# Wolfgang Biel

List of Publications by Year
in descending order



| 147 | 3,574 | 159585 | 161849 |
|---|---|---|---|
| papers | citations | 30 h-index | 54 g-index |

| 149 | 149 | 149 | 2512 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | European DEMO design strategy and consequences for materials. Nuclear Fusion, 2017, 57, 092002. | 3.5 | 233 |
| 2 | DEMO design activity in Europe: Progress and updates. Fusion Engineering and Design, 2018, 136, 729-741. | 1.9 | 224 |
| 3 | Overview of the design approach and prioritization of R&D activities towards an EU DEMO. Fusion Engineering and Design, 2016, 109-111, 1464-1474. | 1.9 | 178 |
| 4 | Overview of first Wendelstein 7-X high-performance operation. Nuclear Fusion, 2019, 59, 112004. | 3.5 | 165 |
| 5 | Overview of the DEMO staged design approach in Europe. Nuclear Fusion, 2019, 59, 066013. | 3.5 | 156 |
| 6 | Major results from the first plasma campaign of the Wendelstein 7-X stellarator. Nuclear Fusion, 2017, 57, 102020. | 3.5 | 128 |
| 7 | Magnetic configuration effects on the Wendelstein 7-X stellarator. Nature Physics, 2018, 14, 855-860. | 16.7 | 110 |
| 8 | Dust particles in controlled fusion devices: morphology, observations in the plasma and influence on the plasma performance. Nuclear Fusion, 2001, 41, 1087-1099. | 3.5 | 96 |
| 9 | Confirmation of the topology of the Wendelstein 7-X magnetic field to better than 1:100,000. Nature Communications, 2016, 7, 13493. | 12.8 | 85 |
| 10 | The physics and technology basis entering European system code studies for DEMO. Nuclear Fusion, 2017, 57, 016011. | 3.5 | 84 |
| 11 | Technical challenges in the construction of the steady-state stellarator Wendelstein 7-X. Nuclear Fusion, 2013, 53, 126001. | 3.5 | 77 |
| 12 | Toroidal Plasma Rotation Induced by the Dynamic Ergodic Divertor in the TEXTOR Tokamak. Physical Review Letters, 2005, 94, 015003. | 7.8 | 73 |
| 13 | Diagnostics for plasma control â€“ From ITER to DEMO. Fusion Engineering and Design, 2019, 146, 465-472. | 1.9 | 71 |
| 14 | Overview of radiative improved mode results on TEXTOR-94. Nuclear Fusion, 1999, 39, 1637-1648. | 3.5 | 69 |
| 15 | The DEMO wall load challenge. Nuclear Fusion, 2017, 57, 046002. | 3.5 | 65 |
| 16 | Development of laser-based diagnostics for surface characterisation of wall components in fusion devices. Fusion Engineering and Design, 2011, 86, 1336-1340. | 1.9 | 64 |
| 17 | Effect of the dynamic ergodic divertor in the TEXTOR tokamak on MHD stability, plasma rotation and transport. Nuclear Fusion, 2005, 45, 1700-1707. | 3.5 | 58 |
| 18 | Density limits in TEXTOR-94 auxiliary heated discharges. Nuclear Fusion, 1999, 39, 765-776. | 3.5 | 56 |

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| 19 | Complex Spectra in Fusion Plasmas. Physica Scripta, 2005, T120, 19-29. | 2.5 | 48 |
| 20 | Overview of diagnostic performance and results for the first operation phase in Wendelstein 7-X (invited). Review of Scientific Instruments, 2016, 87, 11D304. | 1.3 | 45 |
| 21 | Diagnostics and control for the steady state and pulsed tokamak DEMO. Nuclear Fusion, 2016, 56, 026009. | 3.5 | 45 |
| 22 | Operation of TEXTOR-94 with tungsten poloidal main limiters. Journal of Nuclear Materials, 2001, 290-293, 947-952. | 2.7 | 42 |
| 23 | A stepladder approach to a tokamak fusion power plant. Nuclear Fusion, 2017, 57, 086002. | 3.5 | 42 |
| 24 | DEMO physics challenges beyond ITER. Fusion Engineering and Design, 2020, 156, 111603. | 1.9 | 40 |
| 25 | The Set of Diagnostics for the First Operation Campaign of the Wendelstein 7-X Stellarator. Journal of Instrumentation, 2015, 10, P10002-P10002. | 1.2 | 37 |
