Kemal Hanjalic

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122
papers

5,574
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133
ext. papers

5,574
citations

37
h-index

72
g-index

5.81
ext. citations

avg, IF

L-index

#	Paper	IF	Citations
122	A Reynolds stress model of turbulence and its application to thin shear flows. <i>Journal of Fluid Mechanics</i> , 1972 , 52, 609-638	3.7	75 ⁸
121	A robust near-wall elliptic-relaxation eddy-viscosity turbulence model for CFD. <i>International Journal of Heat and Fluid Flow</i> , 2004 , 25, 1047-1051	2.4	305
120	Contribution towards a Reynolds-stress closure for low-Reynolds-number turbulence. <i>Journal of Fluid Mechanics</i> , 1976 , 74, 593-610	3.7	299
119	Vortical structures and heat transfer in a round impinging jet. <i>Journal of Fluid Mechanics</i> , 2008 , 596, 22	1- <u>3</u> .60	208
118	Elliptic blending model: A new near-wall Reynolds-stress turbulence closure. <i>Physics of Fluids</i> , 2002 , 14, 744-754	4.4	186
117	Fully developed asymmetric flow in a plane channel. <i>Journal of Fluid Mechanics</i> , 1972 , 51, 301-335	3.7	173
116	Advanced turbulence closure models: a view of current status and future prospects. <i>International Journal of Heat and Fluid Flow</i> , 1994 , 15, 178-203	2.4	159
115	Compound Wall Treatment for RANS Computation of Complex Turbulent Flows and Heat Transfer. <i>Flow, Turbulence and Combustion</i> , 2007 , 78, 177-202	2.5	146
114	Modeling Rotating and Swirling Turbulent Flows: A Perpetual Challenge. <i>AIAA Journal</i> , 2002 , 40, 1984-	1929-6	140
113	A hybrid two-layer URANSIES approach for large eddy simulation at high Reynolds numbers. <i>International Journal of Heat and Fluid Flow</i> , 2005 , 26, 173-190	2.4	120
112	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
111	Vortex structure and heat transfer in turbulent flow over a wall-mounted matrix of cubes. <i>International Journal of Heat and Fluid Flow</i> , 1999 , 20, 255-267	2.4	107
110	ONE-POINTCLOSUREMODELS FORBUOYANCY-DRIVENTURBULENTFLOWS. <i>Annual Review of Fluid Mechanics</i> , 2002 , 34, 321-347	22	103
109	Contribution towards the second-moment closure modelling of separating turbulent flows. <i>Computers and Fluids</i> , 1998 , 27, 137-156	2.8	91
108	High-speed visualization and PIV measurements of cavitating flows around a semi-circular leading-edge flat plate and NACA0015 hydrofoil. <i>International Journal of Multiphase Flow</i> , 2014 , 60, 119	9-31:54	83
107	Experimental investigation of impinging jet arrays. Experiments in Fluids, 2004, 36, 946-958	2.5	83
106	Contribution to elliptic relaxation modelling of turbulent natural and mixed convection. <i>International Journal of Heat and Fluid Flow</i> , 2005 , 26, 569-586	2.4	78

(2006-1999)

