum breathers in ferromagnetic chains with on-site easy axis anisotropy. <b>2013</b> , 91, 788-792		10
368	Quantum Breathers in an Anisotropic Ferromagnetic Heisenberg Chain with Biquadratic Exchange Interaction. <b>2013</b> , 52, 4139-4147		1
367	INTRINSIC LOCALIZED MODES IN QUANTUM FERROMAGNETIC ISINGâHEISENBERG CHAINS WITH SINGLE-ION UNIAXIAL ANISOTROPY. <b>2013</b> , 27, 1350139		5
366	Propagation dynamics on the Fermi-Pasta-Ulam lattices. <b>2013</b> , 8, 349-355		4
365	Breather-like protonic tunneling in a discrete hydrogen bonded chain with heavy-ionic interactions. <b>2013</b> , 87, 035007		14
364	Discrete breathers in hydrogenated graphene. <b>2013</b> , 46, 305302		51
363	Loss of stability of a solitary wave through exciting a cnoidal wave on a Fermi-Pasta-Ulam ring. <i>Physical Review E</i> , <b>2013</b> , 88, 042901	2.4	7
362	Barrier transmission map of one-dimensional nonlinear split-ring-resonator-based metamaterials: Bright, dark, and gray soliton resonances. <i>Physical Review B</i> , <b>2013</b> , 88,	3.3	2
361	Energy localization on the Al sublattice of Pt3Al with L12 order. <b>2013</b> , 114, 213506		27
360	Boson bound states in the ∰ermiâ <b>P</b> astaâDlam model. <b>2013</b> , 81, 839-848		3
359	Nonlinear localized modes in two-dimensional electrical lattices. <i>Physical Review E</i> , <b>2013</b> , 88, 022912	2.4	33

358	Exact solutions for discrete breathers in a forced-damped chain. <i>Physical Review E</i> , <b>2013</b> , 87, 062911 2.4	21
357	Energy exchange between discrete breathers in crystal with NaCl structure. <b>2013</b> , 39, 618-620	12
356	Transfer of dipolar gas through the discrete localized mode. <i>Physical Review E</i> , <b>2013</b> , 88, 062916 2.4	3
355	On the mechanisms of radiation damage and prospects of their suppression in complex metal oxides. <b>2013</b> , 250, 261-270	21
354	Multibreathers in Kleinâ©ordon chains with interactions beyond nearest neighbors. <b>2013</b> , 242, 16-29	22
353	Multibreather stability in discrete Kleinâllordon equations: Beyond nearest neighbor interactions. <b>2013</b> , 377, 1543-1553	9
352	Intrinsic localized modes in a nonlinear electrical lattice with saturable nonlinearity. 2013, 103, 30006	7
351	String-like cooperative motion in homogeneous melting. <i>Journal of Chemical Physics</i> , <b>2013</b> , 138, 12A538 <sub>3.9</sub>	62
350	Optical excitation of Josephson plasma solitons in a cuprate superconductor. <b>2013</b> , 12, 535-41	56
349	Raman spectroscopy of very small Cd1â\(\text{LCoxS}\) quantum dots grown by a novel protocol: direct observation of acoustic-optical phonon coupling. <b>2013</b> , 44, 1022-1032	20
348	Nonlinear targeted energy transfer and macroscopic analog of the quantum Landauâldener effect in coupled granular chains. <b>2013</b> , 252, 46-58	40
347	Non-existence of phase-shift breathers in one-dimensional Kleinatordon lattices with nearest-neighbor interactions. <b>2013</b> , 377, 2022-2026	8
346	Spectro-spatial wave features as detectors and classifiers of nonlinearity in periodic chains. <b>2013</b> , 50, 821-835	14
345	Rectification of energy transport in nonlinear metamaterials via ratchets. <b>2013</b> , 46, 205102	2
344	Intrinsic Localized Modes of Harmonic Oscillations in Nonlinear Oscillator Arrays. 2013, 8,	7
343	Self-trapped leaky waves in lattices: discrete and Bragg soleakons. <b>2013</b> , 21, 19690-700	1
342	Brownian localization: A generalized coupling model yielding a nonergodic Langevin equation description. <i>Chinese Physics B</i> , <b>2013</b> , 22, 060513	1
341	Periodic, quasiperiodic, and chaotic breathers in two-dimensional discrete FermiâPastaâDlam lattice. <i>Chinese Physics B</i> , <b>2013</b> , 22, 086302	

340	Thermally populated intrinsic localized modes in pure alkali halide crystals. <i>Physical Review B</i> , <b>2013</b> , 88,	3.3	28
339	Switching dynamics and linear response spectra of a driven one-dimensional nonlinear lattice containing an intrinsic localized mode. <i>Physical Review E</i> , <b>2013</b> , 87, 012920	2.4	11
338	Decohering localized waves. <i>Physical Review E</i> , <b>2013</b> , 88, 012901	2.4	7
337	Selective SHI irradiation for mesa type edge termination in semiconductor planar junction. <i>Journal of Physics: Conference Series</i> , <b>2013</b> , 423, 012057	0.3	3
336	Nonlinear Superposition Formula for the Hirota Lattice Equation. <b>2013</b> , 82, 014005		4
335	Bifurcation dynamics of a perturbed intrinsic localized mode in a driven micromechanical array. <b>2013</b> , 4, 225-231		
334	Reduced systems for Intrinsic Localized Modes on an infinite oscillator array. <b>2013</b> , 4, 244-255		
333	Oscillating multidromion excitations in higher-dimensional nonlinear lattice with intersite and external on-site potentials using symbolic computation. <i>Chinese Physics B</i> , <b>2014</b> , 23, 010307	1.2	1
332	Spin discrete breathers in two-dimensional square anisotropic ferromagnets. <b>2014</b> , 89, 095208		6
331	Head-on and head-off collisions of discrete breathers in two-dimensional anharmonic crystal lattices. <i>European Physical Journal B</i> , <b>2014</b> , 87, 1	1.2	17
330	Correlation Between Structure and Ferromagnetism in Cobalt-Doped CdSe Nanorods. <b>2014</b> , 27, 2371-2	377	9
329	Ergodicity: How Can It Be Broken?. <b>2014</b> , 29-70		
328	Recording oscillations of sub-micron size cantilevers by extreme ultraviolet Fourier transform holography. <b>2014</b> , 22, 4161-7		11
327	Invariants of nonlinearity in the phononic characteristics of granular chains. <i>Physical Review E</i> , <b>2014</b> , 90, 023205	2.4	10
326	Lattice dynamics of NaI studied by inelastic neutron scattering: Absence of thermally induced discrete breathers. <i>Physical Review B</i> , <b>2014</b> , 89,	3.3	8
325	Quantum breathers in Heisenberg ferromagnetic chains with Dzyaloshinsky-Moriya interaction. <i>Chaos</i> , <b>2014</b> , 24, 023113	3.3	23
324	Textures of quantum intrinsically localized modes. <i>Physical Review B</i> , <b>2014</b> , 90,	3.3	
323	Granular chain between asymmetric boundaries and the quasiequilibrium state. <i>Physical Review E</i> , <b>2014</b> , 89, 053202	2.4	8

