Martti J Puska

List of Publications by Year in Descending Order

224 papers	13,157 citations	58 h-index	109 g-index
231 ext. papers	13,991 ext. citations	4 avg, IF	6.16 L-index

#	Paper	IF	Citations
224	Simulating Raman spectra by combining first-principles and empirical potential approaches with application to defective MoS2. *Npj Computational Materials*, **2020**, 6,	10.9	9
223	The fox and the hound: in-depth and in-grain Na doping and Ga grading in Cu(In,Ga)Se2 solar cells. *Journal of Materials Chemistry A*, **2020**, 8, 6471-6479	13	15
222	Heavy Alkali Treatment of Cu(In,Ga)Se2 Solar Cells: Surface versus Bulk Effects. *Advanced Energy Materials*, **2020**, 10, 1903752	21.8	68
221	Plasmon Excitations in Mixed Metallic Nanoarrays. *ACS Nano*, **2019**, 13, 5344-5355	16.7	5
220	pH-Dependent Distribution of Functional Groups on Titanium-Based MXenes. *ACS Nano*, **2019**, 13, 9171-9181	16.7	45
219	Efficient method for calculating Raman spectra of solids with impurities and alloys and its application to two-dimensional transition metal dichalcogenides. *Physical Review Materials*, **2019**, 3,	3.2	9
218	Plasmon-Induced Direct Hot-Carrier Transfer at Metal-Acceptor Interfaces. *ACS Nano*, **2019**, 13, 3188-3195	16.7	42
217	Alkali Postdeposition Treatment-Induced Changes of the Chemical and Electronic Structure of Cu(In,Ga)Se Thin-Film Solar Cell Absorbers: A First-Principle Perspective. *ACS Applied Materials & Interfaces*, **2019**, 11, 3024-3033	9.5	7
216	Electronic Transport Properties of Carbon-Nanotube Networks: The Effect of Nitrate Doping on Intratube and Intertube Conductances. *Physical Review Applied*, **2018**, 9,	4.3	5
215	Stability of Cu-Precipitates in Al-Cu Alloys. *Applied Sciences (Switzerland)*, **2018**, 8, 1003	2.6	5
214	Structural details of Al/Al2O3 junctions and their role in the formation of electron tunnel barriers. *Physical Review B*, **2018**, 97,	3.3	9
213	Conductivity of AuCl4-Functionalized Carbon Nanotube Networks. *Journal of Physical Chemistry C*, **2017**, 121, 4627-4634	3.8	7
212	First-Principles Modeling of Point Defects and Complexes in Thin-Film Solar-Cell Absorber CuInSe2. *Advanced Electronic Materials*, **2017**, 3, 1600353	6.4	24
211	Modeling of electron tunneling through a tilted potential barrier. *Journal of Applied Physics*, **2017**, 121, 134304	2.5	9
210	Theory and Applications of Generalized Pipek-Mezey Wannier Functions. *Journal of Chemical Theory and Computation*, **2017**, 13, 460-474	6.4	25
209	Effect of edge plasmons on the optical properties of MoS2 monolayer flakes. *Physical Review B*, **2017**, 96,	3.3	11
208	Kohn-Sham Decomposition in Real-Time Time-Dependent Density-Functional Theory: An Efficient Tool for Analyzing Plasmonic Excitations. *Journal of Chemical Theory and Computation*, **2017**, 13, 4779-4790	6.4	73

