

# Manuel G Velarde

## List of Publications by Year in descending order

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384  
papers

9,551  
citations

36303

51  
h-index

69250

77  
g-index

397  
all docs

397  
docs citations

397  
times ranked

3921  
citing authors

#	ARTICLE	IF	CITATIONS
1	Single and multi-vertices solitons in lattices of active Morse - van der Pol units. Communications in Nonlinear Science and Numerical Simulation, 2022, 114, 106678.	3.3	0
2	Evaporation of Sessile Droplets of Polyelectrolyte/Surfactant Mixtures on Silicon Wafers. Colloids and Interfaces, 2021, 5, 12.	2.1	9
3	Control of electron and electron-hole pair dynamics on nonlinear lattice bilayers by strong solitons. Chaos, 2021, 31, 083123.	2.5	2
4	Intrinsic electronic noise strength significantly alters a period doubling cascade to chaos. Chaos, 2021, 31, 113102.	2.5	2
5	About electron transfer over long distances with tunable sub/supersonic velocities. Journal of Chemical Physics, 2020, 153, 044117.	3.0	5
6	In honor to Ramón G. Rubio on the occasion of his 65th birthday. Advances in Colloid and Interface Science, 2020, 282, 102202.	14.7	0
7	Nonlinear excitations and bound states of electrons, holes and solitons in bilayers of triangular lattices. European Physical Journal B, 2019, 92, 1.	1.5	3
8	Discrete-breather-assisted charge transport along DNA-like molecular wires. Physical Review E, 2019, 100, 052203.	2.1	16
9	Drops and Bubbles as Controlled Traveling Reactors and/or Carriers Including Microfluidics Aspects. Springer Proceedings in Physics, 2019, , 255-276.	0.2	0
10	Excitation of solitons in hexagonal lattices and ways of controlling electron transport. International Journal of Dynamics and Control, 2018, 6, 1376-1383.	2.5	7
11	On the autonomous motion of active drops or bubbles. Journal of Colloid and Interface Science, 2018, 527, 180-186.	9.4	14
12	Thermo- and soluto-capillarity: Passive and active drops. Advances in Colloid and Interface Science, 2017, 247, 52-80.	14.7	28
13	Highly Enhanced Transport by Supersonic $\langle v \rangle$ in Crowded Lattices. Physica Status Solidi - Rapid Research Letters, 2017, 11, 1700298.	2.4	21
14	Long-Range Electron Transport Donor-Acceptor in Nonlinear Lattices. Entropy, 2016, 18, 92.	2.2	5
15	On the possibility that local mechanical forcing permits directionally-controlled long-range electron transfer along DNA-like molecular wires with no need of an external electric field. European Physical Journal B, 2016, 89, 1.	1.5	19
16	Soliton assisted control of source to drain electron transport along natural channels in crystallographic axes in two-dimensional triangular crystal lattices. European Physical Journal B, 2016, 89, 1.	1.5	11
17	Discrete breathers in crystals. Physics-Uspekhi, 2016, 59, 446-461.	2.2	117
18	Nonlinear dynamics and the nano-mechanical control of electrons in crystalline solids. European Physical Journal: Special Topics, 2016, 225, 921-941.	2.6	7

