

# Rodrigo Antunes

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2391371/publications.pdf>

Version: 2024-02-01

20  
papers

142  
citations

1307594

7  
h-index

1281871

11  
g-index

20  
all docs

20  
docs citations

20  
times ranked

138  
citing authors

#	ARTICLE	IF	CITATIONS
1	Tritium extraction technologies and DEMO requirements. Fusion Engineering and Design, 2016, 109-111, 912-916.	1.9	28
2	The tritium extraction and removal system for the DCLL-DEMO fusion reactor. Nuclear Fusion, 2018, 58, 095002.	3.5	24
3	RF discharge mirror cleaning for ITER optical diagnostics using 60 MHz very high frequency. Fusion Engineering and Design, 2021, 163, 112140.	1.9	11
4	Plasma-Assisted Catalysis of Ammonia Using Tungsten at Low Pressures: A Parametric Study. ACS Applied Energy Materials, 2021, 4, 4385-4394.	5.1	10
5	Experimental investigation of the ideal selectivity of MFI-ZSM-5 zeolite-type membranes for a first evaluation of the separation of hydrogen isotopologues from helium. Separation and Purification Technology, 2019, 212, 767-773.	7.9	9
6	Decomposition studies of NH <sub>3</sub> and ND <sub>3</sub> in presence of H <sub>2</sub> and D <sub>2</sub> with Pt/Al <sub>2</sub> O <sub>3</sub> and Ru/Al <sub>2</sub> O <sub>3</sub> catalysts. International Journal of Hydrogen Energy, 2022, 47, 14130-14140.	7.1	9
7	Recent achievements of the Pd-Ag membrane technologies in tritium extraction system applications. Fusion Engineering and Design, 2019, 146, 2242-2246.	1.9	8
8	Experimental and numerical characterization of a radio-frequency plasma source with a DC-grounded electrode configuration using a quarter-wavelength filter. Plasma Physics and Controlled Fusion, 2021, 63, 045005.	2.1	7
9	Experimental study of permeation and selectivity of zeolite membranes for tritium processes. Fusion Engineering and Design, 2015, 98-99, 1755-1758.	1.9	6
10	Numerical analysis of H <sub>2</sub> /He gas separation experiments performed with a MFI-type tubular zeolite membrane. Chemical Engineering Research and Design, 2016, 109, 327-334.	5.6	6
11	Comparison of MFI-ZSM5 and NaA zeolite-type tubular membranes for the separation of water vapour from helium for tritium processes in future fusion reactors. Fusion Engineering and Design, 2017, 125, 134-138.	1.9	4
12	Isotopic effects on the permeation of all hydrogen isotopologues through MFI-ZSM-5 zeolite membranes. International Journal of Hydrogen Energy, 2020, 45, 2009-2016.	7.1	4
13	Numerical study and experimental verification of protium permeation through Pd/Ag membranes for fusion applications. Fusion Engineering and Design, 2019, 146, 1286-1290.	1.9	3
14	Study of wall re-deposition on DC-grounded ITER-relevant mirrors with RF plasma in a first mirror unit. Nuclear Fusion, 0, , .	3.5	3
15	The role of tungsten chemical state and boron on ammonia formation using N <sub>2</sub> -H <sub>2</sub> radiofrequency discharges. Nuclear Fusion, 0, , .	3.5	3
16	Deuterium plasma sputtering of mixed Be-W layers. Journal of Nuclear Materials, 2022, 564, 153671.	2.7	3
17	Sensitivity Analysis and Dimensioning of Reactor-Scale Pd/Ag Permeators for the Tritium Extraction and Removal System of the EU-HCPB Blanket. Fusion Science and Technology, 2020, 76, 257-261.	1.1	2
18	Arduino Implementation of Automatic Tuning in PID Control of Rotation in DC Motors. Lecture Notes in Electrical Engineering, 2015, , 217-227.	0.4	1

#	ARTICLE	IF	CITATIONS
19	Ion flux-energy distributions across grounded grids in a RF plasma source with DC-grounded electrodes. Plasma Sources Science and Technology, 0, , .	3.1	1
20	Dimensioning of ideal membrane cascade systems for the separation of binary gas mixtures for nuclear fusion applications. Fusion Engineering and Design, 2019, 149, 111310.	1.9	0