

# Marc Michael Weber

## List of Publications by Year in descending order

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Version: 2024-02-01

40  
papers

1,611  
citations

687363

13  
h-index

580821

25  
g-index

40  
all docs

40  
docs citations

40  
times ranked

4992  
citing authors

#	ARTICLE	IF	CITATIONS
1	Event generator tunes obtained from underlying event and multiparton scattering measurements. European Physical Journal C, 2016, 76, 155.	3.9	499
2	Observation of a new boson with mass near 125 GeV in pp collisions at $\sqrt{s}=7$ and 8 TeV. Journal of High Energy Physics, 2013, 2013, 1.	4.7	320
3	Extraction and validation of a new set of CMS pythia8 tunes from underlying-event measurements. European Physical Journal C, 2020, 80, 4.	3.9	198
4	Precision luminosity measurement in proton-proton collisions at $\sqrt{s} = 13, 13.6$ TeV in 2015 and 2016 at CMS. European Physical Journal C, 2021, 81, 800.	3.9	123
5	Measurements of inclusive W and Z cross sections in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2011, 2011, 1.	4.7	122
6	Measurements of properties of the Higgs boson decaying into the four-lepton final state in pp collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2017, 2017, 1.	4.7	101
7	Measurements of production cross sections of the Higgs boson in the four-lepton final state in proton-proton collisions at $\sqrt{s} = 13, 13.6$ TeV. European Physical Journal C, 2021, 81, 488.	3.9	35
8	Search for light bosons in decays of the 125 GeV Higgs boson in proton-proton collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2017, 2017, 1.	4.7	29
9	Measurements of Higgs boson production cross sections and couplings in the diphoton decay channel at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2021, 2021, 1.	4.7	27
10	Search for a very light NMSSM Higgs boson produced in decays of the 125 GeV scalar boson and decaying into $\tilde{l}, \tilde{\nu}_\tau$ leptons in pp collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2016, 2016, 1.	4.7	19
11	Search for low-mass dilepton resonances in Higgs boson decays to four-lepton final states in proton-proton collisions at $\sqrt{s}=13, 13.6$ TeV. European Physical Journal C, 2022, 82, 290.	3.9	18
12	High-Speed Medical Imaging in 3D Ultrasound Computer Tomography. IEEE Transactions on Parallel and Distributed Systems, 2016, 27, 455-467.	5.6	17
13	Search for supersymmetry in final states with two or three soft leptons and missing transverse momentum in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2022, 2022, 1.	4.7	13
14	Search for a right-handed W boson and a heavy neutrino in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2022, 2022, 1.	4.7	12
15	Copper thick-film substrates for power electronic applications. , 2014, , .		10
16	Copper Die-Bonding Sinter Paste: Sintering and Bonding Properties. , 2018, , .		8
17	Inclusive and differential cross section measurements of single top quark production in association with a Z boson in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2022, 2022, 1.	4.7	6
18	Search for heavy resonances decaying to ZZ or ZW and axion-like particles mediating nonresonant ZZ or ZH production at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2022, 2022, 1.	4.7	6

#	ARTICLE	IF	CITATIONS
19	A highly integrated copper sintered SiC power module for fast switching operation. , 2018, , .		5
20	Search for flavor-changing neutral current interactions of the top quark and the Higgs boson decaying to a bottom quark-antiquark pair at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2022, 2022, 1.	4.7	5
21	Search for long-lived particles decaying into muon pairs in proton-proton collisions at $\sqrt{s} = 13$ TeV collected with a dedicated high-rate data stream. Journal of High Energy Physics, 2022, 2022, .	4.7	5
22	Measurement and QCD analysis of double-differential inclusive jet cross sections in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2022, 2022, 1.	4.7	5
23	Search for higgsinos decaying to two Higgs bosons and missing transverse momentum in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2022, 2022, .	4.7	4
24	Influence of environmental conditions on the sensing accuracy of Li-Ion battery management systems with passive charge balancing. , 2015, , .		3
25	Low-loss and robust DWDM Echelle grating (de-)multiplexers in SOI technology. , 2019, , .		3
26	Evaluation of Ag-sinter pastes for the die attachment in power electronic modules using design of experiments. , 2016, , .		2
27	UFO " a scalable platform for high-speed synchrotron X-ray imaging. , 2016, , .		2
28	Efficient, Easy-to-Use, Planar Fiber-to-Chip Coupling Process with Angle-Polished Fibers. , 2017, , .		2
29	A Content - Adapted FPGA Memory Architecture with Pattern Recognition Capability and Interval Compressing Technique. , 2018, , .		2
30	Search for a heavy resonance decaying into a top quark and a W boson in the lepton+jets final state at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2022, 2022, 1.	4.7	2
31	Measurement of the inclusive $\overline{\text{t}}\text{t}$ production cross section in proton-proton collisions at $\sqrt{s} = 5.02$ TeV. Journal of High Energy Physics, 2022, 2022, 1.	4.7	2
32	Search for heavy resonances decaying to a pair of Lorentz-boosted Higgs bosons in final states with leptons and a bottom quark pair at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2022, 2022, .	4.7	2
33	Echelle grating for silicon photonics applications: integration of electron beam lithography in the process flow and first results. , 2016, , .		1
34	Ultra-fast detector for wide range spectral measurements. , 2019, , .		1
35	Study of dijet events with large rapidity separation in proton-proton collisions at $\sqrt{s} = 2.76$ TeV. Journal of High Energy Physics, 2022, 2022, 1.	4.7	1
36	Observation of $B^0 \rightarrow \text{S} \psi(2\text{S}) K^0_{\text{S}}$ and $B^0_{\text{S}} \rightarrow \text{S} \psi(2\text{S}) K^0_{\text{S}}$ decays. European Physical Journal C, 2022, 82, .	3.9	1

#	ARTICLE	IF	CITATIONS
37	A scalable DAQ system with high-rate channels and FPGA- and GPU-Trigger for the dark matter experiment EDELWEISS-III. , 2015, , .		0
38	Ultrafast linear array detector for real-time imaging. , 2019, , .		0
39	Single-shot photon and electric field diagnostics using the linear array detector KALYPSO with MHz-range readout. , 2019, , .		0
40	Novel P-in-N Si-Sensor technology for high resolution and high repetition-rate experiments at accelerator facilities. , 2019, , .		0