

Yong-Seok Hwang

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

68

papers

503

citations

11

h-index

19

g-index

80

ext. papers

571

ext. citations

2

avg, IF

3.61

L-index

| # | Paper | IF | Citations |
|----|---|-----|-----------|
| 68 | Deep learning-based Pulse Height Estimation for Separation of Pile-up Pulses From NaI(Tl) Detector. <i>IEEE Transactions on Nuclear Science</i> , 2022 , 1-1 | 1.7 | 0 |
| 67 | Identification of kink instability in 3D helical flux ropes at VEST. <i>Physics of Plasmas</i> , 2022 , 29, 052112 | 2.1 | |
| 66 | Numerical simulation for wire X-pinch plasma on 2D/3D geometry. <i>Physics of Plasmas</i> , 2022 , 29, 062701 | 2.1 | |
| 65 | Exploring the nonextensive thermodynamics of partially ionized gas in magnetic field. <i>Physical Review E</i> , 2021 , 104, 045202 | 2.4 | 0 |
| 64 | Measurement on the electrical conductivity of copper along the binodal curve in warm dense regime. <i>Applied Physics Letters</i> , 2021 , 119, 174102 | 3.4 | 0 |
| 63 | Radial profile measurement with an improved 1 kHz Thomson scattering system on Versatile Experiment Spherical Torus. <i>Review of Scientific Instruments</i> , 2021 , 92, 043549 | 1.7 | 0 |
| 62 | Data analysis scheme for correcting general misalignments of an optics configuration for a voltage measurement system based on the Pockels electro-optic effect. <i>Review of Scientific Instruments</i> , 2021 , 92, 043105 | 1.7 | 1 |
| 61 | Development of a filtered AXUV diode array for X-pinch soft x-ray spectra in the energy range of 1-10 keV. <i>Review of Scientific Instruments</i> , 2021 , 92, 053509 | 1.7 | 3 |
| 60 | A modular X-pinch device for versatile X-pinch experiments at Seoul National University. <i>Review of Scientific Instruments</i> , 2021 , 92, 053533 | 1.7 | 3 |
| 59 | Development of an ultrafast charge exchange spectroscopy system on the KSTAR tokamak. <i>Review of Scientific Instruments</i> , 2021 , 92, 053525 | 1.7 | |
| 58 | Magnetic confinement and instability in partially magnetized plasma. <i>Plasma Sources Science and Technology</i> , 2021 , 30, 025011 | 3.5 | 8 |
| 57 | Electric potential in partially magnetized E B discharges. <i>AIP Advances</i> , 2021 , 11, 085113 | 1.5 | 1 |
| 56 | Non-Maxwellian Electron Energy Probability Functions in an Indirectly Heated Cathode Bernas Source. <i>Applied Science and Convergence Technology</i> , 2020 , 29, 167-169 | 0.8 | 2 |
| 55 | Measurement of the Neutron Energy Spectra by Using Organic Scintillators at the Beam Dump of the 100-MeV Proton Linear Accelerator in the KOMAC. <i>Journal of the Korean Physical Society</i> , 2020 , 77, 414-417 | 0.6 | |
| 54 | Time-Resolved Analysis of SF6 Arc Plasmas in a Laboratory Model Chamber for Circuit Breaker. <i>IEEE Transactions on Plasma Science</i> , 2020 , 48, 3968-3974 | 1.3 | 2 |
| 53 | Modified propagation path and expanded coupling regime of lower hybrid fast wave by n -upshift via wave scattering in VEST. <i>Physics of Plasmas</i> , 2019 , 26, 012506 | 2.1 | 0 |
| 52 | Improved gating device of time-of-flight ion mass analyzer for ion sources. <i>Review of Scientific Instruments</i> , 2019 , 90, 033305 | 1.7 | |