322	Properties of discrete breathers in graphane from ab initio simulations. <i>Physical Review B</i> , <b>2014</b> , 90,	3.3	65
321	Transmission in a 1D split-ring resonator metamaterial containing a nonlinear barrier: soliton modes. <b>2014</b> ,		
320	Properties of moving discrete breathers in a monoatomic two-dimensional crystal. <b>2014</b> , 119, 766-771		12
319	Quantum solitons in the Fermiâ <b>B</b> astaâ <b>D</b> lam model. <b>2014</b> , 28, 1450075		1
318	Effect of Ni-doping concentration on structural, optical and magnetic properties of CdSe nanorods. <b>2014</b> , 26, 1-6		26
317	Intrinsic localized modes of a classical discrete anisotropic Heisenberg ferromagnetic spin chain. <b>2014</b> , 378, 1119-1125		19
316	Phonon localization drives polar nanoregions in a relaxor ferroelectric. <b>2014</b> , 5, 3683		80
315	Quantized intrinsically localized modes of a 3D lattice. <b>2014</b> , 94, 424-432		O
314	Unexpected high-temperature stability of 眍n4Sb3 opens the door to enhanced thermoelectric performance. <b>2014</b> , 136, 1497-504		97
313	Intrinsic Localized Spin-Wave Modes in an Anisotropic Ferromagnet with DzyaloshinskyâMoriya Interaction. <i>Communications in Theoretical Physics</i> , <b>2014</b> , 62, 91-96	2.4	4
312	Electromagnetic soliton propagation in an anisotropic Heisenberg helimagnet. <b>2014</b> , 378, 3021-3027		6
311	Integrable discrete PT symmetric model. <i>Physical Review E</i> , <b>2014</b> , 90, 032912	2.4	129
310	Soliton dynamics of a discrete integrable Ablowitzâlladik equation for some electrical and optical systems. <b>2014</b> , 35, 46-51		29
309	Moving discrete breathers in a monoatomic two-dimensional crystal. <b>2014</b> , 99, 353-357		32
308	Multiple high-temperature transitions driven by dynamical structures in NaI. <i>Physical Review B</i> , <b>2014</b> , 89,	3.3	9
307	Analysis of intrinsic localised mode for a new energy harvesting cantilever array. <b>2014</b> , 66, 10902		4
306	Dynamics of nonlinear excitations of helically confined charges. <i>Physical Review E</i> , <b>2015</b> , 92, 042905	2.4	10
305	All-Phononic Digital Transistor on the Basis of Gap-Soliton Dynamics in an Anharmonic Oscillator Ladder. <i>Physical Review Letters</i> , <b>2015</b> , 115, 104301	7.4	13

304	Mechanistic transition of heat conduction in two-dimensional solids: A study of silica bilayers. <i>Physical Review B</i> , <b>2015</b> , 92,	3.3	6
303	Intrinsic Localized Modes of Principal Parametric Resonances in Pendulum Arrays Subjected to Vertical Excitation. <b>2015</b> , 10,		1
302	Staircase Structure of Shapiro Steps. <b>2015</b> , 102, 803-806		3
301	Supertransmission channel for an intrinsic localized mode in a one-dimensional nonlinear physical lattice. <i>Chaos</i> , <b>2015</b> , 25, 103122	3.3	7
300	Intrinsic Localized Modes in Proteins. <b>2015</b> , 5, 18128		9
299	Intrinsic localized modes of 1/2-order subharmonic oscillations in nonlinear oscillator arrays.  Nonlinear Dynamics, 2015, 81, 1759-1777	5	4
298	Targeted energy transfers and passive acoustic wave redirection in a two-dimensional granular network under periodic excitation. <b>2015</b> , 118, 234901		15
297	Semiclassical intrinsic localized modes in the FermiâPastaâDlam lattice model with first- and second-nearest neighbor interactions. <b>2015</b> , 29, 1550214		2
296	Stability and phase transition of localized modes in Boseâ <b>E</b> instein condensates with both two- and three-body interactions. <b>2015</b> , 360, 679-693		5
295	On the interaction of propagating intrinsic localized modes with an isolated impurity in a linear atomic chain. <b>2015</b> , 379, 1833-1836		1
294	Prospects for the use of dynamic discrete breathers in nanofibers crystals stoichiometry A3B with the structure of L12. <b>2015</b> ,		0
293	Interaction of discrete breathers with primary lattice defects in bcc Fe. <b>2015</b> , 23, 085007		27
292	Exciting discrete breathers of two types in a computer 3D model of Pt3Al crystal. <b>2015</b> , 41, 994-997		9
291	Intrinsic Localized Modes of Harmonic Oscillations in Pendulum Arrays Subjected to Horizontal Excitation. <b>2015</b> , 10,		5
<b>29</b> 0	Long range annealing of defects in germanium by low energy plasma ions. 2015, 297, 56-61		30
289	Multiplicity of transmission coefficients in photonic crystal and split ring resonator waveguides with Kerr nonlinear impurities. <i>Physical Review B</i> , <b>2015</b> , 91,	3.3	1
288	Discrete solitons in graphene metamaterials. <i>Physical Review B</i> , <b>2015</b> , 91,	3.3	27
287	Dynamics of impurity attraction and repulsion of an intrinsic localized mode in a driven 1-D cantilever array. <i>Chaos</i> , <b>2015</b> , 25, 013103	3.3	6

