



Oleg Yevtushenko

LMU
Theoretical Physics

	All	Since 2015
Citations	2138	565
h-index	21	13
i10-index	34	20

TITLE	CITED BY	YEAR
Electrodynamics of carbon nanotubes: Dynamic conductivity, impedance boundary conditions, and surface wave propagation GY Slepyan, SA Maksimenko, A Lakhtakia, O Yevtushenko, AV Gusakov Physical Review B 60 (24), 17136	511	1999
Directed current due to broken time-space symmetry S Flach, O Yevtushenko, Y Zolotaryuk Physical review letters 84 (11), 2358	432	2000
Electronic and electromagnetic properties of nanotubes GY Slepyan, SA Maksimenko, A Lakhtakia, OM Yevtushenko, ... Physical Review B 57 (16), 9485	130	1998
Broken space-time symmetries and mechanisms of rectification of ac fields by nonlinear (non) adiabatic response S Denisov, S Flach, AA Ovchinnikov, O Yevtushenko, Y Zolotaryuk Physical Review E 66 (4), 041104	124	2002
Rectification of current in ac-driven nonlinear systems and symmetry properties of the Boltzmann equation O Yevtushenko, S Flach, Y Zolotaryuk, AA Ovchinnikov EPL (Europhysics Letters) 54 (2), 141	90	2001
Nonlinear electron transport effects in a chiral carbon nanotube OM Yevtushenko, GY Slepyan, SA Maksimenko, A Lakhtakia, ... Physical Review Letters 79 (6), 1102	83	1997
Weak localization in antidot arrays: signature of classical chaos O Yevtushenko, G Lütjering, D Weiss, K Richter Physical review letters 84 (3), 542	52	2000
Effective medium theory of the microwave and the infrared properties of composites with carbon nanotube inclusions A Lakhtakia, GY Slepyan, SA Maksimenko, AV Gusakov, ... Carbon 36 (12), 1833-1839	49	1998
Virial expansion for almost diagonal random matrices O Yevtushenko, VE Kravtsov Journal of Physics A: Mathematical and General 36 (30), 8265	48	2003
ac-driven phase-dependent directed diffusion O Yevtushenko, S Flach, K Richter Physical Review E 61 (6), 7215	39	2000
Dynamical scaling for critical states: Validity of Chalker's ansatz for strong fractality VE Kravtsov, A Ossipov, OM Yevtushenko, E Cuevas Physical Review B 82 (16), 161102	38	2010

TITLE	CITED BY	YEAR
A supersymmetry approach to almost diagonal random matrices O Yevtushenko, A Ossipov <i>Journal of Physics A: Mathematical and Theoretical</i> 40 (18), 4691	33	2007
Electromagnetic response of carbon nanotubes and nanotube ropes GY Slepyan, SA Maksimenko, A Lakhtakia, OM Yevtushenko <i>Synthetic metals</i> 124 (1), 121-123	31	2001
Superbosonization formula and its application to random matrix theory JE Bunder, KB Efetov, VE Kravtsov, OM Yevtushenko, MR Zirnbauer <i>Journal of Statistical Physics</i> 129 (5-6), 809-832	29	2007
Transport in helical Luttinger liquid with Kondo impurities OM Yevtushenko, A Wugalter, VI Yudson, BL Altshuler <i>EPL (Europhysics Letters)</i> 112 (5), 57003	28	2015
Divergence of the chaotic layer width and strong acceleration of the spatial chaotic transport in periodic systems driven by an adiabatic ac force SM Soskin, OM Yevtushenko, R Mannella <i>Physical review letters</i> 95 (22), 224101	28	2005
Vortex and translational currents due to broken time-space symmetries S Denisov, Y Zolotaryuk, S Flach, O Yevtushenko <i>Physical review letters</i> 100 (22), 224102	27	2008
Return probability and scaling exponents in the critical random matrix ensemble VE Kravtsov, A Ossipov, OM Yevtushenko <i>Journal of Physics A: Mathematical and Theoretical</i> 44 (30), 305003	24	2011
Density of states for almost-diagonal random matrices O Yevtushenko, VE Kravtsov <i>Physical Review E</i> 69 (2), 026104	24	2004
Level compressibility in a critical random matrix ensemble: the second virial coefficient VE Kravtsov, O Yevtushenko, E Cuevas <i>Journal of Physics A: Mathematical and General</i> 39 (9), 2021	23	2006
Effect of an ac electric field on chaotic electronic transport in a magnetic superlattice OM Yevtushenko, K Richter <i>Physical Review B</i> 57 (23), 14839	22	1998
Matching of separatrix map and resonant dynamics, with application to global chaos onset between separatrices SM Soskin, R Mannella, OM Yevtushenko <i>Physical Review E</i> 77 (3), 036221	21	2008
Quantum phase transition and protected ideal transport in a Kondo chain AM Tsvelik, OM Yevtushenko <i>Physical review letters</i> 115 (21), 216402	20	2015

