Sergey Savel'ev

List of Publications by Year
in descending order

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161	6,458	109137	66788
papers	citations	35 h-index	78 g-index

163	163	163	5457
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	An investigation of higher order moments of empirical financial data and their implications to risk. Heliyon, 2022, 8, e08833.	1.4	1
2	Spatially distributed computation in cortical circuits. Science Advances, 2022, 8, eabl5865.	4.7	3
3	Nonstationary Generalised Autoregressive Conditional Heteroskedasticity Modelling for Fitting Higher Order Moments of Financial Series within Moving Time Windows. Journal of Probability and Statistics, 2022, 2022, 1-19.	0.3	1
4	Intermittent and metastable chaos in a memristive artificial neuron with inertia. Chaos, Solitons and Fractals, 2021, 142, 110383.	2.5	8
5	Transition from noise-induced to self-sustained current spiking generated by a NbOx thin film threshold switch. Applied Physics Letters, 2021, 118, .	1.5	6
6	Towards the Heisenberg limit in microwave photon detection by a qubit array. Physical Review B, 2021, 103, .	1.1	5
7	Deterministic modeling of the diffusive memristor. Chaos, 2021, 31, 073111.	1.0	8
8	Magnetic flux quantum periodicity of the frequency of the on-chip detectable electromagnetic radiation from superconducting flux-flow-oscillators. Applied Physics Letters, 2020, 117, 142601.	1.5	4
9	Manipulating the anisotropy of the Dirac-Cone in graphene by laser fields. European Physical Journal B, 2019, 92, 1.	0.6	1
10	Vortex ratchets based on asymmetric arrays of Josephson junctions. Journal of Statistical Mechanics: Theory and Experiment, 2019, 2019, 114001.	0.9	1
11	Mechanisms of Spatiotemporal Selectivity in Cortical Area MT. Neuron, 2019, 101, 514-527.e2.	3.8	13
12	Quasi-superradiant soliton state of matter in quantum metamaterials. European Physical Journal B, 2018, 91, 1.	0.6	5
13	Dirac-Weyl pointsâ€™ manipulation using linear polarised laser field in Floquet crystals for various Graphene superlattices. Journal of Physics: Conference Series, 2018, 961, 012012.	0.3	3
14	Josephson vortex loops in nanostructured Josephson junctions. Scientific Reports, 2018, 8, 2733.	1.6	10
15	Renningerâ€™s Gedankenexperiment, the collapse of the wave function in a rigid quantum metamaterial and the reality of the quantum state vector. Scientific Reports, 2018, 8, 9608.	1.6	1
16	Anatomy of Ag/Hafniaâ€Based Selectors with 10¹⁰ Nonlinearity. Advanced Materials, 2017, 29, 1604457.	11.1	292
17	A novel true random number generator based on a stochastic diffusive memristor. Nature Communications, 2017, 8, 882.	5.8	287
18	Magnetic field tunable vortex diode made of YBa2Cu3O7â^'Î´ Josephson junction asymmetrical arrays. Applied Physics Letters, 2017, 111, .	1.5	10

