

# JesÃ³s Vega

## List of Publications by Year in descending order

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226  
papers

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228  
all docs

228  
docs citations

228  
times ranked

1181  
citing authors

#	ARTICLE	IF	CITATIONS
1	First plasmas in the TJ-II flexible Helic. Plasma Physics and Controlled Fusion, 1999, 41, A539-A548.	2.1	109
2	An advanced disruption predictor for JET tested in a simulated real-time environment. Nuclear Fusion, 2010, 50, 025005.	3.5	96
3	Results of the JET real-time disruption predictor in the ITER-like wall campaigns. Fusion Engineering and Design, 2013, 88, 1228-1231.	1.9	78
4	Confinement transitions in TJ-II under Li-coated wall conditions. Nuclear Fusion, 2009, 49, 104018.	3.5	75
5	The influence of an ITER-like wall on disruptions at JET. Physics of Plasmas, 2014, 21, .	1.9	61
6	Development of an efficient real-time disruption predictor from scratch on JET and implications for ITER. Nuclear Fusion, 2013, 53, 113001.	3.5	52
7	Adaptive predictors based on probabilistic SVM for real time disruption mitigation on JET. Nuclear Fusion, 2018, 58, 056002.	3.5	44
8	Adaptive high learning rate probabilistic disruption predictors from scratch for the next generation of tokamaks. Nuclear Fusion, 2014, 54, 123001.	3.5	42
9	Clustering based on the geodesic distance on Gaussian manifolds for the automatic classification of disruptions. Nuclear Fusion, 2013, 53, 033006.	3.5	40
10	Overview of TJ-II experiments. Nuclear Fusion, 2005, 45, S266-S275.	3.5	37
11	Unbiased and non-supervised learning methods for disruption prediction at JET. Nuclear Fusion, 2009, 49, 055028.	3.5	35
12	ITER fast plant system controller prototype based on ATCA platform. Fusion Engineering and Design, 2012, 87, 2024-2029.	1.9	35
13	PXI-based architecture for real-time data acquisition and distributed dynamic data processing. IEEE Transactions on Nuclear Science, 2006, 53, 923-926.	2.0	34
14	Measurement of density and temperature fluctuations using a fast-swept Langmuir probe. Review of Scientific Instruments, 1992, 63, 4605-4607.	1.3	30
15	Improved feature selection based on genetic algorithms for real time disruption prediction on JET. Fusion Engineering and Design, 2012, 87, 1670-1678.	1.9	29
16	Adaptive learning for disruption prediction in non-stationary conditions. Nuclear Fusion, 2019, 59, 086037.	3.5	27
17	Automatic feature extraction in large fusion databases by using deep learning approach. Fusion Engineering and Design, 2016, 112, 979-983.	1.9	26
18	Disruption prediction with artificial intelligence techniques in tokamak plasmas. Nature Physics, 2022, 18, 741-750.	16.7	25

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19	Overview of TJ-II experiments. Nuclear Fusion, 2011, 51, 094022.	3.5	24
20	On the transfer of adaptive predictors between different devices for both mitigation and prevention of disruptions. Nuclear Fusion, 2020, 60, 056003.	3.5	24
21	TJ-II wave forms analysis with wavelets and support vector machines. Review of Scientific Instruments, 2004, 75, 4254-4257.	1.3	23
22	Automated estimation of L/H transition times at JET by combining Bayesian statistics and support vector machines. Nuclear Fusion, 2009, 49, 085023.	3.5	23
23	A statistical methodology to derive the scaling law for the H-mode power threshold using a large multi-machine database. Nuclear Fusion, 2012, 52, 063016.	3.5	23
24	ITER Fast Plant System Controller prototype based on PXIe platform. Fusion Engineering and Design, 2012, 87, 2030-2035.	1.9	23
25	Review of confinement and transport studies in the TJ-II flexible heliac. Nuclear Fusion, 2001, 41, 1449-1457.	3.5	22
26	ITER prototype fast plant system controller. Fusion Engineering and Design, 2011, 86, 556-560.	1.9	22
27	Implementation of Intelligent Data Acquisition Systems for Fusion Experiments Using EPICS and FlexRIO Technology. IEEE Transactions on Nuclear Science, 2013, 60, 3446-3453.	2.0	22
28	Intelligent methods for data retrieval in fusion databases. Fusion Engineering and Design, 2008, 83, 382-386.	1.9	21
29	Feature extraction for improved disruption prediction analysis at JET. Review of Scientific Instruments, 2008, 79, 10F328.	1.3	21
30	Overview of intelligent data retrieval methods for waveforms and images in massive fusion databases. Fusion Engineering and Design, 2009, 84, 1916-1919.	1.9	21
31	Implementation of the Disruption Predictor APODIS in JET's Real-Time Network Using the MARTe Framework. IEEE Transactions on Nuclear Science, 2014, 61, 741-744.	2.0	21
32	Data mining technique for fast retrieval of similar waveforms in Fusion massive databases. Fusion Engineering and Design, 2008, 83, 132-139.	1.9	20
33	Advanced Data Acquisition System Implementation for the ITER Neutron Diagnostic Use Case Using EPICS and FlexRIO Technology on a PXIe Platform. IEEE Transactions on Nuclear Science, 2016, 63, 1063-1069.	2.0	19
34	Confinement studies in the TJ-II stellarator. Plasma Physics and Controlled Fusion, 1999, 41, B109-B117.	2.1	18
35	Search and retrieval of plasma wave forms: Structural pattern recognition approach. Review of Scientific Instruments, 2006, 77, 10F514.	1.3	18
36	A universal support vector machines based method for automatic event location in waveforms and video-movies: Applications to massive nuclear fusion databases. Review of Scientific Instruments, 2010, 81, 023505.	1.3	18