105	Experimental Study of the Local Convection Heat Transfer From a Wall-Mounted Cube in Turbulent Channel Flow. <i>Journal of Heat Transfer</i> , 1999 , 121, 564-573	1.8	78	
104	Transient analysis of Rayleigh B fiard convection with a RANS model. <i>International Journal of Heat and Fluid Flow</i> , 1999 , 20, 329-340	2.4	65	
103	On the implementation of effects of Lorentz force in turbulence closure models. <i>International Journal of Heat and Fluid Flow</i> , 2000 , 21, 329-337	2.4	63	
102	Local convective heat transfer from an array of wall-mounted cubes. <i>International Journal of Heat and Mass Transfer</i> , 1998 , 41, 335-346	4.9	59	
101	Natural convection in partitioned two-dimensional enclosures at higher Rayleigh numbers. <i>International Journal of Heat and Mass Transfer</i> , 1996 , 39, 1407-1427	4.9	58	
100	Comparative analysis of low- and high-swirl confined flames and jets by proper orthogonal and dynamic mode decompositions. <i>Physics of Fluids</i> , 2014 , 26, 065109	4.4	54	
99	Computational study of turbulent natural convection in a side-heated near-cubic enclosure at a high Rayleigh number. <i>International Journal of Heat and Mass Transfer</i> , 2001 , 44, 2323-2344	4.9	54	
98	Investigation of the influence of oil injection upon the screw compressor working process. <i>International Journal of Refrigeration</i> , 1992 , 15, 206-220	3.8	54	
97	Experimental study and analytical reconstruction of precessing vortex in a tangential swirler. <i>International Journal of Heat and Fluid Flow</i> , 2013 , 42, 251-264	2.4	52	
96	Turbulent heat transfer from a multi-layered wall-mounted cube matrix: a large eddy simulation. <i>International Journal of Heat and Fluid Flow</i> , 2002 , 23, 173-185	2.4	51	
95	'T-RANS' Simulation of Deterministic Eddy Structure in Flows Driven by Thermal Buoyancy and Lorentz Force. <i>Flow, Turbulence and Combustion</i> , 2001 , 66, 427-451	2.5	50	
94	Heat transfer correlation for hexagonal and in-line arrays of impinging jets. <i>International Journal of Heat and Mass Transfer</i> , 2008 , 51, 5389-5399	4.9	49	
93	Convective rolls and heat transfer in finite-length rayleigh-Benard convection: A two-dimensional numerical study. <i>Physical Review E</i> , 2000 , 62, 7987-98	2.4	48	
92	LES, T-RANS and hybrid simulations of thermal convection at high Ra numbers. <i>International Journal of Heat and Fluid Flow</i> , 2006 , 27, 800-810	2.4	47	
91	Experimental study of the convective heat transfer from in-line and staggered configurations of two wall-mounted cubes. <i>International Journal of Heat and Mass Transfer</i> , 2002 , 45, 465-482	4.9	46	
90	A comparative assessment of the second-moment differential and algebraic models in turbulent natural convection. <i>International Journal of Heat and Fluid Flow</i> , 1997 , 18, 4-14	2.4	44	
89	Some developments in turbulence modeling for wind and environmental engineering. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , 2008 , 96, 1537-1570	3.7	44	
88	Wall imprint of turbulent structures and heat transfer in multiple impinging jet arrays. <i>Journal of Fluid Mechanics</i> , 2006 , 546, 255	3.7	44	