207	Effect of Alkali Metal Atom Doping on the CuInSe2-Based Solar Cell Absorber. *Journal of Physical Chemistry C*, **2017**, 121, 15516-15528	3.8	95
206	Tsu-Esaki modeling of tunneling currents in ferroelectric tunnel junctions. *Journal of Applied Physics* , **2017**, 122, 234301	2.5	3
205	Vibrational Properties of Metal Phosphorus Trichalcogenides from First-Principles Calculations. *Journal of Physical Chemistry C*, **2017**, 121, 27207-27217	3.8	36
204	Modeling positronium beyond the single particle approximation. *Journal of Physics B: Atomic, Molecular and Optical Physics*, **2016**, 49, 064005	1.3	8
203	Resistive Switching in All-Oxide Ferroelectric Tunnel Junctions with Ionic Interfaces. *Advanced Materials*, **2016**, 28, 6852-9	24	59
202	Effect of interface geometry on electron tunnelling in Al/Al2O3/Al junctions. *Journal Physics D: Applied Physics*, **2016**, 49, 165303	3	8
201	Impact of Ga-V Codoping on Interfacial Electron Transfer in Dye-Sensitized TiO2. *Journal of Physical Chemistry Letters*, **2015**, 6, 2603-7	6.4	5
200	Nanoplasmonics simulations at the basis set limit through completeness-optimized, local numerical basis sets. *Journal of Chemical Physics*, **2015**, 142, 094114	3.9	22
199	Quantized Evolution of the Plasmonic Response in a Stretched Nanorod. *Physical Review Letters*, **2015**, 115, 236804	7.4	46
198	Enhancing conductivity of metallic carbon nanotube networks by transition metal adsorption. *Journal of Chemical Physics*, **2015**, 142, 054705	3.9	10
197	Charge Transfer at the Hybrid Interfaces in the Presence of Water: A Theoretical Study. *Journal of Physical Chemistry C*, **2015**, 119, 28347-28352	3.8	5
196	Pick-off annihilation of positronium in matter using full correlation single particle potentials: solid He. *Journal of Physical Chemistry B*, **2015**, 119, 1747-55	3.4	5
195	Electronic stopping power from first-principles calculations with account for core electron excitations and projectile ionization. *Physical Review B*, **2014**, 89,	3.3	59
194	Physical Factors Affecting Charge Transfer at the Pe-COOH□iO2 Anatase Interface. *Journal of Physical Chemistry C*, **2014**, 118, 25310-25319	3.8	8
193	Full-correlation single-particle positron potentials for a positron and positronium interacting with atoms. *Physical Review A*, **2014**, 89,	2.6	10
192	First-Principles Study of Excited State Evolution in a Protected Gold Complex. *Journal of Physical Chemistry C*, **2013**, 117, 11837-11842	3.8	6
191	Modeling Bi-induced changes in the electronic structure of GaAs1□Bix alloys. *Physical Review B*, **2013**, 88,	3.3	19
190	Origin of band gap bowing in dilute GaAs1□Nx and GaP1□Nx alloys: A real-space view. *Physical Review B*, **2013**, 88,	3.3	19

189	Exchange and correlation effects in the strongly interacting He-Ps system. *Journal of Physics: Conference Series*, **2013**, 443, 012004	0.3	1
188	Hybrid functional study of band structures of GaAs1−xNx and GaSb1−xNx alloys. *Physical Review B*, **2012**, 85,	3.3	24
187	Electronic transport in graphene-based structures: An effective cross-section approach. *Physical Review B*, **2012**, 85,	3.3	11
186	Ab initio transport fingerprints for resonant scattering in graphene. *Physical Review B*, **2012**, 86,	3.3	10
185	Matter-positronium interaction: A study of the He-atom–positronium system. *Physical Review A*, **2012**, 85,	2.6	7
184	Native point defect energetics in GaSb: Enabling p-type conductivity of undoped GaSb. *Physical Review B*, **2012**, 86,	3.3	32
183	Nonadiabatic Ehrenfest molecular dynamics within the projector augmented-wave method. *Journal of Chemical Physics*, **2012**, 136, 144103	3.9	32
182	Study of Unbound HePs Using Exact Diagonalization Technique. *Materials Science Forum*, **2012**, 733, 38-42	0.4	
181	Electron transport in edge-disordered graphene nanoribbons. *Physical Review B*, **2011**, 83,	3.3	25
180	Local semiconducting transition in armchair carbon nanotubes: The effect of periodic bi-site perturbation on electronic and transport properties of carbon nanotubes. *Physical Review B*, **2011**, 83,	3.3	4
179	Nano-structures in Al-based alloys. *Journal of Physics: Conference Series*, **2011**, 265, 012017	0.3	1
178	Bound and free self-interstitial defects in graphite and bilayer graphene: A computational study. *Physical Review B*, **2011**, 84,	3.3	31
177	Clustering and conductance in breakage of sodium nanowires. *Physical Review B*, **2011**, 83,	3.3	2
176	Boston et al. Reply:. *Physical Review Letters*, **2011**, 106,	7.4	11
175	All-electron time-dependent density functional theory with finite elements: time-propagation approach. *Journal of Chemical Physics*, **2011**, 135, 154104	3.9	12
174	Positrons as interface-sensitive probes of polar semiconductor heterostructures. *Physical Review B*, **2010**, 82,	3.3	20
173	Adsorption structures of phenol on the Si(001)(2×1) surface calculated using density functional theory. *Physical Review B*, **2010**, 81,	3.3	15
172	Generalized tight-binding transport model for graphene nanoribbon-based systems. *Physical Review B*, **2010**, 81,	3.3	106