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37	Advances in the physics studies for the JT-60SA tokamak exploitation and research plan. Plasma Physics and Controlled Fusion, 2020, 62, 014009.	2.1	18
38	Distributed real time data processing architecture for the TJ-II data acquisition system. Review of Scientific Instruments, 2004, 75, 4261-4264.	1.3	17
39	Computationally efficient SVM multi-class image recognition with confidence measures. Fusion Engineering and Design, 2011, 86, 1213-1216.	1.9	17
40	UMEL: A new regression tool to identify measurement peaks in LIDAR/DIAL systems for environmental physics applications. Review of Scientific Instruments, 2014, 85, 063112.	1.3	17
41	Extensive statistical analysis of ELMs on JET with a carbon wall. Plasma Physics and Controlled Fusion, 2014, 56, 114007.	2.1	16
42	Role of nonthermal velocity fluctuations on anomalous impurity heating in the TJ-I tokamak. Physical Review Letters, 1992, 69, 2919-2922.	7.8	15
43	Encoding technique for high data compaction in data bases of fusion devices. Review of Scientific Instruments, 1996, 67, 4154-4160.	1.3	15
44	Overview of the TJ-II remote participation system. Fusion Engineering and Design, 2006, 81, 2045-2050.	1.9	15
45	Data archiving system implementation in ITER's CODAC Core System. Fusion Engineering and Design, 2015, 96-97, 751-755.	1.9	15
46	Runaway transport studies in the TJ-I tokamak. Nuclear Fusion, 1994, 34, 649-658.	3.5	14
47	Data management in the TJ-II multi-layer database. Fusion Engineering and Design, 2000, 48, 69-75.	1.9	14
48	Searching for patterns in TJ-II time evolution signals. Fusion Engineering and Design, 2006, 81, 1993-1997.	1.9	14
49	An authentication and authorization infrastructure: The PAPI system. Fusion Engineering and Design, 2006, 81, 2057-2061.	1.9	14
50	Real-Time Implementation in JET of the SPAD Disruption Predictor Using MARTe. IEEE Transactions on Nuclear Science, 2018, 65, 836-842.	2.0	14
51	Incremental support vector machines for fast reliable image recognition. Fusion Engineering and Design, 2013, 88, 1170-1173.	1.9	13
52	A New Generation of Real-Time Systems in the JET Tokamak. IEEE Transactions on Nuclear Science, 2014, 61, 711-719.	2.0	13
53	Disruption precursor detection: Combining the time and frequency domains. , 2015, , .		13
54	The TJ-II data acquisition system: an overview. Fusion Engineering and Design, 1999, 43, 309-319.	1.9	12

