

# Todd J Satogata

## List of Publications by Year in descending order

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Version: 2024-02-01

72  
papers

863  
citations

840776

11  
h-index

940533

16  
g-index

104  
all docs

104  
docs citations

104  
times ranked

1438  
citing authors

#	ARTICLE	IF	CITATIONS
1	Conceptual design of a proton computed tomography system for applications in proton radiation therapy. IEEE Transactions on Nuclear Science, 2004, 51, 866-872.	2.0	177
2	Density resolution of proton computed tomography. Medical Physics, 2005, 32, 1035-1046.	3.0	135
3	Proton-nucleus collisions at the LHC: scientific opportunities and requirements. Journal of Physics G: Nuclear and Particle Physics, 2012, 39, 015010.	3.6	120
4	Reconstruction for proton computed tomography by tracing proton trajectories: A Monte Carlo study. Medical Physics, 2006, 33, 699-706.	3.0	113
5	Toward Proton Computed Tomography. IEEE Transactions on Nuclear Science, 2004, 51, 3-9.	2.0	44
6	The European Spallation Source. Nuclear Instruments & Methods in Physics Research B, 2011, 269, 3258-3260.	1.4	40
7	The GlueX beamline and detector. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2021, 987, 164807.	1.6	37
8	Driven response of a trapped particle beam. Physical Review Letters, 1992, 68, 1838-1841.	7.8	24
9	Electron cloud measurements and simulations for the Brookhaven Relativistic Heavy Ion Collider. Physical Review Special Topics: Accelerators and Beams, 2002, 5, .	1.8	23
10	Polarized Proton Collisions at 205 GeV at RHIC. Physical Review Letters, 2006, 96, 174801.	7.8	21
11	Measurements of a Hamiltonian system and their description by a diffusive model. Physical Review Letters, 1992, 68, 33-36.	7.8	16
12	RHIC beam instrumentation. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2003, 499, 372-387.	1.6	10
13	Commissioning of RHIC deuteron-gold collisions. , 0, , .		10
14	A survey of hadron therapy accelerator technologies. , 2007, , .		7
15	Beam injection into RHIC. , 0, , .		6
16	Operations and Performance of RHIC as a Cu-Cu Collider. , 0, , .		6
17	Beam Induced Pressure Rise in RHIC. , 0, , .		5
18	Optic issues in ongoing ERL projects. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2006, 557, 145-164.	1.6	5

#	ARTICLE	IF	CITATIONS
19	Demonstration of electron cooling using a pulsed beam from an electrostatic electron cooler. Physical Review Accelerators and Beams, 2021, 24, .	1.6	5
20	RHIC challenges for low energy operations. , 2007, , .		4
21	Ramp management in RHIC. , 0, , .		3
22	RHIC data correlation methodology. , 0, , .		3
23	Reconstruction for proton computed tomography: a practical approach. , 0, , .		3
24	Quadrupole Beam-Based Alignment at RHIC. , 0, , .		3
25	Observation of helium flow induced beam orbit oscillations at RHIC. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2006, 564, 26-31.	1.6	3
26	Unix Data Acquisition System. , 0, , .		2
27	Measurement of IR optics with linear couplingâ€™s action-angle parametrization. Physical Review Special Topics: Accelerators and Beams, 2005, 8, .	1.8	2
28	Observation of Electron-Ion Effects at RHIC Transition. , 0, , .		2
29	Beam-Based Alignment in the RHIC E-Cooling Solenoids. , 0, , .		2
30	Summary of the rhic performance during the FY07 heavy ion run. , 2007, , .		2
31	Accelerating polarized protons to 250 GeV. , 2007, , .		2
32	Proton Computed Tomography. , 2008, , 3-16.		2
33	Helium Flow Induced Orbit Jitter at RHIC. , 0, , .		1
34	RHIC BPM System Modifications and Performance. , 0, , .		1
35	Measurement of Transverse Echoes in RHIC. , 0, , .		1
36	Fast IR Orbit Feedback at RHIC. , 0, , .		1

#	ARTICLE	IF	CITATIONS
37	Joining the RHIC Online and Off-Line Models. , 0, , .		1
38	Is beta modulation more or less potent than tune modulation?. , 0, , .		0
39	A simulation of modulational diffusion for the Fermilab Tevatron. AIP Conference Proceedings, 1992, , .	0.4	0
40	Beam-beam modulational diffusion in 2 1/2 dimensions. , 0, , .		0
41	RHIC chromatic correction system. AIP Conference Proceedings, 1994, , .	0.4	0
42	High level controls at RHIC. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1994, 352, 322-324.	1.6	0
43	The RHIC transfer line cable database. , 0, , .		0
44	Commissioning results and applications. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2003, 499, 415-427.	1.6	0
45	Dose/sensitivity in proton computed tomography. , 0, , .		0
46	Publisher's Note: Measurement of IR optics with linear coupling's action-angle parametrization [Phys. Rev. ST Accel. Beams 8, 084001 (2005)]. Physical Review Special Topics: Accelerators and Beams, 2005, 8, .	1.8	0
47	IR Optics Measurement with Linear Coupling's Action-Angle Parameterization. , 0, , .		0
48	RHIC Beam Position Monitor Calibration. AIP Conference Proceedings, 2006, , .	0.4	0
49	RHIC beam-based sextupole polarity verification. , 2007, , .		0
50	Measurement and correction of third resonance driving term in the RHIC. , 2007, , .		0
51	Dynamic collaborative documentation at the Brookhaven National Laboratory Collider-Accelerator Department. , 2007, , .		0
52	RHIC Performance with Polarized Protons in Run-6. AIP Conference Proceedings, 2007, , .	0.4	0
53	Accelerating Polarized Protons to High Energy. AIP Conference Proceedings, 2007, , .	0.4	0
54	RHIC Polarized Proton Performance in Run-8. , 2009, , .		0

#	ARTICLE	IF	CITATIONS
55	Observation of snake resonances at Relativistic Heavy Ion Collider. Journal of Physics: Conference Series, 2011, 295, 012142.	0.4	0
56	Linear Motion. , 0, , 13-23.		0
57	Strong Focusing Transverse Optics. , 0, , 24-36.		0
58	Longitudinal and Off-Momentum Motion. , 0, , 37-49.		0
59	Action and Emittance â€œ One Particle or Many?. , 0, , 50-62.		0
60	Magnets. , 0, , 63-72.		0
61	RF Cavities. , 0, , 73-82.		0
62	Linear Errors and Their Correction. , 0, , 83-93.		0
63	Sextupoles, Chromaticity and the HÃ©non Map. , 0, , 94-106.		0
64	Octupoles, Detuning and Slow Extraction. , 0, , 107-115.		0
65	Synchrotron Radiation â€œ Classical Damping. , 0, , 116-130.		0
66	Synchrotron Radiation â€œ Quantum Excitation. , 0, , 131-140.		0
67	Linacs â€œ Protons and Ions. , 0, , 141-158.		0
68	Linacs â€œ Electrons. , 0, , 159-169.		0
69	The Beamâ€œBeam Interaction and 1-D Resonances. , 0, , 170-180.		0
70	Routes to Chaos. , 0, , 181-190.		0
71	RHIC Low-Energy Operations and Plans. , 2008, , .		0
72	Low energy program at RHIC. , 2010, , .		0