Ladislaus Banyai

List of Publications by Year
in descending order

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64	2,169	304368	223531
papers	citations	22 h-index	46 g-index

68	68	68	915
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Thermal Fluctuations and Electromagnetic Noise Spectra in Quantum Statistical Mechanics. International Journal of Theoretical Physics, 2022, 61, .	0.5	1
2	Mean-field BCS theory of the Meissner effect in bulk revisited. European Physical Journal B, 2021, 94, 1.	0.6	2
3	The Non-Relativistic Many-Body Quantum-Mechanical Hamiltonian with Diamagnetic Current-Current Interaction. International Journal of Theoretical Physics, 2021, 60, 2236-2243.	0.5	1
4	A Compendium of Solid State Theory. , 2020, , .		2
5	Dissipation and irreversibility in a solvable classical open system. European Physical Journal B, 2019, 92, 1.	0.6	2
6	Real-Time Bose-Einstein Condensation in a Finite Volume with a Discrete Spectrum. Physical Review Letters, 2002, 88, 210404.	2.9	14
7	About the c-Number Approximation of the Macroscopical Boson Degrees of Freedom within a Solvable Model. Physica Status Solidi (B): Basic Research, 2002, 234, 14-16.	0.7	0
8	Virtual carrierâ€“LO phonon interaction in the intermediate coupling region: the quantum dynamical formation of polarons. Physica B: Condensed Matter, 2002, 314, 76-80.	1.3	2
9	Subthreshold Carrier-LO Phonon Dynamics in Semiconductors with Intermediate Polaron Coupling: A Purely Quantum Kinetic Relaxation Channel. Physical Review Letters, 2001, 86, 4684-4687.	2.9	42
10	Bose-Einstein Condensation Quantum Kinetics for a Gas of Interacting Excitons. Physical Review Letters, 2001, 86, 3839-3842.	2.9	23
11	Kinetics of the Dephasing and the Condensation of Excitons. Physica Status Solidi (B): Basic Research, 2000, 221, 221-225.	0.7	3
12	Current Relaxation Kinetics in Crossed Magnetic and Electric Fields. Physica Status Solidi (B): Basic Research, 2000, 221, 481-484.	0.7	0
13	Coulomb screening in the two-time Keldysh-Green-function formalism. Physical Review B, 2000, 62, 7116-7120.	1.1	19
14	Condensation kinetics for bosonic excitons interacting with a thermal phonon bath. Physical Review B, 2000, 61, 8823-8834.	1.1	34
15	Theory of THz emission from optically excited semiconductors in crossed electric and magnetic fields. Physical Review B, 2000, 62, 5003-5009.	1.1	34
16	Photon Echoes from Semiconductor Band-to-Band Continuum Transitions in the Regime of Coulomb Quantum Kinetics. Physical Review Letters, 1999, 83, 3313-3316.	2.9	87
17	Screened Coulomb quantum kinetics for resonant femtosecond spectroscopy in semiconductors. Physical Review B, 1999, 59, 2760-2767.	1.1	27
18	Exciton and biexciton correlations for weakly confined semiconductor quantum wires. Solid State Communications, 1999, 111, 741-745.	0.9	5

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19	Valence Band Structure of a GaAs Superlattice. Physica Status Solidi (B): Basic Research, 1999, 211, 651-659.	0.7	0
20	Exciton-dephasing kinetics after coherent pulse excitation. Physical Review B, 1999, 60, 16506-16512.	1.1	10
21	Two-time electron-LO-phonon quantum kinetics and the generalized Kadanoff-Baym approximation. Physical Review B, 1999, 60, 14234-14241.	1.1	44
22	Ultrafast Quantum Kinetics of Time-Dependent RPA-Screened Coulomb Scattering. Physical Review Letters, 1998, 81, 882-885.	2.9	118
23	Size dependence of exciton-exciton scattering in semiconductor quantum wires. Physical Review B, 1998, 57, 12364-12368.	1.1	17
24	Excitation induced dephasing in four-wave mixing and Coulomb quantum kinetics. Physical Review B, 1998, 58, R13341-R13342.	1.1	7
25	Coherent spectroscopy of semiconductor quantum wires. , 1998, 3277, 119.		0
26	Coulomb quantum kinetics of degenerate resonant femtosecond four-wave mixing. Europhysics Letters, 1997, 40, 323-328.	0.7	19
27	Improved spectral functions for quantum kinetics. Solid State Communications, 1996, 100, 303-306.	0.9	27
28	Ultrafast Electron Redistribution through Coulomb Scattering in Undoped GaAs: Experiment and Theory. Physical Review Letters, 1996, 77, 5429-5432.	2.9	81
29	Coherent interband effects in quantum kinetics. Physica Status Solidi (B): Basic Research, 1995, 188, 387-394.	0.7	16
30	Excitonâ€“LO-Phonon Quantum Kinetics: Evidence of Memory Effects in Bulk GaAs. Physical Review Letters, 1995, 75, 2188-2191.	2.9	208
31	Time Reversal and Many-Body Non-equilibrium Green Functions. Annals of Physics, 1994, 233, 165-181.	1.0	5
32	Coulomb quantum kinetics and optical dephasing on the femtosecond time scale. Physical Review B, 1994, 50, 1541-1550.	1.1	67
33	Third-order nonlinear susceptibility of large semiconductor microcrystallites. Physical Review B, 1993, 47, 4498-4507.	1.1	16
34	Nonlinear optical properties of semiconductor quantum dots. Journal of Crystal Growth, 1992, 117, 598-602.	0.7	19
35	The Pulsed Nonresonant Optical Stark Effect and the Urbach Tail in Semiconductors. Physica Status Solidi (B): Basic Research, 1990, 159, 309-315.	0.7	9
36	Asymptotic biexciton â€˜â€˜binding energyâ€™â€™ in quantum dots. Physical Review B, 1989, 39, 8022-8024.	1.1	62