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55	Upgrade of the automatic analysis system in the TJ-II Thomson Scattering diagnostic: New image recognition classifier and fault condition detection. Fusion Engineering and Design, 2010, 85, 415-418.	1.9	12
56	Real Time Plasma Disruptions Detection in JET Implemented With the ITMS Platform Using FPGA Based IDAQ. IEEE Transactions on Nuclear Science, 2011, 58, 1576-1581.	2.0	12
57	An alternative approach to the determination of scaling law expressions for the Lâ€H transition in Tokamaks utilizing classification tools instead of regression. Plasma Physics and Controlled Fusion, 2014, 56, 114002.	2.1	12
58	Accessing TJ-II data with remote procedure call. Review of Scientific Instruments, 2001, 72, 525-529.	1.3	11
59	Overview of TJ-II flexible heliac results. Fusion Engineering and Design, 2001, 56-57, 145-154.	1.9	11
60	Accurate and reliable image classification by using conformal predictors in the TJ-II Thomson scattering. Review of Scientific Instruments, 2010, 81, 10E118.	1.3	11
61	Engineering Design of ITER Prototype Fast Plant System Controller. IEEE Transactions on Nuclear Science, 2011, 58, 1439-1446.	2.0	11
62	Hardware Timestamping for an Image Acquisition System Based on FlexRIO and IEEE 1588 v2 Standard. IEEE Transactions on Nuclear Science, 2016, 63, 228-235.	2.0	11
63	A linear equation based on signal increments to predict disruptive behaviours and the time to disruption on JET. Nuclear Fusion, 2020, 60, 026001.	3.5	11
64	PHAD: a phase-oriented disruption prediction strategy for avoidance, prevention, and mitigation in JET. Nuclear Fusion, 2021, 61, 116055.	3.5	11
65	Data reduction in the ITMS system through a data acquisition model with self-adaptive sampling rate. Fusion Engineering and Design, 2008, 83, 358-362.	1.9	10
66	New developments at JET in diagnostics, real-time control, data acquisition and information retrieval with potential application to ITER. Fusion Engineering and Design, 2009, 84, 2136-2144.	1.9	10
67	Simulation and real-time replacement of missing plasma signals for disruption prediction: an implementation with APODIS. Plasma Physics and Controlled Fusion, 2014, 56, 114004.	2.1	10
68	Viability Assessment of a Cross-Tokamak AUG-JET Disruption Predictor. Fusion Science and Technology, 2018, 74, 13-22.	1.1	10
69	On the potential of ruled-based machine learning for disruption prediction on JET. Fusion Engineering and Design, 2018, 130, 62-68.	1.9	10
70	Software and hardware developments for remote participation in TJ-II operation. Proof of concept using the NPA diagnostic. Fusion Engineering and Design, 2002, 60, 487-492.	1.9	9
71	Design of the TJ-II remote participation system. Review of Scientific Instruments, 2003, 74, 1773-1777.	1.3	9
72	Autonomous acquisition systems for TJ-II: controlling instrumentation with a fourth generation language. Fusion Engineering and Design, 2004, 71, 123-127.	1.9	9

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73	Overview of TJ-II experiments. Nuclear Fusion, 2007, 47, S677-S685.	3.5	9
74	Intelligent technique to search for patterns within images in massive databases. Review of Scientific Instruments, 2008, 79, 10F327.	1.3	9
75	Support vector machine-based feature extractor for L/H transitions in JET. Review of Scientific Instruments, 2010, 81, 10E123.	1.3	9
76	Modeling Fusion Data in Probabilistic Metric Spaces: Applications to the Identification of Confinement Regimes and Plasma Disruptions. Fusion Science and Technology, 2012, 62, 356-365.	1.1	9
77	High performance image acquisition and processing architecture for fast plant system controllers based on FPGA and GPU. Fusion Engineering and Design, 2016, 112, 957-960.	1.9	9
78	Overview of the TJ-II stellarator research programme towards model validation in fusion plasmas. Nuclear Fusion, 2022, 62, 042025.	3.5	9
79	Multiprocessor architecture to handle TJ-II VXI-based digitization channels. Review of Scientific Instruments, 1999, 70, 513-516.	1.3	8
80	Applying object oriented concepts to on-line data acquisition. Review of Scientific Instruments, 1999, 70, 517-520.	1.3	8
81	A distributed synchronization system for the TJ-II local area network. Fusion Engineering and Design, 2004, 71, 117-121.	1.9	8
82	PXI-based architecture for real time data acquisition and distributed dynamical data processing. , 2005, , .		8
83	Design and development of a compact lidar/DIAL system for aerial surveillance of urban areas. , 2013, , .		8
84	A high throughput data acquisition and processing model for applications based on GPUs. Fusion Engineering and Design, 2015, 96-97, 895-898.	1.9	8
85	Unsupervised Event Characterization and Detection in Multichannel Signals: An EEG application. Sensors, 2016, 16, 590.	3.8	8
86	Automatic recognition of anomalous patterns in discharges by recurrent neural networks. Fusion Engineering and Design, 2020, 154, 111495.	1.9	8
87	A methodology to standardize the development of FPGA-based high-performance DAQ and processing systems using OpenCL. Fusion Engineering and Design, 2020, 155, 111561.	1.9	8
88	Investigation of C v line ratio variations in a tokamak with an application to neutral hydrogen measurement. Physical Review E, 1995, 52, 6671-6678.	2.1	7
89	A study of topological structures in TJ-II radiation profiles using an automated pattern recognition procedure and their correlation with plasma confinement. Plasma Physics and Controlled Fusion, 2001, 43, 1039-1053.	2.1	7
90	Multi-tier approach for data acquisition programming in the TJ-II remote participation system. Review of Scientific Instruments, 2004, 75, 4251-4253.	1.3	7

