BedÅfch Velický

List of Publications by Year in descending order

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| # | Article | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Single-Site Approximations in the Electronic Theory of Simple Binary Alloys. Physical Review, 1968, 175, 747-766. | 2.7 | 1,417 |
| 2 | Theory of Electronic Transport in Disordered Binary Alloys: Coherent-Potential Approximation. Physical Review, 1969, 184, 614-627. | 2.7 | 544 |
| 3 | Generalized Kadanoff-Baym ansatz for deriving quantum transport equations. Physical Review B, 1986, 34, 6933-6942. | 1.1 | 363 |
| 4 | Ultrasound Propagation in Externally Stressed Granular Media. Physical Review Letters, 1999, 82, 1863-1866. | 2.9 | 238 |
| 5 | ParamagneticNiCuAlloys: Electronic Density of States in the Coherent-Potential Approximation. Physical Review B, 1970, 1, 3250-3263. | 1.1 | 230 |
| 6 | Electronic structure ofHg1â^'xCdxTe. Physical Review B, 1983, 27, 1088-1100. | 1.1 | 179 |
| 7 | Excitonic Effects in the Interband Absorption of Semiconductors. Physica Status Solidi (B): Basic Research, 1966, 16, 147-157. | 0.7 | 161 |
| 8 | Self-consistent LCAO-CPA method for disordered alloys. Physical Review B, 1997, 55, 5717-5729. | 1.1 | 122 |
| 9 | Electronic Transport in Alloys: Coherent-Potential Approximation. Physical Review B, 1970, 2, 1771-1788. | 1.1 | 89 |
| 10 | Simplification of Green's-function calculations through analytic continuation. Physical Review B, 1984, 29, 3697-3699. | 1.1 | 59 |
| 11 | Surface Green function by matching. Journal of Physics C: Solid State Physics, 1971, 4, L104-L107. | 1.5 | 50 |
| 12 | Pressure dependence of the sound velocity in a two-dimensional lattice of Hertz-Mindlin balls: Mean-field description. Physical Review E, 2002, 65, 021307. | 0.8 | 49 |
| 13 | The use of the kramers-kronig relations in determining optical constants. European Physical Journal D, 1961, 11, 787-798. | 0.4 | 48 |
| 14 | Analytic properties and accuracy of the generalized Blackman-Esterling-Berk coherent-potential approximation. Physical Review B, 1998, 58, 6944-6962. | 1.1 | 46 |
| 15 | Optical Constants of Disordered Binary Alloys: Intraband Transitions in the Coherent-Potential Approximation. Physical Review B, 1970, 2, 938-947. | 1.1 | 40 |
| 16 | Electronic structure of semiinfinite crystals with substitutional disorder in surface layer. Surface Science, 1977, 64, 411-424. | 0.8 | 34 |
| 17 | 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 |
| 18 | Minimum Polarity Models in the Theory of Magnetic Properties of NiCu Alloys. Journal of Applied Physics, 1969, 40, 1283-1284. | 1.1 | 28 |