87	Numerical simulation of magnetic control of heat transfer in thermal convection. <i>International Journal of Heat and Fluid Flow</i> , 2004 , 25, 559-568	2.4	42
86	Prediction of turbulent thermal convection in concentric and eccentric horizontal annuli. <i>International Journal of Heat and Fluid Flow</i> , 1995 , 16, 429-439	2.4	40
85	Vortex structures and heat transfer in a wall-bounded pin matrix: LES with a RANS wall-treatment. <i>International Journal of Heat and Fluid Flow</i> , 2010 , 31, 740-753	2.4	37
84	Determination of the laminar burning velocity and the Markstein length of powderBir flames. <i>Powder Technology</i> , 2002 , 122, 222-238	5.2	37
83	Computation of turbulent natural convection in rectangular enclosures with an algebraic flux model. <i>International Journal of Heat and Mass Transfer</i> , 1993 , 36, 3603-3624	4.9	37
82	Unsteady regimes and pressure pulsations in draft tube of a model hydro turbine in a range of off-design conditions. <i>Experimental Thermal and Fluid Science</i> , 2018 , 91, 410-422	3	36
81	Particle imaging velocimetry-based identification of coherent structures in normally impinging multiple jets. <i>Physics of Fluids</i> , 2005 , 17, 055105	4.4	35
80	Autothermal combustion of mechanically-activated micronized coal in a 5MW pilot-scale combustor. <i>Fuel</i> , 2014 , 122, 103-111	7.1	34
79	Double-diffusive natural convection in trapezoidal enclosures. <i>International Journal of Heat and Mass Transfer</i> , 1998 , 41, 1885-1898	4.9	34
78	A new form of the elliptic relaxation equation to account for wall effects in RANS modeling. <i>Physics of Fluids</i> , 2000 , 12, 2345-2351	4.4	34
77	Modelling of particles deposition in an environment relevant to solid fuel boilers. <i>Applied Thermal Engineering</i> , 2012 , 49, 131-138	5.8	32
76	Numerical simulation of a turbulent magnetic dynamo. <i>Physical Review Letters</i> , 2007 , 98, 104501	7.4	32
75	Symmetry breaking of flow and heat transfer in multiple impinging jets. <i>International Journal of Heat and Fluid Flow</i> , 2003 , 24, 444-453	2.4	32
74	A direct-numerical-simulation-based second-moment closure for turbulent magnetohydrodynamic flows. <i>Physics of Fluids</i> , 2004 , 16, 1229-1241	4.4	31
73	Mechanical activation of micronized coal: Prospects for new combustion applications. <i>Applied Thermal Engineering</i> , 2015 , 74, 174-181	5.8	29
72	Comparative analysis of twin vortex ropes in laboratory models of two hydro-turbine draft-tubes. <i>Journal of Hydraulic Research/De Recherches Hydrauliques</i> , 2016 , 54, 450-460	1.9	29
71	Expanding the limits of Equilibrium Becond-moment turbulence closures. <i>Fluid Dynamics Research</i> , 1997 , 20, 25-41	1.2	29
70	Scrutinizing URANS in Shedding Flows: The Case of Cylinder in Cross-Flow in the Subcritical Regime. <i>Flow, Turbulence and Combustion</i> , 2016 , 97, 1017-1046	2.5	29

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69	Computational modeling of autothermal combustion of mechanically-activated micronized coal. <i>Fuel</i> , 2014 , 135, 443-458	7.1	28
68	URANS of flow and endwall heat transfer in a pinned passage relevant to gas-turbine blade cooling. <i>International Journal of Heat and Fluid Flow</i> , 2009 , 30, 549-560	2.4	28
67	Computation of tip-leakage flow in a linear compressor cascade with a second-moment turbulence closure. <i>International Journal of Heat and Fluid Flow</i> , 2007 , 28, 587-601	2.4	26
66	Application of infrared thermography to the evaluation of local convective heat transfer on arrays of cubical protrusions. <i>International Journal of Heat and Fluid Flow</i> , 1997 , 18, 152-159	2.4	25
65	A model of stress dissipation in second-moment closures. <i>Flow, Turbulence and Combustion</i> , 1993 , 51, 513-518		25
64	Experiments on a rotating-pipe swirl burner. Experimental Thermal and Fluid Science, 2003, 27, 481-489	3	24
63	Tackling complex turbulent flows with transient RANS. Fluid Dynamics Research, 2009, 41, 012201	1.2	23
62	Computation of Oscillating Turbulent Flows at Transitional Re-Numbers 1995 , 323-342		23
61	Separation-Induced Transition to Turbulence: Second-Moment Closure Modelling. <i>Flow, Turbulence and Combustion</i> , 2000 , 63, 153-173	2.5	22
60	Helical modes in low- and high-swirl jets measured by tomographic PIV. <i>Journal of Turbulence</i> , 2016 , 17, 678-698	2.1	21
59	Vortices and heat flux around a wall-mounted cube cooled simultaneously by a jet and a crossflow. <i>International Journal of Heat and Mass Transfer</i> , 2009 , 52, 4047-4062	4.9	21
58	Large-eddy simulations of flow over a jet-impinged wall-mounted cube in a cross stream. <i>International Journal of Heat and Fluid Flow</i> , 2007 , 28, 1360-1378	2.4	20
57	A DNS-based thermal second-moment closure for buoyant convection at vertical walls. <i>Journal of Fluid Mechanics</i> , 1999 , 391, 211-247	3.7	20
56	Large-eddy simulation and deduced scaling analysis of Rayleigh B fiard convection up to Ra = 109. Journal of Turbulence, 2006 , 7, N66	2.1	19
55	Cavitating flow around a scaled-down model of guide vanes of a high-pressure turbine. <i>International Journal of Multiphase Flow</i> , 2016 , 78, 75-87	3.6	18
54	Vortical structures and pressure pulsations in draft tube of a Francis-99 turbine at part load: RANS and hybrid RANS/LES analysis. <i>International Journal of Heat and Fluid Flow</i> , 2017 , 63, 158-171	2.4	18
53	Coupled fluid-flow and magnetic-field simulation of the Riga dynamo experiment. <i>Physics of Plasmas</i> , 2006 , 13, 122308	2.1	18
52	Manipulating cavitation by a wall jet: Experiments on a 2D hydrofoil. <i>International Journal of Multiphase Flow</i> , 2018 , 99, 312-328	3.6	18

