# Noriyasu Ohno

List of Publications by Year
in descending order

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Version: 2024-02-01

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|---|---|---|---|
| 205 papers | 5,024 citations | 126907 33 h-index | 106344 65 g-index |
| 206 all docs | 206 docs citations | 206 times ranked | 1819 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Formation process of tungsten nanostructure by the exposure to helium plasma under fusion relevant plasma conditions. Nuclear Fusion, 2009, 49, 095005. | 3.5 | 494 |
| 2 | Formation of Nanostructured Tungsten with Arborescent Shape due to Helium Plasma Irradiation. Plasma and Fusion Research, 2006, 1, 051-051. | 0.7 | 375 |
| 3 | TEM observation of the growth process of helium nanobubbles on tungsten: Nanostructure formation mechanism. Journal of Nuclear Materials, 2011, 418, 152-158. | 2.7 | 226 |
| 4 | On the Acoustic Nonlinearity of Solid-Solid Contact With Pressure-Dependent Interface Stiffness. Journal of Applied Mechanics, Transactions ASME, 2004, 71, 508-515. | 2.2 | 189 |
| 5 | Static and dynamic behaviour of plasma detachment in the divertor simulator experiment NAGDIS-II. Nuclear Fusion, 2001, 41, 1055-1065. | 3.5 | 185 |
| 6 | Sub-ms laser pulse irradiation on tungsten target damaged by exposure to helium plasma. Nuclear Fusion, 2007, 47, 1358-1366. | 3.5 | 180 |
| 7 | Experimental Evidence of Molecular Activated Recombination in Detached Recombining Plasmas. Physical Review Letters, 1998, 81, 818-821. | 7.8 | 130 |
| 8 | Space-Charge Limited Current from Plasma-Facing Material Surface. Contributions To Plasma Physics, 2004, 44, 126-137. | 1.1 | 123 |
| 9 | Extension of the operational regime of the LHD towards a deuterium experiment. Nuclear Fusion, 2017, 57, 102023. | 3.5 | 116 |
| 10 | Prompt ignition of a unipolar arc on helium irradiated tungsten. Nuclear Fusion, 2009, 49, 032002. | 3.5 | 105 |
| 11 | Helium plasma implantation on metals: Nanostructure formation and visible-light photocatalytic response. Journal of Applied Physics, 2013, 113, . | 2.5 | 88 |
| 12 | Influence of crystal orientation on damages of tungsten exposed to helium plasma. Journal of Nuclear Materials, 2013, 438, S879-S882. | 2.7 | 87 |
| 13 | Helium effects on tungsten surface morphology and deuterium retention. Journal of Nuclear Materials, 2013, 442, S267-S272. | 2.7 | 83 |
| 14 | Plasma detachment in linear devices. Plasma Physics and Controlled Fusion, 2017, 59, 034007. | 2.1 | 80 |
| 15 | Nanostructured Black Metal: Novel Fabrication Method by Use of Self-Growing Helium Bubbles. Applied Physics Express, 2010, 3, 085204. | 2.4 | 77 |
| 16 | Exfoliation of the tungsten fibreform nanostructure by unipolar arcing in the LHD divertor plasma. Nuclear Fusion, 2011, 51, 102001. | 3.5 | 73 |
| 17 | Thermal response of nanostructured tungsten. Nuclear Fusion, 2014, 54, 033005. | 3.5 | 66 |
| 18 | Studies of power exhaust and divertor design for a 1.5 GW-level fusion power DEMO. Nuclear Fusion, 2017, 57, 126050. | 3.5 | 65 |

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| 19 | Enhanced growth of large-scale nanostructures with metallic ion precipitation in helium plasmas. Scientific Reports, 2018, 8, 56. | 3.3 | 60 |
| 20 | Growth of multifractal tungsten nanostructure by He bubble induced directional swelling. New Journal of Physics, 2015, 17, 043038. | 2.9 | 57 |
| 21 | In situ observation of structural change of nanostructured tungsten during annealing. Journal of Nuclear Materials, 2014, 449, 9-14. | 2.7 | 56 |
