Alberto Mazzi

List of Publications by Year
in descending order

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29 papers	539 citations	687363 13 h-index	642732 23 g-index
29 all docs	29 docs citations	29 times ranked	736 citing authors

#	Article	IF	Citations
1	NUV-Sensitive Silicon Photomultiplier Technologies Developed at Fondazione Bruno Kessler. Sensors, 2019, 19, 308.	3.8	123
2	On the effect of Sn-doping in hematite anodes for oxygen evolution. Electrochimica Acta, 2016, 214, 345-353.	5.2	37
3	Improvement of the Time Resolution of Radiation Detectors Based on Gd₃Al₂Ga₃O₁₂ Scintillators With SiPM Readout. IEEE Transactions on Nuclear Science, 2019, 66, 1879-1888.	2.0	37
4	Silicon Photomultipliers: Technology Optimizations for Ultraviolet, Visible and Near-Infrared Range. Instruments, 2019, 3, 15.	1.8	33
5	Vacuum ultraviolet silicon photomultipliers applied to BaF₂ cross-luminescence detection for high-rate ultrafast timing applications. Physics in Medicine and Biology, 2021, 66, 114002.	3.0	28
6	Simulation of phase explosion in the nanosecond laser ablation of aluminum. Journal of Colloid and Interface Science, 2017, 489, 126-130.	9.4	27
7	Liquid nanodroplet formation through phase explosion mechanism in laser-irradiated metal targets. Physical Review E, 2015, 92, 031301.	2.1	22
8	Improvement of response time in GAGG:Ce scintillation crystals by magnesium codoping. Journal of Applied Physics, 2018, 124, .	2.5	20
9	Magnetic perturbations as a viable tool for edge turbulence modification. Plasma Physics and Controlled Fusion, 2015, 57, 014027.	2.1	19
10	Design and construction of a new detector to measure ultra-low radioactive-isotope contamination of argon. Journal of Instrumentation, 2020, 15, P02024-P02024.	1.2	19
11	Improvement of the timing properties of Ce-doped oxyorthosilicate LYSO scintillating crystals. Journal of Physics and Chemistry of Solids, 2020, 139, 109356.	4.0	19
12	Porous versus Compact Nanosized Fe(III)-Based Water Oxidation Catalyst for Photoanodes Functionalization. ACS Applied Materials & Interfaces, 2016, 8, 20003-20011.	8.0	15
13	Timing properties of Ce-doped YAP and LuYAP scintillation crystals. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2019, 927, 169-173.	1.6	14
14	Pulsed laser deposition of nickel oxide films with improved optical properties to functionalize solar light absorbing photoanodes and very low overpotential for water oxidation catalysis. Materials Science in Semiconductor Processing, 2019, 97, 29-34.	4.0	13
15	Physical vapor deposition of mixed-metal oxides based on Fe, Co and Ni as water oxidation catalysts. Materials Science in Semiconductor Processing, 2016, 42, 155-158.	4.0	12
16	Dynamics of liquid nanodroplet formation in nanosecond laser ablation of metals. Applied Surface Science, 2017, 418, 601-606.	6.1	12
17	FBK VUV-sensitive Silicon Photomultipliers for cryogenic temperatures. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2020, 982, 164478.	1.6	12
18	Sensitivity of future liquid argon dark matter search experiments to core-collapse supernova neutrinos. Journal of Cosmology and Astroparticle Physics, 2021, 2021, 043.	5.4	12

#	Article	IF	Citations
19	Separating $${^{39}hbox {Ar}}$$ from $${^{40}hbox {Ar}}$$ by cryogenic distillation with Aria for dark-matter searches. European Physical Journal C, 2021, 81, 1.	3.9	12
20	Laser-Induced Thermal Processes: Heat Transfer, Generation of Stresses, Melting and Solidification, Vaporization, and Phase Explosion. , 2021, , 83-163.		10
21	Laser-Induced Thermal Processes: Heat Transfer, Generation of Stresses, Melting and Solidification, Vaporization, and Phase Explosion. , 2020, , 1-81.		7
22	Turbulent electromagnetic filaments in actively modulated toroidal plasma edge. Nuclear Fusion, 2015, 55, 063041.	3.5	6
23	Functionalized p-silicon photocathodes for solar fuels applications: Insights from electrochemical impedance spectroscopy. Electrochimica Acta, 2018, 271, 472-480.	5.2	6
24	Cryogenic SiPM arrays for the DUNE photon detection system. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2021, 985, 164648.	1.6	6
25	Very large SiPM arrays with aggregated output. Journal of Instrumentation, 2022, 17, P05038.	1.2	6
26	Laser-Inducing Extreme Thermodynamic Conditions in Condensed Matter to Produce Nanomaterials for Catalysis and the Photocatalysis. Springer Series in Materials Science, 2018, , 89-106.	0.6	3
27	Rational Design Combining Morphology and Charge-Dynamic for Hematite/Nickelâ€“Iron Oxide Thin-Layer Photoanodes: Insights into the Role of the Absorber/Catalyst Junction. ACS Applied Materials & Interfaces, 2019, 11, 48002-48012.	8.0	3
28	High Sensitivity and High Resolution Dynamic Brain-Dedicated TOF-DOI PET Scanner. , 2020, , .		3
29	Radiation damage assessment of SiPMs for scintillation detectors. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2022, 1040, 167163.	1.6	3