51	Numerical Study of Winter Diurnal Convection Over the City of Krasnoyarsk: Effects of Non-freezing River, Undulating Fog and Steam Devils. <i>Boundary-Layer Meteorology</i> , 2017 , 163, 469-495	3.4	17
50	Hysteresis and transition in swirling nonpremixed flames. <i>Combustion and Flame</i> , 2009 , 156, 447-459	5.3	17
49	Numerical insights into magnetic dynamo action in a turbulent regime. <i>New Journal of Physics</i> , 2007 , 9, 306-306	2.9	17
48	Prediction of Cascade Flows With Innovative Second-Moment Closures. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , 2005 , 127, 1059-1070	2.1	17
47	Numerical simulation of coal-air mixture flow in a real double-swirl burner and implications on combustion anomalies in a utility boiler. <i>Energy</i> , 2019 , 170, 942-953	7.9	17
46	Effects of reburning mechanically-activated micronized coal on reduction of NOx: Computational study of a real-scale tangentially-fired boiler. <i>Fuel</i> , 2018 , 214, 215-229	7.1	17
45	Dynamic simulation of pollutant dispersion over complex urban terrains: A tool for sustainable development, control and management*1. <i>Energy</i> , 2005 , 30, 1481-1497	7.9	16
44	Effects of rotation on flow in an asymmetric rib-roughened duct: LES study. <i>International Journal of Heat and Fluid Flow</i> , 2015 , 55, 104-119	2.4	15
43	Numerical and experimental study of electromagnetically driven vortical flows. <i>International Journal of Heat and Fluid Flow</i> , 2009 , 30, 494-504	2.4	14
42	A two-scale second-moment turbulence closure based on weighted spectrum integration. <i>Theoretical and Computational Fluid Dynamics</i> , 2004 , 18, 1-26	2.3	14
41	Second-Moment Closure Model for IC Engine Flow Simulation Using Kiva Code1. <i>Journal of Engineering for Gas Turbines and Power</i> , 2000 , 122, 355-363	1.7	13
40	Vortex ropes in draft tube of a laboratory Kaplan hydroturbine at low load: an experimental and LES scrutiny of RANS and DES computational models. <i>Journal of Hydraulic Research/De Recherches Hydrauliques</i> , 2017 , 55, 668-685	1.9	12
39	On Impact of Helical Structures on Stabilization of Swirling Flames with Vortex Breakdown. <i>Flow, Turbulence and Combustion</i> , 2019 , 103, 887-911	2.5	12
38	Computations of a turbulent wake in a strong adverse pressure gradient. <i>International Journal of Heat and Fluid Flow</i> , 2007 , 28, 418-428	2.4	12
37	Some resolved and unresolved issues in modelling non-equilibrium and unsteady turbulent flows 1996 , 3-18		12
36	LES of turbulent flow in a concentric annulus with rotating outer wall. <i>International Journal of Heat and Fluid Flow</i> , 2013 , 43, 74-84	2.4	11
35	Leray-Regularization of the Smagorinsky-Closed Filtered Equations for Turbulent Jets at High Reynolds Numbers. <i>Flow, Turbulence and Combustion</i> , 2012 , 89, 627-650	2.5	11
34	Cavitation on NACA0015 hydrofoils with different wall roughness: high-speed visualization of the surface texture effects. <i>Journal of Visualization</i> , 2016 , 19, 587-590	1.6	11