| 26 | DEMO diagnostics and burn control. Fusion Engineering and Design, 2015, 96-97, 8-15. | 1.9 | 35 |
| 27 | The dynamic ergodic divertor in the TEXTOR tokamak: plasma response to dynamic helical magnetic field perturbations. Plasma Physics and Controlled Fusion, 2004, 46, B143-B155. | 2.1 | 34 |
| 28 | X-Ray Spectroscopy at the TEXTOR-94 Tokamak. Physica Scripta, 1999, T83, 132. | 2.5 | 34 |
| 29 | Design of a highâ€“efficiency extreme ultraviolet overview spectrometer system for plasma impurity studies on the stellarator experiment Wendelstein 7-X. Review of Scientific Instruments, 2004, 75, 3268-3275. | 1.3 | 32 |
| 30 | Transport and divertor properties of the dynamic ergodic divertor. Plasma Physics and Controlled Fusion, 2005, 47, B237-B248. | 2.1 | 32 |
| 31 | Collisional excitation and emission ofHÎ±Stark multiplet in fusion plasmas. Journal of Physics B: Atomic, Molecular and Optical Physics, 2010, 43, 011002. | 1.5 | 31 |
| 32 | 10kHz repetitive high-resolution TV Thomson scattering on TEXTOR: Design and performance (invited). Review of Scientific Instruments, 2006, 77, 10E512. | 1.3 | 28 |
| 33 | Development of in situ cleaning techniques for diagnostic mirrors in ITER. Fusion Engineering and Design, 2011, 86, 1780-1783. | 1.9 | 28 |
| 34 | First results from the dynamic ergodic divertor at TEXTOR. Journal of Nuclear Materials, 2005, 337-339, 171-175. | 2.7 | 25 |
| 35 | Influence of the Dynamic Ergodic Divertor on the Density Limit in TEXTOR. Physical Review Letters, 2005, 94, 105003. | 7.8 | 24 |
| 36 | Overview on R&D and design activities for the ITER core charge exchange spectroscopy diagnostic system. Fusion Engineering and Design, 2011, 86, 548-551. | 1.9 | 24 |

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| 37 | Initial definition of structural load conditions in DEMO. Fusion Engineering and Design, 2017, 124, 633-637. | 1.9 | 21 |
| 38 | Operational limits under different wall conditions on TEXTOR-94. Journal of Nuclear Materials, 2001, 290-293, 1148-1154. | 2.7 | 20 |
| 39 | Development of a multichannel dispersion interferometer at TEXTOR. Review of Scientific Instruments, 2008, 79, 10E708. | 1.3 | 20 |
| 40 | First results from the modular multi-channel dispersion interferometer at the TEXTOR tokamak. Review of Scientific Instruments, 2011, 82, 063509. | 1.3 | 20 |
| 41 | Progress in EU-DEMO in-vessel components integration. Fusion Engineering and Design, 2017, 124, 562-566. | 1.9 | 20 |
| 42 | High-resolution x-ray crystal spectrometer/polarimeter at torus experiment for technology oriented research-94. Review of Scientific Instruments, 2001, 72, 2566-2574. | 1.3 | 19 |
| 43 | Compact imaging Bragg spectrometer for fusion devices. Review of Scientific Instruments, 2004, 75, 3727-3729. | 1.3 | 19 |
| 44 | Overview of Experiments with the Dynamic Ergodic Divertor on TEXTOR. Contributions To Plasma Physics, 2006, 46, 515-526. | 1.1 | 19 |
| 45 | Dust investigations in TEXTOR: Impact of dust on plasmaâ€“wall interactions and on plasma performance. Journal of Nuclear Materials, 2013, 438, S126-S132. | 2.7 | 19 |
| 46 | Diagnostic set-up and modelling for investigation of synergy between 3D edge physics and plasma-wall interactions on Wendelstein 7-X. Nuclear Fusion, 2017, 57, 066049. | 3.5 | 18 |
| 47 | Impact of plasma-wall interaction and exhaust on the EU-DEMO design. Nuclear Materials and Energy, 2021, 26, 100897. | 1.3 | 18 |
| 48 | Determination of atomic and molecular particle densities and temperatures in a low-pressure hydrogen hollow cathode discharge. Plasma Physics and Controlled Fusion, 1997, 39, 661-681. | 2.1 | 17 |