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19	From solitons to discrete breathers. <i>European Physical Journal B</i> , 2016, 89, 1.	1.5	15
20	Collisions of quasi-one-dimensional solitons in triangular Morse lattice. <i>Letters on Materials</i> , 2016, 6, 82-85.	0.7	4
21	Wave motions along lattices with nonlinear on-site and inter-site potentials. Cooperation and/or competition leading to lattice solitons and/or discrete breathers. <i>Proceedings of the Estonian Academy of Sciences</i> , 2015, 64, 396.	1.5	3
22	Mobile localized solutions for an electron in lattices with dispersive and non-dispersive phonons. <i>Physica D: Nonlinear Phenomena</i> , 2015, 306, 82-93.	2.8	9
23	Discrete breathers in 2D and 3D crystals. <i>Physica Status Solidi (B): Basic Research</i> , 2015, 252, 1682-1686.	1.5	25
24	On the temperature dependence of fast electron transport in crystal lattices. <i>European Physical Journal B</i> , 2015, 88, 1.	1.5	12
25	Bound States of Electrons in Harmonic and Anharmonic Crystal Lattices. <i>Springer Series in Materials Science</i> , 2015, , 291-319.	0.6	1
26	Interaction dynamics in small networks of nonlinear elements. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2015, 20, 807-818.	3.3	1
27	Electron Transfer and Tunneling from Donor to Acceptor in Anharmonic Crystal Lattices. <i>Springer Series in Materials Science</i> , 2015, , 267-289.	0.6	1
28	Solitons and Charge Transport in Triangular and Quadratic Crystal Lattices. <i>Springer Series in Materials Science</i> , 2015, , 321-339.	0.6	1
29	Head-on and head-off collisions of discrete breathers in two-dimensional anharmonic crystal lattices. <i>European Physical Journal B</i> , 2014, 87, 1.	1.5	18
30	High electrical conductivity in nonlinear model lattice crystals mediated by thermal excitation of solitons. <i>European Physical Journal B</i> , 2014, 87, 1.	1.5	14
31	On the electron transport in polydiacetylene crystals and derivatives. <i>Europhysics Letters</i> , 2014, 106, 27004.	2.0	21
32	Simultaneous spreading and evaporation: Recent developments. <i>Advances in Colloid and Interface Science</i> , 2014, 206, 382-398.	14.7	90
33	A Prototype 2N-Legged (insect-like) Robot. A Non-Linear Dynamical System Approach. <i>Cognitive Systems Monographs</i> , 2014, , 123-149.	0.1	3
34	Compact Internal Representation of Dynamic Environments: Simple Memory Structures for Complex Situations. <i>Cognitive Systems Monographs</i> , 2014, , 83-100.	0.1	0
35	Two-Dimensional Anharmonic Crystal Lattices: Solitons, Solitons, and Electric Conduction. <i>Springer Proceedings in Physics</i> , 2014, , 3-13.	0.2	0
36	Evaporation of Droplets of Surfactant Solutions. <i>Langmuir</i> , 2013, 29, 10028-10036.	3.5	87

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37	THERMAL SOLITONS IN 1D AND 2D ANHARMONIC LATTICES – SOLECTRONS AND THE ORGANIZATION OF NON-LINEAR FLUCTUATIONS IN LONG-LIVING DYNAMICAL STRUCTURES. , 2013, , 458-465.		0
38	Electron Transport Mediated by Nonlinear Excitations in Atomic Layers. Contributions To Plasma Physics, 2013, 53, 355-359.	1.1	2
39	Nonlinear soliton-like excitations in two-dimensional lattices and charge transport. European Physical Journal: Special Topics, 2013, 222, 2531-2546.	2.6	14
40	Evaporation of Sessile Droplets of Liquid on Solid Substrates. Understanding Complex Systems, 2013, , 285-300.	0.6	1
41	High Conductivity Mediated by Thermal Excitation of Solectrons. Contributions To Plasma Physics, 2013, 53, 736-743.	1.1	8
42	Towards a Theory of Degenerated Solectrons in Doped Lattices: Problems and Perspectives. Understanding Complex Systems, 2013, , 443-466.	0.6	3
43	Soliton-Mediated Electron Transfer and Electric Transport Arising from Coupling Electron Quantum Mechanics to Nonlinear Elasticity in Anharmonic Crystal Lattices. , 2013, , 47-62.		0
44	Electron pairing and Coulomb repulsion in one-dimensional anharmonic lattices. Physical Review B, 2012, 85, .	3.2	26
45	Evaporation of Sessile Water Droplets in Presence of Contact Angle Hysteresis. Mathematical Modelling of Natural Phenomena, 2012, 7, 82-98.	2.4	4
46	Flow and Heat Transfer: Formulation. Applied Mathematical Sciences (Switzerland), 2012, , 21-38.	0.8	0
47	Nonisothermal Case: Two- and Three-Dimensional Flow. Applied Mathematical Sciences (Switzerland), 2012, , 309-350.	0.8	0
48	Primary Instability. Applied Mathematical Sciences (Switzerland), 2012, , 39-64.	0.8	0
49	Controlling fast electron transfer at the nano-scale by solitonic excitations along crystallographic axes. European Physical Journal B, 2012, 85, 1.	1.5	25
50	Soliton-mediated compression density waves and charge density in 2d layers of underdoped cuprate-like lattices. Comptes Rendus - Mecanique, 2012, 340, 910-916.	2.1	5
51	Computer Simulations of Evaporation of Pinned Sessile Droplets: Influence of Kinetic Effects. Langmuir, 2012, 28, 15203-15211.	3.5	52
52	Electron pairing in one-dimensional anharmonic crystal lattices. International Journal of Quantum Chemistry, 2012, 112, 551-565.	2.0	13
53	Quartic lattice interactions, soliton-like excitations, and electron pairing in one-dimensional anharmonic crystals. International Journal of Quantum Chemistry, 2012, 112, 2591-2598.	2.0	10
54	Evaporation of Pinned Sessile Microdroplets of Water: Computer Simulations. , 2012, , 79-84.		1

