

Bedřich Velický^{1/2}

List of Publications by Year in descending order

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86
papers

4,303
citations

331259

21
h-index

102304

66
g-index

88
all docs

88
docs citations

88
times ranked

1274
citing authors

#	ARTICLE	IF	CITATIONS
1	Beyond the Generalized Kadanoff-Baym Ansatz. <i>Physica Status Solidi (B): Basic Research</i> , 2019, 256, 1800594.	0.7	8
2	Electron Systems Out of Equilibrium: Nonequilibrium Green's Function Approach. , 2014, , 83-192.		0
3	Electron systems out of equilibrium: Nonequilibrium Green's function approach. <i>International Journal of Modern Physics B</i> , 2014, 28, 1430013.	1.0	20
4	Fast Transient Current Response to Switching Events in Short Chains of Molecular Islands. <i>Journal of Superconductivity and Novel Magnetism</i> , 2013, 26, 773-777.	0.8	8
5	Fast dynamics of molecular bridges. <i>Physica Scripta</i> , 2012, T151, 014037.	1.2	6
6	Jan Tauc 1922-2010. <i>Journal of Non-Crystalline Solids</i> , 2012, 358, 1944-1945.	1.5	0
7	Fast transients in mesoscopic systems. , 2011, , .		3
8	Single molecule bridge as a testing ground for using NGF outside of the steady current regime. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2010, 42, 539-549.	1.3	9
9	Correlated initial condition for an embedded process by time partitioning. <i>Physical Review B</i> , 2010, 81, .	1.1	16
10	Dynamics of mesoscopic systems: Non-equilibrium Green's functions approach. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2010, 42, 525-538.	1.3	7
11	Ward identity for nonequilibrium Fermi systems. <i>Physical Review B</i> , 2008, 77, .	1.1	19
12	Quasiparticle states of electron systems out of equilibrium. <i>Physical Review B</i> , 2007, 75, .	1.1	13
13	Between Green's functions and transport equations: reconstruction theorems and the role of initial conditions. <i>Journal of Physics: Conference Series</i> , 2006, 35, 1-16.	0.3	19
14	Long and short time quantum dynamics: I. Between Green's functions and transport equations. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2005, 29, 154-174.	1.3	28
15	Long and short time quantum dynamics: II. Kinetic regime. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2005, 29, 175-195.	1.3	17
16	Long and short time quantum dynamics: III. Transients. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2005, 29, 196-212.	1.3	22
17	Anomalous acoustic reflection on a sliding interface or a shear band. <i>Physical Review E</i> , 2003, 67, 061301.	0.8	7
18	Photoexcited transients in disordered semiconductors: Quantum coherence at very short to intermediate times. <i>Physical Review B</i> , 2002, 65, .	1.1	7

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19	Pressure dependence of the sound velocity in a two-dimensional lattice of Hertz-Mindlin balls: Mean-field description. <i>Physical Review E</i> , 2002, 65, 021307.	0.8	49
20	Electronic Sliding Friction of Atoms Physisorbed at Superconductor Surface. <i>Physical Review Letters</i> , 1999, 83, 4112-4115.	2.9	19
21	Ultrasound Propagation in Externally Stressed Granular Media. <i>Physical Review Letters</i> , 1999, 82, 1863-1866.	2.9	238
22	Transient Quasiparticle Dynamics. <i>Physica Status Solidi (B): Basic Research</i> , 1998, 206, 341-348.	0.7	4
23	Analytic properties and accuracy of the generalized Blackman-Esterling-Berk coherent-potential approximation. <i>Physical Review B</i> , 1998, 58, 6944-6962.	1.1	46
24	Self-consistent LCAO-CPA method for disordered alloys. <i>Physical Review B</i> , 1997, 55, 5717-5729.	1.1	122
25	Interband quantum kinetics with static disorder scattering. <i>Zeitschrift für Physik B-Condensed Matter</i> , 1997, 103, 33-40.	1.1	2
26	Quasiparticle Formation and Decay in Pulsed Photoexcitation of Disordered Semiconductors. <i>Acta Physica Polonica A</i> , 1997, 92, 809-814.	0.2	0
27	Optically Induced Gaps in Disordered Semiconductors. <i>Acta Physica Polonica A</i> , 1996, 90, 837-842.	0.2	1
28	Build-up and decoherence of optical transients in disordered semiconductors. <i>Physica Status Solidi (B): Basic Research</i> , 1995, 188, 515-529.	0.7	8
29	Interband quantum kinetics with static disorder scattering I: Direct CPA solution for a rectangular-pulse-excited semiconductor. <i>European Physical Journal B</i> , 1994, 94, 273-279.	0.6	13
30	Field emission from the vibronic Koster-Slater impurity. <i>Physical Review B</i> , 1994, 49, 5353-5361.	1.1	1
31	Vibronic Koster-Slater impurity: Exactly soluble model of deep levels in semiconductors. <i>Physical Review B</i> , 1992, 46, 9408-9418.	1.1	2
32	AC conductance of quantum wires with inelastic scattering. I. <i>Journal of Physics Condensed Matter</i> , 1990, 2, 1569-1581.	0.7	9
33	Influence of alloy disorder on the vibrational properties of Si/Ge superlattices. <i>Physical Review B</i> , 1990, 41, 3769-3777.	1.1	9
34	Coherent electronic transport properties of quasi-one-dimensional systems. <i>Surface Science</i> , 1990, 229, 316-320.	0.8	13
35	ac-conductance of an infinite ideal quantum wire in an electric field with arbitrary spatial distribution. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1989, 140, 447-450.	0.9	22
36	Conductance of quantum ballistic channels with inelastic phonon scattering. <i>Solid State Communications</i> , 1989, 72, 981-985.	0.9	8