Control of flow around a cylinder by rotary oscillations at a high subcritical Reynolds number. <i>Journal of Fluid Mechanics</i> , 2018 , 855, 236-266	3.7	11	
Characterization of the flame blow-off conditions in a laminar boundary layer with hydrogen injection. <i>Combustion and Flame</i> , 2013 , 160, 1999-2008	5.3	10	
On the Application of the LevenbergMarquardt Method in Conjunction with an Explicit RungeKutta and an Implicit Rosenbrock Method to Assess Burning Velocities from Confined Deflagrations. <i>Flow, Turbulence and Combustion</i> , 2013 , 91, 281-317	2.5	10	
Measurement of velocity-temperature correlations in a turbulent diffusion flame. <i>Experiments in Fluids</i> , 2004 , 37, 364-374	2.5	10	
A computational study of joint effects of transverse shear and streamwise acceleration on three-dimensional boundary layers. <i>International Journal of Heat and Fluid Flow</i> , 1994 , 15, 269-282	2.4	10	
Large-eddy simulations of heat transfer in asymmetric rib-roughened ducts: Effects of rotation. <i>International Journal of Heat and Fluid Flow</i> , 2017 , 68, 373-385	2.4	9	
On dynamics and secondary currents in meandering confined turbulent shallow jet. <i>International Journal of Heat and Fluid Flow</i> , 2015 , 56, 284-289	2.4	9	
Modeling the dynamics of double-diffusive scalar fields at various stability conditions. <i>International Journal of Heat and Fluid Flow</i> , 1997 , 18, 360-367	2.4	9	
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A KIVA code with Reynolds-stress model for engine flow simulation. <i>Energy</i> , 2005 , 30, 427-445	7.9	9	
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	
High-speed imaging of cavitation regimes on a round-leading-edge flat plate and NACA0015 hydrofoil. <i>Journal of Visualization</i> , 2013 , 16, 181-184	1.6	8	
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Estimation of shape factor for transient conduction. <i>International Journal of Refrigeration</i> , 2003 , 26, 360)-3,87	7	
Contribution towards modelling of two-stage reciprocating compressors. <i>International Journal of Mechanical Sciences</i> , 1977 , 19, 439-445	5.5	7	
Unstructured large eddy and conjugate heat transfer simulations of wall-bounded flows. <i>WIT Transactions on State-of-the-art in Science and Engineering</i> , 2005 , 30-68		7	
Expanding the Stability Range of a Lifted Propane Flame by Resonant Acoustic Excitation. <i>Combustion Science and Technology</i> , 2013 , 185, 1644-1666	1.5	6	
Identification and visualization of coherent structures in rayleigh-bflard convection with a time-dependent RANS. <i>Journal of Visualization</i> , 1999 , 2, 169-176	1.6	6	
	Characterization of the flame blow-off conditions in a laminar boundary layer with hydrogen injection. Combustion and Flame, 2013, 160, 1999-2008 On the Application of the LevenbergMarquardt Method in Conjunction with an Explicit RungeRutta and an Implicit Rosenbrock Method to Assess Burning Velocities from Confined Deflagrations. Flow, Turbulence and Combustion, 2013, 91, 281-317 Measurement of velocity-temperature correlations in a turbulent diffusion flame. Experiments in Fluids, 2004, 37, 364-374 A computational study of joint effects of transverse shear and streamwise acceleration on three-dimensional boundary layers. International Journal of Heat and Fluid Flow, 1994, 15, 269-282 Large-eddy simulations of heat transfer in asymmetric rib-roughened ducts: Effects of rotation. International Journal of Heat and Fluid Flow, 2017, 68, 373-385 On dynamics and secondary currents in meandering confined turbulent shallow jet. International Journal of Heat and Fluid Flow, 2015, 56, 284-289 Modeling the dynamics of double-diffusive scalar fields at various stability conditions. International Journal of Heat and Fluid Flow, 2015, 56, 284-289 Modeling the dynamics of double-diffusive scalar fields at various stability conditions. International Journal of Heat and Fluid Flow, 2015, 26, 828-842 A KIVA code with Reynolds-stress model for engine flow simulation. Energy, 2005, 30, 427-445 DNS, experimental and modelling study of axially compressed in-cylinder swirling flow. International Journal of Heat and Fluid Flow, 2000, 21, 627-639 High-speed imaging of cavitation regimes on a round-leading-edge flat plate and NACA0015 hydrofoil. Journal of Visualization, 2013, 16, 181-184 LES Investigation of the Hysteresis