

Gil Travish

List of Publications by Year in descending order

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123
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all docs

123
docs citations

123
times ranked

1671
citing authors

#	ARTICLE	IF	CITATIONS
1	Novel Dual Beam Cascaded Schemes for 346 GHz Harmonic-Enhanced TWTs. Electronics (Switzerland), 2021, 10, 195.	1.8	1
2	An Active Transmission Matrix-Based Nonlinear Analysis for Folded Waveguide TWT. IEEE Transactions on Electron Devices, 2020, 67, 1205-1210.	1.6	3
3	Observing Performance of Individual Metal-Coated Silicon Field-Emitters in an X-ray Generator. , 2020, , .		1
4	Third-Harmonic Traveling-Wave Tube Multiplier-Amplifier. IEEE Transactions on Electron Devices, 2018, 65, 2189-2194.	1.6	10
5	Controlling thermal failure of silicon field emitters in a commercial X-ray source. , 2018, , .		2
6	Operating high-current field emitters in a commercial X-ray source. , 2017, , .		4
7	Experimental investigation of the high harmonic traveling-wave tube. , 2017, , .		1
8	Design of a 346GHz high harmonic traveling wave tube. , 2017, , .		0
9	Simulation of an EEHG terahertz traveling wave tube. , 2016, , .		0
10	The research of 140GHz high harmonic traveling wave tube. , 2016, , .		1
11	Summary report of working group 3: Laser and high-gradient structure-based acceleration. AIP Conference Proceedings, 2016, , .	0.3	0
12	Experimental results from the micro-accelerator platform, a resonant slab-symmetric dielectric laser accelerator. AIP Conference Proceedings, 2016, , .	0.3	1
13	Fabrication of optical scale dielectric laser accelerators: Challenges, tolerances and other scary tales from the foundry. AIP Conference Proceedings, 2016, , .	0.3	0
14	Dielectric laser accelerators. Reviews of Modern Physics, 2014, 86, 1337-1389.	16.4	286
15	Analysis of 140â€‰%gigahertz folded frame travelling wave tube. Physics of Plasmas, 2013, 20, .	0.7	1
16	Demonstration of electron acceleration in a laser-driven dielectric microstructure. Nature, 2013, 503, 91-94.	13.7	429
17	Novel Folded Frame Slow-Wave Structure for Millimeter-Wave Traveling-Wave Tube. IEEE Transactions on Electron Devices, 2013, 60, 3895-3900.	1.6	10
18	High-Power Tunable Terahertz Radiation by High-Order Harmonic Generation. IEEE Transactions on Electron Devices, 2013, 60, 482-486.	1.6	21

#	ARTICLE	IF	CITATIONS
19	Generation of high-power tunable terahertz-radiation by nonrelativistic beam-echo harmonic effect. <i>Physics of Plasmas</i> , 2013, 20, 013303.	0.7	5
20	Experimental progress towards laser acceleration of relativistic electrons with the Micro Accelerator Platform (MAP). , 2013, , .		0
21	Experimental progress towards laser acceleration of relativistic electrons with the micro accelerator platform (MAP). , 2013, , .		0
22	Dielectric laser accelerators: Are they viable advanced accelerator concepts?. , 2013, , .		0
23	Resonance, particle dynamics, and particle transmission in the micro-accelerator platform. , 2013, , .		0
24	Applying high frame-rate digital radiography and dual-energy distributed-sources for advanced tomosynthesis. <i>Proceedings of SPIE</i> , 2013, , .	0.8	1
25	A monolithic relativistic electron beam source based on a dielectric laser accelerator structure. , 2013, , .		3
26	Addressable flat-panel x-ray sources for medical, security, and industrial applications. <i>Proceedings of SPIE</i> , 2012, , .	0.8	15
27	Laser-powered dielectric-structures for the production of high-brightness electron and x-ray beams. <i>Proceedings of SPIE</i> , 2011, , .	0.8	5
28	Teravolt-per-meter beam and plasma fields from low-charge femtosecond electron beams. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2011, , .	0.7	5
29	Fabrication of the micro accelerator platform for x-ray applications. , 2011, , .		1
30	Fabrication of a Prototype All-Dielectric Micro-Accelerator. , 2010, , .		1
31	Breaking the Attosecond, Angstrom and TV [∧] m Field Barriers with Ultrafast Electron Beams. , 2010, , .		0
32	Development of a Laser-Powered Dielectric Structure-Based Accelerator as a Stand-Alone Particle Source. , 2010, , .		0
33	High Frequency, High Gradient Dielectric Wakefield Acceleration Experiments at SLAC and BNL. , 2010, , .		10
34	An Examination of Resonance, Acceleration, and Particle Dynamics in the Micro-Accelerator Platform. , 2010, , .		1
35	Observations of low-aberration plasma lens focusing of relativistic electron beams at the underdense threshold. <i>Physics of Plasmas</i> , 2010, 17, 073105.	0.7	13
36	Multiphoton Photoemission from a Copper Cathode Illuminated by Ultrashort Laser Pulses in an rf Photoinjector. <i>Physical Review Letters</i> , 2010, 104, 084801.	2.9	68