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55	Spreading and Evaporation of Surfactant Solution Droplets. , 2012, , 1-6.		2
56	Methodologies for Low-Reynolds Number Flows. Applied Mathematical Sciences (Switzerland), 2012, , 95-144.	0.8	0
57	Open Questions and Suggestions for Further Research. Applied Mathematical Sciences (Switzerland), 2012, , 351-355.	0.8	0
58	Computer Simulations of Quasi-Steady Evaporation of Sessile Liquid Droplets. , 2011, , 115-120.		1
59	Compact internal representation as a protocognitive scheme for robots in dynamic environments. , 2011, , .		2
60	Properties of nano-scale soliton-like excitations in two-dimensional lattice layers. Physica D: Nonlinear Phenomena, 2011, 240, 1954-1959.	2.8	34
61	Localized nonlinear, soliton-like waves in two-dimensional anharmonic lattices. Wave Motion, 2011, 48, 753-760.	2.0	22
62	Evaporation of sessile water droplets: Universal behaviour in presence of contact angle hysteresis. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2011, 391, 135-144.	4.7	75
63	Soliton-like excitations and solectrons in two-dimensional nonlinear lattices. European Physical Journal B, 2011, 80, 137-145.	1.5	40
64	On the possibility of electric transport mediated by long living intrinsic localized solectron modes. European Physical Journal B, 2011, 80, 545-554.	1.5	38
65	A few preliminary remarks, quotations and some references. European Physical Journal: Special Topics, 2011, 197, 3-9.	2.6	3
66	Droplets evaporation: Problems and solutions. European Physical Journal: Special Topics, 2011, 197, 265-278.	2.6	52
67	Hopping Transport and Stochastic Dynamics of Electrons in Plasma Layers. Contributions To Plasma Physics, 2011, 51, 814-829.	1.1	14
68	NUMERICAL EVIDENCE OF SOLITON-MEDIATED ELECTRON PAIRING IN HEATED ANHARMONIC CRYSTAL LATTICES. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2011, 21, 1595-1600.	1.7	15
69	Thermodynamics of the rupture in a Morse lattice. European Physical Journal B, 2010, 75, 443-450.	1.5	0
70	Compact internal representation of dynamic situations: neural network implementing the causality principle. Biological Cybernetics, 2010, 103, 285-297.	1.3	23
71	Instantaneous distribution of fluxes in the course of evaporation of sessile liquid droplets: Computer simulations. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2010, 372, 127-134.	4.7	61
72	From polaron to solectron: The addition of nonlinear elasticity to quantum mechanics and its possible effect upon electric transport. Journal of Computational and Applied Mathematics, 2010, 233, 1432-1445.	2.0	66

