

Giovanni Battista Bachelet

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.

51
papers

5,759
citations

28
h-index

59
g-index

59
ext. papers

5,967
ext. citations

3.1
avg. IF

5.17
L-index

#	Paper	IF	Citations
51	Superconductivity in sodalite-like yttrium hydride clathrates. <i>Physical Review B</i> , 2019 , 99,	3.3	54
50	Viewpoint: the road to room-temperature conventional superconductivity. <i>Journal of Physics Condensed Matter</i> , 2019 , 31, 234002	1.8	19
49	Absence of superconductivity in iron polyhydrides at high pressures. <i>Physical Review B</i> , 2018 , 97,	3.3	21
48	Electron-phonon interaction in graphite intercalation compounds. <i>Physical Review B</i> , 2007 , 76,	3.3	55
47	Unresolved problems in superconductivity of CaC6. <i>Physica C: Superconductivity and Its Applications</i> , 2007 , 460-462, 116-120	1.3	35
46	Local-spin-density functional for multideterminant density functional theory. <i>Physical Review B</i> , 2006 , 73,	3.3	88
45	Electrons and phonons in the ternary alloy CaAl ₂ Si ₆ as a function of composition. <i>Physical Review B</i> , 2005 , 72,	3.3	52
44	Pair-distribution functions of the two-dimensional electron gas. <i>Physical Review B</i> , 2004 , 70,	3.3	47
43	Local density functional for the short-range part of the electron-electron interaction. <i>Physical Review B</i> , 2004 , 70,	3.3	27
42	Small Fermi energy effects in MgB ₂ and related compounds. <i>Physica C: Superconductivity and Its Applications</i> , 2004 , 408-410, 332-333	1.3	1
41	NONADIABATIC EFFECTS AND THE ROLE OF SMALL FERMI ENERGY IN MgB ₂ . <i>International Journal of Modern Physics B</i> , 2003 , 17, 560-566	1.1	1
40	The origin of phonon anharmonicity in MgB ₂ and related compounds. <i>Superconductor Science and Technology</i> , 2003 , 16, 143-146	3.1	3
39	Two-dimensional electron gas: Correlation energy versus density and spin polarization. <i>International Journal of Quantum Chemistry</i> , 2003 , 91, 126-130	2.1	13
38	Small Fermi energy and phonon anharmonicity in MgB ₂ and related compounds. <i>Physical Review B</i> , 2002 , 65,	3.3	52
37	Correlation energy and spin polarization in the 2D electron gas. <i>Physical Review Letters</i> , 2002 , 88, 256601	7.4	340
36	Correlation energy, pair-distribution functions and static structure factors of jellium. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2000 , 280, 199-205	3.3	6
35	Analytic static structure factors and pair-correlation functions for the unpolarized homogeneous electron gas. <i>Physical Review B</i> , 2000 , 61, 7353-7363	3.3	143

