

# Si-Wei Liu

## List of Publications by Year in descending order

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27  
papers

250  
citations

933447

10  
h-index

940533

16  
g-index

27  
all docs

27  
docs citations

27  
times ranked

200  
citing authors

#	ARTICLE	IF	CITATIONS
1	Diagnosis of transformer winding faults based on FEM simulation and on-site experiments. IEEE Transactions on Dielectrics and Electrical Insulation, 2016, 23, 3752-3760.	2.9	31
2	Intensity improvement of shock waves induced by liquid electrical discharges. Physics of Plasmas, 2017, 24, .	1.9	29
3	Influence of deposited energy on shock wave induced by underwater pulsed current discharge. Physics of Plasmas, 2016, 23, .	1.9	25
4	Influence of plasma channel impedance model on electrohydraulic shockwave simulation. Physics of Plasmas, 2019, 26, .	1.9	20
5	Characteristic analysis of plasma channel and shock wave in electrohydraulic pulsed discharge. Physics of Plasmas, 2019, 26, .	1.9	18
6	Comparison and analysis of shockwave characteristics between underwater pulsed discharge and metal wire explosion. Physics of Plasmas, 2020, 27, 033503.	1.9	18
7	Analysis of shock wave induced by underwater pulsed discharge using discharge current interception. Journal of Applied Physics, 2020, 127, 143301.	2.5	14
8	Polarity effect variation on electrical breakdown of water under sub-millisecond pulses. Applied Physics Letters, 2017, 111, .	3.3	11
9	Application of Jiles-Atherton model in description of temperature characteristics of magnetic core. Review of Scientific Instruments, 2018, 89, 104702.	1.3	10
10	Effect of electrical breakdown modes on shock wave intensity in water. IEEE Transactions on Dielectrics and Electrical Insulation, 2018, 25, 1679-1687.	2.9	10
11	Modeling analysis of pulsed magnetization process of magnetic core based on inverse Jiles-Atherton model. Review of Scientific Instruments, 2018, 89, 054701.	1.3	9
12	Pulse Magnetic Properties Measurement and Characterization of Fe-Based Nanocrystalline Cores for High-Voltage Pulse Magnetics Applications. IEEE Transactions on Power Electronics, 2015, 30, 6883-6896.	7.9	8
13	Influence of conductivities on electrical breakdown of water under microsecond pulsed voltage. Physics of Plasmas, 2020, 27, 063512.	1.9	8
14	Optimization Design of a Repetitive Nanosecond Pulse Generator Based on Saturable Pulse Transformer and Magnetic Switch. IEEE Transactions on Plasma Science, 2015, 43, 3277-3285.	1.3	7
15	Determination of the Discharge Coefficient in Improved Empirical Impedance Model of Plasma Channel for Underwater Spark Discharge. IEEE Transactions on Plasma Science, 2020, 48, 196-203.	1.3	7
16	Analysis of cavities characteristics of underwater pulsed current discharge. Plasma Sources Science and Technology, 2021, 30, 085005.	3.1	6
17	Effect of electrical breakdown discharge modes on shock wave intensity in water. , 2017, , .		5
18	A method for reducing errors of magnetization modeling of nanocrystalline alloy cores based on modified Jiles-Atherton model. Journal of Applied Physics, 2019, 125, .	2.5	5

#	ARTICLE	IF	CITATIONS
19	Simulation of the magnetization process of a gapped magnetic core based on the Jiles–Atherton model. Review of Scientific Instruments, 2019, 90, 024705.	1.3	4
20	Loss and permeability characterization of Fe-based nanocrystalline cores for pulsed power magnetic applications. , 2014, , .		2
21	General diagnosis of transformer winding axial displacement faults based on FEM simulation and on-site experiments. , 2016, , .		1
22	Influence of voltage polarity on intensity of shock waves induced by underwater pulse discharges. , 2017, , .		1
23	Influence of Electrohydraulic Discharge on Its Application in Oil Well Stimulation. , 2018, , .		1
24	Underwater positive streamer propagation with different insulation modes. , 2017, , .		0
25	Study on underwater subsonic electrical discharges: Streamer morphology and development. , 2017, , .		0
26	Enhanced Oil Recovery by Repetitive Electrohydraulic Shock Waves: Fracturing and Enhanced-Permeability. , 2018, , .		0
27	Improved one-dimensional “piston” model of electrohydraulic shock wave based on discharge current interception. Journal of Applied Physics, 2021, 130, 093301.	2.5	0