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| 51 | Time-dependent kinetic analysis of trapped electrons in a magnetically expanding plasma. <i>Plasma Sources Science and Technology</i> , 2019 , 28, 07LT01 | 3.5 | 10 |
| 50 | Enhanced shock wave generation via pre-breakdown acceleration using water electrolysis in negative streamer pulsed spark discharges. <i>Applied Physics Letters</i> , 2018 , 112, 134101 | 3.4 | 7 |
| 49 | Design of an imaging Fabry-Pérot interferometer for the VEST edge plasma temperature measurement. <i>Review of Scientific Instruments</i> , 2018 , 89, 10D108 | 1.7 | 1 |
| 48 | Thermodynamics of a magnetically expanding plasma with isothermally behaving confined electrons. <i>New Journal of Physics</i> , 2018 , 20, 063033 | 2.9 | 16 |
| 47 | Simple and accurate method of diamagnetic flux measurement in Versatile Experimental Spherical Torus (VEST). <i>Review of Scientific Instruments</i> , 2018 , 89, 103508 | 1.7 | 2 |
| 46 | Initial operation results of NE213 scintillation detector for time-resolved measurements on triton burnup in KSTAR. <i>Review of Scientific Instruments</i> , 2018 , 89, 10I118 | 1.7 | 4 |
| 45 | Coupling study of fast wave near the lower hybrid frequency range in VEST. <i>Physics of Plasmas</i> , 2018 , 25, 082511 | 2.1 | 8 |
| 44 | Evidence of a turbulent ExB mixing avalanche mechanism of gas breakdown in strongly magnetized systems. <i>Nature Communications</i> , 2018 , 9, 3523 | 17.4 | 9 |
| 43 | Efficient pre-ionization by direct X-B mode conversion in VEST. <i>Physics of Plasmas</i> , 2017 , 24, 012103 | 2.1 | 12 |
| 42 | Characterization of photo-multiplier tube as ex-vessel radiation detector in tokamak. <i>Review of Scientific Instruments</i> , 2017 , 88, 093503 | 1.7 | 3 |
| 41 | Underwater spark discharge with long transmission line for cleaning horizontal wells. <i>Journal of Applied Physics</i> , 2017 , 121, 243302 | 2.5 | 9 |
| 40 | Electron cyclotron resonance heating by magnetic filter field in a negative hydrogen ion source. <i>Review of Scientific Instruments</i> , 2016 , 87, 02B117 | 1.7 | 4 |
| 39 | Characterization of electron kinetics regime with electron energy probability functions in inductively coupled hydrogen plasmas. <i>Physics of Plasmas</i> , 2016 , 23, 023511 | 2.1 | 9 |
| 38 | A simple spectroscopic method to determine the degree of dissociation in hydrogen plasmas with wide-range spectrometer. <i>Review of Scientific Instruments</i> , 2016 , 87, 053503 | 1.7 | 9 |
| 37 | Optimization of plasma parameters with magnetic filter field and pressure to maximize H ⁺ ion density in a negative hydrogen ion source. <i>Review of Scientific Instruments</i> , 2016 , 87, 02B136 | 1.7 | 7 |
| 36 | Numerical model for electrical explosion of copper wires in water. <i>Journal of Applied Physics</i> , 2016 , 120, 203301 | 2.5 | 29 |
| 35 | Electron density profile measurements from hydrogen line intensity ratio method in Versatile Experiment Spherical Torus. <i>Review of Scientific Instruments</i> , 2016 , 87, 11E540 | 1.7 | |
| 34 | Triton burnup measurements in KSTAR using a neutron activation system. <i>Review of Scientific Instruments</i> , 2016 , 87, 11D828 | 1.7 | 18 |

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|----|---|-----|----|
| 33 | Heating and current drive by fast wave in lower hybrid range of frequency on Versatile Experiment Spherical Torus. <i>Fusion Engineering and Design</i> , 2016 , 109-111, 707-711 | 1.7 | 4 |
| 32 | Global model analysis of negative ion generation in low-pressure inductively coupled hydrogen plasmas with bi-Maxwellian electron energy distributions. <i>Physics of Plasmas</i> , 2015 , 22, 033506 | 2.1 | 29 |
| 31 | Correlation of the peak pressure generated by an underwater spark discharge with energy absorption in a spark channel. <i>Journal of the Korean Physical Society</i> , 2015 , 66, 1845-1851 | 0.6 | 10 |
| 30 | Synthesis of carbon-incorporated titanium oxide nanocrystals by pulsed solution plasma: electrical, optical investigation and nanocrystals analysis. <i>RSC Advances</i> , 2015 , 5, 9497-9502 | 3.7 | 3 |
| 29 | Operating conditions for the generation of stable anode spot plasma in front of a positively biased electrode. <i>Review of Scientific Instruments</i> , 2014 , 85, 02A508 | 1.7 | 4 |
| 28 | Development of a radio frequency ion source with multi-helicon plasma injectors for neutral beam injection system of Versatile Experiment Spherical Torus. <i>Review of Scientific Instruments</i> , 2014 , 85, 02B318 | 1.7 | 3 |
| 27 | Investigation of helium ion production in constricted direct current plasma ion source with layered-glow. <i>Review of Scientific Instruments</i> , 2014 , 85, 02C105 | 1.7 | |
| 26 | Development of internal magnetic probe for current density profile measurement in Versatile Experiment Spherical Torus. <i>Review of Scientific Instruments</i> , 2014 , 85, 11D809 | 1.7 | 4 |
| 25 | One-dimensional full wave simulation on XB mode conversion in electron cyclotron heating. <i>Physics of Plasmas</i> , 2014 , 21, 062108 | 2.1 | 5 |
| 24 | Development of a novel radio-frequency negative hydrogen ion source in conically converging configuration. <i>Review of Scientific Instruments</i> , 2014 , 85, 02B112 | 1.7 | 6 |
| 23 | Effects of discharge chamber length on the negative ion generation in volume-produced negative hydrogen ion source. <i>Review of Scientific Instruments</i> , 2014 , 85, 02B119 | 1.7 | 17 |
| 22 | Thermodynamic Properties and Electrical Conductivity of Water Plasma. <i>Contributions To Plasma Physics</i> , 2013 , 53, 330-335 | 1.4 | 9 |
| 21 | Design Features and Commissioning of the Versatile Experiment Spherical Torus (VEST) at Seoul National University. <i>Plasma Science and Technology</i> , 2013 , 15, 244-251 | 1.5 | 45 |
| 20 | Study on Discharge Characteristics of a Cylindrical Inertial Electrostatic Confinement (IEC) Device for High-Yield Fusion Sources. <i>Fusion Science and Technology</i> , 2011 , 60, 107-111 | 1.1 | |
| 19 | Lethal Effects of Pulsed High-Voltage Discharge on Marine Plankton and Escherichia coli. <i>Water, Air, and Soil Pollution</i> , 2010 , 213, 161-169 | 2.6 | 8 |
| 18 | Preface: Proceedings of the 12th International Conference on Ion Sources. Jeju, Korea, 26-31 August 2007. <i>Review of Scientific Instruments</i> , 2008 , 79, 02A101 | 1.7 | 1 |
| 17 | Electric field effect on the optically-pumped far-infrared laser. <i>Applied Physics B: Lasers and Optics</i> , 2008 , 93, 575-582 | 1.9 | |
| 16 | Development of a High-Current Helicon Ion Source With High Monatomic Fraction for the Application of Neutron Generators. <i>IEEE Transactions on Plasma Science</i> , 2007 , 35, 1476-1479 | 1.3 | 15 |

