

Jos Lus Martins

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92
papers

20,618
citations

42
h-index

93
g-index

93
ext. papers

21,531
ext. citations

3.7
avg. IF

6.7
L-index

#	Paper	IF	Citations
92	Efficient pseudopotentials for plane-wave calculations. <i>Physical Review B</i> , 1991 , 43, 1993-2006	3.3	13225
91	Efficient pseudopotentials for plane-wave calculations. II. Operators for fast iterative diagonalization. <i>Physical Review B</i> , 1991 , 43, 8861-8869	3.3	584
90	Electronic structure of solid C60: Experiment and theory. <i>Physical Review Letters</i> , 1991 , 66, 1741-1744	7.4	548
89	A straightforward method for generating soft transferable pseudopotentials. <i>Solid State Communications</i> , 1990 , 74, 613-616	1.6	403
88	Bond lengths around isovalent impurities and in semiconductor solid solutions. <i>Physical Review B</i> , 1984 , 30, 6217-6220	3.3	395
87	Electronic and structural properties of sodium clusters. <i>Physical Review B</i> , 1985 , 31, 1804-1816	3.3	347
86	Atomic structure and ordering in semiconductor alloys. <i>Physical Review B</i> , 1985 , 31, 2561-2564	3.3	347
85	Electronic States of KxC60: Insulating, Metallic, and Superconducting Character. <i>Science</i> , 1991 , 252, 1417-1419	39.3	266
84	Structural and electronic properties of C60. <i>Physical Review B</i> , 1992 , 46, 1754-1765	3.3	253
83	Ab initio molecular dynamics with variable cell shape: Application to MgSiO3. <i>Physical Review Letters</i> , 1993 , 70, 3947-3950	7.4	247
82	Stability of ordered bulk and epitaxial semiconductor alloys. <i>Physical Review Letters</i> , 1986 , 56, 1400-1403	7.4	224
81	Variational spherical model of small metallic particles. <i>Surface Science</i> , 1981 , 106, 265-271	1.8	183
80	Energetics of interplanar binding in graphite. <i>Physical Review B</i> , 1992 , 46, 7185-7188	3.3	181
79	Electronic properties of alkali trimers. <i>Journal of Chemical Physics</i> , 1983 , 78, 5646-5655	3.9	172
78	Energy versus free-energy conservation in first-principles molecular dynamics. <i>Physical Review B</i> , 1992 , 45, 11372-11374	3.3	151
77	Diagonalization of large matrices in pseudopotential band-structure calculations: Dual-space formalism. <i>Physical Review B</i> , 1988 , 37, 6134-6138	3.3	147
76	Analysis of occupied and empty electronic states of C60. <i>Chemical Physics Letters</i> , 1991 , 180, 457-460	2.5	137

75	Theory of high-pressure phases of hydrogen. <i>Physical Review Letters</i> , 1989 , 62, 1150-1153	7.4	137
74	Electronic states of solid C60: Symmetries and photoionization cross sections. <i>Physical Review B</i> , 1991 , 44, 1962-1965	3.3	135
73	Pseudopotential plane-wave calculations for ZnS. <i>Physical Review B</i> , 1991 , 43, 2213-2217	3.3	134
72	Band dispersion and empty electronic states in solid C60: Inverse photoemission and theory. <i>Physical Review B</i> , 1991 , 44, 1966-1969	3.3	134
71	Metric tensor as the dynamical variable for variable-cell-shape molecular dynamics. <i>Physical Review B</i> , 1997 , 55, 8733-8742	3.3	128
70	Simulation of Si clusters via Langevin molecular dynamics with quantum forces. <i>Physical Review Letters</i> , 1992 , 68, 2956-2959	7.4	110
69	Structural and electronic properties of KnC60. <i>Physical Review B</i> , 1992 , 46, 1766-1772	3.3	102
68	First principles molecular dynamics of Li: Test of a new algorithm. <i>Solid State Communications</i> , 1991 , 78, 831-834	1.6	101
67	Metallic and insulating phases of LixC60, NaxC60, and RbxC60. <i>Physical Review B</i> , 1992 , 45, 6348-6351	3.3	91
66	Density-functional study of nonmolecular phases of nitrogen: Metastable phase at low pressure. <i>Physical Review B</i> , 2003 , 68,	3.3	79
65	Electronic structure of neutral and charged C60 clusters. <i>Physical Review B</i> , 1992 , 45, 13671-13675	3.3	78
64	Electronic properties of K-doped C60(111): Photoemission and electron correlation. <i>Physical Review B</i> , 1993 , 47, 13843-13847	3.3	75
63	Equilibrium Geometries and Electronic Structures of Small Sodium Clusters. <i>Physical Review Letters</i> , 1984 , 53, 655-658	7.4	75
62	Structural properties of alpha -quartz near the amorphous transition. <i>Physical Review Letters</i> , 1990 , 65, 3309-3312	7.4	73
61	Electronic properties of alpha -quartz under pressure. <i>Physical Review B</i> , 1991 , 44, 4771-4777	3.3	73
60	Current-induced magnetization switching in magnetic tunnel junctions. <i>Applied Physics Letters</i> , 2003 , 82, 2871-2873	3.4	70
59	Static electric polarizabilities as evidence for cluster geometries. <i>Physical Review Letters</i> , 1990 , 65, 476-479		65
58	Pressure dependence of the structural properties of alpha -quartz near the amorphous transition. <i>Physical Review B</i> , 1991 , 44, 489-497	3.3	55

