

Vittorio Cataudella

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

149
papers

2,678
citations

27
h-index

44
g-index

156
ext. papers

3,083
ext. citations

3.3
avg, IF

4.6
L-index

#	Paper	IF	Citations
149	A study of events with photoelectric emission in the DarkSide-50 liquid argon Time Projection Chamber. <i>Astroparticle Physics</i> , 2022 , 140, 102704	2.4	0
148	Sensitivity of future liquid argon dark matter search experiments to core-collapse supernova neutrinos. <i>Journal of Cosmology and Astroparticle Physics</i> , 2021 , 2021, 043	6.4	2
147	Ground-state features and spectral properties of large polaron liquids from low to high charge densities. <i>Physical Review B</i> , 2021 , 103,	3.3	2
146	Quantum phase transition of many interacting spins coupled to a bosonic bath: Static and dynamical properties. <i>Physical Review B</i> , 2021 , 104,	3.3	1
145	Memetic algorithms for mapping p-body interacting systems in effective quantum 2-body Hamiltonians. <i>Applied Soft Computing Journal</i> , 2021 , 110, 107634	7.5	0
144	Quantum phase transitions in the spin-boson model: Monte Carlo method versus variational approach à la Feynman. <i>Physical Review B</i> , 2020 , 101,	3.3	5
143	Strain and electric field control of the orbital and spin order in multiferroic (hbox {BiMnO}_3). <i>European Physical Journal Plus</i> , 2020 , 135, 1	3.1	1
142	Design and construction of a new detector to measure ultra-low radioactive-isotope contamination of argon. <i>Journal of Instrumentation</i> , 2020 , 15, P02024-P02024	1	10
141	Evolution of topological superconductivity by orbital-selective confinement in oxide nanowires. <i>Physical Review B</i> , 2019 , 100,	3.3	6
140	Unveiling Signatures of Topological Phases in Open Kitaev Chains and Ladders. <i>Nanomaterials</i> , 2019 , 9,	5.4	9
139	Two-channel model for optical conductivity of high-mobility organic crystals. <i>Europhysics Letters</i> , 2019 , 125, 47002	1.6	3
138	Dissipative dynamics of a driven qubit: Interplay between nonadiabatic dynamics and noise effects from the weak to strong coupling regime. <i>Physical Review B</i> , 2019 , 100,	3.3	5
137	Measurement of the ion fraction and mobility of ^{218}Po produced in ^{222}Rn decays in liquid argon. <i>Journal of Instrumentation</i> , 2019 , 14, P11018-P11018	1	
136	An evolutionary strategy for finding effective quantum 2-body Hamiltonians of p-body interacting systems. <i>Quantum Machine Intelligence</i> , 2019 , 1, 113-122	3.4	4
135	Optical signatures of exciton polarons from diagrammatic Monte Carlo. <i>Physical Review B</i> , 2018 , 97,	3.3	2
134	DarkSide-20k: A 20 tonne two-phase LAr TPC for direct dark matter detection at LNGS. <i>European Physical Journal Plus</i> , 2018 , 133, 1	3.1	160
133	Low-Mass Dark Matter Search with the DarkSide-50 Experiment. <i>Physical Review Letters</i> , 2018 , 121, 081307	3.7	169