TITLE	CITED BY	YEAR
Supersymmetric virial expansion for time-reversal invariant disordered systems S Kronmüller, OM Yevtushenko, E Cuevas Journal of Physics A: Mathematical and Theoretical 43 (7), 075001	20	2010
Scattering of electromagnetic waves by a semi-infinite carbon nanotube GY Slepyan, NA Krapivin, SA Maksimenko, A Lakhtakia, OM Yevtushenko Aeu-International Journal of Electronics and Communications 55 (4), 273-280	19	2001
Lévy flights and multifractality in quantum critical diffusion and in classical random walks on fractals VE Kravtsov, OM Yevtushenko, P Snajberk, E Cuevas Physical Review E 86 (2), 021136	18	2012
Dimensional crossover of the dephasing time in disordered mesoscopic rings M Treiber, OM Yevtushenko, F Marquardt, J von Delft, IV Lerner Physical Review B 80 (20), 201305	15	2009
Drastic facilitation of the onset of global chaos SM Soskin, OM Yevtushenko, R Mannella Physical review letters 90 (17), 174101	15	2003
Kondo Impurities Coupled to a Helical Luttinger Liquid: RKKY-Kondo Physics Revisited OM Yevtushenko, VI Yudson Physical review letters 120 (14), 147201	14	2018
Low energy properties of the Kondo chain in the RKKY regime DH Schimmel, AM Tsvelik, OM Yevtushenko New Journal of Physics 18, 053004	13	2016
Thermal noise and dephasing due to electron interactions in nontrivial geometries M Treiber, C Texier, OM Yevtushenko, J von Delft, IV Lerner Physical Review B 84 (5), 054204	12	2011
AC-driven anomalous stochastic diffusion and chaotic transport in magnetic superlattices OM Yevtushenko, K Richter Physica E: Low-dimensional Systems and Nanostructures 4 (4), 256-276	12	1999
Anderson localization of composite excitations in disordered optomechanical arrays TF Roque, V Peano, OM Yevtushenko, F Marquardt New Journal of Physics 19 (1), 013006	11	2017
Duality of weak and strong scatterer in a Luttinger liquid coupled to massless bosons IV Yurkevich, A Galda, OM Yevtushenko, IV Lerner Physical Review Letters 110 (13), 136405	11	2013
Localization and delocalization of electrons in narrow-band semiconductors under the action of strong time-dependent and constant electric fields	9	1996

