List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/1619591/publications.pdf Version: 2024-02-01



#	Article	IF	CITATIONS
1	Anomalous localization in low-dimensional systems with correlated disorder. Physics Reports, 2012, 512, 125-254.	25.6	210
2	Effect of microstructure on the magnetic-field dependence of the local critical current density inYBa2Cu3O7â ´Î ´superconductors. Physical Review B, 1992, 46, 10986-10996.	3.2	45
3	Localization in Correlated Bilayer Structures: From Photonic Crystals to Metamaterials and Semiconductor Superlattices. Physical Review Letters, 2009, 102, 203901.	7.8	45
4	Anomalous transport in low-dimensional systems with correlated disorder. Journal of Physics A, 2005, 38, 10613-10637.	1.6	41
5	Collapse of superconducting current in high-Tc ceramics in alternating magnetic field. Physics Letters, Section A: General, Atomic and Solid State Physics, 1990, 148, 213-216.	2.1	38
6	One dimensional Kronig-Penney model with positional disorder: Theory versus experiment. Physical Review B, 2009, 80, .	3.2	38
7	Classical and quantum size effects in electron conductivity of films with rough boundaries. Physical Review B, 1995, 52, 6087-6101.	3.2	35
8	Onset of delocalization in quasi-one-dimensional waveguides with correlated surface disorder. Physical Review B, 2003, 67, .	3.2	27
9	Nonlocal effects in the electrodynamics of metallic slabs. JETP Letters, 2010, 90, 623-627.	1.4	27
10	Microwave realization of quasi-one-dimensional systems with correlated disorder. Physical Review B, 2011, 83, .	3.2	27
11	Electron localization in narrow surface-corrugated conducting channels: Manifestation of competing scattering mechanisms. Physical Review B, 2001, 64, .	3.2	26
12	Selective transparency of single-mode waveguides with surface scattering. Optics Letters, 2001, 26, 1604.	3.3	24
13	Conductance of a single-mode electron waveguide with statistically identical rough boundaries. Journal of Physics Condensed Matter, 1998, 10, 1523-1537.	1.8	23
14	Generation of correlated binary sequences from white noise. Physical Review E, 2007, 76, 027701.	2.1	21
15	Strong one-dimensional localization in systems with statistically rough boundaries. Physical Review B, 1990, 41, 8033-8036.	3.2	18
16	Manifestation of the roughness-square-gradient scattering in surface-corrugated waveguides. Physical Review B, 2006, 73, .	3.2	16
17	Selective transport and mobility edges in quasi-one-dimensional systems with a stratified correlated disorder. Applied Physics Letters, 2004, 84, 5150-5152.	3.3	15
18	Gradient and amplitude scattering in surface-corrugated waveguides. Physical Review B, 2005, 72, .	3.2	15

#	Article	IF	CITATIONS
19	The Signum function method for the generation of correlated dichotomic chains. Journal of Physics A: Mathematical and Theoretical, 2008, 41, 175101.	2.1	14
20	Anderson localization in bi-layer array with compositional disorder: Conventional photonic crystals versus metamaterials. Physica B: Condensed Matter, 2010, 405, 3022-3025.	2.7	14
21	Radio-frequency surface impedance of HTSC-ceramics and definition of critical current density. Solid State Communications, 1990, 76, 141-144.	1.9	13
22	Non-conventional Anderson localization in bilayered structures. Europhysics Letters, 2012, 98, 27003.	2.0	13
23	Surface scattering and band gaps in rough waveguides and nanowires. Physical Review B, 2012, 86, .	3.2	13
24	Nonlocal effect on optic spectrum of a periodic dielectric-metal stack. Optics Express, 2014, 22, 7581.	3.4	13
25	Non-linear interaction of a transport current with an electromagnetic wave in high-Tc ceramics. Physica C: Superconductivity and Its Applications, 1992, 197, 161-166.	1.2	12
26	Excitation of terahertz modes localized on a layered superconductor: Anomalous dispersion and resonant transmission. Physical Review B, 2018, 97, .	3.2	12
27	Square-gradient mechanism of surface scattering in quasi-one-dimensional rough waveguides. Physical Review B, 2007, 75, .	3.2	11
28	Enhanced transmission of terahertz radiation through a periodically modulated slab of layered superconductor. New Journal of Physics, 2013, 15, 023040.	2.9	11
29	Landau damping of electromagnetic transport via dielectric–metal superlattices. Optics Letters, 2015, 40, 3588.	3.3	11
30	Rough surface scattering in many-mode conducting channels: gradient versus amplitude scattering. Physica Status Solidi (B): Basic Research, 2005, 242, 1224-1228.	1.5	10
31	HTSC ceramics response to electromagnetic signal of finite amplitude. Solid State Communications, 1990, 73, 691-693.	1.9	9
32	Transmission of terahertz waves through layered superconductors controlled by a dc magnetic field. Physical Review B, 2016, 94, .	3.2	9
33	Microscopic theory of conduction electron scattering from a random metal surface with mildly sloping asperities. Journal of Physics Condensed Matter, 1991, 3, 4621-4632.	1.8	8
34	Anderson localization in metamaterials with compositional disorder. Low Temperature Physics, 2011, 37, 957-963.	0.6	8
35	THz photonic bands of periodic stacks composed of resonant dielectric and nonlocal metal. Optical Materials Express, 2015, 5, 361.	3.0	8
36	Ballistic, diffusive, and localized transport in surface-disordered systems: Two-mode waveguide. Physical Review E, 2011, 83, 051124.	2.1	7