286	Harnessing intrinsic localized modes to identify impurities in nonlinear periodic systems. <b>2015</b> , 117, 074505	2
285	Cooperative surmounting of bottlenecks. <b>2015</b> , 586, 1-51	6
284	Standing and Moving Discrete Breathers with Frequencies Above the Phonon Spectrum. <b>2015</b> , 229-245	5
283	Propagation of flexural waves in inhomogeneous plates exhibiting hysteretic nonlinearity: Nonlinear acoustic black holes. <b>2015</b> , 61, 126-35	14
282	Bright discrete solitons in spatially modulated DNLS systems. <b>2015</b> , 48, 345201	
281	Granular chains with soft boundaries: Slowing the transition to quasiequilibrium. <i>Physical Review E</i> , <b>2015</b> , 91, 042207	11
280	Response localization in micro-scale oscillator arrays: influence of cubic coupling nonlinearities. <b>2015</b> , 3, 183-188	15
279	Localized Modes in Nonlinear Discrete Systems. <b>2015</b> , 119-166	4
278	Discrete breathers in 2D and 3D crystals. <b>2015</b> , 252, 1682-1686	24
277	Damage identification in nonlinear periodic structures utilizing the dynamics of intrinsic localized modes. <b>2015</b> ,	
276	Simulation of the interaction between discrete breathers of various types in a Pt3Al crystal nanofiber. <b>2015</b> , 121, 217-221	15
275	Moving discrete breathers in bcc metals V, Fe and W. <b>2015</b> , 98, 88-92	36
274	Solitons in Polymer Systems. <i>Springer Series in Synergetics</i> , <b>2015</b> , 171-241 0.4	
273	Localized nonlinear modes in microbubbles under the action of ultrasound. 2016,	1
272	Influence of elastic strain on the possibility of excitation of discrete breathers in the nanofiber crystal with A3B stoichiometry. <b>2016</b> ,	
271	Effects of noise on symmetric intrinsic localized modes. <i>Nonlinear Dynamics</i> , <b>2016</b> , 85, 333-341 5	17
270	Quantum Breathers in Anisotropy Ferromagnetic Chains with Second-Order Coupling. <b>2016</b> , 55, 3657-3671	1
269	Ab initio simulation of gap discrete breathers in strained graphene. <b>2016</b> , 58, 633-639	34

268	Existence of discrete solitons in discrete nonlinear Schräinger equations with non-weak couplings. <b>2016</b> , 33, 379-400		3
267	Propagation of envelope bright breather coupled wave modes in Ablowitzâ[ladik chains. <b>2016</b> , 40, 8139-8	155	2
266	Inductive intrinsic localized modes in a one-dimensional nonlinear electric transmission line.  Physical Review E, <b>2016</b> , 94, 012223	4	7
265	Discrete breathers for a discrete nonlinear Schräinger ring coupled to a central site. <i>Physical Review E</i> , <b>2016</b> , 93, 012219	4	2
264	Symmetric Potential Lattice and Smooth Propagation of Tail-Free Discrete Breathers. <i>Physical Review Letters</i> , <b>2016</b> , 117, 014101	'·4	18
263	Solitary Magnons in the S=5/2 Antiferromagnet CaFe_{2}O_{4}. <i>Physical Review Letters</i> , <b>2016</b> , 117, 017207	1.4	21
262	Discrete breathers in alpha-uranium. <i>European Physical Journal B</i> , <b>2016</b> , 89, 1	.2	35
261	Nonlinear dynamics and the nano-mechanical control of electrons in crystalline solids. <b>2016</b> , 225, 921-941		5
260	Dark soliton collisions of a discrete Ablowitzâ[ladik equation for an electrical/optical system. <b>2016</b> , 55, 106122		2
259	From solitons to discrete breathers. <i>European Physical Journal B</i> , <b>2016</b> , 89, 1	.2	14
258	Discrete breathers in crystals: Energy localization and transport. <b>2016</b> , 01, 1630001		16
257	Nonlinear Instabilities of Multi-Site Breathers in Kleinâ©ordon Lattices. <b>2016</b> , 137, 214-237		8
256	Quantum breathers in XXZ ferromagnetic chains with on-site easy-plane anisotropy. <b>2016</b> , 30, 1650100		1
255	Nonlinear supratransmission of multibreathers in discrete nonlinear Schräinger equation with saturable nonlinearities. <b>2016</b> , 65, 112-118		16
254	Long-lived discrete breathers in free-standing graphene. <b>2016</b> , 87, 262-267		16
253	Highly symmetric discrete breather in a two-dimensional Morse crystal. <b>2016</b> , 103, 277-281		30
252	Transverse intrinsic localized modes in monatomic chain and in graphene. <b>2016</b> , 380, 1075-1081		21

250	On solitary patterns in Lotkaâl⁄Volterra chains. <b>2016</b> , 49, 095101		9
249	Quantum Two-breathers Formed by Ultracold Bosonic Atoms in Optical Lattices. <b>2016</b> , 55, 2697-2710		3
248	Quantum signature of discrete breathers in a nonlinear Kleinâtordon lattice with nearest and next-nearest neighbor interactions. <i>Communications in Nonlinear Science and Numerical Simulation</i> , <b>2016</b> , 34, 77-85	3.7	5
247	Intrinsic Localized Modes in Quantum Ferromagnetic XXZ Chains in an Oblique Magnetic Field. <b>2016</b> , 55, 1201-1210		1
246	Nonlinear nano-scale localized breather modes in a discrete weak ferromagnetic spin lattice. <b>2016</b> , 401, 394-405		31
245	Localized vibrational modes in diamond. <b>2017</b> , 381, 1003-1008		35
244	Localized discrete breather modes in neuronal microtubules. <i>Nonlinear Dynamics</i> , <b>2017</b> , 88, 2013-2033	5	12
243	Bright and dark solitons for a discrete (2+1)-dimensional Ablowitzâlladik equation for the nonlinear optics and Boseâllinstein condensation. <i>Communications in Nonlinear Science and Numerical Simulation</i> , <b>2017</b> , 50, 201-210	3.7	21
242	Dark solitons for a discrete variable-coefficient Ablowitzâ[ladik equation for an electrical/optical system. <b>2017</b> , 64, 1435-1442		О
241	Transverse discrete breathers in unstrained graphene. European Physical Journal B, 2017, 90, 1	1.2	43
240	Discrete breathers and modulational instability in a discrete (varvec{phi ^{4}}) nonlinear lattice with next-nearest-neighbor couplings. <i>Nonlinear Dynamics</i> , <b>2017</b> , 88, 2417-2426	5	19
239	Spatial properties and numerical solitary waves of a nonintegrable discrete nonlinear Schräinger equation with nonlinear hopping. <b>2017</b> , 309, 93-106		2
238	Energy thresholds of discrete breathers in thermal equilibrium and relaxation processes. <i>Chaos</i> , <b>2017</b> , 27, 063106	3.3	5
237	High-Frequency Dynamic Overshoot in Linear and Nonlinear Periodic Media. <b>2017</b> , 12,		1
236	Early time evolution of a localized nonlinear excitation in the FPUT chain. 2017, 31, 1742014		4
235	Energy transfer in strained graphene assisted by discrete breathers excited by external ac driving. <i>Physical Review B</i> , <b>2017</b> , 95,	3.3	41
234	Excitation of gap discrete breathers in an A3B crystal with a flux of particles. <b>2017</b> , 59, 223-228		10
233	Intrinsic localized mode and low thermal conductivity of PbSe. <i>Physical Review B</i> , <b>2017</b> , 95,	3.3	54