| 22 | Confinement and structure of electrostatically coupled dust clouds in a direct current plasmaâ€“sheath. Physics of Plasmas, 1998, 5, 3517-3523. | 1.9 | 48 |
| 23 | Hybrid simulation research on formation mechanism of tungsten nanostructure induced by helium plasma irradiation. Journal of Nuclear Materials, 2015, 463, 109-115. | 2.7 | 48 |
| 24 | Measurement of heat diffusion across fuzzy tungsten layer. Results in Physics, 2016, 6, 877-878. | 4.1 | 48 |
| 25 | Fuzzy nanostructure growth on Ta/Fe by He plasma irradiation. Scientific Reports, 2016, 6, 30380. | 3.3 | 47 |
| 26 | Heat flows through plasma sheaths. Physics of Plasmas, 1998, 5, 2151-2158. | 1.9 | 44 |
| 27 | Arcing on tungsten subjected to helium and transients: ignition conditions and erosion rates. Plasma Physics and Controlled Fusion, 2012, 54, 035009. | 2.1 | 44 |
| 28 | Growth annealing equilibrium of tungsten nanostructures by helium plasma irradiation in non-eroding regimes. Journal of Nuclear Materials, 2013, 440, 55-62. | 2.7 | 44 |
| 29 | Impact of arcing on carbon and tungsten: from the observations in JT-60U, LHD and NAGDIS-II. Nuclear Fusion, 2013, 53, 053013. | 3.5 | 41 |
| 30 | Surface modification of titanium using He plasma. Applied Surface Science, 2014, 303, 438-445. | 6.1 | 41 |
| 31 | Growth of nano-tendril bundles on tungsten with impurity-rich He plasmas. Nuclear Fusion, 2018, 58, 096022. | 3.5 | 40 |
| 32 | Influence of Plasma Resistance and Fluctuation on Probe Characteristics in Detached Recombining Plasmas. Contributions To Plasma Physics, 2001, 41, 473-480. | 1.1 | 37 |
| 33 | Reduction of laser power threshold for melting tungsten due to subsurface helium holes. Journal of Applied Physics, 2006, 100, 103304. | 2.5 | 37 |
| 34 | 2D Statistical Analysis of Nonâ€Ðiffusive Transport under Attached and Detached Plasma Conditions of the Linear Divertor Simulator. Contributions To Plasma Physics, 2010, 50, 256-266. | 1.1 | 34 |
| 35 | Anomaly of Langmuir Probe Characteristics in Detached Recombining Plasmas. Contributions To Plasma Physics, 1998, 38, 31-37. | 1.1 | 33 |
| 36 | Visualized Blow-off from Helium Irradiated Tungsten in Response to ELM-like Heat Load. Plasma and Fusion Research, 2009, 4, 004-004. | 0.7 | 33 |

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| 37 | Field emission property of nanostructured tungsten formed by helium plasma irradiation. Fusion Engineering and Design, 2013, 88, 2842-2847. | 1.9 | 33 |
| 38 | Comparison of Damages on Tungsten Surface Exposed to Noble Gas Plasmas. Plasma Science and Technology, 2013, 15, 282-286. | 1.5 | 33 |
| 39 | Field Emission From Metal Surfaces Irradiated With Helium Plasmas. IEEE Transactions on Plasma Science, 2017, 45, 2080-2086. | 1.3 | 33 |
| 40 | Molecular activated recombination in divertor simulation plasma on GAMMA 10/PDX. Nuclear Materials and Energy, 2017, 12, 1004-1009. | 1.3 | 32 |
| 41 | Fuzzy nanostructure growth on precious metals by He plasma irradiation. Surface and Coatings Technology, 2018, 340, 86-92. | 4.8 | 31 |
| 42 | Transition from electrostatic-to-electromagnetic mode in a radio-frequency Ar inductively coupled plasma in atmospheric pressure. Journal of Applied Physics, 2004, 95, 427-433. | 2.5 | 29 |
| 43 | Tritium retention in nanostructured tungsten with large effective surface area. Journal of Nuclear Materials, 2013, 438, S1142-S1145. | 2.7 | 29 |
