

# Michael E Weller

## List of Publications by Year in descending order

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53  
papers

351  
citations

933264

10  
h-index

940416

16  
g-index

53  
all docs

53  
docs citations

53  
times ranked

212  
citing authors

#	ARTICLE	IF	CITATIONS
1	A review of new wire arrays with open and closed magnetic configurations at the 1.6MA Zebra generator for radiative properties and opacity effects. High Energy Density Physics, 2009, 5, 115-123.	0.4	36
2	Radiation sources with planar wire arrays and planar foils for inertial confinement fusion and high energy density physics research. Physics of Plasmas, 2014, 21, .	0.7	27
3	Spectroscopic analysis and modeling of tungsten EBIT and Z-pinch plasma experiments1This article is part of a Special Issue on the 10th International Colloquium on Atomic Spectra and Oscillator Strengths for Astrophysical and Laboratory Plasmas.. Canadian Journal of Physics, 2011, 89, 599-608.	0.4	22
4	WADM and radiation MHD simulations of compact multi-planar and cylindrical wire arrays at 1 MA currents. High Energy Density Physics, 2009, 5, 166-172.	0.4	18
5	Implosion dynamics in double planar wire array Z pinches. Physics of Plasmas, 2010, 17, 112705.	0.7	18
6	Studies of Radiative and Implosion Characteristics From Brass Planar Wire Arrays. IEEE Transactions on Plasma Science, 2010, 38, 631-638.	0.6	18
7	Searching for efficient X-ray radiators for wire array Z-pinch plasmas using mid-atomic-number single planar wire arrays on Zebra at UNR. High Energy Density Physics, 2011, 7, 252-258.	0.4	17
8	Study of Electron Beams in Wire Arrays at 1-MA Z-Pinch Generators. IEEE Transactions on Plasma Science, 2010, 38, 658-666.	0.6	12
9	Three new extreme ultraviolet spectrometers on NSTX-U for impurity monitoring. Review of Scientific Instruments, 2016, 87, 11E324.	0.6	12
10	Anisotropy of radiation emitted from planar wire arrays. Physics of Plasmas, 2013, 20, .	0.7	11
11	Investigation of characteristics of hard x-rays produced during implosions of wire array loads on 1.6 MA Zebra generator. High Energy Density Physics, 2010, 6, 113-120.	0.4	10
12	Analysis of X-ray iron and nickel radiation and jets from planar wire arrays and X-pinchs. Journal of Physics: Conference Series, 2010, 244, 032031.	0.3	9
13	Modeling of K-shell Al and Mg radiation from compact single, double planar and cylindrical alloyed Al wire array plasmas produced on the 1.6MA Zebra generator at UNR. High Energy Density Physics, 2012, 8, 30-37.	0.4	9
14	Double and Single Planar Wire Arrays on University-Scale Low-Impedance LTD Generator. IEEE Transactions on Plasma Science, 2016, 44, 432-440.	0.6	9
15	Influence of induced axial magnetic field on plasma dynamics and radiative characteristics of $Z$ pinches. Physical Review E, 2011, 84, 046408.	0.8	8
16	Time-gated measurements of electron beam generated $K\alpha$ emission lines from brass planar wire array implosions. High Energy Density Physics, 2012, 8, 247-252.	0.4	8
17	Atomic physics of relativistic high contrast laser-produced plasmas in experiments on Leopard laser facility at UNR. High Energy Density Physics, 2012, 8, 190-195.	0.4	8
18	Radiation from mixed multi-planar wire arrays. Physics of Plasmas, 2014, 21, .	0.7	8