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91	Automated clustering procedure for TJ-II experimental signals. Fusion Engineering and Design, 2006, 81, 1987-1991.	1.9	7
92	Applying a message oriented middleware architecture to the TJ-II remote participation system. Fusion Engineering and Design, 2006, 81, 2063-2067.	1.9	7
93	A standard data access layer for fusion devices R&D programs. Fusion Engineering and Design, 2007, 82, 1315-1320.	1.9	7
94	First applications of structural pattern recognition methods to the investigation of specific physical phenomena at JET. Fusion Engineering and Design, 2008, 83, 467-470.	1.9	7
95	Machine learning for the identification of scaling laws and dynamical systems directly from data in fusion. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2010, 623, 850-854.	1.6	7
96	Implementation of the disruption predictor APODIS in JET real time network using the MARTe framework. , 2012, , .		7
97	Robustness and increased time resolution of JET Advanced Predictor of Disruptions. Plasma Physics and Controlled Fusion, 2014, 56, 114003.	2.1	7
98	Development of a rapid method for the automatic classification of biological agents' fluorescence spectral signatures. Optical Engineering, 2015, 54, 114105.	1.0	7
99	Real time control developments at JET in preparation for deuterium-tritium operation. Fusion Engineering and Design, 2017, 123, 535-540.	1.9	7
100	Assessment of linear disruption predictors using JT-60U data. Fusion Engineering and Design, 2019, 146, 1291-1294.	1.9	7
101	Acceleration of an Algorithm Based on the Maximum Likelihood Bolometric Tomography for the Determination of Uncertainties in the Radiation Emission on JET Using Heterogeneous Platforms. Applied Sciences (Switzerland), 2022, 12, 6798.	2.5	7
102	Improvements in the treatment of signals used for plasma diagnostics. IEEE Transactions on Nuclear Science, 1996, 43, 229.	2.0	6
103	Results of the remote participation on TJ-II neutral particle analyzer. Review of Scientific Instruments, 2003, 74, 1795-1798.	1.3	6
104	TJ-II Operation Tracking from Cadarache. Fusion Science and Technology, 2006, 50, 464-471.	1.1	6
105	Structural pattern recognition methods based on string comparison for fusion databases. Fusion Engineering and Design, 2008, 83, 421-424.	1.9	6
106	PAPI based federation as a test-bed for a common security infrastructure in EFDA sites. Fusion Engineering and Design, 2008, 83, 486-490.	1.9	6
107	Self-adaptive sampling rate data acquisition in JETâ€™s correlation reflectometer. Review of Scientific Instruments, 2008, 79, 10F336.	1.3	6
108	Automatic ELM Location in JET Using a Universal Multi-Event Locator. Fusion Science and Technology, 2010, 58, 755-762.	1.1	6