132	Beyond the Born-Markov approximation: Dissipative dynamics of a single qubit. <i>Physical Review B</i> , 2018 , 98,	3.3	6
131	Electron-phonon coupling in the undoped cuprate YBa2Cu3O6 estimated from Raman and optical conductivity spectra. <i>Physical Review B</i> , 2018 , 98,	3.3	6
130	Constraints on Sub-GeV Dark-Matter-Electron Scattering from the DarkSide-50 Experiment. <i>Physical Review Letters</i> , 2018 , 121, 111303	7.4	85
129	Simulation of argon response and light detection in the DarkSide-50 dual phase TPC. <i>Journal of Instrumentation</i> , 2017 , 12, P10015-P10015	1	23
128	Cryogenic Characterization of FBK RGB-HD SiPMs. <i>Journal of Instrumentation</i> , 2017 , 12, P09030-P09030	1	9
127	Directional modulation of electron-ion pairs recombination in liquid argon. <i>Journal of Instrumentation</i> , 2017 , 12, P12002-P12002	1	5
126	Plasmons in topological insulator cylindrical nanowires. <i>Physical Review B</i> , 2017 , 95,	3.3	3
125	The electronics, trigger and data acquisition system for the liquid argon time projection chamber of the DarkSide-50 search for dark matter. <i>Journal of Instrumentation</i> , 2017 , 12, P12011-P12011	1	7
124	Thermoelectric efficiency of molecular junctions. <i>Journal of Physics Condensed Matter</i> , 2016 , 28, 373001	1.8	13
123	Quantum interference effects in Bi2Se3 topological insulator nanowires with variable cross-section lengths. <i>European Physical Journal B</i> , 2016 , 89, 1	1.2	8
122	Charge and heat transport in soft nanosystems in the presence of time-dependent perturbations. <i>Beilstein Journal of Nanotechnology</i> , 2016 , 7, 439-64	3	2
121	Crossover from super- to subdiffusive motion and memory effects in crystalline organic semiconductors. <i>Physical Review Letters</i> , 2015 , 114, 086601	7.4	20
120	Mobility of Holstein polaron at finite temperature: an unbiased approach. <i>Physical Review Letters</i> , 2015 , 114, 146401	7.4	34
119	Interplay between electron-electron and electron-phonon interactions on the thermoelectric properties of molecular junctions. <i>New Journal of Physics</i> , 2015 , 17, 083050	2.9	6
118	Witnessing the formation and relaxation of dressed quasi-particles in a strongly correlated electron system. <i>Nature Communications</i> , 2014 , 5, 5112	17.4	52
117	Noise-assisted charge pump in elastically deformable molecular junctions. <i>Journal of Physics Condensed Matter</i> , 2014 , 26, 365301	1.8	9
116	The Effects of Different Electron-Phonon Couplings on the Spectral and Transport Properties of Small Molecule Single-Crystal Organic Semiconductors. <i>Electronics (Switzerland)</i> , 2014 , 3, 165-189	2.6	5
115	Interplay of charge, spin, and lattice degrees of freedom in the spectral properties of the one-dimensional Hubbard-Holstein model. <i>Physical Review B</i> , 2014 , 90,	3.3	5

114	Electron-vibration effects on the thermoelectric efficiency of molecular junctions. <i>Physical Review B</i> , 2014 , 90,	3.3	21
113	Alternative representation of the Kubo formula for the optical conductivity: A shortcut to transport properties. <i>Physical Review B</i> , 2014 , 90,	3.3	8
112	Ubiquitous long-range antiferromagnetic coupling across the interface between superconducting and ferromagnetic oxides. <i>Nature Communications</i> , 2014 , 5, 5626	17.4	26
111	Magnetic effects on nonlinear mechanical properties of a suspended carbon nanotube. <i>Physical Review B</i> , 2013 , 87,	3.3	12
110	Single-parameter charge pumping in carbon nanotube resonators at low frequency. <i>Europhysics Letters</i> , 2013 , 103, 58001	1.6	8
109	Optical conductivity of polarons: Double phonon cloud concept verified by diagrammatic Monte Carlo simulations. <i>Physical Review B</i> , 2012 , 85,	3.3	20
108	Quantum dynamics of the Hubbard-Holstein model in equilibrium and nonequilibrium: application to pump-probe phenomena. <i>Physical Review Letters</i> , 2012 , 109, 176402	7.4	54
107	Interplay between electron-phonon coupling and disorder strength on the transport properties of organic semiconductors. <i>Physical Review B</i> , 2012 , 85,	3.3	7
106	Bond Stretching Phonon Softening of Underdoped Copper-Oxide Superconductors. <i>Journal of Superconductivity and Novel Magnetism</i> , 2012 , 25, 1303-1306	1.5	2
105	Bipolaron formation in organic semiconductors at the interface with dielectric gates. <i>Europhysics Letters</i> , 2012 , 98, 47004	1.6	3
104	Probing nonlinear mechanical effects through electronic currents: The case of a nanomechanical resonator acting as an electronic transistor. <i>Physical Review B</i> , 2012 , 86,	3.3	21
103	Effects of electron coupling to intramolecular and intermolecular vibrational modes on the transport properties of single-crystal organic semiconductors. <i>Physical Review B</i> , 2011 , 84,	3.3	12
102	Transport properties and optical conductivity of the adiabatic Su-Schrieffer-Heeger model: A showcase study for rubrene-based field effect transistors. <i>Physical Review B</i> , 2011 , 83,	3.3	30
101	Electronic transport within a quasi-two-dimensional model for rubrene single-crystal field effect transistors. <i>Physical Review B</i> , 2011 , 84,	3.3	10
100	Spectral, optical, and transport properties of the adiabatic anisotropic Holstein model: Application to slightly doped organic semiconductors. <i>Physical Review B</i> , 2011 , 83,	3.3	12
99	Electron-lattice and strain effects in manganite heterostructures: The case of a single interface. <i>Physical Review B</i> , 2011 , 83,	3.3	4
98	Stochastic dynamics for a single vibrational mode in molecular junctions. <i>Physical Review B</i> , 2011 , 83,	3.3	27
97	Interface polaron formation in organic field-effect transistors. <i>Physical Review B</i> , 2010 , 82,	3.3	3