| 49 | Absolute intensity calibration of the Wendelstein 7-X high efficiency extreme ultraviolet overview spectrometer system. Review of Scientific Instruments, 2008, 79, 093504. | 1.3 | 17 |
| 50 | Review of atomic data needs for active charge-exchange spectroscopy on ITER. Review of Scientific Instruments, 2008, 79, 10F532. | 1.3 | 17 |
| 51 | Diagnostic setup for investigation of plasma wall interactions at Wendelstein 7-X. Fusion Engineering and Design, 2015, 96-97, 891-894. | 1.9 | 17 |
| 52 | Comparison of impurity transport model with measurements of He-like spectra of argon at the tokamak TEXTOR. Plasma Physics and Controlled Fusion, 2006, 48, 1633-1646. | 2.1 | 16 |
| 53 | High efficiency extreme ultraviolet overview spectrometer: Construction and laboratory testing. Review of Scientific Instruments, 2006, 77, 10F305. | 1.3 | 16 |
| 54 | Active beam spectroscopy for ITER. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2010, 623, 720-725. | 1.6 | 16 |

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| 55 | Uncertainties in power plant design point evaluations. Fusion Engineering and Design, 2017, 123, 63-66. | 1.9 | 16 |
| 56 | Development of a concept and basis for the DEMO diagnostic and control system. Fusion Engineering and Design, 2022, 179, 113122. | 1.9 | 16 |
| 57 | Diagnostics design for steady-state operation of the Wendelstein 7-X stellarator. Review of Scientific Instruments, 2010, 81, 10E133. | 1.3 | 15 |
| 58 | Electromagnetic modeling and subsequent structural analysis for ITER core CXRS upper port plug diagnostic structure. Fusion Engineering and Design, 2011, 86, 2016-2020. | 1.9 | 15 |
| 59 | Development of design options for the port plug components of the ITER core CXRS diagnostic. Fusion Engineering and Design, 2011, 86, 2055-2059. | 1.9 | 15 |
| 60 | Startup impurity diagnostics in Wendelstein 7-X stellarator in the first operational phase. Journal of Instrumentation, 2015, 10, P10015-P10015. | 1.2 | 15 |
| 61 | Approaches to Analyze Structural Issues of the European DEMO Toroidal Field Coil System at an Early Design Stage. IEEE Transactions on Applied Superconductivity, 2016, 26, 1-5. | 1.7 | 15 |
| 62 | 10â€‚kHz repetitive high-resolution TV Thomson scattering on TEXTOR. Review of Scientific Instruments, 2004, 75, 3849-3851. | 1.3 | 14 |
| 63 | Overview of Core Diagnostics for TEXTOR. Fusion Science and Technology, 2005, 47, 220-245. | 1.1 | 14 |
| 64 | Bolometer developments in diagnostics for magnetic confinement fusion. Journal of Instrumentation, 2019, 14, C10004-C10004. | 1.2 | 14 |
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| 66 | Status of the DNB based ITER CXRS and BES diagnostic. Review of Scientific Instruments, 2006, 77, 10F516. | 1.3 | 13 |
| 67 | Validation of the ITER CXRS design by tests on TEXTOR. Review of Scientific Instruments, 2008, 79, 10F526. | 1.3 | 13 |
| 68 | Structural Analysis of a Prototype Fast Shutter for ITER cCXRS Diagnostic. IEEE Transactions on Plasma Science, 2012, 40, 746-752. | 1.3 | 13 |
| 69 | Test of prototype ITER vacuum ultraviolet spectrometer and its application to impurity study in KSTAR plasmas. Review of Scientific Instruments, 2014, 85, 11E403. | 1.3 | 13 |
| 70 | Integration Concept of the Reflectometry Diagnostic for the Main Plasma in DEMO. IEEE Transactions on Plasma Science, 2018, 46, 451-457. | 1.3 | 13 |
| 71 | Detector system with high time resolution for the continuous measurement of spectra in the vacuum ultraviolet wavelength range. Review of Scientific Instruments, 2004, 75, 2471-2474. | 1.3 | 12 |
| 72 | Vacuum Ultraviolet Spectroscopy at TEXTOR. Fusion Science and Technology, 2005, 47, 246-252. | 1.1 | 11 |