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19	Memristors with diffusive dynamics as synaptic emulators for neuromorphic computing. Nature Materials, 2017, 16, 101-108.	13.3	1,655
20	Tilted vortex lattice in irradiate Bi₂Sr₂CaCu₂O_{8+Î´}single crystals. Journal of Physics: Conference Series, 2016, 667, 012007.	0.3	0
21	Chemotaxis of artificial microswimmers in active density waves. Physical Review E, 2016, 94, 012613.	0.8	51
22	Quantized conductance coincides with state instability and excess noise in tantalum oxide memristors. Nature Communications, 2016, 7, 11142.	5.8	95
23	On the choice of GARCH parameters for efficient modelling of real stock price dynamics. Physica A: Statistical Mechanics and Its Applications, 2016, 448, 248-253.	1.2	3
24	Effects of lasing in a one-dimensional quantum metamaterial. Physical Review B, 2015, 91, .	1.1	15
25	Effect of ordered array of magnetic dots on the dynamics of Josephson vortices in stacked SNS Josephson junctions under DC and AC current. European Physical Journal B, 2015, 88, 1.	0.6	1
26	Recursive simulation of quantum annealing. Journal of Physics A: Mathematical and Theoretical, 2015, 48, 415301.	0.7	1
27	Rectification of Brownian Particles with Oscillating Radii in Asymmetric Corrugated Channels. Acta Physica Polonica A, 2015, 128, 159-163.	0.2	0
28	Anomalous cross-field diffusion in a magnetic trap. Physical Review E, 2014, 90, 062117.	0.8	2
29	Tunable refraction in a two-dimensional quantum-state metamaterial. Physical Review A, 2014, 90, .	1.0	2
30	Parametric amplification of vortex-antivortex pair generation in a Josephson junction. Physical Review B, 2014, 90, .	1.1	18
31	Synchronization of geometric stochastic resonance by a bi-harmonic drive. European Physical Journal B, 2014, 87, 1.	0.6	2
32	Dirac fermion time-Floquet crystal: Manipulating Dirac points. Physical Review B, 2014, 89, .	1.1	20
33	Stochastic GARCH dynamics describing correlations between stocks. Physica A: Statistical Mechanics and Its Applications, 2014, 410, 623-627.	1.2	5
34	Quantum metamaterial without local control. Physical Review B, 2013, 87, .	1.1	12
35	The influence of dissipation in a 1D quantum metamaterial. Superconductor Science and Technology, 2013, 26, 084005.	1.8	3
36	In-phase motion of Josephson vortices in stacked SNS Josephson junctions: effect of ordered pinning. Superconductor Science and Technology, 2013, 26, 125010.	1.8	6

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37	Josephson-like currents in graphene for arbitrary time-dependent potential barriers. European Physical Journal B, 2013, 86, 1.	0.6	6
38	Mesoscopic resistive switch: non-volatility, hysteresis and negative differential resistance. European Physical Journal B, 2013, 86, 1.	0.6	14
39	Modelling price dynamics: A hybrid truncated LÃ©vy Flightâ€“GARCH approach. Physica A: Statistical Mechanics and Its Applications, 2013, 392, 2072-2078.	1.2	16
40	Nonlinear effects in the Josephson-vortex terahertz photonic crystal: Frequency mixing. European Physical Journal B, 2013, 86, 1.	0.6	0
41	Synchronized dynamics of Josephson vortices in artificial stacks of SNS Josephson junctions under both dc and ac bias currents. Physical Review B, 2013, 87, .	1.1	10
42	Spatially resolved single photon detection with a quantum sensor array. Scientific Reports, 2013, 3, 3464.	1.6	11
43	Squeezing as the source of inefficiency in the quantum Otto cycle. Physical Review B, 2012, 86, .	1.1	28
44	Harmonic mixing in two coupled qubits: Quantum synchronization via ac drives. Physical Review A, 2012, 86, .	1.0	7
45	Feedback-controlled adiabatic quantum computation. Physical Review A, 2012, 86, .	1.0	12
46	Nonlinear effects in the Josephson-vortex terahertz photonic crystal: Second harmonic generation. Physical Review B, 2012, 85, .	1.1	5
47	Current Resonances in Graphene with Time-Dependent Potential Barriers. Physical Review Letters, 2012, 109, 226602.	2.9	31
48	Two-qubit parametric amplifier: Large amplification of weak signals. Physical Review A, 2012, 85, .	1.0	14
49	Relativistic Brownian motion on a graphene chip. European Physical Journal B, 2012, 85, 1.	0.6	28
50	Molecular dynamics simulations of oxide memristors: Crystal field effects. Applied Physics Letters, 2011, 99, 053108.	1.5	14
51	Current-controlled negative differential resistance due to Joule heating in TiO2. Applied Physics Letters, 2011, 99, .	1.5	78
52	Molecular dynamics simulations of oxide memory resistors (memristors). Nanotechnology, 2011, 22, 254011.	1.3	33
53	Massless Dirac fermions in a laser field as a counterpart of graphene superlattices. Physical Review B, 2011, 84, .	1.1	53
54	Luminescence patterns in photoexcited quantum wells: diffusion of the Coulomb plasma versus exciton superfluidity. Journal of Physics: Conference Series, 2011, 286, 012046.	0.3	0

