

Ladislaus Banyai

List of Publications by Year in descending order

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64
papers

2,169
citations

304743

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68
all docs

68
docs citations

68
times ranked

915
citing authors

#	ARTICLE	IF	CITATIONS
1	Thermal Fluctuations and Electromagnetic Noise Spectra in Quantum Statistical Mechanics. International Journal of Theoretical Physics, 2022, 61, .	1.2	1
2	Mean-field BCS theory of the Meissner effect in bulk revisited. European Physical Journal B, 2021, 94, 1.	1.5	2
3	The Non-Relativistic Many-Body Quantum-Mechanical Hamiltonian with Diamagnetic Current-Current Interaction. International Journal of Theoretical Physics, 2021, 60, 2236-2243.	1.2	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.	1.5	2
6	Real-Time Bose-Einstein Condensation in a Finite Volume with a Discrete Spectrum. Physical Review Letters, 2002, 88, 210404.	7.8	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.	1.5	0
8	Virtual carrier-LO phonon interaction in the intermediate coupling region: the quantum dynamical formation of polarons. Physica B: Condensed Matter, 2002, 314, 76-80.	2.7	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.	7.8	42
10	Bose-Einstein Condensation Quantum Kinetics for a Gas of Interacting Excitons. Physical Review Letters, 2001, 86, 3839-3842.	7.8	23
11	Kinetics of the Dephasing and the Condensation of Excitons. Physica Status Solidi (B): Basic Research, 2000, 221, 221-225.	1.5	3
12	Current Relaxation Kinetics in Crossed Magnetic and Electric Fields. Physica Status Solidi (B): Basic Research, 2000, 221, 481-484.	1.5	0
13	Coulomb screening in the two-time Keldysh-Green-function formalism. Physical Review B, 2000, 62, 7116-7120.	3.2	19
14	Condensation kinetics for bosonic excitons interacting with a thermal phonon bath. Physical Review B, 2000, 61, 8823-8834.	3.2	34
15	Theory of THz emission from optically excited semiconductors in crossed electric and magnetic fields. Physical Review B, 2000, 62, 5003-5009.	3.2	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.	7.8	87
17	Screened Coulomb quantum kinetics for resonant femtosecond spectroscopy in semiconductors. Physical Review B, 1999, 59, 2760-2767.	3.2	27
18	Exciton and biexciton correlations for weakly confined semiconductor quantum wires. Solid State Communications, 1999, 111, 741-745.	1.9	5

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19	Valence Band Structure of a GaAs Superlattice. <i>Physica Status Solidi (B): Basic Research</i> , 1999, 211, 651-659.	1.5	0
20	Exciton-dephasing kinetics after coherent pulse excitation. <i>Physical Review B</i> , 1999, 60, 16506-16512.	3.2	10
21	Two-time electron-LO-phonon quantum kinetics and the generalized Kadanoff-Baym approximation. <i>Physical Review B</i> , 1999, 60, 14234-14241.	3.2	44
22	Ultrafast Quantum Kinetics of Time-Dependent RPA-Screened Coulomb Scattering. <i>Physical Review Letters</i> , 1998, 81, 882-885.	7.8	118
23	Size dependence of exciton-exciton scattering in semiconductor quantum wires. <i>Physical Review B</i> , 1998, 57, 12364-12368.	3.2	17
24	Excitation induced dephasing in four-wave mixing and Coulomb quantum kinetics. <i>Physical Review B</i> , 1998, 58, R13341-R13342.	3.2	7
25	Coherent spectroscopy of semiconductor quantum wires. , 1998, 3277, 119.		0
26	Coulomb quantum kinetics of degenerate resonant femtosecond four-wave mixing. <i>Europhysics Letters</i> , 1997, 40, 323-328.	2.0	19
27	Improved spectral functions for quantum kinetics. <i>Solid State Communications</i> , 1996, 100, 303-306.	1.9	27
28	Ultrafast Electron Redistribution through Coulomb Scattering in Undoped GaAs: Experiment and Theory. <i>Physical Review Letters</i> , 1996, 77, 5429-5432.	7.8	81
29	Coherent interband effects in quantum kinetics. <i>Physica Status Solidi (B): Basic Research</i> , 1995, 188, 387-394.	1.5	16
30	Exciton-LO-Phonon Quantum Kinetics: Evidence of Memory Effects in Bulk GaAs. <i>Physical Review Letters</i> , 1995, 75, 2188-2191.	7.8	208
31	Time Reversal and Many-Body Non-equilibrium Green Functions. <i>Annals of Physics</i> , 1994, 233, 165-181.	2.8	5
32	Coulomb quantum kinetics and optical dephasing on the femtosecond time scale. <i>Physical Review B</i> , 1994, 50, 1541-1550.	3.2	67
33	Third-order nonlinear susceptibility of large semiconductor microcrystallites. <i>Physical Review B</i> , 1993, 47, 4498-4507.	3.2	16
34	Nonlinear optical properties of semiconductor quantum dots. <i>Journal of Crystal Growth</i> , 1992, 117, 598-602.	1.5	19
35	The Pulsed Nonresonant Optical Stark Effect and the Urbach Tail in Semiconductors. <i>Physica Status Solidi (B): Basic Research</i> , 1990, 159, 309-315.	1.5	9
36	Asymptotic biexciton binding energy in quantum dots. <i>Physical Review B</i> , 1989, 39, 8022-8024.	3.2	62