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109	Parallelization of automatic classification systems based on support vector machines: Comparison and application to JET database. Fusion Engineering and Design, 2010, 85, 425-427.	1.9	6
110	Innovative signal processing and data analysis methods on JET for control in the perspective of next-step devices. Nuclear Fusion, 2010, 50, 055005.	3.5	6
111	IEEE 1588 clock distribution for FlexRIO devices in PXIe platforms. Fusion Engineering and Design, 2014, 89, 652-657.	1.9	6
112	Global optimization driven by genetic algorithms for disruption predictors based on APODIS architecture. Fusion Engineering and Design, 2016, 112, 1014-1018.	1.9	6
113	3D virtual world remote laboratory to assist in designing advanced user defined DAQ systems based on FlexRIO and EPICS. Fusion Engineering and Design, 2016, 112, 1059-1062.	1.9	6
114	Data model implementation in ITER data archiving system. Fusion Engineering and Design, 2019, 146, 1903-1906.	1.9	6
115	Data driven theory for knowledge discovery in the exact sciences with applications to thermonuclear fusion. Scientific Reports, 2020, 10, 19858.	3.3	6
116	Code for time-resolved x-ray pulse analysis at high count rates for short tokamak discharges. Review of Scientific Instruments, 1990, 61, 3268-3270.	1.3	5
117	Data processing in fusion experiments with remote participation. Review of Scientific Instruments, 2003, 74, 1791-1794.	1.3	5
118	Real-time data acquisition and processing platform for fusion experiments. Fusion Engineering and Design, 2004, 71, 135-140.	1.9	5
119	Present status of the TJ-II remote participation system. Fusion Engineering and Design, 2005, 74, 775-780.	1.9	5
120	Synchronization resources in heterogeneous environments: Time-sharing, real-time and Java. Fusion Engineering and Design, 2006, 81, 1869-1872.	1.9	5
121	Implementation of local area network extension for instrumentation standard trigger capabilities in advanced data acquisition platforms. Review of Scientific Instruments, 2008, 79, 10F335.	1.3	5
122	Dynamic Clustering and Modeling Approaches for Fusion Plasma Signals. IEEE Transactions on Instrumentation and Measurement, 2009, 58, 2969-2978.	4.7	5
123	Service-oriented architecture of adaptive, intelligent data acquisition and processing systems for long-pulse fusion experiments. Fusion Engineering and Design, 2010, 85, 274-279.	1.9	5
124	A new generation of real-time systems in the JET tokamak. , 2012, , .		5
125	Dynamics of flows and confinement in the TJ-II stellarator. Nuclear Fusion, 2013, 53, 104016.	3.5	5
126	Test bed for real-time image acquisition and processing systems based on FlexRIO, CameraLink, and EPICS. Fusion Engineering and Design, 2014, 89, 633-637.	1.9	5



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127	Adaboost classification of TJ-II Thomson Scattering images. Fusion Engineering and Design, 2017, 123, 759-763.	1.9	5
128	Applying Deep Learning for Improving Image Classification in Nuclear Fusion Devices. IEEE Access, 2018, 6, 72345-72356.	4.2	5
129	A multidimensional linear model for disruption prediction in JET. Fusion Engineering and Design, 2019, 146, 2393-2396.	1.9	5
130	TJ-II data retrieving by means of a client/server model. Review of Scientific Instruments, 1999, 70, 498-501.	1.3	4
131	A relational database for physical data from TJ-II discharges. Fusion Engineering and Design, 2002, 60, 341-346.	1.9	4
132	Simulation platform for remote participants in fusion experiments. Fusion Engineering and Design, 2004, 71, 269-274.	1.9	4
133	Recent results on structural pattern recognition for Fusion massive databases. , 2007, , .		4
134	Real-time lossless data compression techniques for long-pulse operation. Fusion Engineering and Design, 2007, 82, 1301-1307.	1.9	4
135	Automated recognition system for ELM classification in JET. Fusion Engineering and Design, 2009, 84, 712-715.	1.9	4
136	Configuration and supervision of advanced distributed data acquisition and processing systems for long pulse experiments using JINI technology. Fusion Engineering and Design, 2009, 84, 832-836.	1.9	4
137	Securing MDSplus in a multi-organisation environment. Fusion Engineering and Design, 2010, 85, 614-617.	1.9	4
138	Automatic location of L/H transition times for physical studies with a large statistical basis. Plasma Physics and Controlled Fusion, 2012, 54, 065009.	2.1	4
139	Automatic determination of L/H transition times in DIII-D through a collaborative distributed environment. Fusion Engineering and Design, 2012, 87, 2081-2083.	1.9	4
140	Implementation of an image acquisition and processing system based on FlexRIO, CameraLink and areaDetector. Fusion Engineering and Design, 2016, 112, 937-941.	1.9	4
141	Unsupervised event detection and classification of multichannel signals. Expert Systems With Applications, 2016, 54, 294-303.	7.6	4
142	Determining the prediction limits of models and classifiers with applications for disruption prediction in JET. Nuclear Fusion, 2017, 57, 016024.	3.5	4
143	A fully programmable data acquisition system for the TJâ€ and TJâ€U devices. Review of Scientific Instruments, 1992, 63, 4806-4808.	1.3	3
144	Integration of autonomous systems for remote control of data acquisition and diagnostics in the TJ-II device. Review of Scientific Instruments, 1997, 68, 963-966.	1.3	3