| 44 | Nonlinear interactions between high heat flux plasma and electronâ€emissive hot material surface. Physics of Plasmas, 1996, 3, 281-292. | 1.9 | 28 |
| 45 | Reconstruction of Velocity Distribution of Density Bursts by Wavelet Analysis in the Linear Divertor Simulator NAGDIS-II. Contributions To Plasma Physics, 2004, 44, 222-227. | 1.1 | 28 |
| 46 | Enhancement of cross-field transport into the private region of detached-divertor in Large Helical Device. Physics of Plasmas, 2010, 17, 102509. | 1.9 | 27 |
| 47 | Transition in velocity and grouping of arc spot on different nanostructured tungsten electrodes. Results in Physics, 2014, 4, 33-39. | 4.1 | 27 |
| 48 | Erosion of nanostructured tungsten by laser ablation, sputtering and arcing. Nuclear Materials and Energy, 2017, 12, 386-391. | 1.3 | 26 |
| 49 | Deepening of Floating Potential for Tungsten Target Plate on the way to Nanostructure Formation. Plasma and Fusion Research, 2010, 5, 039-039. | 0.7 | 25 |
| 50 | Helium plasma irradiation on single crystal tungsten and undersized atom doped tungsten alloys. Physica Scripta, 2014, 89, 025602. | 2.5 | 25 |
| 51 | Visualization of Intermittent Blobby Plasma Transport in Attached and Detached Plasmas of the NAGDIS-II. Journal of Plasma and Fusion Research, 2004, 80, 275-276. | 0.4 | 24 |
| 52 | Direct observation of cathode spot grouping using nanostructured electrode. Physics Letters, Section A: General, Atomic and Solid State Physics, 2009, 373, 4273-4277. | 2.1 | 24 |
| 53 | Formation and decay processes of Ar/He microwave plasma jet at atmospheric gas pressure. Journal of Applied Physics, 2011, 110, . | 2.5 | 24 |
| 54 | Motion of unipolar arc spots ignited on a nanostructured tungsten surface. Plasma Physics and Controlled Fusion, 2011, 53, 074002. | 2.1 | 24 |

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| 55 | Fractality of self-grown nanostructured tungsten by He plasma irradiation. Physics Letters, Section A: General, Atomic and Solid State Physics, 2014, 378, 2533-2538. | 2.1 | 24 |
| 56 | Sulfur K-edge XANES for methylene blue in photocatalytic reaction over WO3 nanomaterials. Nuclear Instruments & Methods in Physics Research B, 2015, 365, 35-38. | 1.4 | 23 |
| 57 | Ignition and erosion of materials by arcing in fusionâ€relevant conditions. Contributions To Plasma Physics, 2018, 58, 608-615. | 1.1 | 23 |
| 58 | Investigation of recombination front region in detached plasmas in a linear divertor plasma simulator. Nuclear Materials and Energy, 2019, 19, 458-462. | 1.3 | 23 |
| 59 | Morphologies of co-depositing W layer formed during He plasma irradiation. Nuclear Fusion, 2018, 58, 106002. | 3.5 | 22 |
| 60 | Formation Condition of Fiberform Nanostructured Tungsten by Helium Plasma Exposure. Plasma and Fusion Research, 2010, 5, S1023-S1023. | 0.7 | 21 |
| 61 | Investigation of arcing on fiber-formed nanostructured tungsten by pulsed plasma during steady state plasma irradiation. Fusion Engineering and Design, 2016, 112, 156-161. | 1.9 | 21 |
| 62 | Fabrication of photocatalytically active vanadium oxide nanostructures via plasma route. Journal Physics D: Applied Physics, 2018, 51, 215201. | 2.8 | 20 |
| 63 | Behavior of 23S metastable state He atoms in low-temperature recombining plasmas. Physics of Plasmas, 2017, 24, 073301. | 1.9 | 19 |
| 64 | Helium line emission spectroscopy in recombining detached plasmas. Physics of Plasmas, 2018, 25, 063303. | 1.9 | 18 |
| 65 | Localized spiraling plasma ejection contributing the ion-flux broadening in the detached linear plasma. Plasma Physics and Controlled Fusion, 2018, 60, 075013. | 2.1 | 18 |