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55	Molecular dynamics simulations of oxide memristors: thermalÂeffects. Applied Physics A: Materials Science and Processing, 2011, 102, 891-895.	1.1	13
56	Free superflow of excitons in a dark state and luminescence rings in quantum well structures. Europhysics Letters, 2011, 94, 17006.	0.7	0
57	Reply to â€œComment on â€˜Temperature dependence of the Casimir force for lossy bulk mediaâ€™â€‰â€. Physical Review A, 2011, 84, .	1.0	0
58	Temperature-resonant cyclotron spectra in confined geometries. Physical Review E, 2011, 84, 011107.	0.8	5
59	Ratcheting of driven attracting colloidal particles: Temporal density oscillations and current multiplicity. Physical Review E, 2011, 83, 061401.	0.8	19
60	Geometric stochastic resonance in a double cavity. Physical Review E, 2011, 84, 011109.	0.8	30
61	Hysteresis jumps of the surface reactance of a layered superconductor as the incident wave amplitude varies. Low Temperature Physics, 2010, 36, 92-99.	0.2	1
62	Noise-enhanced performance of adiabatic quantum computing by lifting degeneracies. Physical Review A, 2010, 82, .	1.0	5
63	Dimer currents on one dimensional asymmetric substrates. Chemical Physics, 2010, 375, 458-463.	0.9	2
64	Noise-spectroscopy of multiqubit systems: Determining all their parameters by applying an external classical noise. Chemical Physics, 2010, 375, 180-183.	0.9	6
65	Collective shuttling of attracting particles in asymmetric narrow channels. Physical Review E, 2010, 82, 030401.	0.8	20
66	Temperature dependence of the Casimir force for bulk lossy media. Physical Review A, 2010, 82, .	1.0	4
67	Ratcheting of neutral elastic dimers on a charged filament. Physical Review E, 2010, 81, 031114.	0.8	8
68	Asymmetric Long Josephson Junction Acting as a Ratchet for a Quantum Field. Physical Review Letters, 2010, 104, 190602.	2.9	9
69	Ring-shaped luminescence patterns in a locally photoexcited electron-hole bilayer. Physical Review B, 2010, 81, .	1.1	8
70	Terahertz Josephson plasma waves in layered superconductors: spectrum, generation, nonlinear and quantum phenomena. Reports on Progress in Physics, 2010, 73, 026501.	8.1	143
71	Asymmetry in shape causing absolute negative mobility. Physical Review E, 2010, 82, 041121.	0.8	51
72	Geometric Stochastic Resonance. Physical Review Letters, 2010, 104, 020601.	2.9	96

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73	Nanomechanical electron shuttle consisting of a gold nanoparticle embedded within the gap between two gold electrodes. Physical Review B, 2009, 79, .	1.1	37
74	Rectification currents in two-dimensional artificial channels. Physical Review E, 2009, 80, 011120.	0.8	93
75	Resonant electromagnetic emission from intrinsic Josephson-junction stacks in a magnetic field. Physical Review B, 2009, 79, .	1.1	19
76	Diffusion-controlled generation of a proton-motive force across a biomembrane. Physical Review E, 2009, 80, 011916.	0.8	9
77	Fabrication of shuttle-junctions for nanomechanical transfer of electrons. Nanotechnology, 2009, 20, 485202.	1.3	10
78	Tuning the current-voltage characteristics of Josephson junctions by strong microwave fields. Journal of Physics: Conference Series, 2009, 150, 052034.	0.3	0
79	Quantum metamaterials: Electromagnetic waves in Josephson qubit lines. Physica Status Solidi (B): Basic Research, 2009, 246, 955-960.	0.7	22
80	Noise-induced quantum coherence and persistent Rabi oscillations in a Josephson flux qubit. Physical Review B, 2009, 80, .	1.1	13
81	Electronic properties of armchair graphene nanoribbons. Physical Review B, 2009, 79, .	1.1	61
82	Dipole rectification in an oscillating electric field. Europhysics Letters, 2009, 88, 30003.	0.7	12
83	Synchronization in stacked array of the Josephson junctions in Bi2Sr2CaCu2O8+Î´. Physica C: Superconductivity and Its Applications, 2008, 468, 1896-1898.	0.6	6
84	Voltage-driven quantum oscillations in graphene. New Journal of Physics, 2008, 10, 053024.	1.2	35
85	Distinguishing quantum from classical oscillations in a driven phase qubit. New Journal of Physics, 2008, 10, 073026.	1.2	19
86	Electron-Beam Instability in Left-Handed Media. Physical Review Letters, 2008, 100, 244803.	2.9	25
87	Hysteretic jumps in the response of layered superconductors to electromagnetic fields. Physical Review B, 2008, 78, .	1.1	8
88	Anomalous Temperature Dependence of the Casimir Force for Thin Metal Films. Physical Review Letters, 2008, 101, 096803.	2.9	20
89	Controlling Josephson dynamics by strong microwave fields. Physical Review B, 2008, 78, .	1.1	3
90	Proton transport and torque generation in rotary biomotors. Physical Review E, 2008, 78, 031921.	0.8	9