96	Interplay between charge-lattice interaction and strong electron correlations in cuprates: Phonon anomaly and spectral kinks. <i>Europhysics Letters</i> , 2010 , 91, 47007	1.6	8
95	Sharp transition for single polarons in the one-dimensional Su-Schrieffer-Heeger model. <i>Physical Review Letters</i> , 2010 , 105, 266605	7.4	71
94	Multiple double-exchange mechanism by Mn ²⁺ doping in manganite compounds. <i>Physical Review B</i> , 2010 , 82,	3.3	31
93	Optical conductivity of a doped Mott insulator: The interplay between correlation and electron-phonon interaction. <i>Physical Review B</i> , 2009 , 80,	3.3	15
92	Evolution of magnetic phases and orbital occupation in (SrMnO ₃) _n /(LaMnO ₃) _{2n} superlattices. <i>Physical Review B</i> , 2009 , 80,	3.3	59
91	Low-temperature magnetic and transport anisotropy in manganite thin films. <i>Journal of Physics Condensed Matter</i> , 2009 , 21, 456002	1.8	1
90	Evidences of the ChargeLattice Interaction in Undoped Cuprates. <i>Journal of Superconductivity and Novel Magnetism</i> , 2009 , 22, 17-20	1.5	4
89	Electrical resistivity tomography and statistical analysis in landslide modelling: A conceptual approach. <i>Journal of Applied Geophysics</i> , 2009 , 68, 151-158	1.7	38
88	Tuning the metal-insulator transitions of (SrMnO ₃) _n /(LaMnO ₃) _{2n} superlattices: Role of interfaces. <i>Physical Review B</i> , 2009 , 79,	3.3	34
87	Localization-delocalization transition of a polaron near an impurity. <i>Physical Review B</i> , 2009 , 79,	3.3	23
86	A model of volcanic magma transport by fracturing stress mechanisms. <i>Geophysical Research Letters</i> , 2008 , 35,	4.9	5
85	Charge dynamics of doped holes in high T _c cuprate superconductors: a clue from optical conductivity. <i>Physical Review Letters</i> , 2008 , 100, 166401	7.4	76
84	Temperature dependence of the angle resolved photoemission spectra in the undoped cuprates: self-consistent approach to the t-J Holstein model. <i>Physical Review Letters</i> , 2007 , 99, 226402	7.4	36
83	Nonlocal composite spin-lattice polarons in high temperature superconductors. <i>Physical Review Letters</i> , 2007 , 99, 146405	7.4	20
82	Phase separation and disorder in half metallic ferromagnetic manganite thin films: A theoretical study looking forward low noise nano-devices. <i>Progress in Solid State Chemistry</i> , 2007 , 35, 387-396	8	2
81	Rashba quantum wire: exact solution and ballistic transport. <i>Journal of Physics Condensed Matter</i> , 2007 , 19, 186227	1.8	41
80	Direct observation of spectroscopic inhomogeneities on La _{0.7} Sr _{0.3} MnO ₃ thin films by scanning tunnelling spectroscopy. <i>Journal of Physics Condensed Matter</i> , 2006 , 18, 8195-8204	1.8	6
79	Phase diagram of the Bose-Hubbard model with T ₃ symmetry. <i>Physical Review B</i> , 2006 , 73,	3.3	47