34	Phase separation in the two-dimensional Hubbard model: A fixed-node quantum Monte Carlo study. <i>Physical Review B</i> , 1998 , 58, R14685-R14688	3.3	29
33	Variational quantum Monte Carlo calculation of the cohesive properties of cubic boron nitride. <i>Physical Review B</i> , 1997 , 56, 12201-12210	3.3	25
32	Alkali-metal plasmons, pseudopotentials, and optical sum rules. <i>Physical Review B</i> , 1997 , 55, 13835-13843	3.3	5
31	Chemical hardness, linear response, and pseudopotential transferability. <i>Physical Review B</i> , 1995 , 52, 11793-11804	3.3	58
30	Local norm-conserving pseudo-Hamiltonians. <i>Physical Review A</i> , 1995 , 52, 236-257	2.6	47
29	Pseudojellium model with an application to lithium clusters. <i>Physical Review B</i> , 1993 , 48, 14708-14711	3.3	42
28	Pseudopotential Portability in the QMC Framework. <i>Materials Research Society Symposia Proceedings</i> , 1992 , 291, 291		
27	Pseudopotentials and physical ions. <i>Physical Review B</i> , 1991 , 44, 8486-8495	3.3	11
26	Role of forms of exchange and correlation used in generating pseudopotentials. <i>Physical Review B</i> , 1990 , 42, 5057-5066	3.3	26
25	Novel pseudo-Hamiltonian for quantum Monte Carlo simulations. <i>Physical Review Letters</i> , 1989 , 62, 2088-2091	3.3	124
24	Density functional theory and first-principles pseudopotentials: two important tools in solid-state theory 1989 , 119-160		2
23	Reply to "Comment on 'Pseudopotentials that work: From H to Pu' ". <i>Physical Review B</i> , 1988 , 37, 4798	3.3	2
22	Lattice Defects in Semiconductors: Towards a Finite-Temperature Theory. <i>Physica Scripta</i> , 1987 , T19A, 311-319	2.6	5
21	Conduction Band Energy of Excess Electrons in Liquid Argon. <i>Europhysics Letters</i> , 1986 , 1, 455-460	1.6	28
20	Long range order in Al _{0.5} Ga _{0.5} As: Local density calculation of the electronic structure. <i>Solid State Communications</i> , 1985 , 56, 125-126	1.6	25
19	Relativistic and core-relaxation effects on the energy bands of gallium arsenide and germanium. <i>Physical Review B</i> , 1985 , 31, 879-887	3.3	333
18	Total-energy gradients and lattice distortions at point defects in semiconductors. <i>Physical Review B</i> , 1985 , 31, 6541-6551	3.3	120
17	Green function approach to realistic calculations of the electronic structure of semiconductor interfaces. <i>Surface Science</i> , 1985 , 152-153, 1178-1184	1.8	1

16	Band-structure calculation for GaAs and Si beyond the local-density approximation. <i>Physical Review B</i> , 1985 , 31, 3680-3688	3-3	35
15	Electron-core-hole interactions at surfaces: An exactly soluble model. <i>Surface Science</i> , 1983 , 129, 447-481.8		6
14	Surface and size effects on the electronic states of small metallic clusters: a model calculation. <i>Journal of Physics C: Solid State Physics</i> , 1983 , 16, 4305-4320		29
13	Nonlocal exchange and correlation and semiconductor band structure. <i>Physical Review B</i> , 1983 , 28, 6157-6160	3-3	41
12	Bonding geometries of Cl on Si{111} and Ge{111}. <i>Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , 1983 , 1, 726		9
11	Structural determination of Cl chemisorption on Si{111} and Ge{111} by total-energy minimization. <i>Physical Review B</i> , 1983 , 28, 2302-2304	3-3	55
10	AsGa antisite defect in GaAs. <i>Physical Review B</i> , 1983 , 27, 2545-2547	3-3	73
9	Tractable Approach for Calculating Lattice Distortions around Simple Defects in Semiconductors: Application to the Single Donor Ge in GaP. <i>Physical Review Letters</i> , 1982 , 49, 1765-1768	7-4	53
8	Comment on Simulation of high-field transport in GaAs using a Monte Carlo method and pseudopotential band structures and on Band-structure dependent transport and impact ionization in GaAs. <i>Journal of Applied Physics</i> , 1982 , 53, 3324-3326	2-5	19
7	Pseudopotentials that work: From H to Pu. <i>Physical Review B</i> , 1982 , 26, 4199-4228	3-3	2984
6	Relativistic norm-conserving pseudopotentials. <i>Physical Review B</i> , 1982 , 25, 2103-2108	3-3	201
5	Static Atomic Polarizabilities from Norm-Conserving Pseudopotentials. <i>Physica Status Solidi (B): Basic Research</i> , 1982 , 110, 313-322	1-3	3
4	Structural-energy calculations based on norm-conserving pseudopotentials and localized Gaussian orbitals. <i>Physical Review B</i> , 1981 , 24, 4745-4752	3-3	150
3	Defects in diamond: The unrelaxed vacancy and substitutional nitrogen. <i>Physical Review B</i> , 1981 , 24, 4736-4744	3-3	102
2	Self-consistent calculations of the electronic structure for ideal Ga and As vacancies in GaAs. <i>Physical Review B</i> , 1981 , 24, 915-925	3-3	67
1	Theory of exciton effects in semiconductor surface spectroscopy. <i>Journal of Vacuum Science and Technology</i> , 1979 , 16, 1370-1373		22