171	Electronic structure calculations with GPAW: a real-space implementation of the projector augmented-wave method. *Journal of Physics Condensed Matter*, **2010**, 22, 253202	1.8	1092
170	Tunability of the optical absorption in small silver cluster-polymer hybrid systems. *Journal of Chemical Physics*, **2010**, 132, 214301	3.9	8
169	Limits for n-type doping in In2O3 and SnO2: A theoretical approach by first-principles calculations using hybrid-functional methodology. *Journal of Applied Physics*, **2010**, 108, 053511	2.5	52
168	Role of van der Waals forces in the adsorption and diffusion of organic molecules on an insulating surface. *Physical Review B*, **2009**, 80,	3.3	38
167	Effect of the surrounding oxide on the photoabsorption spectra of Si nanocrystals. *Physical Review B*, **2009**, 79,	3.3	20
166	Intrinsic n-type behavior in transparent conducting oxides: a comparative hybrid-functional study of In2O3, SnO2, and ZnO. *Physical Review Letters*, **2009**, 103, 245501	7.4	274
165	Linear-scaling self-consistent implementation of the van der Waals density functional. *Physical Review B*, **2009**, 79,	3.3	149
164	All-electron density functional theory and time-dependent density functional theory with high-order finite elements. *Journal of Chemical Physics*, **2009**, 131, 054103	3.9	43
163	Time-dependent density-functional theory in the projector augmented-wave method. *Journal of Chemical Physics*, **2008**, 128, 244101	3.9	158
162	Quantum well states, resonances and stability of metallic overlayers. *Journal of Physics Condensed Matter*, **2008**, 20, 315002	1.8	4
161	Photoabsorption spectra of small fullerenes and Si-heterofullerenes. *Journal of Chemical Physics*, **2008**, 128, 154307	3.9	21
160	Spin-Dependence in Asymmetric, V-Shaped-Notched Graphene Nanoribbons. *Journal of Low Temperature Physics*, **2008**, 153, 393-398	1.3	19
159	Quantitative chemical analysis of vacancy-solute complexes in metallic solid solutions by coincidence Doppler broadening spectroscopy. *Physica Status Solidi C: Current Topics in Solid State Physics*, **2007**, 4, 3493-3496		10
158	Excited states of Na nanoislands on the Cu(111) surface. *Physical Review B*, **2007**, 75,	3.3	16
157	Image potential states of supported metallic nanoislands. *Physical Review B*, **2007**, 76,	3.3	17
156	Energetics of positron states trapped at vacancies in solids. *Physical Review B*, **2007**, 76,	3.3	37
155	Analysis of electron-positron momentum spectra of metallic alloys as supported by first-principles calculations. *Physical Review B*, **2007**, 75,	3.3	32
154	Electron-electron interaction in a two-dimensional electron gas: Bound states at low densities. *Physical Review B*, **2007**, 75,	3.3	1