78	Finite driving rate and anisotropy effects in landslide modeling. <i>Physical Review E</i> , 2006 , 73, 026123	2.4	19
77	4e-condensation in a fully frustrated Josephson junction diamond chain. <i>Physical Review B</i> , 2006 , 73,	3.3	15
76	Validity of the Franck-Condon principle in the optical spectroscopy: optical conductivity of the Fröhlich polaron. <i>Physical Review Letters</i> , 2006 , 96, 136405	7.4	36
75	A cellular automaton for the factor of safety field in landslides modeling. <i>Geophysical Research Letters</i> , 2006 , 33, n/a-n/a	4.9	27
74	Ballistic transport in one-dimensional loops with Rashba and Dresselhaus spin-orbit coupling. <i>Physical Review B</i> , 2006 , 73,	3.3	31
73	Transport properties in manganite thin films. <i>Physical Review B</i> , 2005 , 71,	3.3	47
72	Signatures of polaron formation in systems with local and non-local electron-phonon couplings. <i>European Physical Journal B</i> , 2005 , 44, 415-421	1.2	5
71	Intrinsic Electric Transport in CMR Thin-Films. <i>Journal of Superconductivity and Novel Magnetism</i> , 2005 , 18, 719-722		5
70	Effects of electron-phonon coupling range on the polaron formation. <i>Physical Review B</i> , 2005 , 71,	3.3	4
69	Static and dynamic polaron features in a coherent-state basis. <i>Physical Review B</i> , 2005 , 72,	3.3	27
68	Rashba effect in quantum networks. <i>Physical Review B</i> , 2005 , 72,	3.3	39
67	Effects of electron-phonon coupling near and within the insulating Mott phase. <i>Physical Review B</i> , 2005 , 71,	3.3	12
66	Polaron features for long-range electron-phonon interaction. <i>Journal of Physics Condensed Matter</i> , 2004 , 16, 1593-1601	1.8	17
65	Polaron formation for nonlocal electron-phonon coupling: A variational wave-function study. <i>Physical Review B</i> , 2004 , 69,	3.3	21
64	Variational approach to the optimized phonon technique for electron-phonon problems. <i>Physical Review B</i> , 2004 , 70,	3.3	20
63	Rashba-effect-induced localization in quantum networks. <i>Physical Review Letters</i> , 2004 , 93, 056802	7.4	52
62	Spin polarization of electrons with Rashba double-refraction. <i>Journal of Physics Condensed Matter</i> , 2004 , 16, 9143-9154	1.8	45
61	Glassy dynamics of Josephson arrays on a dice lattice. <i>Europhysics Letters</i> , 2003 , 61, 341-347	1.6	17

60	Ground state features of the Fröhlich model. <i>European Physical Journal B</i> , 2003 , 36, 65-73	1.2	9
59	Conductance of a large point contact with Rashba effect. <i>European Physical Journal B</i> , 2003 , 36, 365-375	1.2	34
58	Electron gas with polaronic effects: beyond the mean-field theory. <i>Physica Status Solidi (B): Basic Research</i> , 2003 , 237, 173-185	1.3	6
57	Lattice effects in manganites. <i>Physica Status Solidi (B): Basic Research</i> , 2003 , 237, 215-236	1.3	1
56	Modeling of strain effects in manganite films. <i>Physical Review B</i> , 2003 , 68,	3.3	47
55	Infrared conductivity of a one-dimensional charge-ordered state: Quantum lattice effects. <i>Physical Review B</i> , 2003 , 67,	3.3	10
54	Infrared absorption of the charge-ordering phase: Lattice effects. <i>Physical Review B</i> , 2003 , 67,	3.3	8
53	CDW Instability and Infrared Absorption of an Interacting Large Polaron Gas 2002 , 175-182		
52	Effects of magnetic field and isotopic substitution upon the infrared absorption of manganites. <i>Physical Review B</i> , 2002 , 66,	3.3	6
51	Comment on "Polarons in carbon nanotubes". <i>Physical Review Letters</i> , 2002 , 89, 049701; discussion 049702	3.3	10
50	Crossover from large to small bipolarons. <i>Journal of Physics Condensed Matter</i> , 2001 , 13, 1499-1515	1.8	3
49	Polaron and bipolaron formation in the Hubbard-Holstein model: Role of next-nearest-neighbor electron hopping. <i>Physical Review B</i> , 2001 , 64,	3.3	10
48	Spectral properties and infrared absorption in manganites. <i>Physical Review B</i> , 2001 , 64,	3.3	20
47	Coexistence of large and small polarons in manganites. <i>Physical Review B</i> , 2001 , 63,	3.3	15
46	How the next-nearest-neighbor interactions change the phase diagram of a fully frustrated XY model?. <i>Physica B: Condensed Matter</i> , 2000 , 284-288, 431-432	2.8	2
45	Internal vibrational structure of the three-dimensional large bipolaron. <i>European Physical Journal B</i> , 2000 , 18, 67-75	1.2	21
44	Fully frustrated XY model with next-nearest-neighbor interaction. <i>Physical Review B</i> , 2000 , 62, R9287-R9290	3.3	21
43	Polaron features of the one-dimensional Holstein molecular crystal model. <i>Physical Review B</i> , 2000 , 62, 1496-1499	3.3	27