232	Crossover from ballistic to normal heat transport in the ?^{4} lattice: If nonconservation of momentum is the reason, what is the mechanism?. <i>Physical Review E</i> , <b>2017</b> , 96, 042109	2.4	25
231	Breathing subsonic crowdion in Morse lattices. <b>2017</b> , 13, 59-64		22
230	Perturbation and asymptotic solutions of energy localization of impurity modes in a one-dimensional anharmonic chain. <i>Physical Review B</i> , <b>2017</b> , 96,	3.3	1
229	Gap discrete breathers in strained boron nitride. <b>2017</b> , 381, 3553-3557		37
228	Propagating discrete breathers in forced one-dimensional granular networks: theory and experiment. <b>2017</b> , 19, 1		11
227	Intrinsic Localized Spin Wave Modes and Modulational Instability in a Two-Dimensional Heisenberg Ferromagnet. <b>2017</b> , 56, 3005-3018		1
226	Time-dependent spectral renormalization method. <b>2017</b> , 358, 15-24		2
225	Discrete breathers in graphane in thermal equilibrium. <b>2017</b> , 381, 3049-3053		18
224	Existence and Stability of Odd and Even Parity Discrete Breathers in FermiPastaUlam Lattices. <b>2017</b> , 16, 2063-2095		2
223	Solitons and Propagating Domain Walls in Topological Resonator Arrays. <b>2017</b> , 4, 1974-1979		29
222	Discrete breathers in biatomic crystals of AB and A 3 B composition. <b>2017</b> , 81, 1322-1326		
221	Stationary quasi-breathers in monatomic FCC metals. <b>2017</b> , 125, 913-919		2
220	Strongly localized dark modes in binary discrete media with cubic-quintic nonlinearity within the anti-continuum limit. <i>Journal of Physics: Conference Series</i> , <b>2017</b> , 949, 012013	0.3	
219	Nonlinear dynamics of a model of acoustic metamaterials with local resonators. <b>2017</b> , 8, 129-145		3
218	Nonlinear localization of chirped femtosecond pulse in layered photonic structure. 2017,		6
217	A Chain, a Bath, a Sink, and a Wall. <b>2017</b> , 19, 445		13
216	Existence regions of longitudinal and transverse intrinsic localized modes in Fermi-Pasta-Ulam chain in two-dimensional plane. <b>2017</b> , 8, 153-161		
215	Discrete breathers in an electric lattice with an impurity: Birth, interaction, and death. <i>Physical Review E</i> , <b>2018</b> , 97, 022225	2.4	6

214	Modulational Instability and Quantum Discrete Breather States of Cold Bosonic Atoms in a Zig-Zag Optical Lattice. <b>2018</b> , 57, 2218-2232	3
213	Experimentally observed evolution between dynamic patterns and intrinsic localized modes in a driven nonlinear electrical cyclic lattice. <b>2018</b> , 121, 30003	6
212	Discrete breathers assist energy transfer to ac-driven nonlinear chains. <i>Physical Review E</i> , <b>2018</b> , 97, 0222 <u>1.7</u> 4	21
211	Solitons as candidates for energy carriers in Fermi-Pasta-Ulam lattices. <i>Physical Review E</i> , <b>2018</b> , 97, 0122 <b>2</b> .4	3
210	Nonreciprocal Localization of Photons. <i>Physical Review Letters</i> , <b>2018</b> , 120, 043901 7.4	32
209	Center deviation of localized modes in a one-dimension anharmonic single impurity chain. <b>2018</b> , 534, 22-25	
208	Exact intrinsic localized excitation of an anisotropic ferromagnetic spin chain in external magnetic field with Gilbert damping, spin current and PT-symmetry. <b>2018</b> , 382, 1890-1895	3
207	Quantum breathers associated with modulational instability in 1D ultracold boson in optical lattices involving next-nearest neighbor interactions. <b>2018</b> , 164, 575-589	7
206	Wave Propagation in Inhomogeneous Excitable Media. <b>2018</b> , 9, 435-461	5
205	Modulational instability and discrete breathers in a nonlinear helicoidal lattice model.  Communications in Nonlinear Science and Numerical Simulation, 2018, 59, 349-358	5
204	Two Coupled Oscillators. <b>2018</b> , 3-26	1
203	Nonlinear Targeted Energy Transfer and Macroscopic Analogue of the Quantum Landau-Zener Effect in Coupled Granular Chains. <b>2018</b> , 293-325	
202	Resonant localized modes in electrical lattices with second-neighbor coupling. <i>Physical Review E</i> , <b>2018</b> , 98,	8
201	Phase dynamics of discrete breathers periodically tunneling in weakly coupled nonlinear chains. <b>2018</b> , 44, 671-677	
200	Modulational instability of longitudinal nonlinear wave along single wall carbon nanotubes under the effect of higher order inter-atomic interaction potential. <b>2018</b> , 83, 188-201	8
199	Properties of Moving Discrete Breathers in Beryllium. <b>2018</b> , 60, 989-994	16
198	Thermal Expansion of Single-Crystal H_{2}O and D_{2}O Ice Ih. <i>Physical Review Letters</i> , <b>2018</b> , 121, 1855057.4	12
197	Glassy Phenomena and Precursors in the Lattice Dynamics. <b>2018</b> , 101-117	

196	Nonlinear waves in a model for silicate layers. <i>Chaos</i> , <b>2018</b> , 28, 083119	3.3	11
195	Compactons. <b>2018</b> , 51, 343001		21
194	Low-frequency discrete breathers in long-range systems without on-site potential. <i>Physical Review E</i> , <b>2018</b> , 97, 062218	2.4	5
193	Solitary wave for a nonintegrable discrete nonlinear Schrdinger equation in nonlinear optical waveguide arrays. <i>Chinese Physics B</i> , <b>2018</b> , 27, 030201	1.2	1
192	Energy localization, Fano resonances, and nonlinear meta-optics. 2018, 44, 726-732		2
191	Discrete (Dark) Breathers. <b>2018</b> , 41-49		
190	A study of deformation localization in nonlinear elastic square lattices under compression. <b>2018</b> , 376,		2
189	Superconducting metamaterials. <b>2018</b> , 752, 1-67		28
188	Interaction of longitudinal phonons with discrete breather in strained graphene. <i>European Physical Journal B</i> , <b>2018</b> , 91, 1	1.2	9
187	Experimental demonstration of excitation and propagation of intrinsic localized modes in a massaBpring chain. <b>2018</b> , 382, 1957-1961		11
186	Supersonic propagation of lattice energy by phasons in fresnoite. <b>2018</b> , 9, 1823		7
185	Quantum breathers and intrinsic localized excitation associated with the modulational instability in 1D BoseâHubbard chain. <i>Communications in Nonlinear Science and Numerical Simulation</i> , <b>2019</b> , 69, 134-1	47 <sup>7</sup>	5
184	Nonlinear excitations and bound states of electrons, holes and solitons in bilayers of triangular lattices. <i>European Physical Journal B</i> , <b>2019</b> , 92, 1	1.2	3
183	Restricted normal mode analysis and chaotic response of p-mode intrinsic localized mode. <i>Nonlinear Dynamics</i> , <b>2019</b> , 97, 955-966	5	1
182	Topological bands and localized vibration modes in quasiperiodic beams. <b>2019</b> , 21, 093017		26
181	Discrete-breather-assisted charge transport along DNA-like molecular wires. <i>Physical Review E</i> , <b>2019</b> , 100, 052203	2.4	9
180	Isolated frequencies at which nonlinear materials behave linearly. <i>Physical Review E</i> , <b>2019</b> , 100, 051002	2.4	4
179	Molecular dynamics study of two-dimensional discrete breather in nickel. <b>2019</b> , 04, 1950001		6

