

# Todd J Satogata

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/6262771/publications.pdf>

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  | 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        |
| 2  | Demonstration of electron cooling using a pulsed beam from an electrostatic electron cooler. Physical Review Accelerators and Beams, 2021, 24, .                                     | 1.6 | 5         |
| 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  | Observation of snake resonances at Relativistic Heavy Ion Collider. Journal of Physics: Conference Series, 2011, 295, 012142.  | 0.4 | 0         |
| 5  | The European Spallation Source. Nuclear Instruments & Methods in Physics Research B, 2011, 269, 3258-3260.   | 1.4 | 40        |
| 6  | Low energy program at RHIC. , 2010, , .  |     | 0         |
| 7  | RHIC Polarized Proton Performance in Run-8. , 2009, , .  |     | 0         |
| 8  | Proton Computed Tomography. , 2008, , 3-16.  |     | 2         |
| 9  | RHIC Low-Energy Operations and Plans. , 2008, , .  |     | 0         |
| 10 | RHIC beam-based sextupole polarity verification. , 2007, , .   |     | 0         |
| 11 | A survey of hadron therapy accelerator technologies. , 2007, , .   |     | 7         |
| 12 | RHIC challenges for low energy operations. , 2007, , .   |     | 4         |
| 13 | Summary of the rhic performance during the FY07 heavy ion run. , 2007, , .   |     | 2         |
| 14 | Measurement and correction of third resonance driving term in the RHIC. , 2007, , .  |     | 0         |
| 15 | Dynamic collaborative documentation at the Brookhaven National Laboratory Collider-Accelerator Department. , 2007, , .   |     | 0         |
| 16 | Accelerating polarized protons to 250 GeV. , 2007, , .   |     | 2         |
| 17 | RHIC Performance with Polarized Protons in Run-6. AIP Conference Proceedings, 2007, , .  | 0.4 | 0         |
| 18 | Accelerating Polarized Protons to High Energy. AIP Conference Proceedings, 2007, , .   | 0.4 | 0         |

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 19 | 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         |
| 20 | 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         |
| 21 | RHIC Beam Position Monitor Calibration. AIP Conference Proceedings, 2006, , .  | 0.4 | 0         |
| 22 | Polarized Proton Collisions at 205 GeV at RHIC. Physical Review Letters, 2006, 96, 174801.   | 7.8 | 21        |
| 23 | Reconstruction for proton computed tomography by tracing proton trajectories: A Monte Carlo study. Medical Physics, 2006, 33, 699-706.   | 3.0 | 113       |
| 24 | Density resolution of proton computed tomography. Medical Physics, 2005, 32, 1035-1046.  | 3.0 | 135       |
| 25 | 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         |
| 26 | Measurement of IR optics with linear coupling's action-angle parametrization. Physical Review Special Topics: Accelerators and Beams, 2005, 8, .   | 1.8 | 2         |
| 27 | Toward Proton Computed Tomography. IEEE Transactions on Nuclear Science, 2004, 51, 3-9.  | 2.0 | 44        |
| 28 | 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       |
| 29 | 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        |
| 30 | 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         |
| 31 | Electron cloud measurements and simulations for the Brookhaven Relativistic Heavy Ion Collider. Physical Review Special Topics: Accelerators and Beams, 2002, 5, .   | 1.8 | 23        |
| 32 | RHIC chromatic correction system. AIP Conference Proceedings, 1994, , .  | 0.4 | 0         |
| 33 | 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         |
| 34 | Measurements of a Hamiltonian system and their description by a diffusive model. Physical Review Letters, 1992, 68, 33-36.   | 7.8 | 16        |
| 35 | Driven response of a trapped particle beam. Physical Review Letters, 1992, 68, 1838-1841.  | 7.8 | 24        |
| 36 | A simulation of modulational diffusion for the Fermilab Tevatron. AIP Conference Proceedings, 1992, , .  | 0.4 | 0         |

| #  | ARTICLE  | IF | CITATIONS |
|----|--|----|-----------|
| 37 | Is beta modulation more or less potent than tune modulation?. , 0, , .               |    | 0         |
| 38 | Unix Data Acquisition System. , 0, , .   |    | 2         |
| 39 | Beam-beam modulational diffusion in 2 1/2 dimensions. , 0, , .                       |    | 0         |
| 40 | The RHIC transfer line cable database. , 0, , .                                      |    | 0         |
| 41 | Beam injection into RHIC. , 0, , .   |    | 6         |
| 42 | Ramp management in RHIC. , 0, , .  |    | 3         |
| 43 | RHIC data correlation methodology. , 0, , .  |    | 3         |
| 44 | Commissioning of RHIC deuteron-gold collisions. , 0, , .                             |    | 10        |
| 45 | Dose/sensitivity in proton computed tomography. , 0, , .                             |    | 0         |
| 46 | Reconstruction for proton computed tomography: a practical approach. , 0, , .        |    | 3         |
| 47 | Helium Flow Induced Orbit Jitter at RHIC. , 0, , .                                   |    | 1         |
| 48 | Beam Induced Pressure Rise in RHIC. , 0, , .   |    | 5         |
| 49 | Operations and Performance of RHIC as a Cu-Cu Collider. , 0, , .                     |    | 6         |
| 50 | IR Optics Measurement with Linear Coupling's Action-Angle Parameterization. , 0, , . |    | 0         |
| 51 | RHIC BPM System Modifications and Performance. , 0, , .                              |    | 1         |
| 52 | Observation of Electron-Ion Effects at RHIC Transition. , 0, , .                     |    | 2         |
| 53 | Beam-Based Alignment in the RHIC E-Cooling Solenoids. , 0, , .                       |    | 2         |
| 54 | Measurement of Transverse Echoes in RHIC. , 0, , .                                   |    | 1         |

| #  | ARTICLE   | IF | CITATIONS |
|----|---|----|-----------|
| 55 | Fast IR Orbit Feedback at RHIC. , 0, , .                        |    | 1         |
| 56 | Quadrupole Beam-Based Alignment at RHIC. , 0, , .               |    | 3         |
| 57 | Joining the RHIC Online and Off-Line Models. , 0, , .           |    | 1         |
| 58 | Linear Motion. , 0, , 13-23.                                    |    | 0         |
| 59 | Strong Focusing Transverse Optics. , 0, , 24-36.                |    | 0         |
| 60 | Longitudinal and Off-Momentum Motion. , 0, , 37-49.             |    | 0         |
| 61 | Action and Emittance â€œ One Particle or Many?. , 0, , 50-62.   |    | 0         |
| 62 | Magnets. , 0, , 63-72.  |    | 0         |
| 63 | RF Cavities. , 0, , 73-82.                                      |    | 0         |
| 64 | Linear Errors and Their Correction. , 0, , 83-93.               |    | 0         |
| 65 | Sextupoles, Chromaticity and the HÃ©non Map. , 0, , 94-106.     |    | 0         |
| 66 | Octupoles, Detuning and Slow Extraction. , 0, , 107-115.        |    | 0         |
| 67 | Synchrotron Radiation â€œ Classical Damping. , 0, , 116-130.    |    | 0         |
| 68 | Synchrotron Radiation â€œ Quantum Excitation. , 0, , 131-140.   |    | 0         |
| 69 | Linacs â€œ Protons and Ions. , 0, , 141-158.                    |    | 0         |
| 70 | Linacs â€œ Electrons. , 0, , 159-169.                           |    | 0         |
| 71 | The Beamâ€™Beam Interaction and 1-D Resonances. , 0, , 170-180. |    | 0         |
| 72 | Routes to Chaos. , 0, , 181-190.                                |    | 0         |