| 66 | Accelerated/reduced growth of tungsten fuzz by deposition of metals. Journal of Nuclear Materials, 2021, 548, 152844. | 2.7 | 18 |
| 67 | Suppression of secondary electron emission from the material surfaces with grazing incident magnetic field in the plasma. Physics of Plasmas, 1996, 3, 4310-4312. | 1.9 | 17 |
| 68 | Statistical Analysis of the Spatial Behavior of Plasma Blobs Around the Plasma Column in a Linear Plasma Device. Contributions To Plasma Physics, 2012, 52, 424-428. | 1.1 | 17 |
| 69 | Fractality and growth of He bubbles in metals. Physics Letters, Section A: General, Atomic and Solid State Physics, 2017, 381, 2355-2362. | 2.1 | 17 |
| 70 | Field Emission From Nanostructured Tendril Bundles. IEEE Transactions on Plasma Science, 2019, 47, 5186-5190. | 1.3 | 17 |
| 71 | Numerical Simulation Study on Density Dependence of Plasma Detachment in Simulated Gas Divertor Experiments of The TPDâ€ Device. Contributions To Plasma Physics, 1996, 36, 339-343. | 1.1 | 15 |
| 72 | Power Transmission Factor for Tungsten Target w/wo Fiber-Form Nanostructure in He Plasmas with Hot Electron Component Using Compact Plasma Device AIT-PID. Fusion Science and Technology, 2013, 63, 225-228. | 1.1 | 15 |

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| 73 | A plasma source driven predator-prey like mechanism as a potential cause of spiraling intermittencies in linear plasma devices. Physics of Plasmas, 2014, 21, 032302. | 1.9 | 15 |
| 74 | Helium-plasmaâ€“induced straight nanofiber growth on HCP metals. Acta Materialia, 2019, 181, 342-351. | 7.9 | 15 |
| 75 | Tungsten fuzz: Deposition effects and influence to fusion devices. Nuclear Materials and Energy, 2020, 25, 100828. | 1.3 | 15 |
| 76 | Particle in Cell Simulation on Thermoelectron Emission from Hot Target Plate. Contributions To Plasma Physics, 1996, 36, 386-390. | 1.1 | 14 |
| 77 | Self-Affine Fractality of Bifurcating Arc Trail in Magnetized Plasma. Journal of the Physical Society of Japan, 2010, 79, 054501. | 1.6 | 14 |
| 78 | Influence of heavier impurity deposition on surface morphology development and sputtering behavior explored in multiple linear plasma devices. Nuclear Materials and Energy, 2019, 18, 67-71. | 1.3 | 14 |
| 79 | Proposal of Modified Child-Langmuir Formula describing Space-Charge Limited Current in Plasma. Contributions To Plasma Physics, 2004, 44, 144-149. | 1.1 | 13 |
| 80 | Ray tracing simulation for radiation trapping of the He I resonance transitions in a linear plasma device. Physics of Plasmas, 2009, 16, . | 1.9 | 13 |
| 81 | Flattening-induced electronic changes in zigzag single- and multi-walled boron nitride nanotubes: A first-principles DFT study. Physical Review B, 2009, 80, . | 3.2 | 12 |
| 82 | 2D Measurement of Edge Plasma Dynamics by Using Highâ€Speed Camera Based on HeI Line Intensity Ratio Method. Contributions To Plasma Physics, 2010, 50, 962-969. | 1.1 | 12 |
| 83 | Application of Nanostructured Tungsten Fabricated by Helium Plasma Irradiation for Photoinduced Decolorization of Methylene Blue. E-Journal of Surface Science and Nanotechnology, 2014, 12, 343-348. | 0.4 | 12 |
| 84 | Development of Nanostructured Black Metal by Self-Growing Helium Bubbles for Optical Application. Japanese Journal of Applied Physics, 2011, 50, 08JG01. | 1.5 | 11 |
| 85 | Spectroscopic Study and Motion Analysis of Arc Spot Initiated on Nanostructured Tungsten. Japanese Journal of Applied Physics, 2013, 52, 11NC02. | 1.5 | 11 |