178	Linear discrete breather in fcc metals. <b>2019</b> , 160, 217-221		15
177	Existence of dark solitons in discrete nonlinear Schräinger equations with non-weak couplings. <b>2019</b> , 36, 893-905		
176	Dynamics of soliton collision phenomena on classical discrete Heisenberg weak ferromagnetic spin chain. <b>2019</b> , 489, 165403		7
175	Intrinsic Localized P-Mode in Forced Nonlinear Oscillator Array. <i>Understanding Complex Systems</i> , <b>2019</b> , 294-299	0.4	
174	Intrinsic anharmonic localization in thermoelectric PbSe. <b>2019</b> , 10, 1928		34
173	Enhanced mobility of high-frequency discrete breathers in a monatomic chain with odd anharmonicity. <b>2019</b> , 383, 1893-1896		3
172	Experimental and numerical observation of dark and bright breathers in the band gap of a diatomic electrical lattice. <i>Physical Review E</i> , <b>2019</b> , 99, 032206	2.4	13
171	Doubly nonlinear waveguides with self-switching functionality selection capabilities. <i>Physical Review E</i> , <b>2019</b> , 99, 042206	2.4	12
170	PULSEDYNâA dynamical simulation tool for studying strongly nonlinear chains. <b>2019</b> , 239, 134-149		3
169	Discrete breathers modeling from first principles in graphene and in classical approximation in fcc Ni: Comparison. <b>2019</b> , 04, 1950002		5
168	Effects of Discrete Breathers on Thermal Transport in the (phi ^4) Lattice. <i>Advances in Dynamics, Patterns, Cognition</i> , <b>2019</b> , 281-308	0.7	
167	Analysis of the possibility of excitation of soliton-like waves in crystals using the ab initio method and molecular dynamic simulation. <i>Journal of Physics: Conference Series</i> , <b>2019</b> , 1353, 012061	0.3	
166	Nonlinear high-amplitude excitations of the CuPt7 crystal lattice: a molecular dynamics study. Journal of Physics: Conference Series, <b>2019</b> , 1399, 022002	0.3	
165	Solitary wavelike solutions in nonlinear dynamics of damped DNA systems. <i>European Physical Journal Plus</i> , <b>2019</b> , 134, 1	3.1	6
164	Hybrid breathers in nonlinear PT-symmetric metamaterials. <b>2019</b> , 100,		
163	Surface discrete breathers in Pt3Al intermetallic alloy. <b>2019</b> , 679, 1-5		35
162	Localized solutions of nonlinear network wave equations. <b>2019</b> , 52, 035101		1
161	Wavelet imaging of transient energy localization in nonlinear systems at thermal equilibrium: The case study of NaI crystals at high temperature. <i>Physical Review B</i> , <b>2019</b> , 99,	3.3	12

160	Assessment of discrete breathers in the metallic hydrides. <b>2019</b> , 158, 389-397	10
159	Interaction of phonons with discrete breathers in one-dimensional chain with tunable type of anharmonicity. <b>2020</b> , 384, 126100	7
158	Energy localization and excess fluctuations from long-range interactions in equilibrium molecular dynamics. <b>2020</b> , 540, 123228	2
157	Dissipative Discrete Breathers in Series-Connected Tunnel Diode Oscillator Lattice. <b>2020</b> , 89, 074005	O
156	Delocalized nonlinear vibrational modes of triangular lattices. <i>Nonlinear Dynamics</i> , <b>2020</b> , 102, 2793-2810 <sub>5</sub>	5
155	Nonlinear propagating modes beyond the phonons in fluorite-structured crystals. <b>2020</b> , 3,	7
154	Dynamics of Quasiperiodic Beams. <b>2020</b> , 10, 1144	7
153	Dissipative discrete breathers in a chain of Rayleigh oscillators. <i>Nonlinear Dynamics</i> , <b>2020</b> , 102, 1813-182§	3
152	Nonlinear stability of breather solutions to the coupled modified Korteweg-de Vries equations.  Communications in Nonlinear Science and Numerical Simulation, <b>2020</b> , 90, 105367  3-7	2
151	Discrete nonlocal nonlinear Schräinger systems: Integrability, inverse scattering and solitons. <b>2020</b> , 33, 3653-3707	11
150	Effect of discrete breathers on macroscopic properties of the Fermi-Pasta-Ulam chain. <i>European Physical Journal B</i> , <b>2020</b> , 93, 1	10
149	Symmetry transformation in Pd quasicrystals upon heating and hydrogenation. <b>2020</b> , 177, 109582	
148	Quantum compacton and quantum peakon in Heisenberg ferromagnetic chains with DzyaloshinskyâMoriya interaction. <b>2020</b> , 95, 045108	0
147	Spherically localized discrete breathers in bcc metals V and Nb. <b>2020</b> , 180, 109695	13
146	Configurational entropy of optical bright similariton in tapered graded-index waveguide. <b>2020</b> , 384, 126461	2
145	Suppressed-to-enhanced thermal transport in a Fermi-Pasta-Ulam superlattice: Mediation roles of solitons and phonons. <i>Physical Review E</i> , <b>2020</b> , 101, 042207	О
144	Radial solitons and modulational instability in two-dimensional Ablowitz-Ladik equation for certain applications in nonlinear optics. <b>2021</b> , 225, 165639	3
143	Two-dimensional Intrinsic Localized Mode Solutions in Hexagonal Fermiâ <b>B</b> astaâ <b>D</b> lam Lattice. <b>2021</b> , 90, 014003	1

