

Xiaoman Cheng

List of Publications by Year in descending order

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papers

311
citations

1040056

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24
all docs

24
docs citations

24
times ranked

136
citing authors

#	ARTICLE	IF	CITATIONS
1	Conceptual design of a water cooled breeder blanket for CFETR. Fusion Engineering and Design, 2014, 89, 1380-1385.	1.9	102
2	Thermal-hydraulic analysis on the whole module of water cooled ceramic breeder blanket for CFETR. Fusion Engineering and Design, 2016, 112, 81-88.	1.9	35
3	Progress on design and related R&D activities for the water-cooled breeder blanket for CFETR. Theoretical and Applied Mechanics Letters, 2019, 9, 161-172.	2.8	30
4	Thermal Hydraulic Design and Analysis of a Water-Cooled Ceramic Breeder Blanket with Superheated Steam for CFETR. Plasma Science and Technology, 2015, 17, 787-791.	1.5	15
5	Theoretical modeling of the effective thermal conductivity of the binary pebble beds for the CFETR-WCCB blanket. Fusion Engineering and Design, 2015, 101, 148-153.	1.9	15
6	Design of the Water-Cooled Ceramic Breeder blanket for CFETR. Fusion Engineering and Design, 2022, 177, 113059.	1.9	13
7	Thermal hydraulic responses of the Primary Heat Transfer System of the WCCB blanket to accident cases for CFETR. Fusion Engineering and Design, 2017, 121, 50-59.	1.9	12
8	Numerical simulation of airflow characteristics during the loss of vacuum accident of CFETR. International Journal of Hydrogen Energy, 2018, 43, 11160-11172.	7.1	12
9	Thermal dynamic analyses of the primary heat transfer system for the WCCB blanket of CFETR. Fusion Engineering and Design, 2020, 161, 112067.	1.9	10
10	Preliminary thermal hydraulic safety analysis of water-cooled ceramic breeder blanket for CFETR. Journal of Nuclear Science and Technology, 2016, 53, 1673-1680.	1.3	9
11	Thermal hydraulic design and analysis of updated CFETR water cooled ceramic breeder blanket. Fusion Engineering and Design, 2019, 148, 111317.	1.9	9
12	Steady states and LOFA analyses of the updated WCCB blanket for multiple fusion power modes of CFETR. Fusion Engineering and Design, 2019, 144, 23-28.	1.9	7
13	Primary heat transfer system design of the WCCB blanket for multiple operation modes of CFETR. Fusion Engineering and Design, 2020, 153, 111489.	1.9	7
14	Loss of flow accident and loss of heat sink accident analyses of the WCCB primary heat transfer system for CFETR. Fusion Engineering and Design, 2019, 147, 111247.	1.9	6
15	Preliminary design of primary heat transfer system for CFETR Water-Cooled Ceramic Breeder blanket. Fusion Engineering and Design, 2019, 140, 27-32.	1.9	6
16	Thermal-Hydraulic Analysis for One Water-Cooled Blanket Module of CFETR Based on RELAP5. IEEE Transactions on Plasma Science, 2018, 46, 1704-1712.	1.3	5
17	Numerical analysis of loss of vacuum accident (LOVA) and preliminary discussion about dust resuspension for CFETR. Fusion Engineering and Design, 2019, 143, 82-90.	1.9	5
18	Numerical studies on the heat transfer and friction characteristics of the first wall inserted with the screw blade for water cooled ceramic breeder blanket of CFETR. Fusion Engineering and Design, 2016, 104, 46-55.	1.9	4

#	ARTICLE	IF	CITATIONS
19	Thermo-mechanical assessment of the optimized CFETR water cooled ceramic breeder blanket. Fusion Engineering and Design, 2020, 160, 111798.	1.9	4
20	Preliminary Thermo-mechanical Analysis of Water Cooled Ceramic Breeder Blanket for China Fusion Engineering Test Reactor. Journal of Fusion Energy, 2015, 34, 838-844.	1.2	2
21	Evaluation on the heat removal capacity of the first wall for water cooled breeder blanket of CFETR. Fusion Engineering and Design, 2016, 103, 110-117.	1.9	1
22	Modeling and multi-pipe manifolds optimization of the WCCB blanket sector for CFETR. Journal of Nuclear Science and Technology, 2017, 54, 520-528.	1.3	1
23	3-D Unsteady Model for Be-Steam Reaction in Water-Cooled Ceramic Breeder Blanket. IEEE Transactions on Plasma Science, 2018, 46, 2332-2336.	1.3	1
24	A Water Loop Design for the CRAFT Project towards the Testing of CFETR Water-Cooled Blanket and Divertor. Energies, 2021, 14, 7354.	3.1	0