| 86 | Photon Trapping Effects in DEMO Divertor Plasma. Contributions To Plasma Physics, 2016, 56, 657-662. | 1.1 | 11 |
| 87 | Oneâ€Step Plasma Synthesis of Nb<sub>2</sub>O<sub>5</sub> Nanofibers and their Enhanced Photocatalytic activity. ChemPhysChem, 2018, 19, 3237-3246. | 2.1 | 11 |
| 88 | Effect of the Nanostructured Layer Thickness on the Dynamics of Cathode Spots on Tungsten. IEEE Transactions on Plasma Science, 2018, 46, 4044-4050. | 1.3 | 11 |
| 89 | Behavior of Plasma Response Field in Detached Plasma. Plasma and Fusion Research, 2013, 8, 1402058-1402058. | 0.7 | 11 |
| 90 | Increase in the work function of W/WO<sub>3</sub>by helium plasma irradiation. Japanese Journal of Applied Physics, 2015, 54, 126201. | 1.5 | 10 |

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| 91 | Transverse motion of a plasma column in a sheet plasma. Contributions To Plasma Physics, 2017, 57, 87-93. | 1.1 | 10 |
| 92 | Fabrication of a nanostructured TiO<sub>2</sub> photocatalyst using He plasma-irradiated tungsten and ethylene gas decomposition. Japanese Journal of Applied Physics, 2019, 58, SEEG01. | 1.5 | 10 |
| 93 | Detached helium plasma simulation by a one-dimensional fluid code with detailed collisional-radiative model. Physics of Plasmas, 2020, 27, 102505. | 1.9 | 10 |
| 94 | Photoelectrochemical properties of plasma-induced nanostructured tungsten oxide. Applied Surface Science, 2022, 580, 151979. | 6.1 | 10 |
| 95 | Title is missing!. Journal of Materials Science, 2001, 36, 5169-5175. | 3.7 | 9 |
| 96 | Ignition and Behavior of Arc Spots on Helium Irradiated Tungsten Under Fusion Relevant Condition. IEEE Transactions on Plasma Science, 2019, 47, 3609-3616. | 1.3 | 9 |
| 97 | Ignition and Sustainment of Arcing on Nanostructured Tungsten Under Plasma Exposure. IEEE Transactions on Plasma Science, 2019, 47, 3617-3625. | 1.3 | 9 |
| 98 | Spatiotemporal dynamics of cross-field ejection events in recombining detached plasma. Plasma Physics and Controlled Fusion, 2020, 62, 075011. | 2.1 | 9 |
| 99 | Enhanced photocatalytic ethylene decomposition with anatase-rutile mixed nanostructures formed by He plasma treatment. Journal of Photochemistry and Photobiology A: Chemistry, 2021, 418, 113420. | 3.9 | 9 |
| 100 | Numerical Simulation on Structure of Detached Helium Plasmas with Hydrogen and Helium Gas Puff in NAGDISâ€¦. Contributions To Plasma Physics, 1998, 38, 55-60. | 1.1 | 8 |
| 101 | 2-D PIC Simulation on Space-Charge Limited Emission Current from Plasma-Facing Components. Contributions To Plasma Physics, 2000, 40, 478-483. | 1.1 | 8 |
| 102 | Development of a Compact Divertor Plasma Simulator for Plasma-Wall Interaction Studies on Neutron-Irradiated Materials. Plasma and Fusion Research, 2017, 12, 1405040-1405040. | 0.7 | 8 |
| 103 | Localized Density Fluctuation in the Downstream of Detached Plasma. Plasma and Fusion Research, 2017, 12, 1202007-1202007. | 0.7 | 8 |
| 104 | Study of Plasma Current Decay in the Initial Phase of High Poloidal Beta Disruptions in JT-60U. Plasma and Fusion Research, 2011, 6, 1302136-1302136. | 0.7 | 8 |
| 105 | Observation of Arc Spots Initiated on Nanostructured Tungsten. IEEE Transactions on Plasma Science, 2013, 41, 1889-1895. | 1.3 | 7 |
| 106 | Enhancement of photocatalytic activity of TiO<sub>2</sub> by plasma irradiation. Japanese Journal of Applied Physics, 2016, 55, 106202. | 1.5 | 7 |
| 107 | Photocatalytic decomposition of ethylene using He plasma induced nano-TiO<sub>2</sub>. Japanese Journal of Applied Physics, 2019, 58, 070903. | 1.5 | 7 |