153	Photoabsorption spectra of boron nitride fullerenelike structures. *Journal of Chemical Physics*, **2007**, 126, 214306	3.9	17
152	Gallium and nitrogen vacancies in GaN: Impurity decoration effects. *Physica B: Condensed Matter*, **2006**, 376-377, 424-427	2.8	15
151	First-principles calculation of positron states and annihilation at defects in semiconductors. *Physica B: Condensed Matter*, **2006**, 376-377, 971-974	2.8	7
150	Numerical study of bound states for point charges shielded by the response of a homogeneous two-dimensional electron gas. *Physical Review B*, **2006**, 74,	3.3	5
149	Modeling the momentum distributions of annihilating electron-positron pairs in solids. *Physical Review B*, **2006**, 73,	3.3	94
148	Giant vortices in rotating electron droplets. *Physical Review B*, **2006**, 73,	3.3	6
147	Interfacial oxide growth at silicon□high-k oxide interfaces: First principles modeling of the Si□HfO2 interface. *Journal of Applied Physics*, **2006**, 100, 043708	2.5	44
146	Finite-element implementation for electron transport in nanostructures. *Journal of Chemical Physics*, **2006**, 124, 054707	3.9	14
145	Direct evidence of impurity decoration of Ga vacancies in GaN from positron annihilation spectroscopy. *Physical Review B*, **2006**, 73,	3.3	81
144	Three real-space discretization techniques in electronic structure calculations. *Physica Status Solidi (B): Basic Research*, **2006**, 243, 1016-1053	1.3	82
143	Dissociation of VGa□N complexes in HVPE GaN by high pressure and high temperature annealing. *Physica Status Solidi (B): Basic Research*, **2006**, 243, 1436-1440	1.3	7
142	Calculation of valence electron momentum densities using the projector augmented-wave method. *Journal of Physics and Chemistry of Solids*, **2005**, 66, 1128-1135	3.9	41
141	Vortex formation in quantum dots in high magnetic fields. *Physica E: Low-Dimensional Systems and Nanostructures*, **2005**, 26, 317-321	3	6
140	Characterization of deformed quantum dots by modeling single-electron-tunneling experiments. *Physica E: Low-Dimensional Systems and Nanostructures*, **2005**, 26, 477-481	3	1
139	Spin-dependent electron transport through a magnetic resonant tunneling diode. *Physical Review B*, **2005**, 71,	3.3	19
138	Positron localization effects on the Doppler broadening of the annihilation line: Aluminum as a case study. *Physical Review B*, **2005**, 72,	3.3	40
137	Stability of vortex structures in quantum dots. *Physical Review B*, **2005**, 71,	3.3	20
136	Self-consistent study of electron confinement to metallic thin films on solid surfaces. *Physical Review B*, **2005**, 71,	3.3	34

135	Charging mechanism for the bond elongation observed in suspended chains of gold atoms. *Physical Review B*, **2005**, 72,	3.3	12
134	Vacancy-impurity complexes in highly Sb-doped Si grown by molecular beam epitaxy. *Physical Review Letters*, **2005**, 94, 165501	7.4	30
133	Quantum size effects in Pb islands on Cu(111): Electronic structure calculations. *Physical Review B*, **2004**, 69,	3.3	38
132	Rectangular quantum dots in high magnetic fields. *Physical Review B*, **2004**, 69,	3.3	30
131	Vortex clusters in quantum dots. *Physical Review Letters*, **2004**, 93, 116802	7.4	58
130	Electron transport through quantum wires and point contacts. *Physical Review B*, **2004**, 70,	3.3	44
129	Broken symmetry in density-functional theory: Analysis and cure. *Physical Review B*, **2004**, 69,	3.3	27
128	Electron transport through monovalent atomic wires. *Physical Review B*, **2004**, 69,	3.3	119
127	Maximum-density-droplet formation in hard-wall quantum dots. *Physica E: Low-Dimensional Systems and Nanostructures*, **2004**, 22, 490-493	3	5
126	Nonequilibrium electron transport in two-dimensional nanostructures modeled using Green functions and the finite-element method. *Physical Review B*, **2004**, 69,	3.3	30
125	Impurity effects in quantum dots: Toward quantitative modeling. *Physical Review B*, **2004**, 70,	3.3	104
124	Interaction effects in superconductor normal quantum dot superconductor structures. *Computational Materials Science*, **2004**, 30, 21-26	3.2	
123	Influence of electron electron interactions on supercurrent in SNS structures. *Low Temperature Physics*, **2003**, 29, 546-550	0.7	3
122	MIKA: Multigrid-based program package for electronic structure calculations. *International Journal of Quantum Chemistry*, **2003**, 91, 171-176	2.1	35
121	Electronic structure calculations for 2-D quantum dots and laterally coupled quantum dot molecules in magnetic fields. *International Journal of Quantum Chemistry*, **2003**, 91, 490-497	2.1	5
120	Electronic structure of rectangular quantum dots. *Physical Review B*, **2003**, 67,	3.3	74
119	Testing of two-dimensional local approximations in the current-spin and spin-density-functional theories. *Physical Review B*, **2003**, 67,	3.3	46
118	Electronic resonance states in metallic nanowires during the breaking process simulated with the ultimate jellium model. *Physical Review B*, **2003**, 67,	3.3	9