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91	Shape Waves in 2D Josephson Junctions: Exact Solutions and Time Dilation. Physical Review Letters, 2008, 101, 127002.	2.9	22
92	Current Induced Decomposition of Abrikosov Vortices in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>p</mml:mi><mml:mtext mathvariant="normal">â^'</mml:mtext><mml:mi>n</mml:mi></mml:math>Layered Superconductors and Heterostructures. Physical Review Letters, 2008, 101, 197002.	2.9	0
93	Nonlinear Nanodevices Using Magnetic Flux Quanta. Physical Review Letters, 2007, 99, 207003.	2.9	75
94	Modeling an Adiabatic Quantum Computer via an Exact Map to a Gas of Particles. Physical Review Letters, 2007, 98, 120503.	2.9	23
95	Quantum Terahertz Electrodynamics and Macroscopic Quantum Tunneling in Layered Superconductors. Physical Review Letters, 2007, 98, 077002.	2.9	55
96	Left-Handed Interfaces for Electromagnetic Surface Waves. Physical Review Letters, 2007, 98, 073901.	2.9	67
97	Resonance effects due to exitation of the surface waves in periodically-modulated layered superconductors. , 2007, , .		0
98	Modelling chemical reactions using semiconductor quantum dots. Europhysics Letters, 2007, 80, 67008.	0.7	32
99	Why macroscopic quantum tunnelling in Josephson junctions differs from tunnelling of a quantum particle. Europhysics Letters, 2007, 80, 17009.	0.7	16
100	Semiclassical Dynamics of Electron Wave Packet States with Phase Vortices. Physical Review Letters, 2007, 99, 190404.	2.9	287
101	Ratchet without spatial asymmetry: Controlling the motion of magnetic flux quanta using time-asymmetric drives. Physica C: Superconductivity and Its Applications, 2007, 460-462, 1266-1267.	0.6	3
102	Diffusion of interacting Brownian particles: Jamming and anomalous diffusion. Physical Review E, 2006, 74, 021119.	0.8	29
103	Manipulation of magnetic-flux landscapes in superconducting Bi 2 Sr 2 CaCu 2 O 8 + Î´ crystals. Europhysics Letters, 2006, 76, 1151-1157.	0.7	10
104	Ratchet without spatial asymmetry for controlling the motion of magnetic flux quanta using time-asymmetric drives. Nature Materials, 2006, 5, 305-311.	13.3	127
105	Analogues of nonlinear optics using terahertz Josephson plasma waves in layered superconductors. Nature Physics, 2006, 2, 521-525.	6.5	81
106	Vortex pumps in the crossing lattices regime of highly anisotropic layered superconductors. Physica C: Superconductivity and Its Applications, 2006, 437-438, 52-56.	0.6	7
107	Driven binary mixtures: Clustering and giant diffusion. Europhysics Letters, 2006, 73, 513-519.	0.7	10
108	Melting of the vortex-solid in irradiated Bi2Sr2CaCu2O8+Î´single crystals in tilted magnetic fields. New Journal of Physics, 2006, 8, 226-226.	1.2	7

