

# Robert S Sinkovits

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/1138393/publications.pdf>

Version: 2024-02-01

58  
papers

2,063  
citations

361296

20  
h-index

289141

40  
g-index

59  
all docs

59  
docs citations

59  
times ranked

2986  
citing authors

#	ARTICLE	IF	CITATIONS
1	High frequency of shared clonotypes in human B cell receptor repertoires. <i>Nature</i> , 2019, 566, 398-402.	13.7	262
2	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
3	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
4	Structural Insight into the Unique Properties of Adeno-Associated Virus Serotype 9. <i>Journal of Virology</i> , 2012, 86, 6947-6958.	1.5	163
5	Overview of the Alliance for Cellular Signaling. <i>Nature</i> , 2002, 420, 703-706.	13.7	134
6	Nonlinear Dynamics in Granular Columns. <i>Physical Review Letters</i> , 1995, 74, 2686-2689.	2.9	118
7	Capsid Antibodies to Different Adeno-Associated Virus Serotypes Bind Common Regions. <i>Journal of Virology</i> , 2013, 87, 9111-9124.	1.5	102
8	Network Cosmology. <i>Scientific Reports</i> , 2012, 2, 793.	1.6	96
9	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
10	Sound propagation in impure granular columns. <i>Physical Review E</i> , 1996, 54, 6857-6865.	0.8	79
11	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
12	Interaction of $\hat{I}_{\pm} \langle \text{sub} \rangle V \langle \text{sub} \rangle \hat{I}^2 \langle \text{sub} \rangle 3 \langle \text{sub} \rangle$ and $\hat{I}_{\pm} \langle \text{sub} \rangle V \langle \text{sub} \rangle \hat{I}^2 \langle \text{sub} \rangle 6 \langle \text{sub} \rangle$ Integrins with Human Parechovirus 1. <i>Journal of Virology</i> , 2010, 84, 8509-8519.	1.5	59
13	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
14	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
15	Structural Analysis of Coxsackievirus A7 Reveals Conformational Changes Associated with Uncoating. <i>Journal of Virology</i> , 2012, 86, 7207-7215.	1.5	41
16	High Frequency of Shared Clonotypes in Human T Cell Receptor Repertoires. <i>Cell Reports</i> , 2020, 32, 107882.	2.9	39
17	Gateways to Discovery. , 2014, , .		34
18	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

#	ARTICLE	IF	CITATIONS
19	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
20	Scaling relations for the slippery ballistic growth model. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1994, 209, 1-8.	1.2	26
21	Nonlinear acoustics in granular assemblies. <i>Granular Matter</i> , 2001, 3, 33-39.	1.1	21
22	PyIR: a scalable wrapper for processing billions of immunoglobulin and T cell receptor sequences using IgBLAST. <i>BMC Bioinformatics</i> , 2020, 21, 314.	1.2	21
23	The interaction of shocks and defects in Lennard-Jones crystals. <i>Journal of Physics Condensed Matter</i> , 1993, 5, 6357-6376.	0.7	19
24	Algebraic Relaxation Laws for Classical Particles in 1D Anharmonic Potentials. <i>Physical Review Letters</i> , 1996, 77, 4855-4859.	2.9	17
25	Gordon. , 2012, , .		16
26	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
27	Parallelization of direct simulation Monte Carlo method combined with monotonic Lagrangian grid. <i>AAA Journal</i> , 1996, 34, 1363-1370.	1.5	10
28	Slow algebraic relaxation in quartic potentials and related results. <i>Physical Review E</i> , 1999, 59, 6497-6512.	0.8	10
29	Expanse: Computing without Boundaries. , 2021, , .		10
30	A Technique for Regularizing the Structure of a Monotonic Lagrangian Grid. <i>Journal of Computational Physics</i> , 1993, 108, 368-372.	1.9	8
31	He adsorption and intercalation in C60 fullerite crystals. <i>Physical Review B</i> , 1995, 51, 13841-13844.	1.1	8
32	Data intensive analysis on the gordon high performance data and compute system. , 2011, , .		8
33	Deploying Jupyter Notebooks at scale on XSEDE resources for Science Gateways and workshops. , 2018, , .		7
34	Three-dimensional reconstruction of icosahedral particles from single micrographs in real time at the microscope. <i>Journal of Structural Biology</i> , 2013, 183, 329-341.	1.3	6
35	Fast determination of structurally cohesive subgroups in large networks. <i>Journal of Computational Science</i> , 2016, 17, 62-72.	1.5	6
36	A bioinformatics roadmap for the human vaccines project. <i>Expert Review of Vaccines</i> , 2017, 16, 535-544.	2.0	6

#	ARTICLE	IF	CITATIONS
37	Direct simulation Monte Carlo study of H/H <sub>2</sub> and H/H <sub>2</sub> /CO mixtures for diamond chemical vapor deposition. <i>Journal of Applied Physics</i> , 1996, 80, 6474-6488.	1.1	5
38	FlowGate. , 2015, , .		5
39	Comet. , 2017, , .		5
40	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
41	Three-Dimensional Asymmetric Reconstruction of Tailed Bacteriophage. <i>Methods in Enzymology</i> , 2010, 482, 185-210.	0.4	4
42	Fast construction of nanosecond level snapshots of financial markets. <i>Concurrency Computation Practice and Experience</i> , 2014, 26, 2149-2156.	1.4	4
43	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
44	Simulations of High Knudsen Number Flows in a Channel-Wedge Configuration. <i>AIAA Journal</i> , 1997, 35, 1486-1492.	1.5	3
45	Evaluation of I/O technologies on a flash-based I/O sub-system for HPC. , 2011, , .		3
46	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
47	An analysis of gas phase ethanol-water chemistry for diamond CVD. <i>Diamond and Related Materials</i> , 1995, 4, 1277-1288.	1.8	2
48	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
49	Subset removal on massive data with Dash. , 2011, , .		2
50	Optimization and parallel load balancing of the MPAS Atmosphere Weather and Climate Code. , 2016, , .		2
51	Fast construction of nanosecond level snapshots of financial markets. , 2013, , .		1
52	Fast, Low-Memory Algorithm for Construction of Nanosecond Level Snapshots of Financial Markets. , 2014, , .		1
53	Performance of Applications using Dual-Rail InfiniBand 3D Torus network on the Gordon Supercomputer. , 2014, , .		1
54	Nonequilibrium hydrogen temperatures under diamond chemical vapor deposition conditions. <i>Applied Physics Letters</i> , 1997, 70, 78-80.	1.5	0

#	ARTICLE	IF	CITATIONS
55	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
56	Performance Characterization and Optimization Assessment of Bioinformatics Applications. , 2017, , .		0
57	Fast and Accurate Determination of Graph Node Connectivity Leveraging Approximate Methods. <i>Lecture Notes in Computer Science</i> , 2021, , 500-513.	1.0	0
58	Simulations of high Knudsen number flows in a channel-wedge configuration. <i>AIAA Journal</i> , 1997, 35, 1486-1492.	1.5	0