#	ARTICLE	IF	CITATIONS
37	3D Simulations for a Micron-Scale, Dielectric-Based Acceleration Experiment. , 2009, , .		3
38	Status of Coherent Cherenkov Wakefield Experiment at UCLA. , 2009, , .		0
39	Experimental Testing of a Micron-Scale Laser-Powered Accelerator. , 2009, , .		2
40	Guiding of X-rays from Inverse Compton Scattering as a means to enhance flux and brightness. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2009, 608, S87-S89.	0.7	0
41	Inverse compton scattering gamma ray source. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2009, 608, S54-S56.	0.7	23
42	Observation of Narrow-Band Terahertz Coherent Cherenkov Radiation from a Cylindrical Dielectric-Lined Waveguide. Physical Review Letters, 2009, 103, 095003.	2.9	171
43	Breakdown Limits on Gigavolt-per-Meter Electron-Beam-Driven Wakefields in Dielectric Structures. Physical Review Letters, 2008, 100, 214801.	2.9	123
44	Generation and Measurement of Relativistic Electron Bunches Characterized by a Linearly Ramped Current Profile. Physical Review Letters, 2008, 100, 214802.	2.9	34
45	PRELIMINARY RESULTS FROM THE UCLA/SLAC ULTRA-HIGH GRADIENT CERENKOV WAKEFIELD ACCELERATOR EXPERIMENT. International Journal of Modern Physics A, 2007, 22, 4343-4354.	0.5	0
46	PRODUCTION OF FEMTOSECOND PULSES AND MICRON BEAM SPOTS FOR HIGH BRIGHTNESS ELECTRON BEAM APPLICATIONS. International Journal of Modern Physics A, 2007, 22, 3726-3735.	0.5	0
47	THE LCLS SINGLE-SHOT RELATIVE BUNCH LENGTH MONITOR SYSTEM. International Journal of Modern Physics A, 2007, 22, 4125-4133.	0.5	2
48	RESULTS FROM THE UCLA/FNPL UNDERDENSE PLASMA LENS EXPERIMENT. International Journal of Modern Physics A, 2007, 22, 3979-3987.	0.5	1
49	BEAM SHAPING AND PERMANENT MAGNET QUADRUPOLE FOCUSING WITH APPLICATIONS TO THE PLASMA WAKEFIELD ACCELERATOR. International Journal of Modern Physics A, 2007, 22, 4134-4145.	0.5	2
50	SUMMARY OF WORKING GROUP 2: DIAGNOSTICS AND BEAM MANIPULATION. International Journal of Modern Physics A, 2007, 22, 4094-4100.	0.5	0
51	STATUS OF THE POLARIZED NONLINEAR INVERSE COMPTON SCATTERING EXPERIMENT AT UCLA. International Journal of Modern Physics A, 2007, 22, 4355-4362.	0.5	0
52	Observations of underdense plasma lens focusing of relativistic electron beams. , 2007, , .		0
53	Dielectric wakefield accelerator experiments at the SABER facility. , 2007, , .		0
54	Commissioning of the UCLA Neptune x-band deflecting cavity and applications to current profile measurement of ramped electron bunches. , 2007, , .		2