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37	Measurements of Ultrafast Optical Nonlinearities in Semiconductors. Physica Status Solidi (B): Basic Research, 1988, 150, 357-363.	0.7	19
38	Evaluation of the Hartreeâ€Fock Theory of the Excitonic Optical Stark Effect. Physica Status Solidi (B): Basic Research, 1988, 150, 393-399.	0.7	32
39	Two-photon absorption and third-order nonlinearities in GaAs quantum dots. Optics Letters, 1988, 13, 212.	1.7	37
40	Third-order optical nonlinearities in semiconductor microstructures. Physical Review B, 1988, 38, 8142-8153.	1.1	193
41	Banyai and Koch reply. Physical Review Letters, 1988, 60, 1206-1206.	2.9	0
42	Random walk on a chain with dynamic disorder due to correlations. Physical Review B, 1987, 35, 5226-5234.	1.1	0
43	Excitons and biexcitons in semiconductor quantum wires. Physical Review B, 1987, 36, 6099-6104.	1.1	234
44	Optical nonlinearities of glasses doped with semiconductor microcrystallites. Optics Letters, 1987, 12, 413.	1.7	116
45	Three types of electronic optical bistabilities in CdS. Semiconductor Science and Technology, 1986, 1, 366-375.	1.0	53
46	Absorption Blue Shift in Laser-Excited Semiconductor Microspheres. Physical Review Letters, 1986, 57, 2722-2724.	2.9	93
47	Room-Temperature Optical Nonlinearities in GaAs. Physical Review Letters, 1986, 57, 2446-2449.	2.9	247
48	Modified Maxwell-Bloch equations for systems under strong optical excitation. Journal of Luminescence, 1985, 34, 189-199.	1.5	1
49	The macroscopic electrodynamic behaviour of a soluble hopping model. Physica A: Statistical Mechanics and Its Applications, 1982, 115, 169-184.	1.2	2
50	Macroscopic behaviour of a charged Boltzmann gas. Physica A: Statistical Mechanics and Its Applications, 1981, 107, 166-178.	1.2	4
51	On the connection between the macroscopical and microscopical evolution in an exactly soluble hopping model. Physica A: Statistical Mechanics and Its Applications, 1980, 102, 357-369.	1.2	6
52	On the connection between the macroscopical and microscopical evolution in an exactly soluble hopping model. Physica A: Statistical Mechanics and Its Applications, 1980, 103, 119-139.	1.2	3
53	Master Equation Approach to the Hopping Transport Theory. Fortschritte Der Physik, 1979, 27, 435-462.	1.5	16
54	Semiâ€classical and quantumâ€mechanical theory of hopping conduction. Physica Status Solidi (B): Basic Research, 1977, 79, 365-377.	0.7	7

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55	Null-Plane Field Algebra. Physical Review D, 1973, 8, 417-423.	1.6	3
56	Effective Lagrangians, Field Algebra, and Vector-Meson Dominance with Unstable Particles. Physical Review D, 1971, 3, 571-576.	1.6	1
57	Theïâ†'4ï€Vertex in Chiral Dynamics. Physical Review, 1969, 184, 1903-1905.	2.7	7
58	One-particle-exchange model for low-energy scattering I. The one-channel problem. Annals of Physics, 1968, 46, 435-452.	1.0	1
59	Irreducible tensors for the groupSU 3. Communications in Mathematical Physics, 1966, 2, 121-132.	1.0	3
60	One-Particle-Exchange Model for Bootstrap. Physical Review, 1966, 146, 1035-1041.	2.7	5
61	Theory of the Hall Effect in Disordered Systems: Impurity-Band Conduction. Physical Review, 1966, 143, 652-656.	2.7	28
62	On the Change of Energy Gap by Phonon Interaction. Physica Status Solidi (B): Basic Research, 1965, 10, K15.	0.7	1
63	Representation of Green's Functions by path Integrals. Physica Status Solidi (B): Basic Research, 1965, 10, K17.	0.7	0
64	On the Kinetic Theory of Magneto-Optical Phenomena by Green Function Method. Physica Status Solidi (B): Basic Research, 1963, 3, 2299-2304.	0.7	21