Regime in the Cold Model of a Rotating-Pipe Swirl Burner. Flow, Turbulence and Combustion, 2015, 94, 175-198 Estimation of shape factor for transient conduction. International Journal of Refrigeration, 2003, 26, 360 Contribution towards modelling of two-stage reciprocating compressors. International Jo	Characterization of the flame blow-off conditions in a laminar boundary layer with hydrogen injection. Combustion and Flame, 2013, 160, 1999-2008 On the Application of the LevenbergMarquardt Method in Conjunction with an Explicit RungeRutz and an Implicit Rosenbrock Method to Assess Burning Velocities from Confined Deflagrations. Flow, Turbulence and Combustion, 2013, 91, 281-317 Measurement of velocity-temperature correlations in a turbulent diffusion flame. Experiments in Fluids, 2004, 37, 364-374 A computational study of joint effects of transverse shear and streamwise acceleration on three-dimensional boundary layers. International Journal of Heat and Fluid Flow, 1994, 15, 269-282 Large-eddy simulations of heat transfer in asymmetric rib-roughened ducts: Effects of rotation. International Journal of Heat and Fluid Flow, 2017, 68, 373-385 On dynamics and secondary currents in meandering confined turbulent shallow jet. International Journal of Heat and Fluid Flow, 2015, 56, 284-289 Modeling the dynamics of double-diffusive scalar fields at various stability conditions. International Journal of Heat and Fluid Flow, 1997, 18, 360-367 Synergy of experiments and computer simulations in research of turbulent convection. International Journal of Heat and Fluid Flow, 2005, 26, 828-842 A KIVA code with Reynolds-stress model for engine flow simulation. Energy, 2005, 30, 427-445 DNS, experimental and modelling study of axially compressed in-cylinder swirling flow. International Journal of Heat and Fluid Flow, 2000, 21, 627-639 High-speed imaging of cavitation regimes on a round-leading-edge flat plate and NACA0015 hydrofoil. Journal of Heat and Fluid Flow, 2000, 21, 627-639 High-speed imaging of cavitation regimes on a round-leading-edge flat plate and NACA0015 hydrofoil. Journal of Visualization, 2015, 94, 175-198 Estimation of shape factor for transient conduction. International Journal of Refrigeration, 2003, 26, 360-387 Contribution towards modelling of two-stage reciprocating compressors. Internationa	Characterization of the flame blow-off conditions in a laminar boundary layer with hydrogen injection. Combustion and Flame, 2013, 160, 1999-2008 On the Application of the Levenberg Marquardt Method in Conjunction with an Explicit RungeRutta and an implicit Rosenbrock Method to Assess Burning Velocities from Confined Deflagrations. Flow, Turbulence and Combustion, 2013, 91, 281-317 Measurement of velocity-temperature correlations in a turbulent diffusion flame. Experiments in Fluids, 2004, 37, 364-374 A computational study of joint effects of transverse shear and streamwise acceleration on three-dimensional boundary layers. International Journal of Heat and Fluid Flow, 1994, 15, 269-282 Large-eddy simulations of heat transfer in asymmetric rib-roughened ducts: Effects of rotation. International Journal of Heat and Fluid Flow, 2017, 68, 373-385 On dynamics and secondary currents in meandering confined turbulent shallow jet. International Journal of Heat and Fluid Flow, 2015, 56, 284-289 Modeling the dynamics of double-diffusive scalar fields at various stability conditions. International Journal of Heat and Fluid Flow, 1997, 18, 360-367 Synergy of experiments and computer simulations in research of turbulent convection. A KIVA code with Reynolds-stress model for engine flow simulation. Energy, 2005, 30, 427-445 Polymoral of Heat and Fluid Flow, 2005, 26, 828-842 A KIVA code with Reynolds-stress model for engine flow simulation. Energy, 2005, 30, 427-445 Polymoral of Heat and Fluid Flow, 2005, 26, 828-842 A KIVA code with Reynolds-stress model for engine flow simulation. Energy, 2005, 30, 427-445 Polymoral of Heat and Fluid Flow, 2000, 21, 627-639 DNS, experimental and modelling study of axially compressed in-cylinder swirting flow. International Journal of Heat and Fluid Flow, 2000, 21, 627-639 DNS, experimental and modelling study of axially compressed in-cylinder swirting flow. International Journal of Heat and Fluid Flow, 2000, 21, 627-639 DNS, experimental and modelling study of axially com