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|----|--|-----|----|
| 15 | H ⁻ ion beam extraction from a transformer coupled plasma source with triode extraction system. <i>Review of Scientific Instruments</i> , 2006 , 77, 03A536 | 1.7 | 4 |
| 14 | New method of high brightness ion extraction based on bias electrode. <i>Review of Scientific Instruments</i> , 2006 , 77, 03B507 | 1.7 | 7 |
| 13 | Electron density and temperature measurement method by using emission spectroscopy in atmospheric pressure nonequilibrium nitrogen plasmas. <i>Physics of Plasmas</i> , 2006 , 13, 093501 | 2.1 | 51 |
| 12 | Development of a Cylindrical Neutron Generator using RF-driven Plasma 2006 , | | 1 |
| 11 | An improved Abel inversion method modified for tangential interferometry in tokamak. <i>Review of Scientific Instruments</i> , 2004 , 75, 3408-3410 | 1.7 | 8 |
| 10 | Improved common-path fast-scanning heterodyne interferometer system as potential dense-plasma diagnostics. <i>Review of Scientific Instruments</i> , 2004 , 75, 3417-3419 | 1.7 | 2 |
| 9 | Design of a far-infrared interferometer/polarimeter system for Korea Superconducting Tokamak Advanced Research. <i>Review of Scientific Instruments</i> , 2004 , 75, 3402-3404 | 1.7 | 9 |
| 8 | Development of a compact helicon ion source for neutron generators. <i>Review of Scientific Instruments</i> , 2004 , 75, 1878-1880 | 1.7 | 17 |
| 7 | Beam emittance measurements of transformer coupled plasma ion source for focused ion beam. <i>Review of Scientific Instruments</i> , 2004 , 75, 1681-1683 | 1.7 | 6 |
| 6 | Design of a single-channel millimeter-wave interferometer system for Korea Superconducting Tokamak Advanced Research. <i>Review of Scientific Instruments</i> , 2003 , 74, 1613-1616 | 1.7 | 11 |
| 5 | Development of a radio-frequency-driven ion source of the diagnostic neutral beam for the Hanbit device. <i>Review of Scientific Instruments</i> , 2002 , 73, 1068-1070 | 1.7 | 3 |
| 4 | Newly developed double neural network concept for reliable fast plasma position control. <i>Review of Scientific Instruments</i> , 2001 , 72, 513-516 | 1.7 | 9 |
| 3 | Feasibility study of a new negative ion source using a transformer coupled plasma source. <i>Review of Scientific Instruments</i> , 2000 , 71, 943-945 | 1.7 | 3 |
| 2 | High-current ion source development for the Korea Multipurpose Accelerator Complex. <i>Review of Scientific Instruments</i> , 2000 , 71, 969-971 | 1.7 | 1 |
| 1 | Properties of dc helicity injected tokamak plasmas. <i>Physics of Fluids B</i> , 1990 , 2, 1415-1420 | | 30 |