142	Discrete magnetic breathers in monoaxial chiral helimagnet. <b>2021</b> , 11, 015208	2
141	Feasibility evaluation of new electric motors driven by intrinsic localized mode. 2021, 12, 475-488	1
140	Spatially localized vibrations in a rotor subjected to flutter. <i>Nonlinear Dynamics</i> , <b>2021</b> , 103, 309-325	4
139	Effect of Discrete Breathers on the Specific Heat of a Nonlinear Chain. <b>2021</b> , 31, 1	6
138	Experimental observations of nonlinear vibration localization in a cyclic chain of weakly coupled nonlinear oscillators. <i>Journal of Sound and Vibration</i> , <b>2021</b> , 497, 115952	7
137	Search of Nonlinear Energy Localized Structure in BCC Crystals. <b>2021</b> , 70, 330-335	
136	Quantum Breathers in a Two-Dimensional Hexangular Heisenberg Ferromagnet. <b>2021</b> , 60, 1438-1454	1
135	Prediction and observation of intermodulation sidebands from anharmonic phonons in NaBr.  Physical Review B, <b>2021</b> , 103,  3-3	
134	Discrete breathers in a triangular Fermi-Pasta-Ulam-Tsingou lattice. <i>Physical Review E</i> , <b>2021</b> , 103, 05220 <b>2</b> .4	8
133	Dynamics and wave propagation in nonlinear piezoelectric metastructures. <i>Nonlinear Dynamics</i> , <b>2021</b> , 105, 2995-3023	2
132	Discrete breathers and discrete oscillating kink solution in the mass-in-mass chain in the state of acoustic vacuum. <i>Communications in Nonlinear Science and Numerical Simulation</i> , <b>2021</b> , 107, 106020	
131	Ballistic Charge Transport by Mobile Nonlinear Excitations. 2100420	1
130	Quasi-stable localized excitations in the 盱ermi Pasta Ulam Tsingou system. <b>2021</b> , 150, 111194	
129	Existence of odd, even, and multi-pulse discrete breathers in infinite Fermi-Pasta-Ulam lattices. <b>2021</b> , 298, 560-608	1
128	Spin-transfer torque driven localized spin excitations in the presence of field-like torque. <b>2021</b> , 584, 126319	
127	Delocalized nonlinear vibrational modes in fcc metals. <i>Communications in Nonlinear Science and Numerical Simulation</i> , <b>2022</b> , 104, 106039	O
126	Properties of one-dimensional nonlinear vibrational modes in triangular lattice with Lennard-Jones interactions. 1008, 012073	3
125	Numerical simulation of magnetic discrete breathers in a Heisenberg spin chain with antisymmetric exchange. <b>2021</b> , 11, 109-114	2

124	2-D Breathers and Applications. <b>2000</b> , 293-305		7
123	Intrinsic Localized Modes in Anharmonic Lattices. NATO ASI Series Series B: Physics, 1997, 247-274		2
122	Compactons in Discrete Lattices. NATO ASI Series Series B: Physics, 1994, 255-258		24
121	Energy Localization in Nonlinear Lattices. NATO ASI Series Series B: Physics, 1994, 29-38		4
120	Moving Localized Modes in Nonlinear Lattices. NATO ASI Series Series B: Physics, 1993, 223-226		1
119	Energy Gain by Discrete Particle Non-linear Lattice Excitations. <i>Advances in Dynamics, Patterns, Cognition</i> , <b>2014</b> , 289-315	0.7	6
118	sine-Gordon Equation: From Discrete to Continuum. <i>Advances in Dynamics, Patterns, Cognition</i> , <b>2014</b> , 31-57	0.7	6
117	The sine-Gordon Equation in Josephson-Junction Arrays. <i>Advances in Dynamics, Patterns, Cognition</i> , <b>2014</b> , 155-175	0.7	7
116	The Origin of Defects Induced in Ultra-Pure Germanium by Electron Beam Deposition. <b>2015</b> , 363-380		4
115	Rate Theory of Acceleration of Defect Annealing Driven by Discrete Breathers. <b>2015</b> , 381-398		4
114	Moving Discrete Breathers in 2D and 3D Crystals. <b>2015</b> , 205-227		4
113	Discrete Solitons. <b>2001</b> , 269-292		15
112	Dynamics of Oscillator Chains. <b>2007</b> , 21-121		18
111	Discrete Breathers with Dissipation. <b>2008</b> , 1-32		3
110	The One-Dimensional Case. <b>2009</b> , 11-53		2
109	Introduction to Solitons in Photonic Lattices. <b>2010</b> , 73-99		2
108	FPU Recurrences and the Transition from Weak to Strong Chaos. <i>Springer Series in Synergetics</i> , <b>2012</b> , 133-164	0.4	1
107	Discrete Solitons in Nonlinear Waveguide Arrays. <b>1999</b> , 349-365		5

106	Intrinsic Localized Modes in Micro-scale Oscillator Arrays Subjected to Deterministic Excitation and White Noise. <b>2010</b> , 325-334		3
105	Influence of Noise on Discrete Breathers in Nonlinearly Coupled Micro-oscillator Arrays. <b>2011</b> , 247-254		2
104	Discrete Solitons in Nonlinear Waveguide Arrays. <b>2001</b> , 131-157		1
103	Breather Compactification in Nonlinear Anharmonic Lattices with Nonlocal Dispersive Interactions. <b>2001</b> , 189-195		2
102	Dynamics of Relative Phases: Generalised Multibreathers. <b>2001</b> , 157-182		2
101	Two-Dimensional Breather Lattice Solutions and Compact-Like Discrete Breathers and Their Stability in Discrete Two-Dimensional Monatomic	2.4	1
100	Construction of nonlinear lattice with potential symmetry for smooth propagation of discrete breather. <b>2020</b> , 33, 5142-5175		6
99	Two-vibron bound states in the #HermiâPastaâDlam model. Chinese Physics B, 2008, 17, 4268-4272	1.2	8
98	Eigenfrequency loci crossings, veerings and mode splittings of two cantilevers coupled by an overhang. <b>2020</b> , 4, 085010		3
97	Robust localized zero-energy modes from locally embedded PT-symmetric defects. <b>2020</b> , 2,		6
96	Stationary Self-Localized Magnons in Heisenberg Antiferromagnets. 1991, 60, 1881-1884		21
95	Approximate (Asymptotically Exact) Solutions for Anharmonic Localized Modes and Vortexlike Modesand Exact Static Vortexlike Mode Solutions in the D-Dimensional Sine-Lattice Equation. <b>1994</b> , 63, 1295-1310		8
94	Duality of the Existence of Localized Modes (Low- and High-Frequency Modes) in Pure Nonlinear Lattices âBine Lattices, Discrete Sine-Gordon Lattices, the Ablowitz-Ladik Lattices and One-Dimensional Lattices with Quartic Anharmonicityâ[1995, 64, 2380-2389		4
93	Existence of Nonlinear Rotating Modes in Intrinsic Josephson Effects in High-T c Superconductors. <b>2000</b> , 69, 213-218		3
92	The Existence and Stability of Discrete Breathers in Peyrard-Bishop DNA Model. <b>2012</b> , 02, 102-107		1
91	Moving Excitations in Cation Lattices. <b>2013</b> , 58, 646-656		10
90	Experimental excitation and propagation of nonlinear localized oscillations in an air-levitation-type coupled oscillator array. <b>2017</b> , 8, 146-152		7
89	Discrete breathers in metals and ordered alloys. <b>2017</b> , 8, 85-97		2