117	Wigner molecules in polygonal quantum dots: A density-functional study. *Physical Review B*, **2003**, 67,	3.3	24
116	Electronic structure and prediction of magnetism in metallic nanowires. *Journal of Magnetism and Magnetic Materials*, **2002**, 249, 193-199	2.8	14
115	Stability of large vacancy clusters in silicon. *Physical Review B*, **2002**, 65,	3.3	54
114	Conductance oscillations in metallic nanocontacts. *Physical Review B*, **2002**, 66,	3.3	35
113	Model study of adsorbed metallic quantum dots: Na on Cu(111). *Physical Review B*, **2002**, 66,	3.3	11
112	Spontaneous magnetization of aluminum nanowires deposited on the NaCl(100) surface. *Physical Review B*, **2002**, 66,	3.3	28
111	Analysis of the shell- and supershell structures of metallic nanowires with jellium models. *Nanotechnology*, **2002**, 13, 363-368	3.4	14
110	Native defects and self-diffusion in GaSb. *Journal of Applied Physics*, **2002**, 91, 4988-4994	2.5	79
109	Multigrid method for electronic structure calculations. *Physical Review B*, **2001**, 63,	3.3	120
108	Shell and supershell structures of nanowires: A quantum-mechanical analysis. *Physical Review B*, **2001**, 64,	3.3	17
107	Electronic stopping calculated using explicit phase shift factors. *Physical Review B*, **2001**, 63,	3.3	23
106	First-principles calculations of interstitial boron in silicon. *Physical Review B*, **2000**, 61, 8155-8161	3.3	79
105	Point defects in silicon, first-principles calculations. *Computational Materials Science*, **2000**, 17, 365-373	3.2	5
104	Identification of Vacancy-Impurity Complexes in Highly n-Type Si. *Physical Review Letters*, **1999**, 82, 1883-1886	7.4	77
103	Electronic structure of cylindrical simple-metal nanowires in the stabilized jellium model. *Physical Review B*, **1999**, 59, 12652-12660	3.3	34
102	Microscopic identification of native donor Ga-vacancy complexes in Te-doped GaAs. *Physical Review B*, **1999**, 60, 1464-1467	3.3	30
101	Observation of Ga vacancies and negative ions in undoped and Mg-doped GaN bulk crystals. *Physica B: Condensed Matter*, **1999**, 273-274, 33-38	2.8	20
100	Theoretical studies of interstitial boron defects in silicon. *Physica B: Condensed Matter*, **1999**, 273-274, 268-270	2.8	1

99	The structure of vacancy–impurity complexes in highly n-type Si. *Physica B: Condensed Matter*, **1999**, 273-274, 463-467	2.8	4
98	Zabala, Puska, and Nieminen Reply:. *Physical Review Letters*, **1999**, 82, 3000-3000	7.4	7
97	First-Principles Calculations of Positron Annihilation in Solids. *Materials Research Society Symposia Proceedings*, **1999**, 579, 249		3
96	Positron Lifetime Calculations of Hexagonal Metals with the True Geometry. *Physica Status Solidi (B): Basic Research*, **1998**, 206, 509-518	1.3	9
95	Effect of lattice structure on the positron annihilation with inner shell electrons. *Journal of Physics and Chemistry of Solids*, **1998**, 59, 55-59	3.9	18
94	Convergence of supercell calculations for point defects in semiconductors: Vacancy in silicon. *Physical Review B*, **1998**, 58, 1318-1325	3.3	210
93	Possible n-type dopants in diamond and amorphous carbon. *Computational Materials Science*, **1998**, 10, 351-355	3.2	16
92	Study of defects in electron irradiated CuInSe2 by positron lifetime spectroscopy. *Journal of Applied Physics*, **1998**, 83, 71-78	2.5	30
91	Spontaneous Magnetization of Simple Metal Nanowires. *Physical Review Letters*, **1998**, 80, 3336-3339	7.4	83
90	Chlorine-impurity-related defects in ZnSe. *Physical Review B*, **1998**, 57, 12164-12168	3.3	12
89	Nitrogen-impurity–native-defect complexes in ZnSe. *Physical Review B*, **1998**, 57, 12174-12180	3.3	26
88	Momentum distributions of electron-positron pairs annihilating at vacancy clusters in Si. *Physical Review B*, **1998**, 57, 7621-7627	3.3	117
87	Metastability of the antistructure pair in GaAs. *Physical Review B*, **1997**, 55, 6914-6917	3.3	6
86	Correlation effects for electron-positron momentum density in solids. *Physical Review B*, **1997**, 56, 7136-7142	3.3	48
85	Nitrogen doping in ZnSe. *Materials Science and Engineering B: Solid-State Materials for Advanced Technology*, **1997**, 43, 1-4	3.1	4
84	Correlation effects for positron annihilation with core and semicore electrons. *Applied Surface Science*, **1997**, 116, 283-286	6.7	5
83	Two-component density-functional calculations for positrons trapped by defects in solids. *Applied Surface Science*, **1997**, 116, 293-299	6.7	
82	First-principles calculation of positron annihilation characteristics at metal vacancies. *Physical Review B*, **1996**, 54, 15016-15024	3.3	51

