Gunaretnam Rajagopal

List of Publications by Year
in descending order

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47 papers	4,333 citations	172457 29 h-index	223800 46 g-index
48 all docs	48 docs citations	48 times ranked	3512 citing authors

#	Article	IF	Citations
1	Quantum Monte Carlo simulations of solids. Reviews of Modern Physics, 2001, 73, 33-83.	45.6	1,813
2	Finite-size effects and Coulomb interactions in quantum Monte Carlo calculations for homogeneous systems with periodic boundary conditions. Physical Review B, 1996, 53, 1814-1832.	3.2	265
3	Calculations of Silicon Self-Interstitial Defects. Physical Review Letters, 1999, 83, 2351-2354.	7.8	166
4	Patterns and barriers for fission of charged small metal clusters. Physical Review Letters, 1991, 67, 3058-3061.	7.8	126
5	Exchange and correlation in silicon. Physical Review B, 1998, 57, 8972-8982.	3.2	117
6	Optical spectra of localized excess electrons in alkali halide clusters. Physical Review Letters, 1990, 64, 2933-2936.	7.8	106
7	The tumor suppressor p53: Cancer and aging. Cell Cycle, 2008, 7, 842-847.	2.6	106
8	Metallization of ionic clusters. Physical Review Letters, 1991, 67, 727-730.	7.8	104
9	Elimination of Coulomb finite-size effects in quantum many-body simulations. Physical Review B, 1997, 55, R4851-R4854.	3.2	99
10	Finite-size errors in quantum many-body simulations of extended systems. Physical Review B, 1999, 59, 1917-1929.	3.2	98
11	Monte Carlo energy and variance-minimization techniques for optimizing many-body wave functions. Physical Review B, 1999, 59, 12344-12351.	3.2	94
12	Bornâ€“Oppenheimer dynamics using densityâ€functional theory: Equilibrium and fragmentation of small sodium clusters. Journal of Chemical Physics, 1991, 94, 608-616.	3.0	85
13	Carbon clusters near the crossover to fullerene stability. Physical Review B, 2000, 62, 15394-15397.	3.2	83
14	Identifying microRNA/mRNA dysregulations in ovarian cancer. BMC Research Notes, 2012, 5, 164.	1.4	82
15	Diffusion quantum Monte Carlo calculations of the excited states of silicon. Physical Review B, 1998, 57, 12140-12144.	3.2	81
16	Variational and diffusion quantum Monte Carlo calculations at nonzero wave vectors: Theory and application to diamond-structure germanium. Physical Review B, 1995, 51, 10591-10600.	3.2	79
17	Quantum Monte Carlo Calculations for Solids Using SpecialkPoints Methods. Physical Review Letters, 1994, 73, 1959-1962.	7.8	72
18	Quantum Monte Carlo Investigation of Exchange and Correlation in Silicon. Physical Review Letters, 1997, 78, 3350-3353.	7.8	65

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19	Optimized wave functions for quantum Monte Carlo studies of atoms and solids. Physical Review B, 1996, 53, 9640-9648.	3.2	57
20	Ab initiocalculations of the cohesive energy and the bulk modulus of aluminium. Journal of Physics Condensed Matter, 2002, 14, 8787-8793.	1.8	53
21	Negative Feedback Governs Gonadotrope Frequency-Decoding of Gonadotropin Releasing Hormone Pulse-Frequency. PLoS ONE, 2009, 4, e7244.	2.5	47
22	Homologyâ€based hydrogen bond information improves crystallographic structures in the <scp>PDB</scp>. Protein Science, 2018, 27, 798-808.	7.6	41
23	The p53 knowledgebase: an integrated information resource for p53 research. Oncogene, 2007, 26, 1517-1521.	5.9	40
24	Quantum Monte Carlo calculations of the one-body density matrix and excitation energies of silicon. Physical Review B, 1998, 57, 15293-15302.	3.2	39
25	The path from big data to precision medicine. Expert Review of Precision Medicine and Drug Development, 2016, 1, 129-143.	0.7	37
26	An Optimized Ewald Method for Long-Ranged Potentials. Journal of Computational Physics, 1994, 115, 399-405.	3.8	34
27	Relativistic corrections to atomic energies from quantum Monte Carlo calculations. Physical Review A, 1995, 51, 1898-1904.	2.5	33
28	Hybrid simulations of stochastic reaction-diffusion processes for modeling intracellular signaling pathways. Physical Review E, 2006, 74, 051910.	2.1	33
29	ArhGAP9, a novel MAP kinase docking protein, inhibits Erk and p38 activation through WW domain binding. Journal of Molecular Signaling, 2007, 2, 1.	0.5	33
30	Quantifying Forces Mediated by Integral Tight Junction Proteins in Cellâ€“Cell Adhesion. Experimental Mechanics, 2009, 49, 3-9.	2.0	29
31	Whole-genome sequencing analysis of phenotypic heterogeneity and anticipation in Liâ€“Fraumeni cancer predisposition syndrome. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 15497-15501.	7.1	29
32	Pseudopotentials for correlated-electron calculations. Physical Review B, 2000, 62, 13347-13355.	3.2	27
33	Dynamics, Spectra, and Relaxation Phenomena of Excess Electrons in Clusters. Israel Journal of Chemistry, 1990, 30, 85-105.	2.3	22
34	Quantum Monte Carlo Calculations of the Energy of the Relativistic Homogeneous Electron Gas. Physical Review Letters, 1996, 77, 1099-1102.	7.8	16
35	Comment on â€œQuantum Monte Carlo study of the dipole moment of COâ€•[J. Chem. Phys. 110, 11700 (1999)]. Journal of Chemical Physics, 2000, 112, 4419-4420.	3.0	16
36	Facilitating arrhythmia simulation: the method of quantitative cellular automata modeling and parallel running. BioMedical Engineering OnLine, 2004, 3, 29.	2.7	16

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37	3D Meshless Prostate Segmentation and Registration in Image Guided Radiotherapy. Lecture Notes in Computer Science, 2009, 12, 43-50.	1.3	15
38	Group-based variant calling leveraging next-generation supercomputing for large-scale whole-genome sequencing studies. BMC Bioinformatics, 2015, 16, 304.	2.6	12
39	An exact calculation of the flavour-changing quark-photon vertex. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1985, 156, 405-410.	4.1	11
40	Quantum Monte Carlo calculations for ground and excited states. International Journal of Quantum Chemistry, 2002, 86, 218-225.	2.0	11
41	A Quantum Monte Carlo Approach to the Adiabatic Connection Method. Advances in Quantum Chemistry, 1998, 33, 189-207.	0.8	10
42	Oscillations in intracellular signaling cascades. Physical Review E, 2007, 75, 061901.	2.1	10
43	First-principles calculations of the adsorbate-induced surface stress of. Surface Science, 1997, 372, 179-184.	1.9	9
44	Molecular force spectroscopy of homophilic nectin-1 interactions. Biochemical and Biophysical Research Communications, 2007, 362, 886-892.	2.1	6
45	Quantum Monte Carlo Study of Silicon Self-interstitial Defects. VLSI Design, 2001, 13, 229-235.	0.5	5
46	Gastric Cancer (Biomarkers) Knowledgebase (GCBKB): A Curated and Fully Integrated Knowledgebase of Putative Biomarkers Related to Gastric Cancer. Biomarker Insights, 2006, 1, 117727190600100.	2.5	1
47	Identification and Modeling of TEL-AML1 (ETV6-RUNX1) Molecular Signature In Acute Lymphoblastic Leukemia. Blood, 2010, 116, 2500-2500.	1.4	0