88	Multifield model for Cosserat media. 2008, 3, 1365-1382	15
87	New types of one-dimensional discrete breathers in a two-dimensional lattice. <b>2020</b> , 10, 185-188	4
86	Localized Structures in Nonlinear Lattice Systems âlhtrinsic Localized Modeâland Its Application to Dynamics of Atoms in Materials. <b>2006</b> , 55, 700-705	2
85	Discrete breathers in crystals. <b>2016</b> , 186, 471-488	4
84	Experiments with Discrete Breathers in Josephson Arrays. <b>2001</b> , 173-187	1
83	Anharmonic Gap Modes in Alkali Halides. <b>2001</b> , 343-347	
82	Quantization of Intrinsic Nonlinear Localized Modes in Solids. <b>2001</b> , 159-171	
81	Aspects of Discrete Breathers and New Directions. <b>2001</b> , 81-98	
80	Path Integral Quantization of FermiâPastaâDlam Solitons. 2003, 72, 7-11	1
79	Relaxor Ferroelectricity: Microscopic Origin. <b>2006</b> , 1-14	
78	Periodic Orbits in Biological Molecules. <b>2006</b> , 350-356	
77	???????????????????. <b>2007</b> , 110, 218	
76	On Bright and Dark Breathers in Lattices with Saturable Nonlinearity. <b>2007</b> , 112, 903-908	
75	Discrete Finite Systems. <b>2011</b> , 13-165	
74	Infinite Discrete Systems. <b>2011</b> , 167-236	
73	Local and Global Stability of Motion. Springer Series in Synergetics, 2012, 41-62	0.4
72	Normal Modes, Symmetries and Stability. Springer Series in Synergetics, 2012, 63-89	0.4
71	Solitons and the Inverse Scattering Transform. <b>2012</b> , 425-533	

70	Efficient Indicators of Ordered and Chaotic Motion. Springer Series in Synergetics, 2012, 91-132	0.4	
69	Localization and Diffusion in Nonlinear One-Dimensional Lattices. <i>Springer Series in Synergetics</i> , <b>2012</b> , 165-190	0.4	
68	Hamiltonian Systems of Few Degrees of Freedom. Springer Series in Synergetics, 2012, 13-39	0.4	
67	Introduction. Springer Series in Synergetics, <b>2012</b> , 1-12	0.4	
66	Conclusions, Open Problems and Future Outlook. Springer Series in Synergetics, 2012, 221-238	0.4	
65	The Statistical Mechanics of Quasi-stationary States. Springer Series in Synergetics, 2012, 191-220	0.4	
64	Control of Intrinsic Localized Mode in Coupled Cantilever Array. 2013, 359-374		
63	QUANTIZED INTRINSICALLY LOCALIZED MODES: LOCALIZATION THROUGH INTERACTION. 2012,		
62	Phonon Operators in Nonlinear Interaction Potentials. <b>2013</b> , 233-259		
61	Introduction and Overview. <b>2014</b> , 1-11		
60	Experimental Results for the sine-Gordon Equation in Arrays of Coupled Torsion Pendula. <i>Advances in Dynamics, Patterns, Cognition</i> , <b>2014</b> , 111-129	0.7	
59	A Classical and Quantum Theory of Dynamical Self-Trapping in Nonlinear Systems and its Implication to Energy Transfer in Biological Systems. <i>NATO ASI Series Series B: Physics</i> , <b>1990</b> , 31-46		
58	Narrow Kinks in Nonlinear Lattices: Application to the Proton Transport in Hydrogen-Bonded Systems. <i>NATO ASI Series Series B: Physics</i> , <b>1994</b> , 105-114		
57	Anharmonic Localized Modes in Physical and Biological Systems. <i>NATO ASI Series Series B: Physics</i> , <b>1994</b> , 39-50		
56	De Gruyter. Zeitschrift Fur Physikalische Chemie, <b>1996</b> , 1, 575-589	3.1	
55	Effects of Impurities on Existence and Propagation of Intrinsic Localized Modes in Ferromagnetic Spin Chains. <b>1999</b> , 415-418		
54	Topological Solitons. <i>Springer Series in Synergetics</i> , <b>2015</b> , 53-121	0.4	1

52	Chapter 10: Multisolitons in SRR-based Metamaterials in Klein-Gordon Lattices. <b>2017</b> , 273-308		
51	Phase Dynamics of Intrinsic Localized Modes in Two Weakly Coupled Nonlinear Chains and Correspondence Between Periodic Tunneling of Classical and Quantum Objects. <i>Advanced Structured Materials</i> , <b>2019</b> , 39-52	0.6	
50	Discrete Breathers in (phi ^4) and Related Models. Advances in Dynamics, Patterns, Cognition, 2019, 137	7-1672	1
49	######################################	0.1	
48	Dynamical regimes of finite-temperature discrete nonlinear Schrödinger chain. <i>Physical Review E</i> , <b>2021</b> , 104, 044136	2.4	О
47	Two-component localized vibrational modes in fcc metals. <i>European Physical Journal B</i> , <b>2021</b> , 94, 1	1.2	O
46	Modulational instability induced generation of solitary wave profile of an anisotropic-ferromagnetic nanowire with asymmetric Dzyaloshinskii-Moriya interaction. <i>Materials Today: Proceedings</i> , <b>2020</b> , 51, 1720-1720	1.4	
45	Interaction of a soliton wave with nanopores in stoichiometry crystals A3B. <i>Journal of Physics:</i> Conference Series, <b>2020</b> , 1697, 012076	0.3	
44	Excitations of periodic kink breathers and dark/bright breathers in a microtubulin protofilament lattices. <i>Nonlinear Dynamics</i> , <b>2021</b> , 106, 3495	5	1
43	Quantum Bound States and Matter Waves Delocalizations. <b>2004</b> , 237-250		
42	Energy Localization and First Order Phase Transition in Solids and Molecules. 2004, 413-426		
41	Evidence of energy diffusion in pure anharmonic disordered chains. <b>1991</b> , 203-208		
40	Dynamics in Manipulation and Actuation of Nano-Particles. <i>Understanding Complex Systems</i> , <b>2009</b> , 287-	2954	
39	Mobile Dissipative Breathers in a Chain of Nonlinear Oscillators. <b>2020</b> , 46, 1068		
38	Energy spreading, equipartition and chaos in lattices with non-central forces. <i>Chinese Physics B</i> ,	1.2	
37	Review of exploiting nonlinearity in phononic materials to enable nonlinear wave responses. <i>Acta Mechanica</i> , 1	2.1	2
36	Scattering of small-amplitude phonons on discrete breathers in Fermi-Pasta-Ulam-Tsingou chain. <i>Computational Continuum Mechanics</i> , <b>2021</b> , 14, 444-453	0.5	
35	Driven Intrinsic Localized Modes in Soft Nonlinear Microscopic and Macroscopic Lattices. <i>Springer Proceedings in Complexity</i> , <b>2021</b> , 783-796	0.3	