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| 73 | Method to obtain absolute impurity density profiles combining charge exchange and beam emission spectroscopy without absolute intensity calibration. Review of Scientific Instruments, 2012, 83, 10D519. | 1.3 | 11 |
| 74 | Active Beam Spectroscopy. AIP Conference Proceedings, 2008, , . | 0.4 | 10 |
| 75 | Transport of argon and iron during a resonant magnetic perturbation at TEXTOR-DED. Plasma Physics and Controlled Fusion, 2009, 51, 032001. | 2.1 | 10 |
| 76 | Conceptual design of the ITER upper port plug for charge exchange diagnostic. Fusion Engineering and Design, 2009, 84, 1671-1675. | 1.9 | 10 |
| 77 | Development of two-channel prototype ITER vacuum ultraviolet spectrometer with back-illuminated charge-coupled device and microchannel plate detectors. Review of Scientific Instruments, 2010, 81, 10E508. | 1.3 | 10 |
| 78 | Comparison of effective rate coefficients for high energy charge-exchange with measurements of the Rydberg series of Ar16+at the tokamak TEXTOR. Journal of Physics B: Atomic, Molecular and Optical Physics, 2015, 48, 144033. | 1.5 | 10 |
| 79 | Studies of protection and recovery techniques of diagnostic mirrors for ITER. Nuclear Fusion, 2015, 55, 093015. | 3.5 | 10 |
| 80 | Kinetics of highly excited states in Ar17+charge exchange recombination fusion plasma spectroscopy. Journal of Physics B: Atomic, Molecular and Optical Physics, 2009, 42, 165701. | 1.5 | 9 |
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| 83 | Status of the R&D activities to the design of an ITER core CXRS diagnostic system. Fusion Engineering and Design, 2015, 96-97, 129-135. | 1.9 | 9 |
| 84 | Nuclear and thermal analysis of a multi-reflectometer system for DEMO. Fusion Engineering and Design, 2021, 167, 112349. | 1.9 | 9 |
| 85 | Dealing with uncertainties in fusion power plant conceptual development. Nuclear Fusion, 2017, 57, 046024. | 3.5 | 8 |
| 86 | Systems code studies on the optimization of design parameters for a pulsed DEMO tokamak reactor. Fusion Engineering and Design, 2017, 123, 206-211. | 1.9 | 8 |
| 87 | Mechanical pre-dimensioning and pre-optimization of the tokamaksâ€™ toroidal coils featuring the winding pack layout. Fusion Engineering and Design, 2017, 124, 77-81. | 1.9 | 8 |
| 88 | Conceptual studies on spectroscopy and radiation diagnostic systems for plasma control on DEMO. Fusion Engineering and Design, 2019, 146, 2297-2301. | 1.9 | 8 |
| 89 | Simulation of magnetic control of the plasma shape on the DEMO tokamak. Fusion Engineering and Design, 2019, 146, 728-731. | 1.9 | 8 |
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| 91 | Impact of the plasma operation on the technical requirements in EU-DEMO. Fusion Engineering and Design, 2022, 179, 113123. | 1.9 | 8 |
| 92 | Dynamic structural analysis of a fast shutter with a pneumatic actuator. Fusion Engineering and Design, 2013, 88, 2133-2137. | 1.9 | 7 |
| 93 | Status of the diagnostics development for the first operation phase of the stellarator Wendelstein 7-X. Review of Scientific Instruments, 2014, 85, 11D818. | 1.3 | 7 |
| 94 | Investigations of the first-wall erosion of DEMO with the CELLSOR code. Nuclear Materials and Energy, 2017, 12, 1163-1170. | 1.3 | 7 |
| 95 | Heating & current drive efficiencies, TBR and RAMI considerations for DEMO. Fusion Engineering and Design, 2017, 123, 495-499. | 1.9 | 7 |
| 96 | Design of ITER divertor VUV spectrometer and prototype test at KSTAR tokamak. European Physical Journal D, 2017, 71, 1. | 1.3 | 7 |
| 97 | Pre-conceptual study of the European DEMO neutron diagnostics. Journal of Instrumentation, 2019, 14, C09001-C09001. | 1.2 | 7 |
