

# XX Wang

## List of Publications by Year in descending order

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37  
papers

392  
citations

840776

11  
h-index

839539

18  
g-index

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37  
docs citations

37  
times ranked

286  
citing authors

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 1  | Electrical breakdown from macro to micro/nano scales: a tutorial and a review of the state of the art. <i>Plasma Research Express</i> , 2020, 2, 013001.   | 0.9 | 66        |
| 2  | Similarity of gas discharge in low-pressure argon gaps between two plane-parallel electrodes. <i>High Voltage</i> , 2016, 1, 86-89.  | 4.7 | 30        |
| 3  | Effect of distribution of electric field on low-pressure gas breakdown. <i>Physics of Plasmas</i> , 2017, 24, .  | 1.9 | 29        |
| 4  | Intersection of Paschen's curves for argon. <i>Physics of Plasmas</i> , 2016, 23, .  | 1.9 | 26        |
| 5  | Transition characteristics of low-pressure discharges in a hollow cathode. <i>Physics of Plasmas</i> , 2017, 24, 083516.   | 1.9 | 20        |
| 6  | Research at Tsinghua University on electrical explosions of wires. <i>Matter and Radiation at Extremes</i> , 2019, 4, .  | 3.9 | 19        |
| 7  | Disinfection of <i>Escherichia coli</i> in ice by surface dielectric barrier discharge plasma. <i>Applied Physics Letters</i> , 2021, 119, 090601.   | 3.3 | 17        |
| 8  | Similarity of capacitive radio-frequency discharges in nonlocal regimes. <i>Physics of Plasmas</i> , 2020, 27, 113501.   | 1.9 | 15        |
| 9  | Observation of electron runaway in a tip-plane air gap under negative nanosecond pulse voltage by PIC/MCC simulation. <i>Plasma Sources Science and Technology</i> , 2022, 31, 045027.                 | 3.1 | 15        |
| 10 | Underwater electrical wire explosion: Shock wave from melting being overtaken by shock wave from vaporization. <i>Physics of Plasmas</i> , 2018, 25, 053502.   | 1.9 | 14        |
| 11 | Determination of the cathode layer thickness in the normal glow discharge. <i>Physics of Plasmas</i> , 2017, 24, .   | 1.9 | 11        |
| 12 | Enhancement of Shock Wave Generated by Underwater Electrical Wire-Array Explosion at a Fixed Energy and Mass of Wire-Array. <i>IEEE Transactions on Plasma Science</i> , 2020, 48, 3373-3377.          | 1.3 | 11        |
| 13 | Breakdown, discharge modes, and gaseous recovery of atmospheric air with repetitive 10 ns pulses. <i>Physics of Plasmas</i> , 2021, 28, .  | 1.9 | 11        |
| 14 | Generalizing Similarity Laws for Radio-Frequency Discharge Plasmas across Nonlinear Transition Regimes. <i>Physical Review Applied</i> , 2021, 16, .   | 3.8 | 11        |
| 15 | Direct current microplasma formation around microstructure arrays. <i>Applied Physics Letters</i> , 2021, 118, .   | 3.3 | 9         |
| 16 | Investigation of current density, recombination rate and space charge density in polyethylene thin films based on bipolar charge transport model. <i>Materials Research Express</i> , 2019, 6, 096451. | 1.6 | 8         |
| 17 | Electrical explosion across gas-liquid interface: Aerosol breakdown, shock waves, and cavity dynamics. <i>Physics of Fluids</i> , 2021, 33, 077115.  | 4.0 | 8         |
| 18 | Similarity properties in capacitive radio frequency plasmas with nonlinear collision processes. <i>Plasma Sources Science and Technology</i> , 2021, 30, 115009.                                       | 3.1 | 8         |

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|----|---|-----|-----------|
| 19 | Investigation on the similarity law of low-pressure glow discharges based on the light intensity distributions in geometrically similar gaps. <i>Physics of Plasmas</i> , 2017, 24, . | 1.9 | 7         |
| 20 | Effect of reflection patterns on converging shock waves generated by underwater electrical wire array explosion. <i>Physics of Plasmas</i> , 2020, 27, .                              | 1.9 | 7         |
| 21 | Influencing Factors and Error Analysis of Pulse Current Measurement With Air-Core Rogowski Coil. <i>IEEE Transactions on Plasma Science</i> , 2020, 48, 4381-4386.                    | 1.3 | 7         |
| 22 | The development of coated and non-coated wire explosions observed by X-ray backlighting. <i>Physics of Plasmas</i> , 2015, 22, 112707.  | 1.9 | 5         |
| 23 | Effect of time interval between pulses on the synthetic sound generated by repetitive nanosecond pulse discharge. <i>Physics of Plasmas</i> , 2021, 28, .                             | 1.9 | 5         |
| 24 | Field-Circuit Coupling Simulation of Petawatt-Class Z-Pinch Accelerator. <i>IEEE Transactions on Plasma Science</i> , 2019, 47, 2916-2921.  | 1.3 | 4         |
| 25 | An Indirect Iterative Method to Couple the Generator to the MHD Load for Future Z-Pinch. <i>IEEE Transactions on Plasma Science</i> , 2020, 48, 3418-3423.                            | 1.3 | 4         |
| 26 | Timing of x-ray burst from X-pinch. <i>Physics of Plasmas</i> , 2015, 22, 063105.   | 1.9 | 3         |
| 27 | Computation of electron transport and relaxation properties in gases based on improved multi-term approximation of Boltzmann equation. <i>Physics of Plasmas</i> , 2018, 25, .        | 1.9 | 3         |
| 28 | Range and similarity of hollow cathode discharge in argon. <i>High Voltage</i> , 2019, 4, 217-220.  | 4.7 | 3         |
| 29 | Investigation of sound generated by a DC biased rectangular AC current arc in ambient air. <i>Physics of Plasmas</i> , 2020, 27, 023509.  | 1.9 | 3         |
| 30 | Resonant Frequencies in Monolithic Radial Transmission Line. <i>IEEE Transactions on Plasma Science</i> , 2020, 48, 4273-4278.  | 1.3 | 3         |
| 31 | Numerical Simulations for Design Optimization of Wire Array in Underwater Electrical Wire Explosion (UEWE). <i>IEEE Transactions on Plasma Science</i> , 2022, 50, 1833-1840.         | 1.3 | 3         |
| 32 | Comparison of underwater electrical wire explosions with large and small capacitors charged to a same energy. <i>Physics of Plasmas</i> , 2020, 27, 063504.                           | 1.9 | 2         |
| 33 | Unbalanced distribution of electric current in underwater electrical wire array explosion. <i>Journal Physics D: Applied Physics</i> , 2022, 55, 185205.                              | 2.8 | 2         |
| 34 | Note: Measurement of the cathode layer thickness in glow discharges with a Langmuir probe. <i>Review of Scientific Instruments</i> , 2018, 89, 066103.                                | 1.3 | 1         |
| 35 | Diagnosis and Analysis of Load Current Divergence in Z-Pinch Experiments. <i>IEEE Transactions on Plasma Science</i> , 2020, 48, 3956-3961.   | 1.3 | 1         |
| 36 | Investigation of the microsecond-pulse acoustic wave generated by a single nanosecond-pulse discharge. <i>Physics of Plasmas</i> , 2022, 29, .  | 1.9 | 1         |

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|----|---|-----|-----------|
| 37 | Experiments of a monolithic radial transmission line. Review of Scientific Instruments, 2016, 87, 114702. | 1.3 | 0         |