

# Emanuela Martelli

## List of Publications by Year in descending order

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31  
papers

766  
citations

623734

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501196

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31  
all docs

31  
docs citations

31  
times ranked

378  
citing authors

#	ARTICLE	IF	CITATIONS
1	Tokamak cooling systems and power conversion system options. Fusion Engineering and Design, 2022, 178, 113093.	1.9	26
2	Maturation of critical technologies for the DEMO balance of plant systems. Fusion Engineering and Design, 2022, 179, 113096.	1.9	24
3	Experimental Investigation on CIRCE-HERO for the EU DEMO PbLi/Water Heat Exchanger Development. Energies, 2021, 14, 628.	3.1	3
4	Analysis of the thermal-hydraulic behavior of the EU-DEMO WCLL breeding blanket cooling systems during a loss of flow accident. Fusion Engineering and Design, 2021, 164, 112206.	1.9	10
5	Conceptual design of the main Ancillary Systems of the ITER Water Cooled Lithium Lead Test Blanket System. Fusion Engineering and Design, 2021, 167, 112345.	1.9	11
6	Development of a PbLi heat exchanger for EU DEMO fusion reactor: Experimental test and system code assessment. Fusion Engineering and Design, 2021, 169, 112462.	1.9	1
7	Pre-conceptual design of EU DEMO balance of plant systems: Objectives and challenges. Fusion Engineering and Design, 2021, 169, 112504.	1.9	25
8	Design status of the Vacuum Vessel of DTT facility. Fusion Engineering and Design, 2021, 172, 112760.	1.9	8
9	Parametric study of the influence of double-walled tubes layout on the DEMO WCLL breeding blanket thermal performances. Fusion Engineering and Design, 2020, 161, 111893.	1.9	6
10	On the impact of the heat transfer modelling approach on the prediction of EU-DEMO WCLL breeding blanket thermal performances. Fusion Engineering and Design, 2020, 161, 112051.	1.9	3
11	DTT Thermal Shield: Preliminary thermal analysis. Fusion Engineering and Design, 2020, 158, 111725.	1.9	3
12	Nuclear analysis of the Water cooled lithium lead DEMO reactor. Fusion Engineering and Design, 2020, 160, 111833.	1.9	17
13	Investigation of heat transfer in a steam generator bayonet tube for the development of PbLi technology for EU DEMO fusion reactor. Fusion Engineering and Design, 2020, 159, 111772.	1.9	12
14	DEMO WCLL breeding zone cooling system design: Analysis and discussion. Fusion Engineering and Design, 2019, 146, 2632-2638.	1.9	12
15	Steam Generator mock-up preliminary design suitable for Pb-Li technology demonstration and code assessment. Fusion Engineering and Design, 2019, 146, 1126-1130.	1.9	6
16	Investigation on cooling performance of WCLL breeding blanket first wall for EU DEMO. Fusion Engineering and Design, 2019, 146, 2748-2756.	1.9	8
17	Recent progress in developing a feasible and integrated conceptual design of the WCLL BB in EUROfusion project. Fusion Engineering and Design, 2019, 146, 1805-1809.	1.9	126
18	Alternative design of DEMO Water Cooled Lithium Lead internal structure. Fusion Engineering and Design, 2019, 146, 1056-1059.	1.9	7

#	ARTICLE	IF	CITATIONS
19	Thermal-hydraulic modeling and analyses of the water-cooled EU DEMO using RELAP5 system code. Fusion Engineering and Design, 2019, 146, 1121-1125.	1.9	26
20	Recent Progress in the WCLL Breeding Blanket Design for the DEMO Fusion Reactor. IEEE Transactions on Plasma Science, 2018, 46, 1446-1457.	1.3	49
21	Thermo-hydraulic analysis of EU DEMO WCLL breeding blanket. Fusion Engineering and Design, 2018, 130, 48-55.	1.9	16
22	Advancements in DEMO WCLL breeding blanket design and integration. International Journal of Energy Research, 2018, 42, 27-52.	4.5	77
23	Parametric thermal-hydraulic analysis of the EU DEMO Water-Cooled Lithium-Lead First Wall using the GETTHEM code. Fusion Engineering and Design, 2018, 137, 257-267.	1.9	4
24	Neutronic analyses in support of the WCLL DEMO design development. Fusion Engineering and Design, 2018, 136, 1260-1264.	1.9	30
25	Status of EU DEMO heat transport and power conversion systems. Fusion Engineering and Design, 2018, 136, 1557-1566.	1.9	50
26	Study of EU DEMO WCLL breeding blanket and primary heat transfer system integration. Fusion Engineering and Design, 2018, 136, 828-833.	1.9	44
27	Progress in EU Breeding Blanket design and integration. Fusion Engineering and Design, 2018, 136, 782-792.	1.9	50
28	Rationale and method for design of DEMO WCLL breeding blanket poloidal segmentation. Fusion Engineering and Design, 2017, 124, 664-668.	1.9	10
29	WCLL breeding blanket design and integration for DEMO 2015: status and perspectives. Fusion Engineering and Design, 2017, 124, 682-686.	1.9	91
30	CFD analysis of WCLL BB PbLi manifold. Fusion Engineering and Design, 2017, 124, 1015-1018.	1.9	3
31	Validation of a Three-Dimensional Model of EBR-II and Assessment of RELAP5-3D Based on SHRT-17 Test. Nuclear Technology, 2016, 193, 1-14.	1.2	8