#	Article	IF	CITATIONS
37	Features of the electromagnetic absorption in highâ€Jcmeltâ€textured samples. Journal of Applied Physics, 1994, 75, 7414-7417.	2.5	6
38	Jumps of the electric field on the surface of a hard superconductor. Solid State Communications, 1995, 93, 697-700.	1.9	6
39	Size effect in hard superconductors at unilateral excitation. Applied Physics Letters, 1995, 67, 419-421.	3.3	6
40	Controlled transparency of many-mode waveguides with rough surface. Physica Status Solidi C: Current Topics in Solid State Physics, 2003, 0, 3037-3041.	0.8	6
41	Resonant enhancement of Anderson localization: Analytical approach. Physical Review E, 2013, 88, 052108.	2.1	6
42	Resonant transparency of a layered superconductor: Hyperbolic material in the terahertz range tuned by dc magnetic field. Physical Review B, 2021, 103, .	3.2	6
43	Frequency limitations for the applicability of the critical state model. Applied Superconductivity, 1994, 2, 685-687.	0.5	5
44	Memory function versus binary correlator in additive Markov chains. Physica A: Statistical Mechanics and Its Applications, 2006, 372, 279-297.	2.6	5
45	Reflection resonances in surface-disordered waveguides: strong higher-order effects of the disorder. New Journal of Physics, 2014, 16, 053026.	2.9	5
46	Iterative method for generating correlated binary sequences. Physical Review E, 2014, 90, 053305.	2.1	5
47	Hysteresis interaction of radio waves in metals. Journal of Physics Condensed Matter, 1993, 5, 8741-8748.	1.8	4
48	Interaction of electromagnetic waves in hard superconductors. Physica C: Superconductivity and Its Applications, 1995, 251, 50-60.	1.2	4
49	Sign-alternating current structure and oscillations in I-V characteristics of a metal plate. Journal of Physics Condensed Matter, 1995, 7, 625-637.	1.8	4
50	Non-conventional Anderson localization in a matched quarter stack with metamaterials. New Journal of Physics, 2013, 15, 055014.	2.9	4
51	Quantum resonances of Landau damping in the electromagnetic response of metallic nanoslabs. Optics Letters, 2018, 43, 2410.	3.3	4
52	Nonlinear skin effect and electromagnetic sound generation. Physics Letters, Section A: General, Atomic and Solid State Physics, 1988, 130, 390-394.	2.1	3
53	Hysteresis and jumps for the amplitude of electromagnetically excited sound in metals placed in a magnetic field. Physics Letters, Section A: General, Atomic and Solid State Physics, 1988, 133, 536-542.	2.1	3
54	Non-linear conductivity and magnetoplasma waves in compensated metals and semi-metals. Journal of Physics Condensed Matter, 1998, 10, 1033-1052.	1.8	3