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| # | Article | IF | CITATIONS |
|----|--|-----|-----------|
| 19 | Long and short time quantum dynamics: I. Between Green's functions and transport equations. Physica E: Low-Dimensional Systems and Nanostructures, 2005, 29, 154-174. | 1.3 | 28 |
| 20 | ac-conductance of an infinite ideal quantum wire in an electric field with arbitrary spatial distribution. Physics Letters, Section A: General, Atomic and Solid State Physics, 1989, 140, 447-450. | 0.9 | 22 |
| 21 | Long and short time quantum dynamics: III. Transients. Physica E: Low-Dimensional Systems and Nanostructures, 2005, 29, 196-212. | 1.3 | 22 |
| 22 | Dispersion relation for complex reflectivity. European Physical Journal D, 1961, 11, 541-543. | 0.4 | 21 |
| 23 | A tight binding study of the electronic structure of MnTe. Journal of Physics C: Solid State Physics, 1987, 20, 59-68. | 1.5 | 20 |
| 24 | Electron systems out of equilibrium: Nonequilibrium Green's function approach. International Journal of Modern Physics B, 2014, 28, 1430013. | 1.0 | 20 |
| 25 | Electronic Sliding Friction of Atoms Physisorbed at Superconductor Surface. Physical Review Letters, 1999, 83, 4112-4115. | 2.9 | 19 |
| 26 | Between Green's functions and transport equations: reconstruction theorems and the role of initial conditions. Journal of Physics: Conference Series, 2006, 35, 1-16. | 0.3 | 19 |
| 27 | Ward identity for nonequilibrium Fermi systems. Physical Review B, 2008, 77, . | 1.1 | 19 |
| 28 | Electronic states in mixed Cd1â^'xPbxF2 crystals. Solid State Communications, 1986, 58, 663-666. | 0.9 | 18 |
| 29 | Refractive Index of Crystalline and Amorphous GeS. Physica Status Solidi (B): Basic Research, 1981, 104, K95. | 0.7 | 17 |
| 30 | Long and short time quantum dynamics: II. Kinetic regime. Physica E: Low-Dimensional Systems and Nanostructures, 2005, 29, 175-195. | 1.3 | 17 |
| 31 | 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 |
| 32 | Correlated initial condition for an embedded process by time partitioning. Physical Review B, 2010, 81, . | 1.1 | 16 |
| 33 | 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 |
| 34 | On the band structure of CdSb. European Physical Journal D, 1965, 15, 43-58. | 0.4 | 14 |
| 35 | Coherent electronic transport properties of quasi-one-dimensional systems. Surface Science, 1990, 229, 316-320. | 0.8 | 13 |
| 36 | Interband quantum kinetics with static disorder scattering I: Direct CPA solution for a rectangular-pulse-excited semiconductor. European Physical Journal B, 1994, 94, 273-279. | 0.6 | 13 |

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|----|---|-----|-----------|
| 37 | Quasiparticle states of electron systems out of equilibrium. Physical Review B, 2007, 75, . | 1.1 | 13 |
| 38 | Optical Properties of Liquid Germanium. Physica Status Solidi (B): Basic Research, 1963, 3, 767-772. | 0.7 | 12 |
| 39 | Theory of chemisorption. European Physical Journal D, 1985, 35, 1017-1032. | 0.4 | 12 |
| 40 | 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 |
| 41 | The chemical bond in CdSb. European Physical Journal D, 1963, 13, 594-598. | 0.4 | 10 |
| 42 | Surface Green function for systems with two interfaces. European Physical Journal D, 1974, 24, 981-984. | 0.4 | 9 |
| 43 | 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 |
| 44 | Mn 3d states in photoelectron spectra from Cd _{1â^'<i>x</i>} Mn _{<i>x</i>} Te. Physica Status Solidi (B): Basic Research, 1987, 140, 135-140. | 0.7 | 9 |
| 45 | AC conductance of quantum wires with inelastic scattering. I. Journal of Physics Condensed Matter, 1990, 2, 1569-1581. | 0.7 | 9 |
| 46 | Influence of alloy disorder on the vibrational properties of Si/Ge superlattices. Physical Review B, 1990, 41, 3769-3777. | 1.1 | 9 |
| 47 | Single molecule bridge as a testing ground for using NGF outside of the steady current regime. Physica E: Low-Dimensional Systems and Nanostructures, 2010, 42, 539-549. | 1.3 | 9 |
| 48 | Conductance of quantum ballistic channels with inelastic phonon scattering. Solid State Communications, 1989, 72, 981-985. | 0.9 | 8 |
| 49 | Buildâ€up and decoherence of optical transients in disordered semiconductors. Physica Status Solidi (B): Basic Research, 1995, 188, 515-529. | 0.7 | 8 |
| 50 | Fast Transient Current Response to Switching Events in Short Chains of Molecular Islands. Journal of Superconductivity and Novel Magnetism, 2013, 26, 773-777. | 0.8 | 8 |
| 51 | Beyond the Generalized Kadanoff–Baym Ansatz. Physica Status Solidi (B): Basic Research, 2019, 256, 1800594. | 0.7 | 8 |
| 52 | Electronic Structure of a‣iH _x with Arbitrary Hydrogen Concentration. Physica Status Solidi (B): Basic Research, 1986, 135, 309-319. | 0.7 | 7 |
| 53 | Photoexcited transients in disordered semiconductors: Quantum coherence at very short to intermediate times. Physical Review B, 2002, 65, . | 1.1 | 7 |
| 54 | Anomalous acoustic reflection on a sliding interface or a shear band. Physical Review E, 2003, 67, 061301. | 0.8 | 7 |