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73	Thermal solitons and solectrons in nonlinear conducting chains. International Journal of Quantum Chemistry, 2010, 110, 46-61.	2.0	12
74	ON THE MATHEMATICAL MODELING OF SOLITON-MEDIATED LONG-RANGE ELECTRON TRANSFER. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2010, 20, 185-194.	1.7	14
75	ANHARMONICITY AND SOLITON-MEDIATED ELECTRIC TRANSPORT: IS A KIND OF SUPERCONDUCTION POSSIBLE AT ROOM TEMPERATURE?. World Scientific Series on Nonlinear Science, Series B, 2010, , 8-13.	0.2	1
76	Stability analysis of thin film flow along a heated porous wall. Physics of Fluids, 2009, 21, .	4.0	77
77	Surface forces and wetting phenomena. Journal of Physics Condensed Matter, 2009, 21, 464121.	1.8	88
78	The winnerless competition paradigm in cellular nonlinear networks: Models and applications. International Journal of Circuit Theory and Applications, 2009, 37, 505-528.	2.0	19
79	Electron Dynamics in Tightâ€Binding Approximation â€the Influence of Thermal Anharmonic Lattice Excitations. Contributions To Plasma Physics, 2009, 49, 529-535.	1.1	3
80	Stability switches, oscillatory multistability, and spatio-temporal patterns of nonlinear oscillations in recurrently delay coupled neural networks. Biological Cybernetics, 2009, 101, 147-167.	1.3	25
81	Local electron distributions and diffusion in anharmonic lattices mediated by thermally excited solitons. European Physical Journal B, 2009, 70, 217-227.	1.5	35
82	Mathematical Approach to Sensory Motor Control and Memory. Cognitive Systems Monographs, 2009, , 219-268.	0.1	1
83	Anharmonicity and Soliton-Mediated Transport: Thermal Solitons, Solectrons and Electric Transport in Nonlinear Conducting Lattices. NATO Science for Peace and Security Series A: Chemistry and Biology, 2009, , 171-198.	0.5	3
84	Inertial oscillations as deep ocean response to hurricanes. Journal of Oceanography, 2008, 64, 495-509.	1.7	32
85	Elements for a general memory structure: properties of recurrent neural networks used to form situation models. Biological Cybernetics, 2008, 98, 371-395.	1.3	27
86	THERMAL SOLITONS AND SOLECTRONS IN 1D ANHARMONIC LATTICES UP TO PHYSIOLOGICAL TEMPERATURES. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2008, 18, 3815-3823.	1.7	30
87	Compounds of paired electrons and lattice solitons moving with supersonic velocity. Physical Review E, 2008, 78, 066606.	2.1	26
88	SOLITON-MEDIATED ELECTRON PAIRING. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2008, 18, 885-890.	1.7	21
89	ELECTRON TRAPPING BY SOLITONS: CLASSICAL VERSUS QUANTUM MECHANICAL APPROACH. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2008, 18, 521-526.	1.7	20
90	Convective instability of an Ohmic liquid layer in an unsteady thermal field. Physics of Fluids, 2008, 20, .	4.0	3

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91	The Two-component BÄ©nard Problem. <i>Advances in Chemical Physics</i> , 2007, , 265-301.	0.3	55
92	The WLC principle for action-oriented perception. , 2007, , .		4
93	Sensory-motor neural loop discovering statistical dependences among imperfect sensory perception and motor response. , 2007, , .		1
94	Polymer monolayers with a small viscoelastic linear regime: Equilibrium and rheology of poly(octadecyl acrylate) and poly(vinyl stearate). <i>Journal of Chemical Physics</i> , 2007, 126, 124904.	3.0	62
95	Electron capture and transport mediated by lattice solitons. <i>Physical Review E</i> , 2007, 76, 046602.	2.1	40
96	Anharmonic Excitations, Time Correlations and Electric Conductivity. <i>Contributions To Plasma Physics</i> , 2007, 47, 465-478.	1.1	20
97	Surface rheology, equilibrium and dynamic features at interfaces, with emphasis on efficient tools for probing polymer dynamics at interfaces. <i>Advances in Colloid and Interface Science</i> , 2007, 134-135, 175-189.	14.7	62
98	Dissipative solitons, wave asymmetry and dynamical ratchets. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2007, 377, 435-447.	2.6	7
99	Honorary note. <i>Advances in Colloid and Interface Science</i> , 2007, 134-135, 1-2.	14.7	1
100	Spatio-temporal patterns in CNNs for classification: the winnerless competition principle. , 2006, , .		2
101	Spreading of liquid drops from a liquid source. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2006, 282-283, 247-255.	4.7	7
102	Nonlinear excitations and electric transport in dissipative Morse-Toda lattices. <i>European Physical Journal B</i> , 2006, 51, 87-99.	1.5	36
103	Spreading dynamics: a succinct account of some basic questions. <i>Microgravity Science and Technology</i> , 2006, 18, 21-24.	1.4	1
104	Suppressing falling film instabilities by Marangoni forces. <i>Physics of Fluids</i> , 2006, 18, 042111.	4.0	29
105	Anharmonicity and its significance to non-Ohmic electric conduction. <i>Physical Review E</i> , 2006, 73, 066626.	2.1	19
106	Effect of anharmonicity on charge transport in hydrogen-bonded systems. <i>Physical Review B</i> , 2006, 73, .	3.2	55
107	ON SOLITON-MEDIATED FAST ELECTRIC CONDUCTION IN A NONLINEAR LATTICE WITH MORSE INTERACTIONS. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2006, 16, 1035-1039.	1.7	31
108	DISSIPATIVE SOLITONS AND COMPLEX CURRENTS IN ACTIVE LATTICES. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2006, 16, 1613-1632.	1.7	39