#	Article	IF	CITATIONS
55	Temperature dependence of the photoluminescence polarization of ordered III-V semiconductor alloys. Journal of Applied Physics, 2016, 119, 115702.	2.5	3
56	<pre>\${ mathcal P }{ mathcal T }\$-symmetric transport in non-\${ mathcal P }{ mathcal T }\$-symmetric bi-layer optical arrays. Journal of Optics (United Kingdom), 2016, 18, 09LT01.</pre>	2.2	3
57	Left-to-right and right-to-left switching of a unidirectional reflection. Physical Review A, 2017, 96, .	2.5	3
58	Electrodynamics of superlattices with ultra-thin metal layers: quantum Landau damping and band gaps with nonzero density of states. Optical Materials Express, 2019, 9, 673.	3.0	3
59	On the theory of surface impedance of metals placed in a magnetic field. Solid State Communications, 1981, 39, 815-820.	1.9	2
60	Current states in a metal plate. Journal of Physics Condensed Matter, 1993, 5, 7469-7480.	1.8	2
61	Shock magnetoplasma waves in metals. Journal of Physics Condensed Matter, 1995, 7, 7549-7559.	1.8	2
62	Effect of the substrate on the ac response of superconductors with strong pinning to an incident plane wave. Journal of Applied Physics, 1996, 80, 6370-6377.	2.5	2
63	Spectral theory of a surface-corrugated electron waveguide: The exact scattering-operator approach. Physical Review B, 1999, 60, 258-269.	3.2	2
64	Scattering by one-dimensional smooth potentials: between WKB and Born approximation. Physica E: Low-Dimensional Systems and Nanostructures, 2005, 27, 262-269.	2.7	2
65	Strong nonlinear effects in conductivity of thin metallic samples (Review Article). Low Temperature Physics, 2011, 37, 895-902.	0.6	2
66	Discrimination between two mechanisms of surface scattering in a single-mode waveguide. Physical Review E, 2011, 84, 051131.	2.1	2
67	Correlated disorder: a novel approach to filter design. Journal of Optics (United Kingdom), 2015, 17, 055001.	2.2	2
68	1D Anderson model revisited: Band center anomaly for correlated disorder. Low Temperature Physics, 2017, 43, 284-289.	0.6	2
69	Resonant absorption of terahertz waves in layered superconductors: Wood's anomalies and anomalous dispersion. Physical Review B, 2020, 101, .	3.2	2
70	Surface sound waves theory in metals in a weak magnetic field. Solid State Communications, 1970, 8, 581-585.	1.9	1
71	Nonperturbative results for the spectrum of surface-disordered waveguides. Optics Letters, 1998, 23, 1727.	3.3	1
72	Multi-fractal properties of the nonlinear electromagnetic response of irreversible type-II superconductors. Physics Letters, Section A: General, Atomic and Solid State Physics, 2000, 266, 409-413.	2.1	1

#	Article	lF	CITATIONS
73	Surface scattering frequency and optical absorptivity of exciton in quasi-two-dimensional quantum wells. Solid State Communications, 2001, 119, 163-167.	1.9	1
74	Surface relaxation frequency of ground-state exciton in quantum wells. Microelectronics Journal, 2002, 33, 375-378.	2.0	1
75	Resonant transparency of a photonic crystal containing layered superconductor as a defect. Low Temperature Physics, 2017, 43, 848-854.	0.6	1
76	Quantum discretization of Landau damping. Low Temperature Physics, 2018, 44, 1251-1260.	0.6	1
77	Gyrotropic superlattice as a transformer of light polarization. Low Temperature Physics, 2021, 47, 588-595.	0.6	1
78	Square-gradient scattering mechanism in surface-corrugated waveguides. Brazilian Journal of Physics, 2006, 36, 971-974.	1.4	1
79	Nonlinear electromagnetic generation of sound in a metal plate. Physical Review B, 1993, 48, 9434-9446.	3.2	0
80	Surface electron transport and quantum size effect in electron conductivity of thin films with statistically rough boundaries. European Physical Journal D, 1996, 46, 2525-2526.	0.4	0
81	Surface-induced broadening and shift of exciton ground-state resonance in quantum wells. Physica Status Solidi C: Current Topics in Solid State Physics, 2003, 0, 2921-2925.	0.8	0
82	Localization Length for One-Dimensional Array of Dielectric Bi-Layers with Correlated Positional Disorder. , 2007, , .		0
83	Anomalous transmission in waveguides with correlated disorder in surface profiles. , 0, , 287-315.		0
84	Emanuil Aizikovich Kaner (1931–1986) On the 80th anniversary. Low Temperature Physics, 2011, 37, 893-894.	0.6	0
85	Discrimination of surface-scattering mechanisms in waveguides with a rough boundary of rectangular power spectrum. Physica Status Solidi C: Current Topics in Solid State Physics, 2012, 9, 1507-1514.	0.8	0
86	Analysis of polarized photoluminescence emission of ordered III–V semiconductor quaternary alloys. Journal of Luminescence, 2016, 172, 249-253.	3.1	0
87	Narrow-pass-band filters based on binary superlattices with strong impedance contrast. Low Temperature Physics, 2017, 43, 914-918.	0.6	0
88	Excitation of weak and strong guided waves in a semiconductor slab and their strong coupling with confined magnetoexcitons. Physical Review B, 2022, 105, .	3.2	0