#	ARTICLE	IF	CITATIONS
19	Radiation from Ag high energy density Z-pinch plasmas and applications to lasing. Physics of Plasmas, 2014, 21, .	0.7	8
20	Producing Kiloelectronvolt L-Shell Plasmas on Zebra at UNR. IEEE Transactions on Plasma Science, 2012, 40, 3347-3353.	0.6	7
21	Observation of He-like Satellite Lines of the H-like Potassium K xix Emission. Astrophysical Journal, 2019, 881, 92.	1.6	7
22	X-ray pulse shaping in experiments with planar wire arrays at the 1.6 MA Zebra generator. Journal of Physics: Conference Series, 2010, 244, 032030.	0.3	6
23	Compact hohlraum configuration with parallel planar-wire-array x-ray sources at the 1.7-MA Zebra generator. Physical Review E, 2014, 90, 063101.	0.8	6
24	Radiative properties of mixed nested cylindrical wire arrays on Zebra at UNR. High Energy Density Physics, 2012, 8, 184-189.	0.4	5
25	Characterization of pure and mixed Ar, Kr and Xe gas jets generated by different nozzles and a study of X-ray radiation yields after interaction with a sub-ps laser pulse. Physics of Plasmas, 2016, 23, 101207.	0.7	5
26	Study of x-rays produced from debris-free sources with Ar, Kr and Kr/Ar mixture linear gas jets irradiated by UNR Leopard laser beam with fs and ns pulse duration. High Energy Density Physics, 2016, 19, 11-22.	0.4	5
27	Electron-density-sensitive Line Ratios of Fe xiiiâ€“ xvi from Laboratory Sources Compared to CHIANTI. Astrophysical Journal, 2018, 854, 102.	1.6	5
28	Studying Radiation from Z-pinch Wire Array and X-Pinch Plasmas: K-shell Mg to M-shell Mo. , 2009, , .		4
29	Scaling of Radiation Parameters of Planar and Compact Cylindrical Wire Arrays at the 1 MA Zebra Generator. , 2009, , .		4
30	Larger sized planar wire arrays of complex configuration on 1.5â€“1.8 MA Z-pinch generator. Physics of Plasmas, 2016, 23, .	0.7	4
31	Inner-shell radiation from wire array implosions on the Zebra generator. Physics of Plasmas, 2014, 21, .	0.7	3
32	Radiative signatures of Z-pinch plasmas at UNR: from X-pinches to wire arrays. International Journal of Modern Physics Conference Series, 2014, 32, 1460316.	0.7	3
33	Gold planar wire array radiation sources at university scale generators and their applications. International Journal of Modern Physics Conference Series, 2014, 32, 1460324.	0.7	3
34	Extreme ultraviolet spectroscopy and modeling of Cu on the SSPX Spheromak and laser plasma â€œSparkyâ€• Review of Scientific Instruments, 2012, 83, 10E101.	0.6	2
35	Radiation from mid-atomic-number X-pinches at 1.5â€“1.7 MA. Physics of Plasmas, 2016, 23, .	0.7	2
36	Diagnostics for molybdenum and tungsten erosion and transport in NSTX-U. Review of Scientific Instruments, 2016, 87, 11D445.	0.6	2

#	ARTICLE	IF	CITATIONS
37	Dynamics of the super pinch electron beam and fusion energy perspective. Physical Review Accelerators and Beams, 2021, 24, .	0.6	2
38	Analysis of Compact Cylindrical Wire Array Implosions with Brass and also by Alternating Brass and Al wires on the I-MA COBRA Generator. , 2009, , .		1
39	X-ray absorption spectroscopy of aluminum z-pinch plasma with tungsten backlighter planar wire array source. Review of Scientific Instruments, 2012, 83, 10E103.	0.6	1
40	Implosion characteristics and applications of combined tungsten-aluminum Z-pinch planar arrays. High Energy Density Physics, 2013, 9, 653-660.	0.4	1
41	Larger sized wire arrays on 1.5 MA Z-pinch generator. AIP Conference Proceedings, 2014, , .	0.3	1
42	New compact hohlraum configuration research at the 1.7 MA Z-pinch generator. , 2014, , .		1
43	Analysis of Mg spectral features produced by irradiations of laser pulses with different contrast and pulse durations. Journal of Physics B: Atomic, Molecular and Optical Physics, 2014, 47, 065001.	0.6	1
44	Temporal characteristics and radiative properties of uniform Mo and combined with Al triple planar wire arrays. High Energy Density Physics, 2015, 15, 71-77.	0.4	1
45	Compact differential B-dot monitors for measuring current on a fast pulsed power generator. Review of Scientific Instruments, 2019, 90, 105102.	0.6	1
46	Physics of Multi-Planar and Compact Cylindrical Wire Arrays Implosions on University-Scale Z-pinch Generators. , 2009, , .		0
47	Analysis of EUV data from implosions of aluminum wire arrays on 1 MA university-scale generators. , 2009, , .		0
48	Study of hard x-ray emission from high energy density plasmas. , 2009, , .		0
49	Investigation of two-step precursor formation in multi-planar wire arrays on the 1MA Zebra generator. , 2009, , .		0
50	WADM and MHD modeling of wire array precursor formation for the loads of different materials and geometries. , 2009, , .		0
51	Studies of new closed and open configurations of multi-planar wire arrays with straight and skewed wires and opacity effects observations at unr 1.4 MA zebra generator. , 2009, , .		0
52	Analysis of Al precursor wire array experiments on the 1 MA zebra generator at UNR. , 2013, , .		0
53	Mid-Atomic-Number Cylindrical Wire Array Precursor Plasma Studies on Zebra. IEEE Transactions on Plasma Science, 2015, 43, 2497-2502.	0.6	0