TITLE	CITED BY	YEAR
OM Yevtushenko Physical Review B 54 (4), 2578		
Chiral Spin Order in Kondo-Heisenberg systems AM Tsvelik, OM Yevtushenko Physical review letters 119 (24), 247203	8	2017
A new approach to the treatment of separatrix chaos SM Soskin, R Mannella, OM Yevtushenko, IA Khovanov, ... Fluctuation and Noise Letters 11 (01), 1240002	7	2012
A new approach to the treatment of separatrix chaos and its applications SM Soskin, R Mannella, OM Yevtushenko, IA Khovanov, PVE McClintock Hamiltonian Chaos Beyond the KAM Theory, 51-141	5	2010
Motion of a particle with an arbitrary dispersion relation in a high-frequency oscillating field YO Averkov, FG Bass, AP Panchekha, OM Yevtushenko Physical Review B 48 (24), 17995	5	1993
Universal duality in a Luttinger liquid coupled to a generic environment IV Yurkevich, OM Yevtushenko Physical Review B 90 (11), 115411	4	2014
Chaos, Complexity and transport: theory and applications SM Soskin, OM Yevtushenko, R Mannella Proceedings of the CCT '07, 119-128	4	2008
Physics of arbitrarily doped Kondo lattices: From a commensurate insulator to a heavy Luttinger liquid and a protected helical metal AM Tsvelik, OM Yevtushenko Physical Review B 100 (16), 165110	3	2019
Fermionic and bosonic ac conductivities at strong disorder SV Syzranov, OM Yevtushenko, KB Efetov Physical Review B 86 (24), 241102	3	2012
Low-frequency properties of quasi-particles with arbitrary dispersion relation in ac electromagnetic and constant magnetic fields OM Yevtushenko, AP Panchekha Physics Letters A 200 (6), 453-458	3	1995
Nonlinear dynamics of weakly dissipative optomechanical systems TF Roque, F Marquardt, OM Yevtushenko New Journal of Physics 22 (1), 013049	2	2020
Chiral lattice supersolid on edges of quantum spin Hall samples OM Yevtushenko, AM Tsvelik Physical Review B 98 (8), 081118(R)	2	2018
Dimensional Crossover of the Dephasing Time in Disordered Mesoscopic Rings: From Diffusive through Ergodic to 0D Behavior M Treiber, OM Yevtushenko, F Marquardt, J von Delft, IV Lerner Perspectives Of Mesoscopic Physics: Dedicated to Yoseph Imry's 70th Birthday ...	2	2010

TITLE	CITED BY	YEAR
Separatrix chaos: new approach to the theoretical treatment SM Soskin, R Mannella, OM Yevtushenko Chaos, Complexity and Transport: Theory and Applications: Proceedings of the ...	2	2008
Dynamical properties of electrons in semiconductors with nonparabolic dispersion relation under spatially inhomogeneous high-frequency fields OM Yevtushenko Ph. D. thesis (Kharkov, Institute of Radiophysics and Electronics, 1994)[in ...]	2	1994
Spatial modulation of a nonquadratic dispersion law of carriers in semiconductors by an external high frequency field FG Bass, AP Panchekha, OM Evtushenko Semiconductors 27 (10), 964–965	2	1993
Transport in magnetically doped one-dimensional wires: can the helical protection emerge without the global helicity? AM Tsvelik, OM Yevtushenko New Journal of Physics 22 (5), 053013	1	2020
Protection of helical transport in Quantum Spin Hall samples: the role of symmetries on edges OM Yevtushenko, VI Yudson arXiv preprint arXiv:1909.08460	1	2019
Transport and dephasing in a quantum dot: Multiply connected graph model M Treiber, OM Yevtushenko, J von Delft Annalen der Physik 524 (3-4), 188-198	1	2012
Adiabatic divergence of the chaotic layer width and acceleration of chaotic and noise-induced transport SM Soskin, R Mannella, OM Yevtushenko Communications in Nonlinear Science and Numerical Simulation 15 (1), 16-23	1	2010
Divergence of the chaotic layer width in the adiabatic limit SM Soskin, R Mannella, OM Yevtushenko nlin/0408022	1	2004
Electromagnetic wave scattering by the edge of a carbon nanotube NA Krapivin, GY Slepyan, SA Maksimenko, A Lakhtakia, OM Yevtushenko BELARUS STATE UNIV MINSK INST OF NUCLEAR PROBLEMS	1	2000
Multi-fractal properties of the nonlinear electromagnetic response of irreversible type-II superconductors F Pérez-Rodríguez, NM Makarov, O Yevtushenko, A Panchekha Physics Letters A 266 (4-6), 409-413	1	2000
Ballistic Weak Localization Antidot Arrays O Yevtushenko, K Richter, D Weiss Annalen der Physik 8, SI 297-SI 300	1	1999
Electron motion in semiconductors with superlattices in an inhomogeneous high frequency electromagnetic field FG Bass, AP Panchekha, OM Yevtushenko Physics Letters A 168 (1), 87-93	1	1992