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109	PATTERNS AND DISSIPATIVE WAVES, INCLUDING SOLITONS, IN LATTICES AND AT INTERFACES. , 2006, , 343-354.		1
110	BÄ©nard Layers, Overstability, and Waves. Springer Tracts in Modern Physics, 2006, , 129-145.	0.1	2
111	Thermodynamics and phase transitions in dissipative and active Morse chains. European Physical Journal B, 2005, 44, 509-519.	1.5	26
112	Nonlinear Ionic Excitations, Dynamic Bound States, and Nonlinear Currents in a One-dimensional Plasma. Contributions To Plasma Physics, 2005, 45, 275-283.	1.1	12
113	Asymptotic Study of Rayleighâ€BÄ©nard Convection under Time Periodic Heating in Heleâ€Shaw Cell. Physica Scripta, 2005, 71, 395-401.	2.5	10
114	A Form of Active Brownian motor-like on a (nonlinear) Toda lattice. AIP Conference Proceedings, 2005, , ,	0.4	0
115	Thermocapillary long waves in a liquid film flow. Part 1. Low-dimensional formulation. Journal of Fluid Mechanics, 2005, 538, 199.	3.4	100
116	Thermocapillary long waves in a liquid film flow. Part 2. Linear stability and nonlinear waves. Journal of Fluid Mechanics, 2005, 538, 223.	3.4	89
117	ON THE POSSIBILITY OF ELECTRIC CONDUCTION MEDIATED BY DISSIPATIVE SOLITONS. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2005, 15, 245-251.	1.7	53
118	On the Various Wave Motions Observed at a Liquid Interface Due to Marangoni Stresses and Instability. Industrial & Engineering Chemistry Research, 2005, 44, 1396-1412.	3.7	21
119	On the back-firing instability. Chaos, 2004, 14, 777-783.	2.5	16
120	Falling films and the Marangoni effect. Physical Review E, 2004, 69, 056310.	2.1	21
121	Ilya Prigogine and the classical thermodynamics of irreversible processes. Journal of Non-Equilibrium Thermodynamics, 2004, 29, 1-8.	4.2	3
122	Solitons as dissipative structures. International Journal of Quantum Chemistry, 2004, 98, 272-280.	2.0	10
123	Clustering behavior in a three-layer system mimicking olivo-cerebellar dynamics. Neural Networks, 2004, 17, 191-203.	5.9	10
124	Capillary imbibition of surfactant solutions in porous media and thin capillaries: partial wetting case. Journal of Colloid and Interface Science, 2004, 273, 589-595.	9.4	35
125	Analogies between colored LÄ©vy noise and random channel approach to disordered kinetics. Journal of Mathematical Physics, 2004, 45, 736-760.	1.1	3
126	Bifurcation analysis and existence of periodic solutions in a simple neural network with delays. Chaos, 2004, 14, 940-953.	2.5	52