| 98 | Impurity release and recycling behaviour in TEXTOR-94 with siliconised walls. Journal of Nuclear Materials, 2001, 290-293, 1190-1194. | 2.7 | 6 |
| 99 | High-throughput EUV reflectometer for EUV mask blanks. , 2004, , . | | 6 |
| 100 | A non-statistical atomic model for beam emission and motional Stark effect diagnostics in fusion plasmas. Review of Scientific Instruments, 2012, 83, 10D504. | 1.3 | 6 |
| 101 | Approaches to multifield numerical analysis for components of the ITER core CXRS upper port plug diagnostics. Fusion Engineering and Design, 2013, 88, 2015-2020. | 1.9 | 6 |
| 102 | Fast shutter concepts for the new ITER core CXRS upper port plug baseline considering the actuator located inside and outside the port plug. Fusion Engineering and Design, 2013, 88, 2073-2076. | 1.9 | 6 |
| 103 | Design overview of the ITER core CXRS fast shutter and manufacturing implications during the detailed design work. Fusion Engineering and Design, 2015, 96-97, 746-750. | 1.9 | 6 |
| 104 | Mirror Station for studies of the protection of diagnostic mirrors from impurity contamination in ITER: Design and first results. Fusion Engineering and Design, 2015, 96-97, 290-293. | 1.9 | 6 |
| 105 | Conceptual studies of gamma ray diagnostics for DEMO control. Fusion Engineering and Design, 2018, 136, 1494-1498. | 1.9 | 6 |
| 106 | New diagnostics for physics studies on TEXTOR-94 (invited). Review of Scientific Instruments, 2001, 72, 1046-1053. | 1.3 | 5 |
| 107 | Optimization of the availability of the core CXRS diagnostics for ITER. Fusion Engineering and Design, 2011, 86, 1174-1177. | 1.9 | 5 |
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| 109 | Non-statistical simulations for neutral beam spectroscopy in fusion plasmas. , 2012, , . | | 5 |
| 110 | Major aspects of the design of a first mirror for the ITER core CXRS diagnostics. Fusion Engineering and Design, 2015, 96-97, 812-816. | 1.9 | 5 |
| 111 | VUV spectroscopy in impurity injection experiments at KSTAR using prototype ITER VUV spectrometer. Review of Scientific Instruments, 2017, 88, 083511. | 1.3 | 5 |
| 112 | TFC-PREDIM: A FE dimensioning procedure for the TF coil system of a DEMO tokamak reactor. Fusion Engineering and Design, 2020, 159, 111948. | 1.9 | 5 |
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| 114 | Investigation of oscillations and anomalous transport in a hydrogen hollow cathode discharge by a spatially three-dimensional two-fluid model. Plasma Physics and Controlled Fusion, 1998, 40, 1845-1867. | 2.1 | 4 |
| 115 | Local emission and core concentration of tungsten in TEXTOR-94 plasmas operated with tungsten test and poloidal limiters. Journal of Nuclear Materials, 2001, 290-293, 768-772. | 2.7 | 4 |
| 116 | Non-statistical populations of magnetic sublevels of hydrogen beam atoms in fusion plasmas. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2010, 623, 738-740. | 1.6 | 4 |
| 117 | Feasibility of Upper Port Plug tube handling. Fusion Engineering and Design, 2011, 86, 2060-2063. | 1.9 | 4 |
| 118 | Thermal and hydraulic performance of the helium-operated shutter protecting the first mirror of the ITER diagnostics. Fusion Engineering and Design, 2013, 88, 1288-1292. | 1.9 | 4 |
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| 120 | Comment on â€˜On the fusion triple product and fusion power gain of tokamak pilot plants and reactorsâ€™, by A. Costley. Nuclear Fusion, 2017, 57, 038001. | 3.5 | 4 |
| 121 | Detailed structural analysis of a graded TF coil winding pack for EU DEMO. Fusion Engineering and Design, 2019, 146, 535-538. | 1.9 | 4 |