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37	A tight binding study of the electronic structure of MnTe. Journal of Physics C: Solid State Physics, 1987, 20, 59-68.	1.5	20
38	LCAO approach to the coherent potential approximation: electronic structure of substitutionally disordered CuNi alloys. Journal of Physics F: Metal Physics, 1987, 17, 351-372.	1.6	15
39	Theory of photoexcitation by ultrafast light pulses in disordered solids. Journal of Non-Crystalline Solids, 1987, 90, 49-52.	1.5	4
40	The electronic structure of a-SiHx alloys. Journal of Non-Crystalline Solids, 1987, 90, 99-102.	1.5	0
41	Dynamical response of electrons in a disordered solid to a very fast light pulse. Journal of Non-Crystalline Solids, 1987, 97-98, 455-458.	1.5	1
42	Electronic structure of 5d transition metal impurities in amorphous silicon. Journal of Non-Crystalline Solids, 1987, 97-98, 491-494.	1.5	0
43	Optical Response of Electrons in Disordered Systems. Physica Scripta, 1987, T19B, 558-564.	1.2	6
44	Mn 3d states in photoelectron spectra from Cd _{1-x} Mn _x Te. Physica Status Solidi (B): Basic Research, 1987, 140, 135-140.	0.7	9
45	Generalized Kadanoff-Baym ansatz for deriving quantum transport equations. Physical Review B, 1986, 34, 6933-6942.	1.1	363
46	Electronic states in mixed Cd _{1-x} Pb _x F ₂ crystals. Solid State Communications, 1986, 58, 663-666.	0.9	18
47	a CBLM approach to the electronic structure of transition metal impurities in silicon. Physica Status Solidi (B): Basic Research, 1986, 133, K111.	0.7	0
48	The analytical deconvolution technique for the green function recursion expansion. Physica Status Solidi (B): Basic Research, 1986, 134, 659-669.	0.7	3
49	Electronic Structure of a-SiH _x with Arbitrary Hydrogen Concentration. Physica Status Solidi (B): Basic Research, 1986, 135, 309-319.	0.7	7
50	The Electronic Structure of Polysilane Alloys. Physica Status Solidi (B): Basic Research, 1986, 136, K113.	0.7	0
51	A numerical method of analytical continuation of Green-function-like expressions. Journal of Physics C: Solid State Physics, 1986, 19, 7173-7181.	1.5	11
52	Theory of chemisorption. European Physical Journal D, 1985, 35, 1163-1179.	0.4	2
53	Theory of chemisorption. European Physical Journal D, 1985, 35, 1017-1032.	0.4	12
54	Local environment effects in electronic structure: a-GeS contrasted to a-SiHx. Journal of Non-Crystalline Solids, 1985, 77-78, 87-90.	1.5	4

