Gregory R Werner

List of Publications by Year
in descending order

29 papers	1,102 citations	516710 16 h-index	501196 28 g-index
30 all docs	30 docs citations	30 times ranked	1271 citing authors

#	Article	IF	Citations
1	Dielectric laser accelerators. Reviews of Modern Physics, 2014, 86, 1337-1389.	45.6	286
2	Kinetic Turbulence in Relativistic Plasma: From Thermal Bath to Nonthermal Continuum. Physical Review Letters, 2017, 118, 055103.	7.8	89
3	Nonthermal Particle Acceleration in 3D Relativistic Magnetic Reconnection in Pair Plasma. Astrophysical Journal Letters, 2017, 843, L27.	8.3	88
4	Electron and Ion Energization in Relativistic Plasma Turbulence. Physical Review Letters, 2019, 122, 055101.	7.8	77
5	Application of Dey–Mittra conformal boundary algorithm to 3D electromagnetic modeling. Journal of Computational Physics, 2009, 228, 7902-7916.	3.8	70
6	A stable FDTD algorithm for non-diagonal, anisotropic dielectrics. Journal of Computational Physics, 2007, 226, 1085-1101.	3.8	63
7	ON THE DISTRIBUTION OF PARTICLE ACCELERATION SITES IN PLASMOID-DOMINATED RELATIVISTIC MAGNETIC RECONNECTION. Astrophysical Journal, 2015, 815, 101.	4.5	58
8	A second-order 3D electromagnetics algorithm for curved interfaces between anisotropic dielectrics on a Yee mesh. Journal of Computational Physics, 2011, 230, 2060-2075.	3.8	56
9	System-size Convergence of Nonthermal Particle Acceleration in Relativistic Plasma Turbulence. Astrophysical Journal Letters, 2018, 867, L18.	8.3	43
10	First-principles Demonstration of Diffusive-advective Particle Acceleration in Kinetic Simulations of Relativistic Plasma Turbulence. Astrophysical Journal Letters, 2020, 893, L7.	8.3	36
11	Particle acceleration in relativistic magnetic reconnection with strong inverse-Compton cooling in pair plasmas. Monthly Notices of the Royal Astronomical Society: Letters, 2019, 482, L60-L64.	3.3	35
12	Numerical investigation of kinetic turbulence in relativistic pair plasmas – I. Turbulence statistics. Monthly Notices of the Royal Astronomical Society, 2018, 474, 2514-2535.	4.4	30
13	Reconnection and particle acceleration in three-dimensional current sheet evolution in moderately magnetized astrophysical pair plasma. Journal of Plasma Physics, 2021, 87, .	2.1	26
14	Kinetic turbulence in shining pair plasma: intermittent beaming and thermalization by radiative cooling. Monthly Notices of the Royal Astronomical Society, 2020, 493, 603-626.	4.4	25
15	Extracting degenerate modes and frequencies from time-domain simulations with filter-diagonalization. Journal of Computational Physics, 2008, 227, 5200-5214.	3.8	22
16	Kinetic beaming in radiative relativistic magnetic reconnection: a mechanism for rapid gamma-ray flares in jets. Monthly Notices of the Royal Astronomical Society, 2020, 498, 799-820.	4.4	20
17	Truncated photonic crystal cavities with optimized mode confinement. Journal of Applied Physics, 2008, 104, 053107.	2.5	16
18	A more accurate, stable, FDTD algorithm for electromagnetics in anisotropic dielectrics. Journal of Computational Physics, 2013, 255, 436-455.	3.8	16

#	Article	IF	Citations
19	Speeding up simulations by slowing down particles: Speed-limited particle-in-cell simulation. Physics of Plasmas, 2018, 25, 123512.	1.9	9
20	Wakefields in photonic crystal cavities. Physical Review Special Topics: Accelerators and Beams, 2009, 12, .	1.8	7
21	Kinetic Simulations of Instabilities and Particle Acceleration in Cylindrical Magnetized Relativistic Jets. Astrophysical Journal, 2022, 931, 137.	4.5	6
22	Origin and reduction of wakefields in photonic crystal accelerator cavities. Physical Review Special Topics: Accelerators and Beams, 2014, 17, .	1.8	5
23	Computing the Paschen curve for argon with speed-limited particle-in-cell simulation. Physics of Plasmas, 2021, 28, .	1.9	5
24	Select Advances in Computational Accelerator Physics. IEEE Transactions on Nuclear Science, 2016, 63, 823-841.	2.0	4
25	A fast multigrid-based electromagnetic eigensolver for curved metal boundaries on the Yee mesh. Journal of Computational Physics, 2013, 251, 524-534.	3.8	2
26	Dispersion and the speed-limited particle-in-cell algorithm. Physics of Plasmas, 2021, 28, 062107.	1.9	2
27	Accelerated steady-state electrostatic particle-in-cell simulation of Langmuir probes. Physics of Plasmas, 2022, 29, 013502.	1.9	2
28	Validation of frequency extraction calculations from time-domain simulations of accelerator cavities. Computational Science & Discovery, 2011, 4, 015004.	1.5	1
29	Kinetic Dispersion Relations and the Speed-Limited Particle-in-Cell Algorithm. , 2020, , .		0