Gunaretnam Rajagopal

List of Publications by Year
in descending order

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Version: 2024-02-01

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	Homologyâ€based hydrogen bond information improves crystallographic structures in the <scp>PDB</scp>. Protein Science, 2018, 27, 798-808.	7.6	41
2	The path from big data to precision medicine. Expert Review of Precision Medicine and Drug Development, 2016, 1, 129-143.	0.7	37
3	Group-based variant calling leveraging next-generation supercomputing for large-scale whole-genome sequencing studies. BMC Bioinformatics, 2015, 16, 304.	2.6	12
4	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
5	Identifying microRNA/mRNA dysregulations in ovarian cancer. BMC Research Notes, 2012, 5, 164.	1.4	82
6	Identification and Modeling of TEL-AML1 (ETV6-RUNX1) Molecular Signature In Acute Lymphoblastic Leukemia. Blood, 2010, 116, 2500-2500.	1.4	0
7	3D Meshless Prostate Segmentation and Registration in Image Guided Radiotherapy. Lecture Notes in Computer Science, 2009, 12, 43-50.	1.3	15
8	Quantifying Forces Mediated by Integral Tight Junction Proteins in Cellâ€“Cell Adhesion. Experimental Mechanics, 2009, 49, 3-9.	2.0	29
9	Negative Feedback Governs Gonadotrope Frequency-Decoding of Gonadotropin Releasing Hormone Pulse-Frequency. PLoS ONE, 2009, 4, e7244.	2.5	47
10	The tumor suppressor p53: Cancer and aging. Cell Cycle, 2008, 7, 842-847.	2.6	106
11	Oscillations in intracellular signaling cascades. Physical Review E, 2007, 75, 061901.	2.1	10
12	Molecular force spectroscopy of homophilic nectin-1 interactions. Biochemical and Biophysical Research Communications, 2007, 362, 886-892.	2.1	6
13	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
14	The p53 knowledgebase: an integrated information resource for p53 research. Oncogene, 2007, 26, 1517-1521.	5.9	40
15	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
16	Hybrid simulations of stochastic reaction-diffusion processes for modeling intracellular signaling pathways. Physical Review E, 2006, 74, 051910.	2.1	33
17	Facilitating arrhythmia simulation: the method of quantitative cellular automata modeling and parallel running. BioMedical Engineering OnLine, 2004, 3, 29.	2.7	16
18	Ab initiocalculations of the cohesive energy and the bulk modulus of aluminium. Journal of Physics Condensed Matter, 2002, 14, 8787-8793.	1.8	53

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19	Quantum Monte Carlo calculations for ground and excited states. International Journal of Quantum Chemistry, 2002, 86, 218-225.	2.0	11
20	Quantum Monte Carlo simulations of solids. Reviews of Modern Physics, 2001, 73, 33-83.	45.6	1,813
21	Quantum Monte Carlo Study of Silicon Self-interstitial Defects. VLSI Design, 2001, 13, 229-235.	0.5	5
22	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
23	Pseudopotentials for correlated-electron calculations. Physical Review B, 2000, 62, 13347-13355.	3.2	27
24	Carbon clusters near the crossover to fullerene stability. Physical Review B, 2000, 62, 15394-15397.	3.2	83
25	Finite-size errors in quantum many-body simulations of extended systems. Physical Review B, 1999, 59, 1917-1929.	3.2	98
26	Monte Carlo energy and variance-minimization techniques for optimizing many-body wave functions. Physical Review B, 1999, 59, 12344-12351.	3.2	94
27	Calculations of Silicon Self-Interstitial Defects. Physical Review Letters, 1999, 83, 2351-2354.	7.8	166
28	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
29	Diffusion quantum Monte Carlo calculations of the excited states of silicon. Physical Review B, 1998, 57, 12140-12144.	3.2	81
30	Exchange and correlation in silicon. Physical Review B, 1998, 57, 8972-8982.	3.2	117
31	A Quantum Monte Carlo Approach to the Adiabatic Connection Method. Advances in Quantum Chemistry, 1998, 33, 189-207.	0.8	10
32	Elimination of Coulomb finite-size effects in quantum many-body simulations. Physical Review B, 1997, 55, R4851-R4854.	3.2	99
33	Quantum Monte Carlo Investigation of Exchange and Correlation in Silicon. Physical Review Letters, 1997, 78, 3350-3353.	7.8	65
34	First-principles calculations of the adsorbate-induced surface stress of. Surface Science, 1997, 372, 179-184.	1.9	9
35	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
36	Quantum Monte Carlo Calculations of the Energy of the Relativistic Homogeneous Electron Gas. Physical Review Letters, 1996, 77, 1099-1102.	7.8	16

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37	Optimized wave functions for quantum Monte Carlo studies of atoms and solids. Physical Review B, 1996, 53, 9640-9648.	3.2	57
38	Relativistic corrections to atomic energies from quantum Monte Carlo calculations. Physical Review A, 1995, 51, 1898-1904.	2.5	33
39	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
40	An Optimized Ewald Method for Long-Ranged Potentials. Journal of Computational Physics, 1994, 115, 399-405.	3.8	34
41	Quantum Monte Carlo Calculations for Solids Using SpecialkPoints Methods. Physical Review Letters, 1994, 73, 1959-1962.	7.8	72
42	Metallization of ionic clusters. Physical Review Letters, 1991, 67, 727-730.	7.8	104
43	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
44	Patterns and barriers for fission of charged small metal clusters. Physical Review Letters, 1991, 67, 3058-3061.	7.8	126
45	Dynamics, Spectra, and Relaxation Phenomena of Excess Electrons in Clusters. Israel Journal of Chemistry, 1990, 30, 85-105.	2.3	22
46	Optical spectra of localized excess electrons in alkali halide clusters. Physical Review Letters, 1990, 64, 2933-2936.	7.8	106
47	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