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55	Beam-driven dielectric wakefield accelerating structure as a ThZ radiation source. , 2007, , .		0
56	Laser-powered dielectric structure as a micron-scale electron source. , 2007, , .		4
57	High average current betatrons for industrial and security applications. , 2007, , .		0
58	Observation of multi-GeV breakdown thresholds in dielectric wakefield structures. , 2007, , .		0
59	The UCLA helical permanent-magnet inverse free electron laser. , 2007, , .		0
60	Optimization and beam dynamics of a superconducting radio-frequency gun. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2006, 557, 98-102.	0.7	4
61	Creation of plasma density transitions short compared to the plasma skin depth. Review of Scientific Instruments, 2005, 76, 013303.	0.6	4
62	High Energy Gain of Trapped Electrons in a Tapered, Diffraction-Dominated Inverse-Free-Electron Laser. Physical Review Letters, 2005, 94, 154801.	2.9	47
63	Sextupole correction of the longitudinal transport of relativistic beams in dispersionless translating sections. Physical Review Special Topics: Accelerators and Beams, 2005, 8, .	1.8	41
64	Observation of Anomalously Large Spectral Bandwidth in a High-Gain Self-Amplified Spontaneous Emission Free-Electron Laser. Physical Review Letters, 2005, 95, 054801.	2.9	13
65	The UCLA/FNPL Underdense Plasma Lens Experiment. IEEE International Conference on Plasma Science, 2005, , .	0.0	0
66	Velocity bunching of high-brightness electron beams. Physical Review Special Topics: Accelerators and Beams, 2005, 8, .	1.8	65
67	Adjustable, short focal length permanent-magnet quadrupole based electron beam final focus system. Physical Review Special Topics: Accelerators and Beams, 2005, 8, .	1.8	85
68	A PMQ-based, Ultra-short Focal Length, Final Focus System for Next Generation Beam-Radiation and Beam-Plasma Experiments. AIP Conference Proceedings, 2004, , .	0.3	1
69	Free-electron lasers as pumps for high-energy solid-state lasers. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2004, 528, 525-529.	0.7	0
70	Chirped pulse amplification at VISA-FEL. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2004, 528, 463-466.	0.7	0
71	Self-amplified spontaneous emission saturation at the Advanced Photon Source free-electron laser (abstract) (invited). Review of Scientific Instruments, 2002, 73, 1407-1407.	0.6	0
72	Observation and analysis of self-amplified spontaneous emission at the APS low-energy undulator test line. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2001, 475, 28-37.	0.7	6

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73	Exponential Gain and Saturation of a Self-Amplified Spontaneous Emission Free-Electron Laser. Science, 2001, 292, 2037-2041.	6.0	259
74	Observation of Self-Amplified Spontaneous Emission and Exponential Growth at 530 nm. Physical Review Letters, 2000, 85, 988-991.	2.9	63
75	The APS SASE FEL: status and commissioning results. , 1999, , .		2
76	<title>FEL development at the Advanced Photon Source</title>. , 1999, , .		7
77	Measurements of high gain and noise fluctuations in a SASE free electron laser. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1998, 407, 257-260.	0.7	1
78	Bunch length measurement of picosecond electron beams from a photoinjector using coherent transition radiation. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1998, 410, 452-460.	0.7	69
79	Measurements of High Gain and Intensity Fluctuations in a Self-Amplified, Spontaneous-Emission Free-Electron Laser. Physical Review Letters, 1998, 80, 289-292.	2.9	64
80	Experimental confirmation of transverse focusing and adiabatic damping in a standing wave linear accelerator. Physical Review E, 1997, 56, 3572-3577.	0.8	14
81	Where do we stand with high gain FEL simulations?. , 1997, , .		0
82	The UCLA high gain infrared free electron laser. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1997, 393, 216-219.	0.7	0
83	TDA3D: Updates and improvements to the widely used three-dimensional free electron laser simulation. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1997, 393, 277-279.	0.7	8
84	Space-charge oscillations in a self-modulated electron beam in multi-undulator free-electron lasers. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1997, 393, 376-379.	0.7	22
85	Research and development toward a 4.5 μ m-1.5 μ m linac coherent light source (LCLS) at SLAC. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1996, 375, 274-283.	0.7	79
86	Performance simulation and parameter optimization for high gain short wavelength FEL amplifiers. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1995, 358, 48-51.	0.7	3
87	The UCLA high gain infrared FEL. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1995, 358, ABS75-ABS76.	0.7	2
88	Parametric study of an X-ray FEL. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1995, 358, 60-63.	0.7	8
89	Coherent transition radiation diagnosis of electron beam microbunching. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1995, 365, 255-259.	0.7	49
90	Slippage, noise and superradiant effects in the UCLA FEL experiment. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1994, 341, 285-288.	0.7	2

