

Robert S Sinkovits

List of Publications by Year in descending order

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58
papers

2,063
citations

361045

20
h-index

288905

40
g-index

59
all docs

59
docs citations

59
times ranked

2986
citing authors

#	ARTICLE	IF	CITATIONS
1	Fast and Accurate Determination of Graph Node Connectivity Leveraging Approximate Methods. Lecture Notes in Computer Science, 2021, , 500-513.	1.0	0
2	Expanse: Computing without Boundaries. , 2021, , .		10
3	PyIR: a scalable wrapper for processing billions of immunoglobulin and T cell receptor sequences using IgBLAST. BMC Bioinformatics, 2020, 21, 314.	1.2	21
4	High Frequency of Shared Clonotypes in Human T Cell Receptor Repertoires. Cell Reports, 2020, 32, 107882.	2.9	39
5	High frequency of shared clonotypes in human B cell receptor repertoires. Nature, 2019, 566, 398-402.	13.7	262
6	Deploying Jupyter Notebooks at scale on XSEDE resources for Science Gateways and workshops. , 2018, , .		7
7	A bioinformatics roadmap for the human vaccines project. Expert Review of Vaccines, 2017, 16, 535-544.	2.0	6
8	Performance Characterization and Optimization Assessment of Bioinformatics Applications. , 2017, , .		0
9	Comet. , 2017, , .		5
10	Fast determination of structurally cohesive subgroups in large networks. Journal of Computational Science, 2016, 17, 62-72.	1.5	6
11	Optimization and parallel load balancing of the MPAS Atmosphere Weather and Climate Code. , 2016, , .		2
12	FlowGate. , 2015, , .		5
13	Fast construction of nanosecond level snapshots of financial markets. Concurrency Computation Practice and Experience, 2014, 26, 2149-2156.	1.4	4
14	Gateways to Discovery. , 2014, , .		34
15	Fast, Low-Memory Algorithm for Construction of Nanosecond Level Snapshots of Financial Markets. , 2014, , .		1
16	Performance of Applications using Dual-Rail InfiniBand 3D Torus network on the Gordon Supercomputer. , 2014, , .		1
17	Three-dimensional reconstruction of icosahedral particles from single micrographs in real time at the microscope. Journal of Structural Biology, 2013, 183, 329-341.	1.3	6
18	Capsid Antibodies to Different Adeno-Associated Virus Serotypes Bind Common Regions. Journal of Virology, 2013, 87, 9111-9124.	1.5	102

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19	A Real-Time 3D Reconstruction System for Screening Icosahedral Particles Under Different Conditions at the Microscope. <i>Microscopy and Microanalysis</i> , 2013, 19, 764-765.	0.2	0
20	Fast construction of nanosecond level snapshots of financial markets. , 2013, , .		1
21	Structural Insight into the Unique Properties of Adeno-Associated Virus Serotype 9. <i>Journal of Virology</i> , 2012, 86, 6947-6958.	1.5	163
22	Gordon. , 2012, , .		16
23	Network Cosmology. <i>Scientific Reports</i> , 2012, 2, 793.	1.6	96
24	Structural Analysis of Coxsackievirus A7 Reveals Conformational Changes Associated with Uncoating. <i>Journal of Virology</i> , 2012, 86, 7207-7215.	1.5	41
25	Controlling and Switching the Morphology of Micellar Nanoparticles with Enzymes. <i>Journal of the American Chemical Society</i> , 2011, 133, 8392-8395.	6.6	166
26	Subset removal on massive data with Dash. , 2011, , .		2
27	Data intensive analysis on the gordon high performance data and compute system. , 2011, , .		8
28	Evaluation of I/O technologies on a flash-based I/O sub-system for HPC. , 2011, , .		3
29	Cryo-reconstructions of P22 polyheads suggest that phage assembly is nucleated by trimeric interactions among coat proteins. <i>Physical Biology</i> , 2010, 7, 045004.	0.8	29
30	Three-Dimensional Asymmetric Reconstruction of Tailed Bacteriophage. <i>Methods in Enzymology</i> , 2010, 482, 185-210.	0.4	4
31	Interaction of \hat{V}_3 and \hat{V}_6 Integrins with Human Parvovirus 1. <i>Journal of Virology</i> , 2010, 84, 8509-8519.	1.5	59
32	Human Bocavirus Capsid Structure: Insights into the Structural Repertoire of the <i>Parvoviridae</i> . <i>Journal of Virology</i> , 2010, 84, 5880-5889.	1.5	79
33	A tale of two symmetrons: Rules for construction of icosahedral capsids from trisymmetrons and pentasymmetrons. <i>Journal of Structural Biology</i> , 2010, 170, 109-116.	1.3	12
34	Atomic structure reveals the unique capsid organization of a dsRNA virus. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 4225-4230.	3.3	80
35	Partitivirus Structure Reveals a 120-Subunit, Helix-Rich Capsid with Distinctive Surface Arches Formed by Quasisymmetric Coat-Protein Dimers. <i>Structure</i> , 2008, 16, 776-786.	1.6	58
36	Infectious myonecrosis virus has a totivirus-like, 120-subunit capsid, but with fiber complexes at the fivefold axes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 17526-17531.	3.3	57