| 108 | Spatial and temporal measurement of recombining detached plasmas by laser Thomson scattering. Plasma Sources Science and Technology, 2019, 28, 105015. | 3.1 | 7 |

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| 109 | The influence of impurities on the formation of nanocone structures on silicon surface irradiated by low energy helium plasma. Journal of Applied Physics, 2020, 128, . | 2.5 | 7 |
| 110 | Application of dynamic mode decomposition to rotating structures in detached linear plasmas. Physics of Plasmas, 2020, 27, . | 1.9 | 7 |
| 111 | Fabrication of nanostructured Ti thin film with Ti deposition in He plasmas. Japanese Journal of Applied Physics, 2021, 60, 038004. | 1.5 | 7 |
| 112 | Computer Tomography on Divertor Impurity Monitor for ITER with Minimizing Errors in a Logarithmic Scale. Plasma and Fusion Research, 2021, 16, 2405019-2405019. | 0.7 | 7 |
| 113 | Unipolar arc plasmas on nanostructured tungsten surfaces under perpendicular magnetic field. Plasma Sources Science and Technology, 2020, 29, 125015. | 3.1 | 7 |
| 114 | Development of steady/transient dual plasma irradiation device using a plasma gun. Journal of Nuclear Materials, 2013, 438, S707-S710. | 2.7 | 6 |
| 115 | Tailoring of fuzzy nanostructures on porous tungsten skeleton by helium plasma irradiation. Japanese Journal of Applied Physics, 2017, 56, 030303. | 1.5 | 6 |
| 116 | Pulsation Effects of Incident Ion Energy on W Fuzz Growth. Plasma and Fusion Research, 2018, 13, 1205001-1205001. | 0.7 | 6 |
| 117 | Thomson Scattering Measurement of Two Electron Temperature Components in Transition to Detached Plasmas. Plasma and Fusion Research, 2018, 13, 1201099-1201099. | 0.7 | 6 |
| 118 | Helium-W co-deposition layer: TEM observation and D retention. Journal of Nuclear Materials, 2020, 540, 152350. | 2.7 | 6 |
| 119 | The dependence of Mo ratio on the formation of uniform black silicon by helium plasma irradiation. Journal Physics D: Applied Physics, 2021, 54, 405202. | 2.8 | 6 |
| 120 | Blob/Hole Generation in the Divertor Leg of the Large Helical Device. Plasma and Fusion Research, 2012, 7, 1402152-1402152. | 0.7 | 6 |
| 121 | Changes in morphology and field emission property of nano-tendril bundles after high temperature annealing. Nuclear Materials and Energy, 2022, 31, 101178. | 1.3 | 6 |
| 122 | Recent Results in Divertor Plasma Simulators. Journal of Plasma and Fusion Research, 2004, 80, 212-216. | 0.4 | 5 |
| 123 | Influence of expanding and contracting magnetic field configurations on detached plasma formation in a linear plasma device. Physics of Plasmas, 2017, 24, . | 1.9 | 5 |
| 124 | Development of Thomson Scattering Measurement System for Upstream Plasmas in the NAGDIS-II Device. Plasma and Fusion Research, 2019, 14, 2405031-2405031. | 0.7 | 5 |
| 125 | Doubleâ€probe measurement in recombining plasma using NAGDISâ€II. Contributions To Plasma Physics, 2019, 59, e201800088. | 1.1 | 5 |
| 126 | Multipoint measurements employing a microwave interferometer and a Langmuir probe in the detached linear plasma. AIP Advances, 2019, 9, 015016. | 1.3 | 5 |

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| 127 | Photocatalytic application of helium plasma induced nanostructured tungsten oxides. Japanese Journal of Applied Physics, 2020, 59, SAAB04. | 1.5 | 5 |
| 128 | Effect of temperature and incident ion energy on nanostructure formation on silicon exposed to helium plasma. Plasma Processes and Polymers, 2020, 17, 2000126. | 3.0 | 5 |