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145	Classifier based on support vector machine for JET plasma configurations. Review of Scientific Instruments, 2008, 79, 10F326.	1.3	3
146	OPTIMIZED SEARCH STRATEGIES TO IMPROVE STRUCTURAL PATTERN RECOGNITION TECHNIQUES. , 2008, , .		3
147	Progress on statistical learning systems as data mining tools for the creation of automatic databases in Fusion environments. Fusion Engineering and Design, 2010, 85, 399-402.	1.9	3
148	Image processing methods for noise reduction in the TJ-II Thomson Scattering diagnostic. Fusion Engineering and Design, 2012, 87, 2170-2173.	1.9	3
149	NetCDF based data archiving system applied to ITER Fast Plant System Control prototype. Fusion Engineering and Design, 2012, 87, 2223-2228.	1.9	3
150	A GPU-based real time high performance computing service in a fast plant system controller prototype for ITER. Fusion Engineering and Design, 2012, 87, 2152-2155.	1.9	3
151	Iterative noise removal from temperature and density profiles in the TJ-II Thomson scattering. Fusion Engineering and Design, 2014, 89, 761-765.	1.9	3
152	Real-time change detection in data streams with FPGAs. Fusion Engineering and Design, 2014, 89, 644-648.	1.9	3
153	Soft real-time EPICS extensions for fast control: A case study applied to a TCV equilibrium algorithm. Fusion Engineering and Design, 2014, 89, 638-643.	1.9	3
154	Feature selection for disruption prediction from scratch in JET by using genetic algorithms and probabilistic predictors. Fusion Engineering and Design, 2015, 96-97, 907-911.	1.9	3
155	Preliminary numerical investigations of conformal predictors based on fuzzy logic classifiers. Annals of Mathematics and Artificial Intelligence, 2015, 74, 155-180.	1.3	3
156	Review of disruption predictors in nuclear fusion: Classical, from scratch and anomaly detection approaches. , 2016, , .		3
157	A support vector machine approach to the automatic identification of fluorescence spectra emitted by biological agents. , 2016, , .		3
158	Automatic Recognition of Anomalous Patterns in Discharges by Applying Deep Learning. Fusion Science and Technology, 2020, 76, 925-932.	1.1	3
159	Scaling laws of the energy confinement time in stellarators without renormalization factors. Nuclear Fusion, 2021, 61, 096036.	3.5	3
160	INSPECTION OF DISRUPTIVE BEHAVIOURS AT JET USING GENERATIVE TOPOGRAPHIC MAPPING. World Scientific Series on Nonlinear Science, Series B, 2010, , 315-320.	0.2	3
161	Advanced Disruption Predictor Based On The Locked Mode Signal: Application To Jet. , 2016, , .		3
162	A study of impurity rotation behaviour in the TJ-I tokamak. Plasma Physics and Controlled Fusion, 1993, 35, 349-361.	2.1	2