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109	Nonuniform Self-Organized Dynamical States in Superconductors with Periodic Pinning. Physical Review Letters, 2006, 96, 127004.	2.9	34
110	Achieving optimal rectification using underdamped rocked ratchets. Physical Review E, 2006, 73, 021102.	0.8	31
111	Quantum electromechanics: qubits from buckling nanobars. New Journal of Physics, 2006, 8, 105-105.	1.2	39
112	Nonlinear amplifier and frequency shifter using a tunable periodic drive. Physical Review E, 2005, 72, 056136.	0.8	20
113	Nanoscale Friction: Kinetic Friction of Magnetic Flux Quanta and Charge Density Waves. Physical Review Letters, 2005, 94, 077001.	2.9	26
114	Controlling the motion of interacting particles: Homogeneous systems and binary mixtures. Chaos, 2005, 15, 026112.	1.0	23
115	EXPERIMENTALLY REALIZABLE DEVICES FOR CONTROLLING THE MOTION OF MAGNETIC FLUX QUANTA IN ANISOTROPIC SUPERCONDUCTORS: VORTEX LENSES, VORTEX DIODES AND VORTEX PUMPS. , 2005, , .		0
116	Using Josephson Vortex Lattices to Control Terahertz Radiation: Tunable Transparency and Terahertz Photonic Crystals. Physical Review Letters, 2005, 94, 157004.	2.9	65
117	Interacting particles on a rocked ratchet: Rectification by condensation. Physical Review E, 2005, 71, 011107.	0.8	42
118	Experimentally realizable devices for domain wall motion control. New Journal of Physics, 2005, 7, 82-82.	1.2	17
119	Critical Currents in Quasiperiodic Pinning Arrays: Chains and Penrose Lattices. Physical Review Letters, 2005, 95, 177007.	2.9	93
120	Surface Josephson Plasma Waves in Layered Superconductors. Physical Review Letters, 2005, 95, 187002.	2.9	77
121	Signal mixing in a ratchet device: commensurability and current control. European Physical Journal B, 2004, 40, 403-408.	0.6	39
122	Manipulating Small Particles in Mixtures far from Equilibrium. Physical Review Letters, 2004, 92, 160602.	2.9	83
123	Transport via nonlinear signal mixing in ratchet devices. Physical Review E, 2004, 70, 066109.	0.8	85
124	Stochastic transport of interacting particles in periodically driven ratchets. Physical Review E, 2004, 70, 061107.	0.8	56
125	Nonlinear signal mixing in a ratchet device. Europhysics Letters, 2004, 67, 179-185.	0.7	97
126	Controlling the collective motion of interacting particles: analytical study via the nonlinear Fokkerâ€“Planck equation. Physica C: Superconductivity and Its Applications, 2003, 388-389, 661-662.	0.6	4

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127	Controlling Transport in Mixtures of Interacting Particles using Brownian Motors. Physical Review Letters, 2003, 91, 010601.	2.9	125
128	A Superconducting Reversible Rectifier That Controls the Motion of Magnetic Flux Quanta. Science, 2003, 302, 1188-1191.	6.0	441
129	Anisotropy of vortex-liquid and vortex-solid phases in single crystals ofBi2Sr2CaCu2O8+Î´:Violation of the scaling law. Physical Review B, 2002, 66, .	1.1	13
130	Melting transition in single crystals of Bi2Sr2CaCu2O8+Î´ studied by the c-axis and in-plane resistivity measurements in parallel magnetic fields. Physica C: Superconductivity and Its Applications, 2002, 378-381, 428-432.	0.6	4
131	Dimensionality of vortex solid and liquid phases in single crystals of Bi2Sr2CaCu2O8+Î´ studied by the resistivity measurements. Physica C: Superconductivity and Its Applications, 2002, 378-381, 491-494.	0.6	1
132	Influence of force-free current on vortex lattice melting transition. Physica C: Superconductivity and Its Applications, 2002, 378-381, 495-498.	0.6	2
133	Experimentally realizable devices for controlling the motion of magnetic flux quanta in anisotropic superconductors. Nature Materials, 2002, 1, 179-184.	13.3	128
134	Scaling of vortex lattice melting transition in single crystals of Bi2Sr2CaCu2O8+Î´. Physica C: Superconductivity and Its Applications, 2001, 357-360, 450-453.	0.6	15
135	The novel electrodynamics of combined pancake and Josephson vortex lattice. Physica C: Superconductivity and Its Applications, 2001, 357-360, 597-600.	0.6	4
136	Free energy of vortex system beyond the elastic approximation. Physica C: Superconductivity and Its Applications, 2001, 357-360, 601-603.	0.6	1
137	Non-linear resistance behavior in parallel magnetic fields: indication of the vortex-smectic phase in Bi2Sr2CaCu2O8+Î´. Physica C: Superconductivity and Its Applications, 2001, 364-365, 515-517.	0.6	7
138	London theory of the crossing vortex lattice in highly anisotropic layered superconductors. Physical Review B, 2001, 64, .	1.1	55
139	Generalized spherical version of the Blume-Emery-Griffiths model with ferromagnetic and antiferromagnetic interactions. Physical Review B, 2001, 63, .	1.1	2
140	Stepwise Behavior of Vortex-Lattice Melting Transition in Tilted Magnetic Fields in Single Crystals ofBi2Sr2CaCu2O8+Î´. Physical Review Letters, 2001, 86, 886-889.	2.9	89
141	NONCOLLINEAR ORIENTATION OF THE FLUX LINES PENETRATING INTO A HARD ISOTROPIC SUPERCONDUCTOR AND THE APPLIED MAGNETIC FIELD. , 2000, , .		0
142	The anisotropic response of the single crystal and textured HTS to the rotating AC magnetic field. Physica B: Condensed Matter, 2000, 284-288, 861-862.	1.3	1
143	Suppression of the magnetic moment of a hard superconductor under the action of a transverse magnetic field. Physica B: Condensed Matter, 2000, 284-288, 863-864.	1.3	5
144	Kinetic theory of crossed vortices. Physica B: Condensed Matter, 2000, 284-288, 735-736.	1.3	4

