Shanshuang Shi

List of Publications by Year
in descending order

27 papers	222 citations	1040056 9 h-index	1058476 14 g-index
27 all docs	27 docs citations	27 times ranked	156 citing authors

#	Article	IF	Citations
1	Conceptual design main progress of EAST Articulated Maintenance Arm (EAMA) system. Fusion Engineering and Design, 2016, 104, 40-45.	1.9	37
2	A hybrid differential evolution and particle swarm optimization algorithm for numerical kinematics solution of remote maintenance manipulators. Fusion Engineering and Design, 2017, 124, 587-590.	1.9	32
3	A Snake-Inspired Layer-Driven Continuum Robot. Soft Robotics, 2022, 9, 788-797.	8.0	30
4	Adaptive trajectory control of an under-actuated snake robot. Applied Mathematical Modelling, 2022, 106, 756-769.	4.2	14
5	Static stiffness modelling of EAST articulated maintenance arm using matrix structural analysis method. Fusion Engineering and Design, 2017, 124, 507-511.	1.9	12
6	Conceptual design of EAST multi-purpose maintenance deployer system. Fusion Engineering and Design, 2017, 118, 25-33.	1.9	11
7	Position error compensation of the multi-purpose overload robot in nuclear power plants. Nuclear Engineering and Technology, 2021, 53, 2708-2708.	2.3	11
8	Mechanical design and error prediction of a flexible manipulator system applied in nuclear fusion environment. Industrial Robot, 2017, 44, 711-719.	2.1	10
9	Dynamic analysis of multi-functional maintenance platform based on Newton-Euler method and improved virtual work principle. Nuclear Engineering and Technology, 2020, 52, 2630-2637.	2.3	10
10	Design and Implementation of Storage Cask System for EAST Articulated Inspection Arm (AIA) Robot. Journal of Fusion Energy, 2015, 34, 711-716.	1.2	8
11	WEST regular in-vessel Inspections with the Articulated Inspection Arm robot. Fusion Engineering and Design, 2019, 146, 115-119.	1.9	8
12	Systematic design of snake arm maintainer in nuclear industry. Fusion Engineering and Design, 2022, 176, 113049.	1.9	8
13	Numerical analysis of MD events and preliminary thermal calculation for KTX vacuum vessel. Fusion Engineering and Design, 2013, 88, 3180-3184.	1.9	5
14	Design of the monorail crane system for remote handling of the ITER neutral beam cell. Fusion Engineering and Design, 2021, 172, 112794.	1.9	5
15	Solid lubrication with MoS_2-Ti-C films for high-vacuum applications in a nuclear fusion experimental device. Industrial Lubrication and Tribology, 2018, 70, 155-160.	1.3	3
16	Concept design of the upper port remote handling equipment for ITER neutral beam cell maintenance. Fusion Engineering and Design, 2021, 170, 112698.	1.9	3
17	Progress and Prospects of EAST Remote Maintenance System. , 2018, , .		2
18	Development and Error Compensation of a Flexible Multi-Joint Manipulator Applied in Nuclear Fusion Environment. , 2018, , .		2

#	ARTICLE	IF	CITATIONS
19	Strategy Study and Preliminary Conceptual Design of the Remote Maintenance Systems for in Vessel Components of CFETR. Journal of Fusion Energy, 2020, 39, 67-76.	1.2	2
20	Engineering Design and Analysis of the CFETR Divertor Remote Maintenance System. IEEE Transactions on Plasma Science, 2020, 48, 1637-1640.	1.3	2
21	Design and analysis of the hydraulic driving system for the circular transfer platform of the CFETR divertor. Fusion Engineering and Design, 2020, 156, 111598.	1.9	2
22	Design and motion control of an under-actuated snake arm maintainer. Robotica, 2022, 40, 1763-1782.	1.9	2
23	A global mechanical analysis and optimization of vacuum vessel and attached structure of KTX device. , 2013, , .		1
24	Kinematic Analysis of Tokamak In-Vessel Orbiting Robot. , 2017, , .		1
25	Concept of operation of the remote handling system for the ITER vacuum vessel pressure suppression system. Fusion Engineering and Design, 2021, 173, 112875.	1.9	1
26	Development and verification of mathematical model for halo current in ITER. , 2015, , .		0
27	Kinematic and Dynamic Analysis of Robot for Carrying Human Body in Proton Medical Gantry. , 2019, , .		0