| 122 | Preliminary study of a visible, high spatial resolution spectrometer for DEMO divertor survey. Journal of Instrumentation, 2020, 15, C01008-C01008. | 1.2 | 4 |
| 123 | DesignÂand integration studies of a diagnostics slimÂcassette concept for DEMO. Nuclear Fusion, 2021, 61, 116046. | 3.5 | 4 |
| 124 | Selected Design Solutions for the Integration of the CXRS Diagnostic in to ITER Upper Port Plug No. 3. Fusion Science and Technology, 2009, 56, 134-138. | 1.1 | 3 |
| 125 | Atomic data for beam-stimulated plasma spectroscopy in fusion plasmas. AIP Conference Proceedings, 2013, , . | 0.4 | 3 |
| 126 | Aim and features of the simplified parametric mock-up of a fast shutter developed for ITER optical diagnostics. Fusion Engineering and Design, 2015, 96-97, 786-789. | 1.9 | 3 |

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| 127 | Erosion of installations in ports of a fusion reactor by hot fuel atoms. Nuclear Materials and Energy, 2017, 12, 1298-1302. | 1.3 | 3 |
| 128 | Implications of uncertainties on European DEMO design. Nuclear Fusion, 2019, 59, 066012. | 3.5 | 3 |
| 129 | Design considerations of the European DEMOâ€™s IR-interferometer/polarimeter based on TRAVIS simulations. Journal of Instrumentation, 2022, 17, C04001. | 1.2 | 3 |
| 130 | Study of the Relevance of Thermal Instability Caused by Impurity Radiation to MARFE Development in a Limiter Tokamak. Contributions To Plasma Physics, 2002, 42, 290-295. | 1.1 | 2 |
| 131 | Turbulence investigations during ergodic divertor operation with induced 2/1 tearing mode. European Physical Journal D, 2005, 55, 295-306. | 0.4 | 2 |
| 132 | Fluctuation BES measurements with the ITER core CXRS prototype spectrometer. Fusion Engineering and Design, 2013, 88, 1386-1389. | 1.9 | 2 |
| 133 | Nuclear analysis of the DEMO divertor survey visible high-resolution spectrometer. Fusion Engineering and Design, 2021, 169, 112460. | 1.9 | 2 |
| 134 | Heat load to a tantalumâ€“tungsten twin-test-limiter and the effect to high-Z core plasma concentration of TEXTOR-94. Journal of Nuclear Materials, 2002, 307-311, 149-153. | 2.7 | 1 |
| 135 | Effect upon the core plasma radiation due to high power laser injection onto C, W and Ta test-limiters in TEXTOR. Journal of Nuclear Materials, 2003, 313-316, 1156-1160. | 2.7 | 1 |
| 136 | High speed reflectometer for EUV mask-blanks. , 2005, 5835, 252. | | 1 |
| 137 | High speed reflectometer for EUV mask-blanks. , 2005, , . | | 1 |
| 138 | Kinetics of highly excited states in Ar17+charge exchange recombination fusion plasma spectroscopy. Journal of Physics B: Atomic, Molecular and Optical Physics, 2009, 42, 189801-189801. | 1.5 | 1 |
| 139 | Alternative system design concepts for the ITER core CXRS upper port plug front end. Fusion Engineering and Design, 2011, 86, 1306-1309. | 1.9 | 1 |
| 140 | Measurement of Plasma Density in Modern Fusion Devices by Dispersion Interferometer. Fusion Science and Technology, 2011, 59, 120-123. | 1.1 | 1 |
| 141 | Investigation of advanced materials for fusion alpha particle diagnostics. Fusion Engineering and Design, 2013, 88, 533-536. | 1.9 | 1 |
| 142 | Deposition of Silicon on Carbon Surfaces During Tokamak Discharges at TEXTOR-94. Physica Scripta, 1999, T81, 70. | 2.5 | 1 |
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| 145 | Structural analysis of a prototype fast shutter for ITER cCXRS diagnostic. , 2011, , . | | 0 |
| 146 | First fusion proton measurements in TEXTOR plasmas using activation technique. Review of Scientific Instruments, 2012, 83, 10D318. | 1.3 | 0 |
| 147 | Retractable tube design issues in ITER CXRS UPP #3. Fusion Engineering and Design, 2013, 88, 1352-1356. | 1.9 | 0 |