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37	AUTO3DEM—an automated and high throughput program for image reconstruction of icosahedral particles. <i>Journal of Structural Biology</i> , 2007, 157, 73-82.	1.3	173
38	Components of the antigen processing and presentation pathway revealed by gene expression microarray analysis following B cell antigen receptor (BCR) stimulation. <i>BMC Bioinformatics</i> , 2006, 7, 237.	1.2	33
39	Overview of the Alliance for Cellular Signaling. <i>Nature</i> , 2002, 420, 703-706.	13.7	134
40	Nonlinear acoustics in granular assemblies. <i>Granular Matter</i> , 2001, 3, 33-39.	1.1	21
41	Slow algebraic relaxation in quartic potentials and related results. <i>Physical Review E</i> , 1999, 59, 6497-6512.	0.8	10
42	Nonequilibrium hydrogen temperatures under diamond chemical vapor deposition conditions. <i>Applied Physics Letters</i> , 1997, 70, 78-80.	1.5	0
43	Simulations of High Knudsen Number Flows in a Channel-Wedge Configuration. <i>AIAA Journal</i> , 1997, 35, 1486-1492.	1.5	3
44	Simulations of high Knudsen number flows in a channel-wedge configuration. <i>AIAA Journal</i> , 1997, 35, 1486-1492.	1.5	0
45	Kinetic effects in the chemistry of diamond CVD source gases and implications for diamond growth. <i>Diamond and Related Materials</i> , 1996, 5, 1344-1354.	1.8	2
46	Algebraic Relaxation Laws for Classical Particles in 1D Anharmonic Potentials. <i>Physical Review Letters</i> , 1996, 77, 4855-4859.	2.9	17
47	Sound propagation in impure granular columns. <i>Physical Review E</i> , 1996, 54, 6857-6865.	0.8	79
48	Relaxation of classical particles in anharmonic multi-well potentials. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1996, 224, 292-301.	1.2	4
49	Parallelization of direct simulation Monte Carlo method combined with monotonic Lagrangian grid. <i>AIAA Journal</i> , 1996, 34, 1363-1370.	1.5	10
50	Direct simulation Monte Carlo study of H/H ₂ and H/H ₂ /CO mixtures for diamond chemical vapor deposition. <i>Journal of Applied Physics</i> , 1996, 80, 6474-6488.	1.1	5
51	He adsorption and intercalation in C ₆₀ fullerite crystals. <i>Physical Review B</i> , 1995, 51, 13841-13844.	1.1	8
52	Nonlinear Dynamics in Granular Columns. <i>Physical Review Letters</i> , 1995, 74, 2686-2689.	2.9	118
53	An analysis of gas phase ethanol-water chemistry for diamond CVD. <i>Diamond and Related Materials</i> , 1995, 4, 1277-1288.	1.8	2
54	Computer simulation of random sequential adsorption of two interacting species on a lattice. <i>Journal of Statistical Physics</i> , 1994, 74, 457-463.	0.5	3

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55	Scaling relations for the slippery ballistic growth model. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1994, 209, 1-8.	1.2	26
56	A Technique for Regularizing the Structure of a Monotonic Lagrangian Grid. <i>Journal of Computational Physics</i> , 1993, 108, 368-372.	1.9	8
57	The interaction of shocks and defects in Lennard-Jones crystals. <i>Journal of Physics Condensed Matter</i> , 1993, 5, 6357-6376.	0.7	19
58	Molecular Dynamics Simulations of Shock-Defect Interactions in Two-Dimensional Nonreactive Crystals. <i>Materials Research Society Symposia Proceedings</i> , 1992, 296, 161.	0.1	2