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| 55 | Dynamics of mesoscopic systems: Non-equilibrium Green's functions approach. Physica E: Low-Dimensional Systems and Nanostructures, 2010, 42, 525-538. | 1.3 | 7 |
| 56 | Simple Twoâ€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 |
| 57 | Optical Response of Electrons in Disordered Systems. Physica Scripta, 1987, T19B, 558-564. | 1.2 | 6 |
| 58 | Fast dynamics of molecular bridges. Physica Scripta, 2012, T151, 014037. | 1.2 | 6 |
| 59 | The role of auger effect in thermostimulated phenomena in ionic crystals. Zeitschrift Für Physik A, 1972, 251, 289-299. | 0.9 | 5 |
| 60 | 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 |
| 61 | On the Ultimate Distribution of Impurity in the Zone Melting Process. Physica Status Solidi (B): Basic Research, 1964, 5, 207-212. | 0.7 | 4 |
| 62 | Index of refraction of the glassy AsxTe100â^'x system. Solar Energy Materials and Solar Cells, 1982, 8, 33-39. | 0.4 | 4 |
| 63 | 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 |
| 64 | Theory of photoexcitation by ultrafast light pulses in disordered solids. Journal of Non-Crystalline Solids, 1987, 90, 49-52. | 1.5 | 4 |
| 65 | Transient Quasiparticle Dynamics. Physica Status Solidi (B): Basic Research, 1998, 206, 341-348. | 0.7 | 4 |
| 66 | Surface green function method in surface studies. Surface Science, 1975, 47, 495-500. | 0.8 | 3 |
| 67 | The analytical deconvolution technique for the green function recursion expansion. Physica Status Solidi (B): Basic Research, 1986, 134, 659-669. | 0.7 | 3 |
| 68 | Fast transients in mesoscopic systems. , 2011, , . | | 3 |
| 69 | Polaron Effect on the Optical Absorption Edge of Semiconductors. Physica Status Solidi (B): Basic Research, 1967, 19, K39. | 0.7 | 2 |
| 70 | The composition dependence of activation energy in the Asx–Te100–x and As2Te3 + Tlx glassy systems. Physica Status Solidi A, 1978, 47, 271-276. | 1.7 | 2 |
| 71 | Electronic States on Point Defects in Glassy As ₂ Se ₃ . Physica Status Solidi (B): Basic Research, 1980, 100, K67. | 0.7 | 2 |
| 72 | Theory of chemisorption. European Physical Journal D, 1985, 35, 1163-1179. | 0.4 | 2 |

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|----|--|-----|-----------|
| 73 | Vibronic Koster-Slater impurity: Exactly soluble model of deep levels in semiconductors. Physical Review B, 1992, 46, 9408-9418. | 1.1 | 2 |
| 74 | Interband quantum kinetics with static disorder scattering. Zeitschrift Für Physik B-Condensed Matter, 1997, 103, 33-40. | 1.1 | 2 |
| 75 | 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 |
| 76 | Field emission from the vibronic Koster-Slater impurity. Physical Review B, 1994, 49, 5353-5361. | 1.1 | 1 |
| 77 | Optically Induced Gaps in Disordered Semiconductors. Acta Physica Polonica A, 1996, 90, 837-842. | 0.2 | 1 |
| 78 | Böer'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 |
| 79 | 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 |
| 80 | 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 |
| 81 | The Electronic Structure of Polysllane Alloys. Physica Status Solidi (B): Basic Research, 1986, 136, K113. | 0.7 | 0 |
| 82 | The electronic structure of a-SiHx alloys. Journal of Non-Crystalline Solids, 1987, 90, 99-102. | 1.5 | 0 |
| 83 | Electronic structure of 5d transition metal impurities in amorphous silicon. Journal of Non-Crystalline Solids, 1987, 97-98, 491-494. | 1.5 | 0 |
| 84 | Jan Tauc 1922–2010. Journal of Non-Crystalline Solids, 2012, 358, 1944-1945. | 1.5 | 0 |
| 85 | Electron Systems Out of Equilibrium: Nonequilibrium Green's Function Approach. , 2014, , 83-192. | | 0 |
| 86 | Quasiparticle Formation and Decay in Pulsed Photoexcitation of Disordered Semiconductors. Acta Physica Polonica A, 1997, 92, 809-814. | 0.2 | 0 |