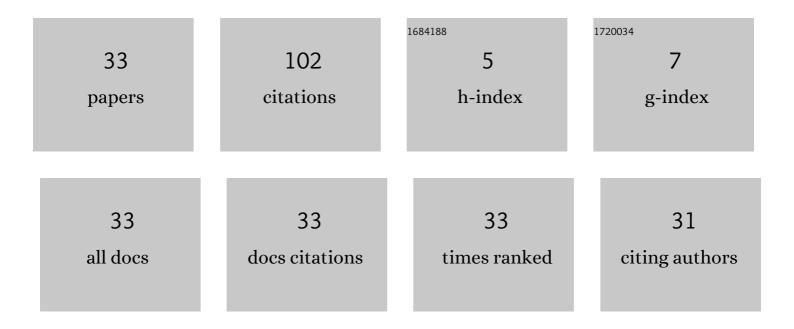
## Hajime Urai

List of Publications by Year in descending order

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HALIME LIDAL

| #  | Article  | IF  | CITATIONS |
|----|--|-----|-----------|
| 1  | Effect of Axial Magnetic Fields on Electrical Characteristics of Low-Pressure Wire Discharge. Japanese<br>Journal of Applied Physics, 1994, 33, 4243-4246.   | 1.5 | 9         |
| 2  | Development of partial discharge detection and diagnostic methods of vacuum circuit breaker. , 2014, ,   |     | 8         |
| 3  | Measurement of gas temperature in self-blast chamber of model gas circuit breaker at high current interruption. IEEJ Transactions on Electrical and Electronic Engineering, 2018, 13, 1440-1445.   | 1.4 | 7         |
| 4  | Critical Electric-Field Strength of High-Temperature SF <sub>6</sub> Mixture Gas with Ablated PTFE/BN<br>Vapor at Temperatures of 300–4000 K. , 2019, , .  |     | 7         |
| 5  | Predominant reaction products and dielectric breakdown properties of gas mixtures consisting of<br>SF <sub>6</sub> and ablation products of C <sub>2</sub> F <sub>4</sub> /BN in the temperature range<br>of 300–3000 K. Journal Physics D: Applied Physics, 2021, 54, 165204. | 2.8 | 7         |
| 6  | Evaluation of Thermal Interruption Capability in SF <sub>6</sub> Gas Circuit Breakers with<br>Re-ignition Voltage and its Application to Experimental Design. IEEJ Transactions on Power and Energy,<br>2012, 132, 407-414.  | 0.2 | 7         |
| 7  | Method of Evaluating Exhaust Characteristics of High-Voltage Circuit Breaker. IEEE Transactions on<br>Power Delivery, 2020, 35, 707-714.   | 4.3 | 6         |
| 8  | High-repetition-rate operation of the wire ion plasma source using a novel method. Review of Scientific Instruments, 1997, 68, 3346-3350.  | 1.3 | 5         |
| 9  | Electrical characteristics of a low pressure wire discharge and an application to high current density electron gun. Radiation Physics and Chemistry, 1995, 46, 499-502.   | 2.8 | 4         |
| 10 | Construction of measurement system of PD phenomena in medium vacuum region of vacuum interrupter. , 2014, , .  |     | 4         |
| 11 | Development of diagnostic methods for vacuum leakage from vacuum interrupter by partial discharge detection. , 2016, , .   |     | 4         |
| 12 | Interrupter Size Effect of Highâ€Voltage Gas Circuit Breaker on Thermal Interruption Performance and<br>Current Zero Properties. IEEJ Transactions on Electrical and Electronic Engineering, 2021, 16, 215-225.  | 1.4 | 4         |
| 13 | Measurement of hot gas exhaust characteristics in SF <inf>6</inf> circuit breaker with small model interrupter. , 2013, , .  |     | 3         |
| 14 | Evaluation of Dielectric Interruption Performance in Gas Circuit Breaker with Ablated PTFE/BN Vapor. , 2019, , .   |     | 3         |
| 15 | Optical Emission Spectroscopy in Self-Blast Gas Circuit Breaker at Large Current Condition. IEEE<br>Transactions on Plasma Science, 2019, 47, 5064-5069.   | 1.3 | 3         |
| 16 | Investigation on Pressure Build-Up and Blowing Processes by Multipoint Pressure Measurement and<br>Fluid Analysis for Self-Blast-Type High-Voltage Circuit Breaker. IEEE Transactions on Plasma Science,<br>2021, 49, 854-861.   | 1.3 | 3         |
| 17 | Method of Evaluating Dielectric Interruption Capability of High-Voltage Circuit Breaker. IEEE<br>Transactions on Power Delivery, 2022, 37, 3885-3892.  | 4.3 | 3         |
| 18 | Development of Highly Accurate Analysis Method for Compressible Fluid Considering Radiation and Ablation. IEEJ Transactions on Power and Energy, 2007, 127, 1002-1008.   | 0.2 | 2         |