81	Theoretical and experimental study of positron annihilation with core electrons in solids. *Physical Review B*, **1996**, 54, 2397-2409	3.3	221
80	Calculation of positron states and annihilation in solids: A density-gradient-correction scheme. *Physical Review B*, **1996**, 53, 16201-16213	3.3	181
79	Ab initio study of fully relaxed divacancies in GaAs. *Physical Review B*, **1996**, 53, 3813-3819	3.3	96
78	Evaluation of some basic positron-related characteristics of SiC. *Physical Review B*, **1996**, 54, 2512-2517	3.3	84
77	Metastable defect complexes in GaAs. *Physical Review B*, **1996**, 54, 7909-7916	3.3	31
76	Method for the measurement of positron affinities and positron work functions suitable for both positive and negative work function materials. *Applied Surface Science*, **1995**, 85, 82-86	6.7	6
75	Positron annihilation and positron-electron correlation effects in high-Tc oxides. *Journal of Physics and Chemistry of Solids*, **1995**, 56, 1693-1694	3.9	3
74	Positron affinity for precipitates in reactor pressure vessel steels. *Nuclear Engineering and Design*, **1995**, 158, 149-156	1.8	25
73	Vacancy-formation energies for fcc and bcc transition metals. *Physical Review B*, **1995**, 51, 9526-9532	3.3	130
72	Electron-positron Car-Parrinello methods: Self-consistent treatment of charge densities and ionic relaxations. *Physical Review B*, **1995**, 52, 10947-10961	3.3	115
71	Real-space electronic-structure calculations: Combination of the finite-difference and conjugate-gradient methods. *Physical Review B*, **1995**, 51, 14057-14061	3.3	152
70	Experimental determination of the Compton profile of C60 through binary encounter electron spectroscopy. *Journal of Chemical Physics*, **1995**, 103, 10413-10416	3.9	7
69	Identification of vacancy defects in compound semiconductors by core-electron annihilation: Application to InP. *Physical Review B*, **1995**, 51, 4176-4185	3.3	195
68	Energetics of diffusion on the (100) and (111) surfaces of Ag, Au, and Ir from first principles. *Physical Review B*, **1995**, 52, 9078-9085	3.3	91
67	Gradient correction for positron states in solids. *Physical Review B*, **1995**, 51, 7341-7344	3.3	173
66	Positron Annihilation Characteristics in Perfect and Imperfect Transition Metal Carbides and Nitrides. *European Physical Journal Special Topics*, **1995**, 05, C1-135-C1-142		5
65	Positron annihilation in II-VI compound semiconductors: theory. *Journal of Physics Condensed Matter*, **1994**, 6, 8809-8827	1.8	43
64	Indium and phosphorus vacancies and antisites in InP. *Physical Review B*, **1994**, 49, 5253-5262	3.3	55