42	COEXISTENCE OF CHARGES TRAPPED IN LOCAL LATTICE DISTORTIONS AND FREE CARRIERS IN CUPRATES. <i>International Journal of Modern Physics B</i> , 2000 , 14, 3398-3405	1.1	8
41	Cluster formulation of spin glasses and the frustrated percolation model: statics and dynamics. <i>Journal of Physics A</i> , 1999 , 32, 4817-4832		4
40	Variational approach for the Holstein molecular-crystal model. <i>Physical Review B</i> , 1999 , 60, 15163-15172	3.3	35
39	Coexistence of large and small polarons and relative optical infrared properties in perovskitic materials. <i>Physica B: Condensed Matter</i> , 1999 , 265, 146-149	2.8	1
38	Normal state properties of an interacting large polaron gas. <i>European Physical Journal B</i> , 1999 , 8, 339-351	1.2	21
37	Optical properties of an interacting large polaron gas. <i>European Physical Journal B</i> , 1999 , 12, 17-22	1.2	13
36	The boson-fermion model in the mean-field approximation. <i>Physica C: Superconductivity and Its Applications</i> , 1998 , 303, 273-286	1.3	8
35	Coexistence of large and small mass polarons. <i>Europhysics Letters</i> , 1998 , 41, 309-314	1.6	16
34	Invaded cluster dynamics for frustrated models. <i>Physical Review E</i> , 1998 , 57, 88-93	2.4	12
33	Effect of weak disorder in the fully frustrated XY model. <i>Europhysics Letters</i> , 1998 , 44, 478-483	1.6	5
32	Large polarons, bipolarons and Boson-Fermion model of superconductivity. <i>Nuovo Cimento Della Societa Italiana Di Fisica D - Condensed Matter, Atomic, Molecular and Chemical Physics, Biophysics</i> , 1997 , 19, 1357-1362		1
31	Polaron Theory in Wide and Narrow Electron Bands. <i>Physica Status Solidi (B): Basic Research</i> , 1997 , 203, 411-426	1.3	8
30	On the boson-fermion model of superconductivity. <i>Nuovo Cimento Della Societa Italiana Di Fisica D - Condensed Matter, Atomic, Molecular and Chemical Physics, Biophysics</i> , 1996 , 18, 1307-1315		1
29	AC conductivity of porous silicon: A fractal and surface transport mechanism?. <i>Nuovo Cimento Della Societa Italiana Di Fisica D - Condensed Matter, Atomic, Molecular and Chemical Physics, Biophysics</i> , 1996 , 18, 1187-1196		10
28	Vortex fluctuations in BSCCO and YBCO. <i>Physica C: Superconductivity and Its Applications</i> , 1996 , 260, 41-51	1.3	14
27	Efficient cluster dynamics for the fully frustrated XY model. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1996 , 233, 293-306	3.3	9
26	Plasmapolaron selfenergy and effective mass in uniaxial polar crystals. <i>Physica Status Solidi (B): Basic Research</i> , 1996 , 197, 381-397	1.3	1
25	Electron-screening effects on the self-trapping of polarons. <i>Physical Review B</i> , 1996 , 53, 13497-13502	3.3	10