HAJIME URAI

| #  | Article   | IF  | CITATIONS |
|----|---|-----|-----------|
| 19 | Estimation of interruption performance in high-voltage circuit breakers with a modified method for arc parameter evaluation. , 2011, , .  |     | 2         |
| 20 | Design of Dual Motion Mechanism Moving along Optimized Stroke Curve to Improve Capacitive<br>Current Switching Performance for Gas Circuit Breaker. , 2019, , .   |     | 2         |
| 21 | Analytical Consideration of Electron Avalanche in High-temperature SF <sub>6</sub> Gas with Two<br>Regions of Different Temperature and Pressure. IEEJ Transactions on Power and Energy, 2021, 141,<br>718-724. | 0.2 | 2         |
| 22 | Arc and Fluid Dynamics Simulation for High-Voltage Circuit Breakers as a Design Tool. IEEJ<br>Transactions on Power and Energy, 2021, 141, 666-675.   | 0.2 | 2         |
| 23 | Modeling of Dynamic Characteristics for Spring Operating Gas Circuit Breaker. Nippon Kikai Gakkai<br>Ronbunshu, C Hen/Transactions of the Japan Society of Mechanical Engineers, Part C, 2013, 79, 691-703.     | 0.2 | 1         |
| 24 | Ring-Shaped Capacitive Probes for Determination of Spatial Arc Voltage Distribution in High-Voltage<br>Circuit Breaker Model. IEEE Transactions on Plasma Science, 2017, 45, 3300-3305.                         | 1.3 | 1         |
| 25 | Performance Prediction Method Considering Shock Wave in Nozzle for High-Voltage Circuit Breaker.<br>Plasma Physics and Technology, 2019, 6, 184-187.  | 0.3 | 1         |
| 26 | Investigation of Ablation Gas Transportation with Optical Emission Spectroscopy for Gas Circuit Breaker. , 2019, , .  |     | 1         |
| 27 | Analytical Study on Electron Avalanche in Two Different Temperature and Pressure Regions for<br>High-temperature SF <sub>6</sub> Gas. , 2022, , .   |     | 1         |
| 28 | Evaluation of Gas Flow by Multi-point Pressure Measurement using a Self-blast Gas Circuit Breaker<br>Model. , 2019, , .   |     | 0         |
| 29 | Trends in Switching and Protection Technology for Stable Supply of Electricity. IEEJ Transactions on Power and Energy, 2013, 133, 794-798.  | 0.2 | Ο         |
| 30 | Optimization of Dual Motion Mechanism with Double Grooved Cams for High-voltage Gas Circuit<br>Breaker. Advances in Science, Technology and Engineering Systems, 2020, 5, 109-118.                              | 0.5 | 0         |
| 31 | Discharge Propagation in Localized High-temperature SF <sub>6</sub> Gas with Breakdown Voltage<br>Measurement. , 2022, , .  |     | Ο         |
| 32 | Temperature Measurement of SF <sub>6</sub> Arcs in Thermal Interruption Region Around Current<br>Zero in Gas Circuit Breakers Using Optical Emission Spectroscopy. , 2022, , .                                  |     | 0         |
| 33 | Simulations for Current Interruption in High-Voltage Gas Circuit Breakers. IEEJ Transactions on Power and Energy, 2022, 142, 239-242.   | 0.2 | О         |