57	High-pressure phases of magnesium selenide and magnesium telluride. <i>Physical Review B</i> , 1997 , 55, 775-779	3.3	51
56	Electronic structure of C ₆₀ fullerides. <i>Physical Review B</i> , 1992 , 46, 7961-7964	3.3	47
55	Ordering and decomposition in semiconductor alloys. <i>Journal of Materials Research</i> , 1986 , 1, 523-526	2.5	47
54	Electronic and structural properties of TiO ₂ in the rutile structure. <i>Solid State Communications</i> , 1990 , 76, 635-638	1.6	46
53	Pressure-induced phase transitions in silver halides. <i>Physical Review B</i> , 1998 , 57, 5098-5105	3.3	45
52	Equations of state of alkali hydrides at high pressures. <i>Physical Review B</i> , 1990 , 41, 7883-7886	3.3	42
51	Static electric polarizabilities of sodium clusters. <i>Physical Review B</i> , 1990 , 42, 11598-11609	3.3	42
50	Ab initio pseudopotential calculation of the photo-response of metal clusters. <i>Journal of Chemical Physics</i> , 1997 , 106, 6039-6044	3.9	39
49	Density functional calculations on the structure of crystalline polyethylene under high pressures. <i>Journal of Chemical Physics</i> , 2001 , 115, 11317-11324	3.9	34
48	Structural properties of SiO ₂ in the stishovite structure. <i>Physical Review B</i> , 1991 , 44, 4081-4088	3.3	34
47	Pseudopotential spin-density-functional calculation of the electronic properties of small lithium and sodium clusters. <i>Surface Science</i> , 1981 , 106, 280-286	1.8	32
46	Variable-cell-shape-based structural optimization applied to calcium nitrides. <i>Physical Review B</i> , 1998 , 57, 7615-7620	3.3	29
45	Ground-state properties of very small silver clusters. <i>Surface Science</i> , 1985 , 156, 635-640	1.8	29
44	Current-induced switching in low resistance magnetic tunnel junctions. <i>Journal of Applied Physics</i> , 2003 , 93, 8385-8387	2.5	28
43	First-principles study of the possibility of condensed phases of endohedral silicon cage clusters. <i>Physical Review B</i> , 2002 , 66,	3.3	28
42	Evaluation of exchange-correlation energy, potential, and stress. <i>Physical Review B</i> , 2001 , 64,	3.3	26
41	The nature of the interactions of poly(methyl methacrylate) oligomers with an aluminum surface. <i>Journal of Chemical Physics</i> , 1991 , 95, 8616-8630	3.9	26
40	Structural model for pseudobinary semiconductor alloys. <i>Physical Review B</i> , 1991 , 43, 11873-11883	3.3	26