24	Percolation and cluster Monte Carlo dynamics for spin models. <i>Physical Review E</i> , 1996 , 54, 175-189	2.4	21
23	Polaron and bipolaron coexistence in high T _c superconductivity. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1995 , 196, 359-364	2.3	17
22	Linear screening effects on large bipolarons. <i>Nuovo Cimento Della Societa Italiana Di Fisica D - Condensed Matter, Atomic, Molecular and Chemical Physics, Biophysics</i> , 1995 , 17, 143-154		1
21	Dynamical screening of excitons in a semiconductor electron-hole plasma. <i>Journal of Physics Condensed Matter</i> , 1994 , 6, 9335-9348	1.8	8
20	Generalized percolation models for frustrated spin systems. <i>Nuovo Cimento Della Societa Italiana Di Fisica D - Condensed Matter, Atomic, Molecular and Chemical Physics, Biophysics</i> , 1994 , 16, 1259-1264		6
19	Polaron and bipolaron coexistence in high T _c superconductivity. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1994 , 196, 359-364	2.3	
18	Critical clusters and efficient dynamics for frustrated spin models. <i>Physical Review Letters</i> , 1994 , 72, 1541-1544	2.7	
17	Phonon-plasmon cooperative effects in the dilute large-bipolaron gas: A possible mechanism for high-T _c superconductivity. <i>Physical Review B</i> , 1993 , 48, 12966-12978	3.3	26
16	Cluster formulation for frustrated spin models. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1993 , 192, 167-174	3.3	20
15	Two-dimensional vortices in layered superconductors. <i>Physica C: Superconductivity and Its Applications</i> , 1993 , 207, 193-202	1.3	5
14	Mobility of bipolarons and high-T _c superconductivity. <i>Nuovo Cimento Della Societa Italiana Di Fisica D - Condensed Matter, Atomic, Molecular and Chemical Physics, Biophysics</i> , 1993 , 15, 1035-1039		3
13	Plasmon Effects on Fröhlich Bipolaron Binding Energies. <i>Europhysics Letters</i> , 1992 , 17, 709-714	1.6	19
12	Percolation transition in systems with frustration. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1992 , 183, 249-254	3.3	18
11	Binding Energies, Effective Masses and Screenings Effects of Fröhlich Bipolarons. <i>Physica Scripta</i> , 1991 , T39, 71-76	2.6	17
10	Simple estimates for vortex fluctuations in connection with high-T _c superconductors. <i>Physica C: Superconductivity and Its Applications</i> , 1990 , 166, 442-450	1.3	76
9	Renormalisation equations for the two-dimensional Coulomb gas: inclusion of the single-particle charge distribution and comparison with Monte Carlo simulations. <i>Journal of Physics Condensed Matter</i> , 1990 , 2, 2345-2354	1.8	7
8	Comment on the one band Hubbard model for the superconducting Cu oxides. <i>Physica Scripta</i> , 1989 , 40, 122-123	2.6	1
7	Intersubband excitations in a periodic array of two-dimensional stripes. <i>Physical Review B</i> , 1988 , 38, 7828-7831	3.6	6

- 6 Asymptotic localization of plasmons in a periodic array of stripes. *Physical Review B*, **1988**, 38, 1828-1834, 3.3 20
- 5 The effect of a phenomenological relaxation time on the magnetoplasmons in a two-dimensional inhomogeneous electron gas. *Physica Scripta*, **1988**, 38, 753-757 2.6
- 4 Magnetoplasmons in a two-dimensional electron gas: Strip geometry. *Physical Review B*, **1987**, 35, 7443-7449, 3.4 28
- 3 Edge plasmons on a non planar surface. *Solid State Communications*, **1986**, 58, 857-860 1.6 2
- 2 Electrostatic edge modes for a hyperbolic dielectric wedge: Analytical solutions. *Solid State Communications*, **1986**, 59, 267-270 1.6 3
- 1 On the analytical structure of the Lindhard dielectric function. *Physics Letters, Section A: General, Atomic and Solid State Physics*, **1982**, 92, 359-362 2.3 3