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55	Simplification of Green's-function calculations through analytic continuation. Physical Review B, 1984, 29, 3697-3699.	1.1	59
56	Electronic structure of Hg _{1-x} Cd _x Te. Physical Review B, 1983, 27, 1088-1100.	1.1	179
57	Density of localized states and linear specific heat for anderson model of amorphous semiconductors. European Physical Journal D, 1982, 32, 69-75.	0.4	0
58	Index of refraction of the glassy As _x Te _{100-x} system. Solar Energy Materials and Solar Cells, 1982, 8, 33-39.	0.4	4
59	Simple Two-Band s-d Model for Ferromagnetic Semiconductors with Hybridization. II. Further Development and Optical Properties. Physica Status Solidi (B): Basic Research, 1981, 103, 139-149.	0.7	6
60	Refractive Index of Crystalline and Amorphous GeS. Physica Status Solidi (B): Basic Research, 1981, 104, K95.	0.7	17
61	Electronic States on Point Defects in Glassy As ₂ Se ₃ . Physica Status Solidi (B): Basic Research, 1980, 100, K67.	0.7	2
62	The composition dependence of activation energy in the As _x Te _{100-x} and As ₂ Te ₃ + Tlx glassy systems. Physica Status Solidi A, 1978, 47, 271-276.	1.7	2
63	Electronic structure of semiinfinite crystals with substitutional disorder in surface layer. Surface Science, 1977, 64, 411-424.	0.8	34
64	Electrical conductivity of electrons in a model binary disordered alloy with long range order. European Physical Journal D, 1977, 27, 71-87.	0.4	9
65	Optical constants of single-crystal GeS in the photon energy range 0.04-4 eV. Journal of Physics and Chemistry of Solids, 1976, 37, 785-794.	1.9	32
66	Correlated motion of a pair of electrons in a random alloy. Journal of Physics and Chemistry of Solids, 1976, 37, 655-668.	1.9	16
67	Soft X-ray transition matrix elements: The role of approximation of the valence states. European Physical Journal D, 1975, 25, 785-793.	0.4	5
68	Surface green function method in surface studies. Surface Science, 1975, 47, 495-500.	0.8	3
69	Surface Green function for systems with two interfaces. European Physical Journal D, 1974, 24, 981-984.	0.4	9
70	The role of auger effect in thermostimulated phenomena in ionic crystals. Zeitschrift für Physik A, 1972, 251, 289-299.	0.9	5
71	BÄ¶er's Theory of Electronic Conduction in Chalcogenide Glasses: Study of the Band Models. Physica Status Solidi (B): Basic Research, 1971, 46, K59.	0.7	0
72	Surface Green function by matching. Journal of Physics C: Solid State Physics, 1971, 4, L104-L107.	1.5	50

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73	Electronic Transport in Alloys: Coherent-Potential Approximation. Physical Review B, 1970, 2, 1771-1788.	1.1	89
74	Optical Constants of Disordered Binary Alloys: Intraband Transitions in the Coherent-Potential Approximation. Physical Review B, 1970, 2, 938-947.	1.1	40
75	Paramagnetic NiCu Alloys: Electronic Density of States in the Coherent-Potential Approximation. Physical Review B, 1970, 1, 3250-3263.	1.1	230
76	Minimum Polarity Models in the Theory of Magnetic Properties of NiCu Alloys. Journal of Applied Physics, 1969, 40, 1283-1284.	1.1	28
77	Theory of Electronic Transport in Disordered Binary Alloys: Coherent-Potential Approximation. Physical Review, 1969, 184, 614-627.	2.7	544
78	Single-Site Approximations in the Electronic Theory of Simple Binary Alloys. Physical Review, 1968, 175, 747-766.	2.7	1,417
79	Polaron Effect on the Optical Absorption Edge of Semiconductors. Physica Status Solidi (B): Basic Research, 1967, 19, K39.	0.7	2
80	Excitonic Effects in the Interband Absorption of Semiconductors. Physica Status Solidi (B): Basic Research, 1966, 16, 147-157.	0.7	161
81	On the band structure of CdSb. European Physical Journal D, 1965, 15, 43-58.	0.4	14
82	On the Ultimate Distribution of Impurity in the Zone Melting Process. Physica Status Solidi (B): Basic Research, 1964, 5, 207-212.	0.7	4
83	The chemical bond in CdSb. European Physical Journal D, 1963, 13, 594-598.	0.4	10
84	Optical Properties of Liquid Germanium. Physica Status Solidi (B): Basic Research, 1963, 3, 767-772.	0.7	12
85	Dispersion relation for complex reflectivity. European Physical Journal D, 1961, 11, 541-543.	0.4	21
86	The use of the kramers-kronig relations in determining optical constants. European Physical Journal D, 1961, 11, 787-798.	0.4	48