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37	Measurements of Ultrafast Optical Nonlinearities in Semiconductors. <i>Physica Status Solidi (B): Basic Research</i> , 1988, 150, 357-363.	1.5	19
38	Evaluation of the Hartree-Fock Theory of the Excitonic Optical Stark Effect. <i>Physica Status Solidi (B): Basic Research</i> , 1988, 150, 393-399.	1.5	32
39	Two-photon absorption and third-order nonlinearities in GaAs quantum dots. <i>Optics Letters</i> , 1988, 13, 212.	3.3	37
40	Third-order optical nonlinearities in semiconductor microstructures. <i>Physical Review B</i> , 1988, 38, 8142-8153.	3.2	193
41	Banyai and Koch reply. <i>Physical Review Letters</i> , 1988, 60, 1206-1206.	7.8	0
42	Random walk on a chain with dynamic disorder due to correlations. <i>Physical Review B</i> , 1987, 35, 5226-5234.	3.2	0
43	Excitons and biexcitons in semiconductor quantum wires. <i>Physical Review B</i> , 1987, 36, 6099-6104.	3.2	234
44	Optical nonlinearities of glasses doped with semiconductor microcrystallites. <i>Optics Letters</i> , 1987, 12, 413.	3.3	116
45	Three types of electronic optical bistabilities in CdS. <i>Semiconductor Science and Technology</i> , 1986, 1, 366-375.	2.0	53
46	Absorption Blue Shift in Laser-Excited Semiconductor Microspheres. <i>Physical Review Letters</i> , 1986, 57, 2722-2724.	7.8	93
47	Room-Temperature Optical Nonlinearities in GaAs. <i>Physical Review Letters</i> , 1986, 57, 2446-2449.	7.8	247
48	Modified Maxwell-Bloch equations for systems under strong optical excitation. <i>Journal of Luminescence</i> , 1985, 34, 189-199.	3.1	1
49	The macroscopic electrodynamic behaviour of a soluble hopping model. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1982, 115, 169-184.	2.6	2
50	Macroscopic behaviour of a charged Boltzmann gas. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1981, 107, 166-178.	2.6	4
51	On the connection between the macroscopical and microscopical evolution in an exactly soluble hopping model. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1980, 102, 357-369.	2.6	6
52	On the connection between the macroscopical and microscopical evolution in an exactly soluble hopping model. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1980, 103, 119-139.	2.6	3
53	Master Equation Approach to the Hopping Transport Theory. <i>Fortschritte Der Physik</i> , 1979, 27, 435-462.	4.4	16
54	Semi-classical and quantum-mechanical theory of hopping conduction. <i>Physica Status Solidi (B): Basic Research</i> , 1977, 79, 365-377.	1.5	7

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55	Null-Plane Field Algebra. <i>Physical Review D</i> , 1973, 8, 417-423.	4.7	3
56	Effective Lagrangians, Field Algebra, and Vector-Meson Dominance with Unstable Particles. <i>Physical Review D</i> , 1971, 3, 571-576.	4.7	1
57	The $\pi^0\pi^0$ Vertex in Chiral Dynamics. <i>Physical Review</i> , 1969, 184, 1903-1905.	2.7	7
58	One-particle-exchange model for low-energy scattering I. The one-channel problem. <i>Annals of Physics</i> , 1968, 46, 435-452.	2.8	1
59	Irreducible tensors for the group SU_3 . <i>Communications in Mathematical Physics</i> , 1966, 2, 121-132.	2.2	3
60	One-Particle-Exchange Model for Bootstrap. <i>Physical Review</i> , 1966, 146, 1035-1041.	2.7	5
61	Theory of the Hall Effect in Disordered Systems: Impurity-Band Conduction. <i>Physical Review</i> , 1966, 143, 652-656.	2.7	28
62	On the Change of Energy Gap by Phonon Interaction. <i>Physica Status Solidi (B): Basic Research</i> , 1965, 10, K15.	1.5	1
63	Representation of Green's Functions by path Integrals. <i>Physica Status Solidi (B): Basic Research</i> , 1965, 10, K17.	1.5	0
64	On the Kinetic Theory of Magneto-Optical Phenomena by Green Function Method. <i>Physica Status Solidi (B): Basic Research</i> , 1963, 3, 2299-2304.	1.5	21