15	Determining instability modes in a gas flame. <i>Technical Physics Letters</i> , 2013 , 39, 308-311	0.7	5
14	Ground Boundary Conditions for Thermal Convection Over Horizontal Surfaces at High Rayleigh Numbers. <i>Boundary-Layer Meteorology</i> , 2016 , 160, 41-61	3.4	4
13	Heat transfer in flow around a rotary oscillating cylinder at a high subcritical Reynolds number: A computational study. <i>International Journal of Heat and Fluid Flow</i> , 2019 , 79, 108441	2.4	4
12	Experimental and numerical simulation for swirl flow in a combustor. <i>Thermal Engineering (English Translation of Teploenergetika)</i> , 2013 , 60, 990-997	0.8	4
11	Cavitation on a semicircular leading-edge plate and NACA0015 hydrofoil: Visualization and velocity measurement. <i>Thermal Engineering (English Translation of Teploenergetika)</i> , 2014 , 61, 1007-1014	0.8	4
10	Simulation and identification of deterministic structures in thermal and magnetic convection. <i>Annals of the New York Academy of Sciences</i> , 2002 , 972, 19-28	6.5	4
9	On coherent structures and mixing characteristics in the near field of a rotating-pipe jet. <i>International Journal of Heat and Fluid Flow</i> , 2017 , 63, 139-148	2.4	3
8	Laboratory modeling of flow regimes in a draft tube of Francis hydro-turbine. <i>EPJ Web of Conferences</i> , 2017 , 143, 02103	0.3	2
7	Heat transfer of phase-locked modulated impinging-jet arrays. <i>Experimental Thermal and Fluid Science</i> , 2002 , 26, 299-304	3	2
6	Modeling rotating and swirling turbulent flows - A perpetual challenge. <i>AIAA Journal</i> , 2002 , 40, 1984-19	9 <u>26</u> 1	2
5	River-Induced Anomalies in Seasonal Variation of Traffic-Emitted CO Distribution over the City of Krasnoyarsk. <i>Atmosphere</i> , 2019 , 10, 407	2.7	1
4	Visualization of air flow and smoke spreading for realistic indoor-climate situations. <i>Journal of Visualization</i> , 2004 , 7, 268-268	1.6	1
3	Reassessment of modeling turbulence via Reynolds averaging: A review of second-moment transport strategy. <i>Physics of Fluids</i> , 2021 , 33, 091302	4.4	1
2	Visualization of turbulence structures reorganization in thermal convection subjected to external magnetic field. <i>Journal of Visualization</i> , 2004 , 7, 6-6	1.6	
1	Large eddy simulations of turbulent thermal convection at high Rayleigh number. <i>Journal of Visualization</i> , 2004 , 7, 105-105	1.6	