

Axel Bernhard

List of Publications by Year in descending order

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39
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320
citing authors

#	ARTICLE	IF	CITATIONS
1	Progress on HTS Undulator Prototype Coils for Compact FEL Designs. IEEE Transactions on Applied Superconductivity, 2022, 32, 1-5.	1.7	5
2	Undulator design for a laser-plasma-based free-electron-laser. Physics Reports, 2021, 937, 1-73.	25.6	10
3	Free Electron Laser Performance within the EuPRAXIA Facility. Instruments, 2020, 4, 5.	1.8	2
4	EuPRAXIA Conceptual Design Report. European Physical Journal: Special Topics, 2020, 229, 3675-4284.	2.6	64
5	Characterization of the radiation tolerance of cryogenic diodes for the High Luminosity LHC inner triplet circuit. Physical Review Accelerators and Beams, 2020, 23, .	1.6	0
6	Power Test of the Second-Generation Compact Linear Collider (CLIC) Nb3Sn Damping Wiggler Short Model. IEEE Transactions on Applied Superconductivity, 2019, 29, 1-5.	1.7	1
7	EuPRAXIA â€“ a compact, cost-efficient particle and radiation source. AIP Conference Proceedings, 2019, , .	0.4	7
8	Progress on experiments towards LWFA-driven transverse gradient undulator-based FELs. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2018, 909, 391-397.	1.6	7
9	Studies of the Micro-Bunching Instability in the Presence of a Damping Wiggler. Journal of Physics: Conference Series, 2018, 1067, 062017.	0.4	0
10	Horizon 2020 EuPRAXIA design study. Journal of Physics: Conference Series, 2017, 874, 012029.	0.4	60
11	Test Results of the CLIC Damping Wiggler Prototype. IEEE Transactions on Applied Superconductivity, 2016, 26, 1-4.	1.7	8
12	Design of Nb3Sn Wiggler Magnets for the Compact Linear Collider and Manufacturing of a Five-Coil Prototype. IEEE Transactions on Applied Superconductivity, 2016, 26, 1-6.	1.7	4
13	Radiation emitted by transverse-gradient undulators. Physical Review Accelerators and Beams, 2016, 19, .	1.6	5
14	Development of a Superconducting Transverse-Gradient Undulator for Laser-Wakefield Accelerators. IEEE Transactions on Applied Superconductivity, 2013, 23, 4101505-4101505.	1.7	8
15	Design and system integration of the superconducting wiggler magnets for the Compact Linear Collider damping rings. Physical Review Special Topics: Accelerators and Beams, 2012, 15, .	1.8	10
16	A novel undulator concept for electron beams with a large energy spread. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2012, 672, 33-37.	1.6	15
17	Development of the Next Generation Superconductive Undulators for Synchrotron Light Sources. IEEE Transactions on Applied Superconductivity, 2009, 19, 1324-1327.	1.7	7
18	Experimental demonstration of the induction-shimming concept in superconductive undulators. Physical Review Special Topics: Accelerators and Beams, 2009, 12, .	1.8	12

#	ARTICLE	IF	CITATIONS
19	Helium-Free Field Measurement System for Superconducting Undulator Coils. IEEE Transactions on Applied Superconductivity, 2009, 19, 2333-2336.	1.7	2
20	Magnetic Field Test Facility for Superconductive Undulator Coils. IEEE Transactions on Applied Superconductivity, 2008, 18, 1637-1640.	1.7	8
21	Induction shimming: A new shimming concept for superconductive undulators. Physical Review Special Topics: Accelerators and Beams, 2008, 11, .	1.8	11
22	CASPER- A magnetic measurement facility for superconducting undulators. Journal of Physics: Conference Series, 2008, 97, 012020.	0.4	8
23	Superconductive damping wigglers for the CLIC project. , 2007, , .		0
24	Measurements of the beam heat load in the cold bore superconductive undulator installed at ANKA. , 2007, , .		0
25	Measurements of the Beam Induced Heat Load at the ANKA Superconductive Undulator. AIP Conference Proceedings, 2007, , .	0.4	1
26	One Year Operation of a Superconductive Undulator in the Storage Ring ANKA. AIP Conference Proceedings, 2007, , .	0.4	2
27	Beam heat load and pressure rise in a cold vacuum chamber. Physical Review Special Topics: Accelerators and Beams, 2007, 10, .	1.8	17
28	Performance of the First Superconducting Cold-Bore Undulator in an Electron Storage Ring. IEEE Transactions on Applied Superconductivity, 2007, 17, 1235-1238.	1.7	4
29	Beam heat load measurements in the cold bore superconductive undulator in ANKA. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2007, 582, 34-36.	1.6	0
30	Technical Report: First Beam Tests of a Superconductive Undulator in a Storage Ring at ANKA. Synchrotron Radiation News, 2006, 19, 9-17.	0.8	1
31	Generation of x-ray radiation in a storage ring by a superconductive cold-bore in-vacuum undulator. Physical Review Special Topics: Accelerators and Beams, 2006, 9, .	1.8	42
32	Superconductive in-vacuum undulators for storage rings, concept and first operational experience. Journal of Physics: Conference Series, 2006, 43, 719-722.	0.4	0
33	Superconducting In-Vacuum Undulators. IEEE Transactions on Applied Superconductivity, 2006, 16, 1836-1839.	1.7	4
34	Superconductive Undulators With Variable Polarization Direction. IEEE Transactions on Applied Superconductivity, 2005, 15, 1228-1231.	1.7	5
35	Science perspectives of energy recovery linac-driven synchrotron light sources. Synchrotron Radiation News, 2004, 17, 28-32.	0.8	1
36	CEBAF energy recovery experiment. , 0, , .		1

#	ARTICLE	IF	CITATIONS
37	Operation of the ANKA Synchrotron Light Source with Superconductive Undulators. , 0, , .		1