

# Bucur M Novac

## List of Publications by Year in descending order

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40  
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1306789

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40  
docs citations

40  
times ranked

122  
citing authors

#	ARTICLE	IF	CITATIONS
1	Determination of Breakdown Voltage Along the Surface of a Cylindrical Insulator. IEEE Transactions on Dielectrics and Electrical Insulation, 2022, 29, 327-333.	1.8	5
2	Generation of Intense Pulsed Electric Fields in a Large Volume of Water Verified Using Kerr Effect Diagnostics. IEEE Transactions on Plasma Science, 2022, 50, 1850-1858.	0.6	2
3	Experimental studies and simple numerical modeling of underwater electric discharges. Journal of the Acoustical Society of America, 2022, 151, 2844-2855.	0.5	3
4	Study of the Efficiency of Energy Transfer From Chemical to Acoustic Pressure Impulse for an Underwater Aluminum Exploding Wire. IEEE Transactions on Plasma Science, 2022, 50, 2195-2199.	0.6	2
5	2-kV Thyristor Triggered in Impact-Ionization Wave Mode by a Solid-State Spiral Generator. IEEE Transactions on Plasma Science, 2022, 50, 3443-3451.	0.6	3
6	A Supersonic Underwater Discharge as a High-Power Ultrasound Source. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2021, 68, 2294-2302.	1.7	1
7	Phenomenological Studies for Optimizing Subsonic Underwater Discharges. IEEE Transactions on Plasma Science, 2021, 49, 3615-3624.	0.6	6
8	Electrode Erosion and Lifetime Performance of a Compact and Repetitively Triggered Field Distortion Spark Gap Switch. IEEE Transactions on Plasma Science, 2020, 48, 212-218.	0.6	3
9	A Subnanosecond Pulsed Electric Field System for Studying Cells Electropermeabilization. IEEE Transactions on Plasma Science, 2020, 48, 4242-4249.	0.6	7
10	Continuous Disinfection of Fusarium oxysporum in Nutrient Solution by Pulsed Electric Field. , 2020, , .		1
11	Measurements of Pressure Waves Generated by Pulsed Electric Discharges in Water. , 2020, , .		0
12	A Compact and Repetitively Triggered, Field-Distortion Low-Jitter Spark-Gap Switch. IEEE Transactions on Plasma Science, 2019, 47, 4105-4113.	0.6	10
13	Analysis of the Optimal Operation Frequency With Lowest Time-Delay Jitter for an Electrically Triggered Field-Distortion Spark Gap. IEEE Transactions on Plasma Science, 2019, 47, 4708-4712.	0.6	7
14	Development of a 0.6-MV Ultracompact Magnetic Core Pulsed Transformer for High-Power Applications. IEEE Transactions on Plasma Science, 2018, 46, 156-166.	0.6	7
15	Theoretical and Experimental Studies of Off-the-Shelf V-Dot Probes. IEEE Transactions on Plasma Science, 2018, 46, 2985-2992.	0.6	11
16	Generation of Intense PEFs Using a Prolate Spheroidal Reflector Attached to the Bipolar Former of a 10-GW Pulsed Power Generator. IEEE Transactions on Plasma Science, 2018, 46, 3547-3551.	0.6	5
17	Unconventional Microwave Source. IEEE Transactions on Microwave Theory and Techniques, 2018, 66, 3245-3252.	2.9	4
18	Improvements to Secondary Windings of Tesla Transformers. Applied Physics Research, 2016, 9, 93.	0.2	0

#	ARTICLE	IF	CITATIONS
19	Bipolar Modulation of the Output of a 10-GW Pulsed Power Generator. IEEE Transactions on Plasma Science, 2016, 44, 1971-1977.	0.6	12
20	MIDOT: A novel probe for monitoring high-current flat transmission lines. Review of Scientific Instruments, 2016, 87, 125004.	0.6	2
21	Temperature Dependence of Kerr Constant for Water at 658 nm and for Pulsed Intense Electric Fields. IEEE Transactions on Plasma Science, 2016, 44, 963-967.	0.6	1
22	Ultrafast of-the-shelf V-DOT probes: Theory and experimentation. , 2015, , .		0
23	Guest Editorial Special Issue on Selected Papers From EAPPC 2014. IEEE Transactions on Plasma Science, 2015, 43, 3358-3358.	0.6	0
24	Transportable High-Energy High-Current Inductive Storage GW Generator. IEEE Transactions on Plasma Science, 2014, 42, 2919-2933.	0.6	3
25	A 10 GW Tesla-Driven Blumlein Pulsed Power Generator. IEEE Transactions on Plasma Science, 2014, 42, 2876-2885.	0.6	21
26	Demonstration of a Novel Pulsed Electric Field Technique Generating Neither Conduction Currents Nor Joule Effects. IEEE Transactions on Plasma Science, 2014, 42, 216-228.	0.6	18
27	Optimizing the Secondary Coil of a Tesla Transformer to Improve Spectral Purity. IEEE Transactions on Plasma Science, 2014, 42, 143-148.	0.6	3
28	A polarity-dependent spark-gap operated as a very high-power diode. , 2013, , .		1
29	Coaxial 0.5 MV air-core pulse transformer. , 2013, , .		2
30	A bespoke non-invasive current distribution sensor for use with a flat transmission line. , 2013, , .		0
31	Tesla-charged Blumlein high-power generator. , 2013, , .		2
32	A bespoke non-invasive current distribution sensor for use with a flat transmission line. , 2013, , .		0
33	Non-invasive pulsed electric field food processing is a reality. , 2013, , .		0
34	Determination of the Kerr Constant of Water at 658 nm for Pulsed Intense Electric Fields. IEEE Transactions on Plasma Science, 2012, 40, 2480-2490.	0.6	8
35	Non-invasive pulsed electric field food processing: Proof-of-principle experiments. , 2012, , .		2
36	Filamentary modeling of pulsed high-current systems. , 2012, , .		0

#	ARTICLE	IF	CITATIONS
37	Experimental and theoretical studies of a flyer plate electromagnetic accelerator. , 2012, , .		0
38	Numerical Modelling of a Flyer Plate Electromagnetic Accelerator. IEEE Transactions on Plasma Science, 2012, 40, 2300-2311.	0.6	7
39	A mobile, high-power, high-energy pulsed-power system. , 2012, , .		2
40	Detection of broadband microwave radiation from a solid-dielectric closing switch. Measurement Science and Technology, 2004, 15, L11-L14.	1.4	2