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127	On the Accuracy of Measuring Small Contact Angles by the Sessile Drop Method. Colloid Journal, 2003, 65, 611-614.	1.3	10
128	Stability of a Falling Liquid Film with a Non-Equilibrium Adsorbed Sublayer of Soluble Surfactant. Fluid Dynamics, 2003, 38, 679-691.	0.9	1
129	The straits of Gibraltar and Kara Gates: a comparison of internal tides. Oceanologica Acta: European Journal of Oceanology - Revue Europeene De Oceanologie, 2003, 26, 231-241.	0.7	39
130	Momentum transport at a fluid-porous interface. International Journal of Heat and Mass Transfer, 2003, 46, 4071-4081.	4.8	255
131	Spreading of non-Newtonian liquids over solid substrates. Journal of Colloid and Interface Science, 2003, 257, 284-290.	9.4	60
132	Spreading of aqueous SDS solutions over nitrocellulose membranes. Journal of Colloid and Interface Science, 2003, 264, 481-489.	9.4	20
133	Spreading of liquid drops over porous substrates. Advances in Colloid and Interface Science, 2003, 104, 123-158.	14.7	109
134	Thermocapillary instability and wave formation on a film falling down a uniformly heated plane. Journal of Fluid Mechanics, 2003, 492, 303-338.	3.4	124
135	Two-dimensional solitons in Bose-Einstein condensates with a disk-shaped trap. Physical Review A, 2003, 67, .	2.5	107
136	Mode transitions and wave propagation in a driven-dissipative Toda-Rayleigh ring. Physical Review E, 2003, 67, 056208.	2.1	17
137	Experimental study of a noisy dissipative-driven ring lattice with Morse interactions. , 2003, , .		0
138	Internal Tides in the Strait of Gibraltar. Journal of Physical Oceanography, 2002, 32, 3193-3206.	1.7	61
139	Solitary Waves, Bound Soliton States and Chaotic Soliton Trains in a Dissipative Boussinesq-Korteweg-de Vries Equation. Springer Series in Synergetics, 2002, , 19-48.	0.4	0
140	Spreading of Liquid Drops over Thick Porous Layers: Complete Wetting Case. Langmuir, 2002, 18, 9744-9750.	3.5	42
141	Capillary-gravity simltons in a liquid layer. Journal of Fluid Mechanics, 2002, 466, 1-15.	3.4	0
142	Experimental behavior of a dissipative Toda-Rayleigh ring. AIP Conference Proceedings, 2002, , .	0.4	0
143	Spreading of Liquid Drops over Saturated Porous Layers. Journal of Colloid and Interface Science, 2002, 246, 372-379.	9.4	82
144	Spreading of Liquid Drops over Dry Porous Layers: Complete Wetting Case. Journal of Colloid and Interface Science, 2002, 252, 397-408.	9.4	134

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145	On the importance of nucleation solutions for the rupture of thin liquid films. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2002, 206, 135-155.	4.7	48
146	Sliding drops on an inclined plane. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2002, 206, 87-104.	4.7	63
147	Strain kinks in an elastic rod embedded in a viscoelastic medium. <i>Wave Motion</i> , 2002, 35, 189-204.	2.0	19
148	Electric field effects on the stability of a thermogravitational flow in a vertical capacitor. <i>Journal of Electrostatics</i> , 2002, 56, 493-513.	1.9	1
149	Modeling inferior olive neuron dynamics. <i>Neural Networks</i> , 2002, 15, 5-10.	5.9	30
150	Synergetic Phenomena in Active Lattices. <i>Springer Series in Synergetics</i> , 2002, , .	0.4	68
151	Dissipative Effects on the Evolution of Internal Solitary Waves in a Sheared, Stably Stratified Fluid Layer. , 2002, , 203-222.		1
152	Mutual Synchronization, Control and Replication of Patterns and Waves in Coupled Lattices Composed of Bistable Units. <i>Springer Series in Synergetics</i> , 2002, , 227-278.	0.4	0
153	Benard Layers with Heat or Mass Transfer. <i>CISM International Centre for Mechanical Sciences, Courses and Lectures</i> , 2002, , 89-121.	0.6	0
154	Introduction: Synergetics and Models of Continuous and Discrete Active Media. Steady States and Basic Motions (Waves, Dissipative Solitons, etc.). <i>Springer Series in Synergetics</i> , 2002, , 1-18.	0.4	0
155	Patterns, Spatial Disorder and Waves in a Dynamical Lattice of Bistable Units. <i>Springer Series in Synergetics</i> , 2002, , 165-226.	0.4	0
156	Spatiotemporal intermittency in the critical dynamics of dc-driven two-dimensional frustrated Josephson arrays. <i>Physical Review B</i> , 2001, 64, .	3.2	0
157	EXPERIMENTAL EVIDENCE ON THE STRUCTURE AND EVOLUTION OF THE PENTA-HEPTA DEFECT IN HEXAGONAL LATTICES DUE TO MARANGONI CONVECTION. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2001, 11, 1261-1273.	1.7	4
158	Onset of oscillatory interfacial instability and wave motions in Benard layers. <i>Advances in Applied Mechanics</i> , 2001, 37, 167-238.	2.3	45
159	Dark solitons and their head-on collisions in Bose-Einstein condensates. <i>Physical Review A</i> , 2001, 64, .	2.5	129
160	The nonlinear Schrödinger method for water wave kinematics on finite depth. <i>Wave Motion</i> , 2001, 33, 379-395.	2.0	10
161	Synchronization in two-layer bistable coupled map lattices. <i>Physica D: Nonlinear Phenomena</i> , 2001, 151, 1-26.	2.8	11
162	On second harmonic generation and the onset of simultaneous capillary-gravity solitary waves (simultons or quadratic solitons). <i>Comptes Rendus Mecanique</i> , 2001, 329, 13-18.	0.2	1