| 129 | Inspection of Arc Trails Formed in Stellarator/Heliotron Devices W7-X and LHD. Plasma and Fusion Research, 2020, 15, 2402012-2402012. | 0.7 | 5 |
| 130 | Microstructure and Retention in He-W Co-Deposition Layer. Plasma and Fusion Research, 2020, 15, 1201004-1201004. | 0.7 | 5 |
| 131 | Nano-tendril bundles behavior under plasma-relevant electric fields. Vacuum, 2021, 183, 109799. | 3.5 | 5 |
| 132 | Enhancement of Arc Ignition on Tungsten in Helium Plasmas with Impurity Gases. Plasma and Fusion Research, 2021, 16, 2405069-2405069. | 0.7 | 5 |
| 133 | Fluid Mechanical Characteristics of Microwave Discharge Jet Plasmas at Atmospheric Gas Pressure. IEEJ Transactions on Fundamentals and Materials, 2010, 130, 493-500. | 0.2 | 5 |
| 134 | Application of Ion Sensitive Probe to High Density Plasmas in Magnum-PSI. Plasma and Fusion Research, 2019, 14, 1202135-1202135. | 0.7 | 5 |
| 135 | Thin film and noble metal loading effects on the photocatalytic reactivity of helium-plasma-induced nanostructured tungsten oxides. Materials Research Express, 2020, 7, 075007. | 1.6 | 5 |
| 136 | Enhancement of Plasma Heat Flow to the Conductive Divertor Plate Associated with Crossâ€Field Potential Variation and Thermoelectron Emission. Contributions To Plasma Physics, 1998, 38, 349-354. | 1.1 | 4 |
| 137 | Low-energy helium irradiation on in-vessel mirror materials. Journal of Nuclear Materials, 2013, 442, S515-S519. | 2.7 | 4 |
| 138 | Strong Reduction of Ion Flux to a Target Plate in a Magnetically Contracting Detached Plasma. Plasma and Fusion Research, 2016, 11, 1202005-1202005. | 0.7 | 4 |
| 139 | Statistical Analysis of Particle Flux Flowing into the Endâ€Target in between Attached and Detached States in the Linear Divertor Plasma Simulator NAGDISâ€II. Contributions To Plasma Physics, 2016, 56, 723-728. | 1.1 | 4 |
| 140 | Measurement of He neutral temperature in detached plasmas using laser absorption spectroscopy. AIP Advances, 2018, 8, . | 1.3 | 4 |
| 141 | Blob- and hole-like structures outstanding during the transition from attached to detached divertor states in GAMMA 10/PDX. Physics of Plasmas, 2018, 25, 082505. | 1.9 | 4 |
| 142 | Influence of Nitrogen Ratio on Plasma Detachment during Combined Seeding with Hydrogen on Divertor Simulation Experiment of GAMMA 10/PDX. Plasma and Fusion Research, 2021, 16, 2402041-2402041. | 0.7 | 4 |
| 143 | Measurement of the Bidirectional Reflectance Distribution Function of Tungsten Surface Sputtered in Argon Plasma. Plasma and Fusion Research, 2022, 17, 2405041-2405041. | 0.7 | 4 |
| 144 | Simulation and experiment on detached plasmas in the linear divertor simulator NAGDIS-II. European Physical Journal D, 1998, 48, 127-136. | 0.4 | 3 |

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| 145 | Analysis of Detached Recombining Plasmas by Collisional-Radiative Model with Energetic Electron Component. Contributions To Plasma Physics, 2002, 42, 419-424. | 1.1 | 3 |
| 146 | Influence of Plasma-Neutral Collisions on Probe Measurements in Atmospheric Pressure Plasmas. Contributions To Plasma Physics, 2014, 54, 304-307. | 1.1 | 3 |
| 147 | Current Activities in the Interactive Joint Research at Tohoku University - Advanced Evaluation of Radiation Effects on Fusion Materials -. Plasma and Fusion Research, 2014, 9, 3405136-3405136. | 0.7 | 3 |
| 148 | Mode Structure Analysis of Detached Plasmas with 2D Images. Plasma and Fusion Research, 2018, 13, 1402033-1402033. | 0.7 | 3 |