39	Stability analysis of a bulk material built from silicon cage clusters: A first-principles approach. <i>Physical Review B</i> , 2007 , 76,	3.3	25
38	Comparison of self-consistent calculations of the static polarizability of atoms and molecules. <i>Journal of Chemical Physics</i> , 1990 , 92, 527-535	3.9	24
37	First-principles norm-conserving pseudopotential with explicit incorporation of semicore states. <i>Physical Review B</i> , 2003 , 68,	3.3	23
36	Density-functional studies of high-pressure properties and molecular dissociations of halogen molecular crystals. <i>Physical Review B</i> , 2003 , 68,	3.3	23
35	High Pressure Properties of the Alkaline-Earth Sulphides. <i>Physica Status Solidi (B): Basic Research</i> , 1995 , 190, 193-197	1.3	23
34	Continuous thin barriers for low-resistance spin-dependent tunnel junctions. <i>Journal of Applied Physics</i> , 2003 , 93, 8367-8369	2.5	22
33	Density functional calculations of the structure of crystalline urea under high pressure. <i>Chemical Physics Letters</i> , 2000 , 316, 297-302	2.5	22
32	Stability of NanPb (n . <i>Physical Review B</i> , 1996 , 54, 2937-2941	3.3	22
31	First-principles molecular dynamics of liquid cesium and rubidium. <i>Physical Review B</i> , 1995 , 51, 872-877	3.3	21
30	Electronic and structural properties of LiBeH3. <i>Physical Review B</i> , 1988 , 38, 12776-12779	3.3	21
29	Electronic structure of silver halides. <i>Solid State Communications</i> , 1998 , 105, 377-380	1.6	18
28	Superconductivity in primitive hexagonal germanium. <i>Physical Review B</i> , 1988 , 37, 3304-3307	3.3	18
27	Ground-state properties of Ag2: A local-density pseudopotential approach. <i>Physical Review A</i> , 1983 , 28, 3637-3639	2.6	17
26	Ab initio studies of the structural and electronic properties of solid cubane. <i>Physical Review B</i> , 1998 , 58, 15307-15309	3.3	16
25	Structural and chemical changes in binary versus ternary tetrahedral semiconductors. <i>Physical Review B</i> , 1985 , 32, 2689-2692	3.3	16
24	Study of synthetic ferrimagnet-synthetic antiferromagnet structures for magnetic sensor application. <i>Journal of Applied Physics</i> , 2006 , 99, 08B703	2.5	15
23	Micromagnetic simulation for tunnel junctions with synthetic antiferromagnetic pinned layers annealed at different external fields. <i>Journal of Applied Physics</i> , 2002 , 91, 8296	2.5	13
22	Calculation of Cluster Geometries with the Help of Hellmann-Feynman Forces. <i>Zeitschrift Fur Elektrotechnik Und Elektrochemie</i> , 1984 , 88, 239-240		13

21	Homocoordination preference in NaCs and LiNa liquid alloys by first principles molecular dynamics. <i>Journal of Chemical Physics</i> , 1999 , 111, 5067-5072	3.9	10
20	Static electric dipole polarizability of small sodium aggregates. <i>Zeitschrift für Physik D-Atoms Molecules and Clusters</i> , 1989 , 12, 353-356		10
19	Growth and Formation of Fullerene Clusters. <i>Journal of Cluster Science</i> , 2001 , 12, 513-525	3	8
18	New methods for the calculation of the electronic structure of clusters: application for Na ₁₃ to Na ₁₄₇ . <i>Zeitschrift für Physik D-Atoms Molecules and Clusters</i> , 1989 , 12, 347-351		8
17	Forces in pseudopotential molecular calculations. <i>Journal of Chemical Physics</i> , 1984 , 80, 1525-1528	3.9	8
16	AsNCa ₃ at high pressure. <i>Computational Materials Science</i> , 1998 , 10, 298-301	3.2	7
15	First-principles molecular dynamics of liquid rubidium at low density. <i>Journal of Non-Crystalline Solids</i> , 2004 , 347, 100-105	3.9	7
14	Electronic Structure and Pressure Dependence for Some Ternary Calcium Nitrides. <i>Physica Status Solidi (B): Basic Research</i> , 1996 , 198, 87-91	1.3	7
13	Reply to "Comment on Atomic structure and ordering in semiconductor alloys". <i>Physical Review B</i> , 1987 , 36, 2902-2905	3.3	4
12	First principles molecular dynamics of a liquid LiNa alloy. <i>Computational and Theoretical Chemistry</i> , 1999 , 463, 145-149		2
11	Practical band interpolation with a modified tight-binding method. <i>Journal of Physics Condensed Matter</i> , 2019 , 31, 215501	1.8	1
10	Relaxation of atomic orbitals in a plane-wave basis. <i>Physical Review B</i> , 2014 , 89,	3.3	1
9	An Effective Three-Dimensional Micromagnetic Method and Its Application to Magnetic Tunnel Junctions. <i>Chinese Physics Letters</i> , 2005 , 22, 1270-1273	1.8	1
8	Ab initio molecular dynamics of liquid KCl. <i>Journal of Non-Crystalline Solids</i> , 2002 , 312-314, 69-73	3.9	1
7	Superconductivity in M ₃ C ₆₀ 1992 , 485-491		1
6	First principles molecular dynamics simulation of liquid rubidium. <i>Computational and Theoretical Chemistry</i> , 1995 , 330, 273-277		
5	Static electric dipole polarizability of small sodium aggregates. <i>Zeitschrift für Physik D-Atoms Molecules and Clusters</i> , 1991 , 21, 83-83		
4	Parallelization of a Density Functional Program for Monte-Carlo Simulation of Large Molecules. <i>Lecture Notes in Computer Science</i> , 2001 , 230-241	0.9	

3 Static electric dipole polarizability of small sodium aggregates **1989**, 353-356

2 Superconductivity in Alkali Fullerenes. *Kluwer International Series in Engineering and Computer Science*, **1996**, 503-514

1 Practical Band Interpolation with a Generalized Luttinger-Kohn Method. *Physica Status Solidi (B): Basic Research*, **2021**, 258, 2000260

1.3