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163	On the Spreading of Partially Miscible Liquids. Journal of Colloid and Interface Science, 2001, 234, 375-383.	9.4	18
164	On the Interfacial Deformation of a Magnetic Liquid Drop under the Simultaneous Action of Electric and Magnetic Fields. Journal of Colloid and Interface Science, 2001, 235, 46-58.	9.4	12
165	Interfacial Wave Motions Due to Marangoni Instability. Journal of Colloid and Interface Science, 2001, 236, 214-224.	9.4	21
166	Faraday Ripples, Parametric Resonance, and the Marangoni Effect. Journal of Colloid and Interface Science, 2001, 238, 16-23.	9.4	19
167	Dynamic Contact Angles of Water in Ultrathin Capillaries. Colloid Journal, 2001, 63, 119-123.	1.3	7
168	On the parametric excitation of electrothermal instability in a dielectric liquid layer using an alternating electric field. Journal of Electrostatics, 2001, 50, 205-226.	1.9	28
169	Rheological behaviour of solutions of poly(2-hydroxyethyl methacrylamide) in glycerine. Polymer, 2001, 42, 7395-7401.	3.8	9
170	On the Role of Porosity in the Stokes Flow Around a Solid Particle. Journal of Non-Equilibrium Thermodynamics, 2001, 25, .	4.2	0
171	Chaos and Hyperchaos in a Model of the Belousov-Zhabotinsky Reaction in a Batch Reactor. Journal of Non-Equilibrium Thermodynamics, 2001, 25, .	4.2	1
172	Oscillatory Instability and High-Frequency Wave Modes in a Marangoni-Bénard Layer with Deformable Free Surface. Journal of Non-Equilibrium Thermodynamics, 2001, 25, .	4.2	0
173	PHASE RESETTING, CLUSTERS, AND WAVES IN A LATTICE OF COUPLED OSCILLATORY UNITS. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2001, 11, 109-122.	1.7	1
174	Dissipative Toda-Rayleigh lattice and its oscillatory modes. Physical Review E, 2001, 64, 036601.	2.1	32
175	Properties of surface wave trains excited by mass transfer through a liquid surface. Physical Review E, 2001, 64, 022601.	2.1	8
176	Spiking Behavior in a Noise-Driven System Combining Oscillatory and Excitatory Properties. Physical Review Letters, 2001, 86, 3431-3434.	7.8	94
177	Sliding drops in the diffuse interface model coupled to hydrodynamics. Physical Review E, 2001, 64, 061601.	2.1	62
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179	Dewetting: Film Rupture by Nucleation in the Spinodal Regime. Physical Review Letters, 2001, 87, 016104.	7.8	180
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