

# Sofiane Benhamadouche

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/12049394/publications.pdf>

Version: 2024-02-01

16  
papers

245  
citations

1040056

9  
h-index

996975

15  
g-index

16  
all docs

16  
docs citations

16  
times ranked

175  
citing authors

#	ARTICLE	IF	CITATIONS
1	DNS of turbulent channel flow with conjugate heat transfer: Effect of thermal boundary conditions on the second moments and budgets. <i>International Journal of Heat and Fluid Flow</i> , 2015, 55, 34-44.	2.4	45
2	Flow over a flat plate with uniform inlet and incident coherent gusts. <i>Journal of Fluid Mechanics</i> , 2013, 720, 457-485.	3.4	33
3	Simulation of subcritical-Reynolds-number flow around four cylinders in square arrangement configuration using LES. <i>European Journal of Mechanics, B/Fluids</i> , 2019, 74, 111-122.	2.5	27
4	On the use of (U)RANS and LES approaches for turbulent incompressible single phase flows in nuclear engineering applications. <i>Nuclear Engineering and Design</i> , 2017, 312, 2-11.	1.7	23
5	On the discontinuity of the dissipation rate associated with the temperature variance at the fluid-solid interface for cases with conjugate heat transfer. <i>International Journal of Heat and Mass Transfer</i> , 2017, 111, 321-328.	4.8	22
6	Source terms modeling for spacer grids with mixing vanes for CFD simulations in nuclear reactors. <i>Computers and Fluids</i> , 2016, 126, 141-152.	2.5	17
7	Assessment of advanced RANS models against large eddy simulation and experimental data in the investigation of ribbed passages with passive heat transfer. <i>Numerical Heat Transfer, Part B: Fundamentals</i> , 2016, 69, 96-110.	0.9	16
8	Feasibility of full-core pin resolved CFD simulations of small modular reactor with momentum sources. <i>Nuclear Engineering and Design</i> , 2021, 378, 111143.	1.7	12
9	Direct numerical simulation of fluid flow in a 5x5 square rod bundle. <i>International Journal of Heat and Fluid Flow</i> , 2021, 90, 108833.	2.4	12
10	A Correlation for the Discontinuity of the Temperature Variance Dissipation Rate at the Fluid-Solid Interface in Turbulent Channel Flows. <i>Flow, Turbulence and Combustion</i> , 2019, 103, 175-201.	2.6	11
11	Extension to various thermal boundary conditions of the elliptic blending model for the turbulent heat flux and the temperature variance. <i>Journal of Fluid Mechanics</i> , 2020, 905, .	3.4	8
12	Wall-Modeled Large Eddy Simulation of the Flow Through PWR Fuel Assemblies at $Re_{sub} = 66\,000$ Validation on CALIFS Experimental Setup. <i>Nuclear Technology</i> , 2020, 206, 255-265.	1.2	6
13	An adoption of the Spalart-Allmaras turbulence model for two- and three-dimensional free surface environmental flows. <i>Journal of Hydraulic Research/De Recherches Hydrauliques</i> , 2021, 59, 314-328.	1.7	5
14	Large Eddy Simulation of a 5x5 rod bundle: Impacts of a central control rod thimble tube. <i>Nuclear Engineering and Design</i> , 2021, 381, 111337.	1.7	5
15	Advanced benchmark of the flow through a mixing vane grid – Large eddy simulation validation. <i>Nuclear Engineering and Design</i> , 2021, 381, 111335.	1.7	2
16	Swirling and Secondary Flows in PWR Primary Loops: CFD Might Bring Some Light. , 2010, , .		1