

# Afaque Shams

## List of Publications by Year in descending order

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papers

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687363

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docs citations

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times ranked

295  
citing authors

#	ARTICLE	IF	CITATIONS
1	Quasi-DNS capabilities of OpenFOAM for different mesh types. Computers and Fluids, 2014, 96, 87-104.	2.5	78
2	Assessment and calibration of an algebraic turbulent heat flux model for low-Prandtl fluids. International Journal of Heat and Mass Transfer, 2014, 79, 589-601.	4.8	70
3	Quasi-direct numerical simulation of a pebble bed configuration. Part I: Flow (velocity) field analysis. Nuclear Engineering and Design, 2013, 263, 473-489.	1.7	59
4	A quantification method for numerical dissipation in quasi-DNS and under-resolved DNS, and effects of numerical dissipation in quasi-DNS and under-resolved DNS of turbulent channel flows. Journal of Computational Physics, 2017, 345, 565-595.	3.8	52
5	Status and perspective of turbulence heat transfer modelling for the industrial application of liquid metal flows. Nuclear Engineering and Design, 2015, 290, 99-106.	1.7	49
6	Numerical modeling of flow induced vibration of nuclear fuel rods. Nuclear Engineering and Design, 2017, 320, 44-56.	1.7	46
7	Numerical prediction of flow induced vibrations in nuclear reactor applications. Nuclear Engineering and Design, 2017, 319, 81-90.	1.7	45
8	Optimization of a pebble bed configuration for quasi-direct numerical simulation. Nuclear Engineering and Design, 2012, 242, 331-340.	1.7	41
9	Quasi-direct numerical simulation of a pebble bed configuration, Part-II: Temperature field analysis. Nuclear Engineering and Design, 2013, 263, 490-499.	1.7	34
10	Review of fuel assembly and pool thermal hydraulics for fast reactors. Nuclear Engineering and Design, 2013, 265, 1205-1222.	1.7	33
11	Large eddy simulation of a randomly stacked nuclear pebble bed. Computers and Fluids, 2014, 96, 302-321.	2.5	28
12	Large eddy simulation of a nuclear pebble bed configuration. Nuclear Engineering and Design, 2013, 261, 10-19.	1.7	20
13	Numerical simulations of a pebble bed configuration using hybrid (RANS+LES) methods. Nuclear Engineering and Design, 2013, 261, 201-211.	1.7	16
14	Numerical simulation of nuclear pebble bed configurations. Nuclear Engineering and Design, 2015, 290, 51-64.	1.7	15
15	Design of a single-phase PTS numerical experiment for a reference Direct Numerical Simulation. Nuclear Engineering and Design, 2016, 300, 282-296.	1.7	11
16	Development and application of computational fluid dynamics approaches within the European project THINS for the simulation of next generation nuclear power systems. Nuclear Engineering and Design, 2015, 290, 13-26.	1.7	10
17	Improved delayed detached eddy simulation of a randomly stacked nuclear pebble bed. Computers and Fluids, 2015, 122, 12-25.	2.5	9
18	Towards the efficient turbulence closure for mixing phenomena in the core outlet of a nuclear reactor. Nuclear Engineering and Design, 2014, 278, 472-480.	1.7	1