

Gregory R Werner

List of Publications by Year in descending order

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29
papers

1,102
citations

516710

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501196

28
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30
all docs

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docs citations

30
times ranked

1271
citing authors

#	ARTICLE	IF	CITATIONS
1	Accelerated steady-state electrostatic particle-in-cell simulation of Langmuir probes. <i>Physics of Plasmas</i> , 2022, 29, 013502.	1.9	2
2	Kinetic Simulations of Instabilities and Particle Acceleration in Cylindrical Magnetized Relativistic Jets. <i>Astrophysical Journal</i> , 2022, 931, 137.	4.5	6
3	Dispersion and the speed-limited particle-in-cell algorithm. <i>Physics of Plasmas</i> , 2021, 28, 062107.	1.9	2
4	Computing the Paschen curve for argon with speed-limited particle-in-cell simulation. <i>Physics of Plasmas</i> , 2021, 28, .	1.9	5
5	Reconnection and particle acceleration in three-dimensional current sheet evolution in moderately magnetized astrophysical pair plasma. <i>Journal of Plasma Physics</i> , 2021, 87, .	2.1	26
6	Kinetic beaming in radiative relativistic magnetic reconnection: a mechanism for rapid gamma-ray flares in jets. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 498, 799-820.	4.4	20
7	First-principles Demonstration of Diffusive-advective Particle Acceleration in Kinetic Simulations of Relativistic Plasma Turbulence. <i>Astrophysical Journal Letters</i> , 2020, 893, L7.	8.3	36
8	Kinetic turbulence in shining pair plasma: intermittent beaming and thermalization by radiative cooling. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 493, 603-626.	4.4	25
9	Kinetic Dispersion Relations and the Speed-Limited Particle-in-Cell Algorithm. , 2020, , .		0
10	Electron and Ion Energization in Relativistic Plasma Turbulence. <i>Physical Review Letters</i> , 2019, 122, 055101.	7.8	77
11	Particle acceleration in relativistic magnetic reconnection with strong inverse-Compton cooling in pair plasmas. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2019, 482, L60-L64.	3.3	35
12	Numerical investigation of kinetic turbulence in relativistic pair plasmas â€” I. Turbulence statistics. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 474, 2514-2535.	4.4	30
13	Speeding up simulations by slowing down particles: Speed-limited particle-in-cell simulation. <i>Physics of Plasmas</i> , 2018, 25, 123512.	1.9	9
14	System-size Convergence of Nonthermal Particle Acceleration in Relativistic Plasma Turbulence. <i>Astrophysical Journal Letters</i> , 2018, 867, L18.	8.3	43
15	Kinetic Turbulence in Relativistic Plasma: From Thermal Bath to Nonthermal Continuum. <i>Physical Review Letters</i> , 2017, 118, 055103.	7.8	89
16	Nonthermal Particle Acceleration in 3D Relativistic Magnetic Reconnection in Pair Plasma. <i>Astrophysical Journal Letters</i> , 2017, 843, L27.	8.3	88
17	Select Advances in Computational Accelerator Physics. <i>IEEE Transactions on Nuclear Science</i> , 2016, 63, 823-841.	2.0	4
18	ON THE DISTRIBUTION OF PARTICLE ACCELERATION SITES IN PLASMOID-DOMINATED RELATIVISTIC MAGNETIC RECONNECTION. <i>Astrophysical Journal</i> , 2015, 815, 101.	4.5	58

#	ARTICLE	IF	CITATIONS
19	Origin and reduction of wakefields in photonic crystal accelerator cavities. Physical Review Special Topics: Accelerators and Beams, 2014, 17, .	1.8	5
20	Dielectric laser accelerators. Reviews of Modern Physics, 2014, 86, 1337-1389.	45.6	286
21	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
22	A more accurate, stable, FDTD algorithm for electromagnetics in anisotropic dielectrics. Journal of Computational Physics, 2013, 255, 436-455.	3.8	16
23	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
24	Validation of frequency extraction calculations from time-domain simulations of accelerator cavities. Computational Science & Discovery, 2011, 4, 015004.	1.5	1
25	Application of Dey's Mittra conformal boundary algorithm to 3D electromagnetic modeling. Journal of Computational Physics, 2009, 228, 7902-7916.	3.8	70
26	Wakefields in photonic crystal cavities. Physical Review Special Topics: Accelerators and Beams, 2009, 12, .	1.8	7
27	Extracting degenerate modes and frequencies from time-domain simulations with filter-diagonalization. Journal of Computational Physics, 2008, 227, 5200-5214.	3.8	22
28	Truncated photonic crystal cavities with optimized mode confinement. Journal of Applied Physics, 2008, 104, 053107.	2.5	16
29	A stable FDTD algorithm for non-diagonal, anisotropic dielectrics. Journal of Computational Physics, 2007, 226, 1085-1101.	3.8	63