34	Dynamics of circular oscillator arrays subjected to noise. <i>Nonlinear Dynamics</i> , <b>2022</b> , 108, 1	5	O
33	Multi-breather solutions to the SasaâBatsuma equation. <i>Proceedings of the Royal Society A:</i> Mathematical, Physical and Engineering Sciences, <b>2022</b> , 478,	2.4	Ο
32	Heat transport in nonlinear lattices free from the umklapp process Physical Review E, 2022, 105, 0241	40.4	O
31	Experimental investigation of supertransmission for an intrinsic localized mode in a cyclic nonlinear transmission line <i>Chaos</i> , <b>2022</b> , 32, 033118	3.3	O
30	Two-exciton bound state quantum self-trapping in an extended star graph <i>Journal of Chemical Physics</i> , <b>2022</b> , 156, 155101	3.9	
29	Moving discrete breathers in a 軒PU lattice revisited. <i>Communications in Nonlinear Science and Numerical Simulation</i> , <b>2022</b> , 111, 106435	3.7	
28	Dark discrete breather modes in a monoaxial chiral helimagnet with easy-plane anisotropy. <i>Physical Review B</i> , <b>2021</b> , 104,	3.3	О
27	NONLINEAR STABILITY OF BREATHER SOLUTIONS TO THE MODIFIED KDV-SINE-GORDON EQUATION. <i>Journal of Applied Analysis and Computation</i> , <b>2020</b> , 0-0	0.4	
26	Soft flexural waves and self-localization of wrinkling modes of single- and few-layer graphene under compression in a compliant matrix. <i>Physical Review B</i> , <b>2022</b> , 105,	3.3	1
25	Discrete breathers incited by the intra-dimers parameter in microtubulin protofilament array. <i>European Physical Journal Plus</i> , <b>2022</b> , 137, 1	3.1	O
24	Quantum self-trapping on a star graph Physical Review E, 2022, 105, 044304	2.4	
23	Unusual slow energy relaxation induced by mobile discrete breathers in one-dimensional lattices with next-nearest-neighbor coupling. <i>Communications in Theoretical Physics</i> ,	2.4	
22	Noise influenced response movement in coupled oscillator arrays with multi-stability. <i>Journal of Sound and Vibration</i> , <b>2022</b> , 531, 116951	3.9	O
21	Chaotic discrete breathers and their effect on macroscopic properties of triangular lattice. <i>Communications in Nonlinear Science and Numerical Simulation</i> , <b>2022</b> , 112, 106541	3.7	O
20	Continuous limit and location-manageable discrete loop rogue wave solutions for the semi-discrete complex short pulse equation. <i>Results in Physics</i> , <b>2022</b> , 105680	3.7	
19	Nonlinear modal coupling in a T-shaped piezoelectric resonator induced by stiffness hardening effect. <i>Applied Mathematics and Mechanics (English Edition)</i> , <b>2022</b> , 43, 777-792	3.2	O
18	Effect of the stiffness of interparticle bonds on properties of delocalized nonlinear vibrational modes in an fcc lattice. <i>Physical Review E</i> , <b>2022</b> , 105,	2.4	О
17	Asymmetric Localization of Light by Second-Harmonic Generation. <i>Physical Review Applied</i> , <b>2022</b> , 18,	4.3	

16	Modulational Instability and Discrete Localized Modes in Two Coupled Atomic Chains with Next-Nearest-Neighbor Interactions. <i>Journal of Nonlinear Mathematical Physics</i> ,	0.9
15	Ginzburgâllandau models of nonlinear electric transmission networks. <b>2022</b> , 982, 1-124	1
14	Delocalized nonlinear vibrational modes in Fermi-Pasta-Ulam triangular lattice with an on-site potential. <b>2022</b> ,	O
13	Splitting Methods for Semi-Classical Hamiltonian Dynamics of Charge Transfer in Nonlinear Lattices. <b>2022</b> , 10, 3460	O
12	Photoinduced Ultrafast Transition of the Local Correlated Structure in Chalcogenide Phase-Change Materials. <b>2022</b> , 129,	О
11	Modal Analysis for Localization of Harmonic Oscillations in Nonlinear Oscillator Arrays. <b>2022</b> , 17,	O
10	Rogue wave patterns to the artificial synchronization of three uncoupled Ablowitzâlladik systems in the framework of Babalicâllistea auxiliary Lax representation. <b>2022</b> , 137,	О
9	Stochastic localization and non-Boltzmann distribution. <b>2023</b> , 611, 128423	O
8	11121111111111111111111111111111111111	O
7	Variation of the Specific Heat in the Fermiâ <b>P</b> astaâ <b>U</b> lam Chain due to Energy Localization. <b>2022</b> , 64, 446-	<b>454</b> o
6	Continuously broken ergodicity and reversible photo-darkening in As-Ch glass. 2023, 605, 122165	O
5	How close are integrable and nonintegrable models: A parametric case study based on the Salerno model. <b>2023</b> , 107,	O
4	One-component delocalized nonlinear vibrational modes of square lattices. <b>2023</b> , 111, 8135-8153	О
3	Theory of the anticontinuous limit for spin Hamiltonians. Search for discrete breather modes. <b>2023</b> , 214, 250-264	O
2	Propagating intrinsic localized mode in a cyclic, dissipative, self-dual one-dimensional nonlinear transmission line. <b>2023</b> , 107,	O
1	Discrete breathers in square lattices from delocalized nonlinear vibrational modes. <b>2023</b> , 107,	O