

Stefan N Simrock

List of Publications by Year in descending order

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56
docs citations

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times ranked

179
citing authors

#	ARTICLE	IF	CITATIONS
1	TESLA cavity modeling and digital implementation in FPGA technology for control system development. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2006, 556, 565-576.	1.6	46
2	Cavity parameters identification for TESLA control system development. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2005, 548, 283-297.	1.6	41
3	Superconducting cavity driving with FPGA controller. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2006, 568, 854-862.	1.6	33
4	Low latency control board for LLRF system: SIMCON 3.1. , 2005, , .		21
5	<title>TESLA cavity modeling and digital implementation with FPGA technology solution for control system development</title>. , 2004, 5484, 111.		17
6	Dosimetry of high-energy electron linac produced photoneutrons and the bremsstrahlung gamma-rays using TLD-500 and TLD-700 dosimeter pairs. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2005, 545, 830-841.	1.6	17
7	Experimental investigation of multibunch, multipass beam breakup in the Jefferson Laboratory Free Electron Laser Upgrade Driver. Physical Review Special Topics: Accelerators and Beams, 2006, 9, .	1.8	16
8	<title>Distributed embedded-PC-based control and data acquisition system for TESLA cavity controller and simulator</title>. , 2004, 5484, 171.		14
9	Prototype Real-Time ATCA-Based LLRF Control System. IEEE Transactions on Nuclear Science, 2011, 58, 1553-1561.	2.0	12
10	FPGA and optical-network-based LLRF distributed control system for TESLA-XFEL linear accelerator. , 2005, 5775, 69.		11
11	F4E prototype of a chopper digital integrator for the ITER magnetics. Fusion Engineering and Design, 2017, 123, 1025-1028.	1.9	10
12	<title>Cavity control system advanced modeling and simulations for TESLA linear accelerator and free electron laser</title>. , 2004, , .		9
13	<title>FPGA-based multichannel optical concentrator SIMCON 4.0 for TESLA cavities LLRF control system</title>. , 2006, , .		8
14	<title>Cavity control system: optimization methods for single cavity driving and envelope detection</title>. , 2004, , .		7
15	Interfaces and communication protocols in ATCA-based LLRF control systems. , 2008, , .		7
16	<title>FPGA-based TESLA cavity SIMCON DOOCS server design, implementation, and application</title>. , 2004, 5484, 153.		6
17	<title>Measurements of SIMCON 3.1 LLRF control signal processing quality for VUV free-electron laser FLASH</title>. , 2006, 6347, 53.		6
18	Interfaces and Communication Protocols in ATCA-Based LLRF Control Systems. IEEE Transactions on Nuclear Science, 2009, 56, 2814-2820.	2.0	6

#	ARTICLE	IF	CITATIONS
19	Maturity assessment of ITER diagnostics plant instrumentation and control design. Fusion Engineering and Design, 2015, 96-97, 952-956.	1.9	6
20	<title>Cavity control system model simulations for the TESLA linear accelerator</title>. , 2003, 5125, 214.		5
21	Digital RF Control System for The DESY FLASH Linear Accelerator. , 2007, , .		5
22	Neutron field characterisation in a high-energy protonâ€™synchrotron environment using bubble detectors. Radiation Measurements, 2008, 43, 554-557.	1.4	5
23	<title>Cavity digital control testing system by Simulink step operation method for TESLA linear accelerator and free electron laser</title>. , 2004, , .		4
24	<title>Low level radio frequency control system for the European X-FEL</title>. , 2006, , .		4
25	Irradiation investigations for TESLA and X-FEL experiments at DESY. , 2005, , .		3
26	Investigations of irradiation effects on electronic components to be used in VUV-FEL and X-FEL facilities at DESY. , 2005, , .		3
27	Master Oscillator Design for the VUV-FEL Project. , 2006, , .		3
28	Synchronization systems for ERLs. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2006, 557, 293-298.	1.6	3
29	Distributed versus Centralized ATCA Computing Power. , 2007, , .		3
30	Control systems for ITER diagnostics, heating and current drive. Fusion Engineering and Design, 2016, 112, 724-730.	1.9	3
31	Testing results of chopper based integrator prototypes for the ITER magnetics. Fusion Engineering and Design, 2018, 128, 193-197.	1.9	3
32	<title>Optoelectronics in TESLA, LHC, and pi-of-the-sky experiments</title>. , 2004, 5576, 299.		2
33	<title>FPGA-based cavity simulator for Tesla test facility</title>. , 2004, , .		2
34	SEE induced in SRAM operating in a superconducting electron linear accelerator environment. , 2005, , .		2
35	Prototype implementation of the embedded PC-based control and DAQ module for TESLA cavity SIMCON. , 2005, , .		2
36	A distributed System for Radiation Monitoring at Linear Accelerators. , 2005, , .		2

#	ARTICLE	IF	CITATIONS
37	Multichannel downconverter for the next generation RF field control for VUV- and X-ray free electron lasers. , 2007, , .		2
38	Real time cavity simulator for European XFEL. , 2007, , .		2
39	Characterisation of the bremsstrahlung generated by a 450MeV superconducting electron linac using the inverse calculation method based on a genetic algorithm. Radiation Measurements, 2007, 42, 1355-1360.	1.4	2
40	Accelerator dosimetry at free electron lasers in Hamburg. Radiation Measurements, 2008, 43, 1154-1159.	1.4	2
41	<title>The RF control system for the DESY X-FEL</title>. , 2004, , .		1
42	Prototype real-time ATCA-based LLRF control system. , 2010, , .		1
43	Data archiving system implementation in ITER's CODAC CORE SYSTEM. , 2015, , .		1
44	Progress in XRCS-Survey plant instrumentation and control design for ITER. Fusion Engineering and Design, 2016, 112, 877-882.	1.9	1
45	TESLA cavity driving with FPGA controller. , 2005, 5948, 121.		0
46	Fiber-optic link for the RF phase reference distribution system for the XFEL and TESLA projects. , 2005, , .		0
47	Recent developments in superconducting cavity RF control. , 2005, , .		0
48	<title>Control system modeling for superconducting accelerator</title>. , 2006, , .		0
49	<title>Application of RadFET for dosimetry of ionizing radiation</title>. , 2006, , .		0
50	Modelling and identification of a free electron laser RF system. , 2006, , .		0
51	Radiation Field Unfolding at the Free Electron Laser in Hamburg (FLASH) using a Genetic Algorithm. , 2007, , .		0
52	Deconvolution of the Bremsstrahlung Spectrum at the Superconducting TESLA Accelerator Module using Inverse Calculation Method. , 2007, , .		0
53	Readout System for Cost-Effective Radiation Monitoring System. IEEE Transactions on Nuclear Science, 2007, 54, 1178-1183.	2.0	0
54	Preliminary Design Development of ITER X-ray Survey Spectrometer. Journal of Physics: Conference Series, 2017, 823, 012055.	0.4	0

#	ARTICLE	IF	CITATIONS
55	RF System Models. Particle Acceleration and Detection, 2022, , 35-81.	0.5	0