| 149 | Generation of Spiral Shape Nitrogen Recombining Plasma for Atomic Nitrogen Source. Plasma and Fusion Research, 2019, 14, 3401069-3401069. | 0.7 | 3 |
| 150 | Dust Formation from Arc Spots on Nanostructured Tungsten Surface. Plasma and Fusion Research, 2020, 15, 1205061-1205061. | 0.7 | 3 |
| 151 | Dynamics of Hydrogen Isotope Absorption and Emission of Neutron-Irradiated Tungsten. Plasma and Fusion Research, 2020, 15, 1505081-1505081. | 0.7 | 3 |
| 152 | Particle simulation on multiple dust layers of Coulomb cloud in cathode sheath edge. European Physical Journal D, 1998, 48, 239-244. | 0.4 | 2 |
| 153 | Intermittent Structures in the High Field Side Boundary of the HYBTOK-II Tokamak. European Physical Journal D, 2003, 53, 863-868. | 0.4 | 2 |
| 154 | Formation and mitigation of fiberform nanostructured tungsten by helium and sub-ms laser pulse irradiations. Plasma Devices and Operations, 2009, 17, 165-173. | 0.6 | 2 |
| 155 | Conditions for the Release of a Metallic Dust Particle from a Plasma-Facing Wall. Contributions To Plasma Physics, 2012, 52, 478-483. | 1.1 | 2 |
| 156 | Effect of resistivity profile on current decay time of initial phase of current quench in neon-gas-puff inducing disruptions of JT-60U. Physics of Plasmas, 2013, 20, 112507. | 1.9 | 2 |
| 157 | Morphology and Optical Property Changes of Nanostructured Tungsten in LHD. Plasma and Fusion Research, 2015, 10, 1402083-1402083. | 0.7 | 2 |
| 158 | Modeling of Linear Divertor Plasma Simulator Experiments with Threeâ€dimensional Target Structure by Using EMC3â€EIRENE Code. Contributions To Plasma Physics, 2016, 56, 598-603. | 1.1 | 2 |
| 159 | Vacuum breakdown from nanostructured fuzzy surfaces. , 2016, , . | | 2 |
| 160 | Detailed Analysis of Plasma Resistivity in Detached Recombining Plasmas. Contributions To Plasma Physics, 2016, 56, 717-722. | 1.1 | 2 |
| 161 | Size distribution of nano-tendril bundles with various additional impurity gases. Nuclear Materials and Energy, 2020, 25, 100843. | 1.3 | 2 |
| 162 | Modeling of the impurity-induced silicon nanocone growth by low energy helium plasma irradiation. Plasma Science and Technology, 2021, 23, 045503. | 1.5 | 2 |

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| 163 | Tungsten Large-Scale Fiberform Nanostructures Retained under High Temperature Conditions. Plasma and Fusion Research, 2021, 16, 1206001-1206001. | 0.7 | 2 |
| 164 | Fluctuation Characteristics in Detached Recombining Plasmas.. Journal of Plasma and Fusion Research, 2002, 78, 1093-1101. | 0.4 | 2 |
| 165 | Thermionic Energy Converter System Using Heat Flux in Divertor Region. Plasma and Fusion Research, 2012, 7, 1405050-1405050. | 0.7 | 2 |
| 166 | Fatal Damages due to Breakdown on a Diagnostic Mirror Located outside the Vacuum Vessel in JT-60U. Plasma and Fusion Research, 2012, 7, 2405121-2405121. | 0.7 | 2 |
| 167 | Nanostructure Growth on Rhodium/Ruthenium by the Exposure to He Plasma. Plasma and Fusion Research, 2018, 13, 3406065-3406065. | 0.7 | 2 |
| 168 | Spatiotemporal Structure of HÎ± Emission from the Detached Plasma in GAMMA 10/PDX. Plasma and Fusion Research, 2019, 14, 2402036-2402036. | 0.7 | 2 |
| 169 | Growth of Mo Large-Scale Fiberform Nanostructures. Plasma and Fusion Research, 2021, 16, 1206105-1206105. | 0.7 | 2 |
| 170 | Prospect on the Atomic and Molecular Processes in Plasmas 5. Recent Topics in Experiments 5.1 Molecular Activated Recombination Processes in Divertor Plasmas. Journal of Plasma and Fusion Research, 1999, 75, 1162-1168. | 0.4 | 1 |
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