TITLE	CITED BY	YEAR
Protected helical transport in magnetically doped quantum wires: beyond the 1D paradigm F Stäbler, AM Tsvelik, OM Yevtushenko arXiv preprint arXiv:2003.07261		2020
Nonlinear dynamics in disordered optomechanical arrays T Figueiredo Roque, F Marquardt, V Peano, O Yevtushenko APS 2019, R24. 014		2019
Anderson localization in optomechanical arrays T Figueiredo Roque, O Yevtushenko, F Marquardt APS 2018, C27. 004		2018
Quantum corrections to the polarizability and dephasing in isolated disordered metals M Treiber, PM Ostrovsky, OM Yevtushenko, J von Delft, IV Lerner Physical Review B 88 (2), 024201		2013
Duality of Weak and Strong Scatterer in Luttinger Liquid Coupled to Massless Bosons A Galda, I Yurkevich, O Yevtushenko, I Lerner APS 2013, M22. 006		2013
Dephasing due to electron interactions in inhomogeneous systems M Treiber, O Yevtushenko, J von Delft APS 2012, T23. 008		2012
Acceleration of the chaotic and noise-induced transport in adiabatically driven spatially periodic systems SM Soskin, R Mannella, OM Yevtushenko, M Filiasi AIP Conference Proceedings 1129 (1), 21-24		2009
Adiabatic ac-drive as a tool for acceleration of diffusion in spatially periodic structures and of reset process in threshold devices SM Soskin, R Mannella, OM Yevtushenko Noise and Fluctuations in Circuits, Devices, and Materials 6600, 660008		2007
Adiabatic ac-drive as a tool for acceleration of diffusion in spatially periodic structures and of reset process in threshold devices SM Soskin, R Mannella, OM Yevtushenko Noise and Fluctuations in Circuits, Devices, and Materials 6600, 660008		2007
Adiabatic ac-drive as a tool for acceleration of diffusion in spatially periodic structures and of reset process in threshold devices [6600-04] SM Soskin, R Mannella, OM Yevtushenko PROCEEDINGS-SPIE THE INTERNATIONAL SOCIETY FOR OPTICAL ENGINEERING 6600, 6600		2007
Electronic and electromagnetic properties of nanotubes GY Slepyan, SA Maksimenko, A Lakhtakia, OM Yevtushenko, ... SPIE MILESTONE SERIES MS 182, 17		2006
Divergence Of The Chaotic Layer Width And Acceleration Of The Chaotic Transport SM Soskin, OM Yevtushenko, R Mannella		2005

TITLE	CITED BY	YEAR
AIP Conference Proceedings 800 (1), 237-242		
Theory for the drastic facilitation of the onset of global chaos between separatrices of a Hamilton system SM Soskin, OM Yevtushenko, R Mannella Noise in Complex Systems and Stochastic Dynamics II 5471, 355-366		2004
Width of the chaotic layer associated with a separatrix of a one-dimensional Hamiltonian system subjected to a low-frequency time-periodic perturbation SM Soskin, OM Yevtushenko, R Mannella Noise in Complex Systems and Stochastic Dynamics II 5471, 468-479		2004
Drastic facilitation of the onset of global chaos due to an extremum in the dependence of eigenfrequency on energy SM Soskin, OM Yevtushenko, R Mannella Noise in Complex Systems and Stochastic Dynamics 5114, 343-352		2003
A drastic facilitation of the onset of global chaos in periodically driven Hamiltonian systems possessing more than one separatrix SM Soskin, OM Yevtushenko, R Mannella Fourth International Kharkov Symposium'Physics and Engineering of Millimeter ...		2001
Weak Localization in Antidot Arrays: Signatures of Classical Chaos K Richter, O Yevtushenko, G Lütjering, D Weiss APS, B28. 006		2000
Ballistic weak localization in classically chaotic antidot arrays: influence of geometric factors K Richter, R Hennig, M Suhrke, O Yevtushenko Physica E: Low-dimensional Systems and Nanostructures 6 (1-4), 449-452		2000
Eigen-value electrodynamic problems for IR carbon nanowaveguides A Lakhtakia, GY Slepyan, SA Maksimenko, OM Yevtushenko, ... MMET Conference Proceedings. 1998 International Conference on Mathematical ...		1998
Low Frequency Stochastic Properties of Quasi-Particles with Arbitrary Dispersion Relation in AC Electromagnetic and Constant Magnetic Fields F Bass, O Yevtushenko, A Panchekha Noise In Physical Systems And 1/f Fluctuations-Proceedings Of The 13th ...		1995