

Suad Jakirlic

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

40
papers

1,122
citations

17
h-index

33
g-index

40
ext. papers

1,320
ext. citations

2.6
avg, IF

4.34
L-index

#	Paper	IF	Citations
40	Drop impact onto a liquid layer of finite thickness: dynamics of the cavity evolution. <i>Physical Review E</i> , 2009 , 79, 036306	2.4	326
39	A new approach to modelling near-wall turbulence energy and stress dissipation. <i>Journal of Fluid Mechanics</i> , 2002 , 459, 139-166	3.7	120
38	Contribution towards the second-moment closure modelling of separating turbulent flows. <i>Computers and Fluids</i> , 1998 , 27, 137-156	2.8	91
37	Experimental and computational study of the flow induced by a plasma actuator. <i>International Journal of Heat and Fluid Flow</i> , 2013 , 41, 80-89	2.4	58
36	Extending the bounds of steady RANS closures: Toward an instability-sensitive Reynolds stress model. <i>International Journal of Heat and Fluid Flow</i> , 2015 , 51, 175-194	2.4	50
35	Toward a Universal Roughness Correlation. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , 2017 , 139,	2.1	39
34	Inertia dominated flow and heat transfer in liquid drop spreading on a hot substrate. <i>International Journal of Heat and Fluid Flow</i> , 2011 , 32, 785-795	2.4	33
33	Numerical and physical aspects in LES and hybrid LES/RANS of turbulent flow separation in a 3-D diffuser. <i>International Journal of Heat and Fluid Flow</i> , 2010 , 31, 820-832	2.4	30
32	A new hybrid turbulence modelling strategy for industrial CFD. <i>International Journal for Numerical Methods in Fluids</i> , 2003 , 42, 89-116	1.9	29
31	Comparative assessment of Volume-of-Fluid and Level-Set methods by relevance to dendritic ice growth in supercooled water. <i>Computers and Fluids</i> , 2013 , 79, 44-52	2.8	25
30	A Periodically Perturbed Backward-Facing Step Flow by Means of LES, DES and T-RANS: An Example of Flow Separation Control. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , 2005 , 127, 879-887	2.1	25
29	Experimental characterization and modelling of inflow conditions for a gas turbine swirl combustor. <i>International Journal of Heat and Fluid Flow</i> , 2006 , 27, 924-936	2.4	25
28	Computational analysis of locally forced flow over a wall-mounted hump at high-Re number. <i>International Journal of Heat and Fluid Flow</i> , 2006 , 27, 707-720	2.4	24
27	Insights into the periodic gust response of airfoils. <i>Journal of Fluid Mechanics</i> , 2019 , 876, 237-263	3.7	21
26	Computational modelling of flow and conjugate heat transfer of a drop impacting onto a cold wall. <i>International Journal of Heat and Mass Transfer</i> , 2017 , 109, 971-980	4.9	20
25	Crystallization of supercooled water: A level-set-based modeling of the dendrite tip velocity. <i>International Journal of Heat and Mass Transfer</i> , 2013 , 66, 830-837	4.9	20
24	Near-wall, Reynolds-stress model calculations of transonic flow configurations relevant to aircraft aerodynamics. <i>International Journal of Heat and Fluid Flow</i> , 2007 , 28, 602-615	2.4	20

23	Experimental characterization of the velocity boundary layer in a motored IC engine. <i>International Journal of Heat and Fluid Flow</i> , 2018 , 71, 366-377	2.4	17
22	On unified boundary conditions for improved predictions of near-wall turbulence. <i>Journal of Fluid Mechanics</i> , 2010 , 656, 530-539	3.7	14
21	Quenching of Premixed Flames at Cold Walls: Effects on the Local Flow Field. <i>Flow, Turbulence and Combustion</i> , 2018 , 100, 177-196	2.5	14
20	Progress in the second-moment closure for bubbly flow based on direct numerical simulation data. <i>Journal of Fluid Mechanics</i> , 2020 , 883,	3.7	13
19	Shearless and sheared flow past a circular cylinder: Comparative analysis by means of LES. <i>International Journal of Heat and Fluid Flow</i> , 2008 , 29, 703-720	2.4	12
18	Swirling flow in a tube with variably-shaped outlet orifices: An LES and VLES study. <i>International Journal of Heat and Fluid Flow</i> , 2014 , 49, 28-42	2.4	10
17	Experimental and Computational Investigations of Flow and Mixing in a Single-Annular Combustor Configuration. <i>Flow, Turbulence and Combustion</i> , 2009 , 83, 425-448	2.5	10
16	Eddy-resolving Simulations of the Notchback DrivAer Model: Influence of Underbody Geometry and Wheels Rotation on Aerodynamic Behaviour 2016 ,		10
15	DNS, experimental and modelling study of axially compressed in-cylinder swirling flow. <i>International Journal of Heat and Fluid Flow</i> , 2000 , 21, 627-639	2.4	9
14	On Interface Issues in LES/RANS Coupling Strategies: A Method for Turbulence Forcing. <i>Journal of Fluid Science and Technology</i> , 2011 , 6, 56-72	0.4	7
13	Comparison of wall shear stress estimates obtained by laser Doppler velocimetry, magnetic resonance imaging and numerical simulations. <i>Experiments in Fluids</i> , 2019 , 60, 1	2.5	6
12	High performance computing of the Darmstadt stratified burner by means of large eddy simulation and a joint ATF-FGM approach. <i>Computing and Visualization in Science</i> , 2013 , 16, 77-88	1	6
11	VLES study of a jet impinging onto a heated wall. <i>International Journal of Heat and Fluid Flow</i> , 2017 , 68, 290-297	2.4	5
10	Analysis of the wall shear stress in a generic aneurysm under pulsating and transitional flow conditions. <i>Experiments in Fluids</i> , 2020 , 61, 1	2.5	5
9	Critical Assessment of Some Popular Scale-Resolving Turbulence Models for Vehicle Aerodynamics. <i>SAE International Journal of Passenger Cars - Mechanical Systems</i> , 2017 , 10, 235-250	0.3	5
8	Comparative study of Euler/Euler and Euler/Lagrange approaches simulating evaporation in a turbulent gas-liquid flow. <i>International Journal for Numerical Methods in Fluids</i> , 2009 , 59, 873-906	1.9	5
7	Computational modeling of freezing of supercooled water using phase-field front propagation with immersed points. <i>International Journal of Multiphase Flow</i> , 2018 , 99, 329-346	3.6	4
6	Flow and heat transfer in cross-stream type T-junctions: A computational study. <i>International Journal of Heat and Fluid Flow</i> , 2018 , 71, 179-188	2.4	3

5	Reynolds stress modelling of wake interference of two cylinders in tandem: Conventional vs. eddy-resolving closure. <i>International Journal of Heat and Fluid Flow</i> , 2017 , 67, 139-148	2.4	3
4	A tandem approach for collocated measurements of microphysical and radiative cirrus properties. <i>Atmospheric Measurement Techniques</i> , 2017 , 10, 3485-3498	4	2
3	VLES Modeling of Flow Over Walls with Variably-shaped Roughness by Reference to Complementary DNS. <i>Flow, Turbulence and Combustion</i> , 2017 , 99, 685-703	2.5	2
2	Critical evaluation of some popular hybrid LES/RANS methods by reference to flow separation at a curved wall 2011 ,		2
1	Performance Assessment of Some Popular RANS Models by Relevance to High-Lift Aerodynamics 2009 ,		2