63	First-principles calculation of positron lifetimes and affinities in perfect and imperfect transition-metal carbides and nitrides. *Physical Review B*, **1994**, 49, 10947-10957	3.3	51
62	Theory of positrons in solids and on solid surfaces. *Reviews of Modern Physics*, **1994**, 66, 841-897	40.5	851
61	Photoabsorption of atoms inside C60. *Physical Review A*, **1993**, 47, 1181-1186	2.6	191
60	Positron annihilation at paramagnetic defects in semiconductors. *Journal of Physics Condensed Matter*, **1993**, 5, L307-L314	1.8	11
59	Phosphorus vacancy in InP: A negative-U center. *Physical Review B*, **1993**, 47, 6381-6384	3.3	28
58	Crystals from metallic clusters: A first-principles calculation. *Physical Review B*, **1993**, 48, 1981-1983	3.3	37
57	Nuclear shell model applied to metallic clusters. *Zeitschrift F Physik D-Atoms Molecules and Clusters*, **1993**, 26, 261-263		3
56	Spherical voids and clusters in the stabilized jellium model: self-consistent Kohn-Sham calculations. *Journal of Physics Condensed Matter*, **1993**, 5, 9049-9058	1.8	9
55	Positron states in fullerites and other carbon phases. *Journal of Physics Condensed Matter*, **1992**, 4, L149-L156	1.8	34
54	First-principles study of fully relaxed vacancies in GaAs. *Physical Review B*, **1992**, 45, 4122-4130	3.3	63
53	Positron and electron energy levels in rare-gas solids. *Physical Review B*, **1992**, 46, 1278-1283	3.3	9
52	First-principles study of He in Si. *Physical Review B*, **1992**, 46, 12806-12809	3.3	48
51	Interactions between rare-gas atoms: an effective medium study. *Journal of Physics Condensed Matter*, **1991**, 3, 5711-5721	1.8	5
50	Charge-state-dependent relaxation and positron states at vacancy defects in GaAs. *Journal of Physics Condensed Matter*, **1991**, 3, 7217-7224	1.8	23
49	First-principles simulation of intrinsic collision cascades in KCl and NaCl to test interatomic potentials at energies between 5 and 350 eV. *Physical Review Letters*, **1991**, 67, 3692-3695	7.4	27
48	Atoms embedded in an electron gas: Beyond the local-density approximation. *Physical Review B*, **1991**, 43, 12221-12233	3.3	46
47	Ab-initio calculation of positron annihilation rates in solids. *Journal of Physics Condensed Matter*, **1991**, 3, 3455-3469	1.8	76
46	Energetics, electronic structure, and positron annihilation studies of carbon-vacancy complexes in iron. *European Physical Journal B*, **1990**, 81, 281-289	1.2	4

45	Positron trapping in semiconductors. *Physical Review B*, **1990**, 41, 9980-9993	3.3	206
44	Atoms Embedded in Electron Gas. *Springer Proceedings in Physics*, **1990**, 134-143	0.2	3
43	Introduction to Many-Atom Interactions in Solids. *Springer Proceedings in Physics*, **1990**, 2-11	0.2	
42	Electronic structures of point defects in III-V compound semiconductors. *Journal of Physics Condensed Matter*, **1989**, 1, 7347-7366	1.8	77
41	Positron states at vacancy-impurity pairs in semiconductors. *Physical Review B*, **1989**, 40, 12523-12526	3.3	32
40	Positron states in YBa2Cu3O7-x. *Journal of Physics Condensed Matter*, **1989**, 1, 3727-3732	1.8	55
39	Screening of positrons in semiconductors and insulators. *Physical Review B*, **1989**, 39, 7666-7679	3.3	220
38	Positron affinities for elemental metals. *Journal of Physics Condensed Matter*, **1989**, 1, 6081-6094	1.8	173
37	Atomic relaxations around vacancy clusters in molybdenum and their effects on trapped-positron lifetime. *Physical Review B*, **1988**, 37, 6-11	3.3	14
36	Positron states in Si and GaAs. *Physical Review B*, **1988**, 38, 9874-9880	3.3	108
35	Positron trapping rate into small vacancy clusters and light substitutional impurities. *Journal of Physics F: Metal Physics*, **1987**, 17, 2235-2248		28
34	Hydrogen and deuterium decoration of In-vacancy complexes in nickel. *Physical Review B*, **1987**, 35, 6059-6063	3.3	20
33	Interatomic interactions in the effective-medium theory. *Physical Review B*, **1987**, 35, 7423-7442	3.3	768
32	Electron and positron energy levels in solids. *Physical Review B*, **1987**, 36, 7786-7794	3.3	92
31	Theoretical Aspects of Positrons in Imperfect Solids. *Physica Status Solidi A*, **1987**, 102, 11-29		61
30	Electronic polarizability of small sodium clusters. *Physical Review B*, **1986**, 33, 4289-4290	3.3	51
29	Electronic structure and positron states at vacancies in Si and GaAs. *Physical Review B*, **1986**, 34, 2695-2705	3.3	93
28	Role of elastic and electronic interactions in trapping of hydrogen by impurities in transition metals. *Physical Review B*, **1985**, 31, 7612-7616	3.3	17

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