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163	Transport studies in the TJ-I tokamak from steady and perturbative methods. Nuclear Fusion, 1996, 36, 953-963.	3.5	2
164	Remote control of data acquisition devices by means of message oriented middleware. Fusion Engineering and Design, 2007, 82, 1365-1371.	1.9	2
165	EFDAâ€fed: European federation among fusion energy research laboratories. Campus Wide Information Systems, 2008, 25, 359-373.	1.1	2
166	Test-bed of a real time detection system for L/H and H/L transitions implemented with the ITMS platform. Fusion Engineering and Design, 2010, 85, 360-366.	1.9	2
167	New information processing methods for control on JET. Fusion Engineering and Design, 2010, 85, 428-432.	1.9	2
168	Real time plasma disruptions detection in JET implemented with the ITMS platform using FPGA based IDAQ. , 2010, , .		2
169	Exploiting Graphic Processing Units Parallelism to Improve Intelligent Data Acquisition System Performance in JET's Correlation Reflectometer. IEEE Transactions on Nuclear Science, 2011, 58, 1714-1718.	2.0	2
170	Securing remote services by integrating SecurID strong authentication technology in EFDA-Federation infrastructure. Fusion Engineering and Design, 2011, 86, 1260-1263.	1.9	2
171	ITER prototype fast plant system controller based on ATCA platform. , 2011, , .		2
172	Implementation of intelligent data acquisition systems for fusion experiment using EPICS and FlexRIO technology. , 2012, , .		2
173	Latest developments in image processing for the next generation of devices with a view on DEMO. Fusion Engineering and Design, 2012, 87, 2116-2119.	1.9	2
174	Spatial location of local perturbations in plasma emissivity derived from projections using conformal predictors. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2013, 720, 14-19.	1.6	2
175	A new class of indicators for the model selection of scaling laws in nuclear fusion. Fusion Engineering and Design, 2013, 88, 738-741.	1.9	2
176	Integration and Validation of a Disruption Predictor Simulator in JET. Fusion Science and Technology, 2013, 63, 26-33.	1.1	2
177	Advanced signal processing based on support vector regression for lidar applications. , 2015, , .		2
178	RIO EPICS device support application case study on an ion source control system (ISHP). Fusion Engineering and Design, 2015, 96-97, 927-931.	1.9	2
179	Real-time implementation with FPGA-based DAQ system of a probabilistic disruption predictor from scratch. Fusion Engineering and Design, 2018, 129, 179-182.	1.9	2
180	OpenCL Implementation of an Adaptive Disruption Predictor Based on a Probabilistic Venn Classifier. IEEE Transactions on Nuclear Science, 2019, 66, 1007-1013.	2.0	2

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181	Nuclear Fusion Pattern Recognition by Ensemble Learning. Complexity, 2021, 2021, 1-9.	1.6	2
182	Considerations on Stellarator's Optimization from the Perspective of the Energy Confinement Time Scaling Laws. Applied Sciences (Switzerland), 2022, 12, 2862.	2.5	2
183	New Techniques and Technologies for Information Retrieval and Knowledge Extraction from Nuclear Fusion Massive Databases. , 2007, , .		1
184	Dynamic Clustering and Neuro-Fuzzy Identification for the Analysis of Fusion Plasma Signals. , 2007, , .		1
185	Structural Pattern Recognition Techniques for Data Retrieval in Massive Fusion Databases. AIP Conference Proceedings, 2008, , .	0.4	1
186	Recent developments in data mining and soft computing for JET with a view on ITER. Fusion Engineering and Design, 2009, 84, 1372-1375.	1.9	1
187	Analysis of Video-Movies Using Support Vector Regression. Fusion Science and Technology, 2010, 58, 763-770.	1.1	1
188	Empirically derived basis functions for unsupervised classification of radial profile data. Fusion Engineering and Design, 2010, 85, 423-424.	1.9	1
189	Real-time remote diagnostic monitoring test-bed in JET. Fusion Engineering and Design, 2010, 85, 598-602.	1.9	1
190	A versatile trigger and synchronization module with IEEE1588 capabilities and EPICS support. Fusion Engineering and Design, 2010, 85, 340-344.	1.9	1
191	Web based system architecture for long pulse remote experimentation. Fusion Engineering and Design, 2010, 85, 292-297.	1.9	1
192	Event recognition using signal spectrograms in long pulse experiments. Review of Scientific Instruments, 2010, 81, 10E126.	1.3	1
193	New signal processing methods and information technologies for the real time control of JET reactor relevant plasmas. Fusion Engineering and Design, 2011, 86, 544-547.	1.9	1
194	H/L transition time estimation in JET using conformal predictors. Fusion Engineering and Design, 2012, 87, 2084-2086.	1.9	1
195	Region selection and image classification methodology using a non-conformity measure. Progress in Artificial Intelligence, 2012, 1, 215-222.	2.4	1
196	Application and Validation of Image Processing Algorithms to Reduce the Stray Light on the TJ-II Thomson Scattering Diagnostic. Fusion Science and Technology, 2013, 63, 20-25.	1.1	1
197	Hardware timestamping for image acquisition system based on FlexRIO and IEEE 1588 v2 standard. , 2014, , .		1
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