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145	Novel angular dependence of vortex melting transition in single crystal Bi2Sr2CaCu2O8+Î´. Physica C: Superconductivity and Its Applications, 2000, 341-348, 1181-1182.	0.6	3
146	Anomalous angular dependence of vortex melting transition in single crystal Bi2Sr2CaCu2O8+Î´. Physica C: Superconductivity and Its Applications, 2000, 341-348, 1301-1302.	0.6	2
147	Phase separation in La-Pr manganites and its evolution in a magnetic field. JETP Letters, 2000, 71, 106-110.	0.4	26
148	Suppression of the magnetic moment under the action of a transverse magnetic field in hard superconductors. Physical Review B, 2000, 61, 15382-15391.	1.1	44
149	Losses in Bi-2223/Ag tapes and in the 1 kA AC transmission line model. Superconductor Science and Technology, 1999, 12, 24-35.	1.8	1
150	AC losses in Bi-2223 tapes and in the 1-kA transmission line model. IEEE Transactions on Applied Superconductivity, 1999, 9, 1265-1268.	1.1	0
151	Noncollinear orientation of external magnetic field and flux lines penetrating an isotropic hard superconductor. Journal of Experimental and Theoretical Physics, 1998, 87, 978-984.	0.2	3
152	Colossal magnetoresistance and relaxation phenomena. Journal of Physics Condensed Matter, 1998, 10, 9769-9782.	0.7	6
153	Electrodynamics of hard superconductors in crossed magnetic fields. Journal of Experimental and Theoretical Physics, 1997, 84, 592-598.	0.2	21
154	Vortex lattice kinetics and the electrodynamics of rigid superconductors. Journal of Experimental and Theoretical Physics, 1997, 85, 507-515.	0.2	13
155	Microscopic model of the critical state in hard superconductors. European Physical Journal D, 1996, 46, 907-908.	0.4	0
156	Nonlocal critical state model for hard superconductors. Physica C: Superconductivity and Its Applications, 1995, 245, 231-237.	0.6	27
157	Nonlocal and Nonlinear Effects in Hard Superconductors. Physica C: Superconductivity and Its Applications, 1994, 235-240, 2901-2902.	0.6	1
158	Exact solution to the strong pinning discrete model for a hard superconductor. Physica C: Superconductivity and Its Applications, 1994, 235-240, 2937-2938.	0.6	0
159	Mean-field description of a Josephson medium in a strong magnetic field. Physica C: Superconductivity and Its Applications, 1994, 235-240, 3329-3330.	0.6	0
160	Some features of magnetic field penetration and losses in fine-filament composite superconductors. Superconductor Science and Technology, 1993, 6, 863-869.	1.8	0
161	Surface Josephson Plasma Waves in Layered HTC Superconductors and their Excitation via Attenuated Total Reflection. , 0, , .		0