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91	Strong sextupole focusing in planar undulators. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1994, 345, 585-593.	0.7	6
92	Initial measurements of the UCLA rf photoinjector. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1994, 340, 219-230.	0.7	21
93	The SLAC soft X-ray high power FEL. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1994, 341, 326-330.	0.7	32
94	Short wavelength FELs using the SLAC linac. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1994, 347, 199-205.	0.7	44
95	The UCLA IR FEL project. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1993, 331, 228-231.	0.7	6
96	<title>Linac coherent light source (LCLS) at 2-4 nm using the SLAC linac</title>. , 1993, 2013, 116.		0
97	Strong focusing for planar undulators. AIP Conference Proceedings, 1992, , .	0.3	4
98	Status of the UCLA pegasus laboratory. , 0, , .		0
99	The operation of the BNL/ATF GUN-IV photocathode RF gun at the Advanced Photon Source. , 0, , .		9
100	Beam break-up in the two-beam accelerator. , 0, , .		0
101	Performance characteristics, optimization, and error tolerances of a 4 nm FEL based on the SLAC linac. , 0, , .		7
102	Emittance measurements of the 4.5 MeV UCLA RF photoinjector. , 0, , .		3
103	Numerical studies of strong focusing in planar undulators. , 0, , .		3
104	A 2-4 nm Linac Coherent Light Source (LCLS) using the SLAC linac. , 0, , .		9
105	Initial operation and beam characteristics of the UCLA S-band RF photo-injector. , 0, , .		0
106	Status of the UCLA high-gain infrared free electron laser. , 0, , .		0
107	A high current superconducting proton linac for an accelerator driven transmutation system. , 0, , .		1
108	Optimal scaled photoinjector designs for FEL applications. , 0, , .		1

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109	Investigations of electron-beam microbunching and beam coalignment using CTR in a high-gain SASEe FEL. , 0, , .		1
110	Design and operation of Pegasus thermionic cathode. , 0, , .		0
111	The FEL program at the PEGASUS injector. , 0, , .		0
112	X-Band Dipole Mode Deflecting Cavity for the UCLA Neptune Beamline. , 0, , .		3
113	High Energy, High Brightness X-Rays Produced by Compton Backscattering at the Livermore Pleiades Facility. , 0, , .		1
114	The UCLA/SLAC Ultra-High Gradient Cerenkov Wakefield Accelerator Experiment. , 0, , .		1
115	Investigation of X-Ray Harmonics of the Polarized Inverse Compton Scattering Experiment at UCLA. , 0, , .		2
116	Production of High Harmonic X-Ray Radiation from Non-Linear Thomson Scattering at LLNL Pleiades. , 0, , .		0
117	The UCLA/FNPL Time Resolved Underdense Plasma Lens Experiment. , 0, , .		0
118	High Energy Gain IFEL at UCLA Neptune Laboratory. , 0, , .		1
119	Ultra-High Density Electron Beams for Beam Radiation and Beam Plasma Interaction. , 0, , .		0
120	RF and Magnetic Measurements on the SPARC Photoinjector and Solenoid at UCLA. , 0, , .		5
121	Initial operation of the UCLA plane wave transformer (PWT) linac. , 0, , .		9
122	The UCLA compact high brightness electron accelerator. , 0, , .		0
123	Measurements of high gain and noise fluctuations in a SASE free electron laser. , 0, , .		0