Luc Vervisch

List of Publications by Year in Descending Order

165 papers	5,757 citations	37 h-index	72 g-index
185 ext. papers	6,517 ext. citations	4.1 avg, IF	6.04 L-index

#	Paper	IF	Citations
165	Influence of a Central Jet on Isothermal and Reacting Swirling Flow in a Model Combustion Chamber. *Energies*, **2022**, 15, 1615	3.1	0
164	A conservative Eulerian-Lagrangian decomposition principle for the solution of multi-scale flow problems at high Schmidt or Prandtl numbers. *Journal of Computational Physics*, **2022**, 111216	4.1	0
163	Flameless combustion of low calorific value gases, experiments, and simulations with advanced radiative heat transfer modeling. *Physics of Fluids*, **2022**, 34, 045123	4.4	2
162	Mitigation of post-shock oscillations induced by artificial viscosity in discontinuous finite element methods. *Computers and Fluids*, **2022**, 241, 105491	2.8	
161	Prediction of ignition delay times of Jet A-1/hydrogen fuel mixture using machine learning. *Aerospace Science and Technology*, **2022**, 107675	4.9	0
160	A Comparative Study from Spectral Analyses of High-Order Methods with Non-Constant Advection Velocities. *Journal of Scientific Computing*, **2021**, 87, 1	2.3	0
159	Evaluation of a Neural Network-Based Closure for the Unresolved Stresses in Turbulent Premixed V-Flames. *Flow, Turbulence and Combustion*, **2021**, 106, 331-356	2.5	8
158	Machine learning for detailed chemistry reduction in DNS of a syngas turbulent oxy-flame with side-wall effects. *Proceedings of the Combustion Institute*, **2021**, 38, 2825-2833	5.9	6
157	Assessing multi-regime combustion in a novel burner configuration with large eddy simulations using tabulated chemistry. *Proceedings of the Combustion Institute*, **2021**, 38, 2551-2558	5.9	5
156	Progress in Clean-Combustion Science and Technology. *Flow, Turbulence and Combustion*, **2021**, 106, 293-294	2.5	
155	Solving the population balance equation for non-inertial particles dynamics using probability density function and neural networks: Application to a sooting flame. *Physics of Fluids*, **2021**, 33, 013311	4.4	4
154	Revisiting the relation between premixed flame brush thickness and turbulent burning velocities from Ken Bray's notes. *Combustion and Flame*, **2021**, 111706	5.3	
153	Machine learning for integrating combustion chemistry in numerical simulations. *Energy and AI*, **2021**, 5, 100082	12.6	4
152	One-dimensional dynamics of gaseous detonations revisited. *Combustion and Flame*, **2021**, 232, 111535	5.3	2
151	Derivation and analysis of two-dimensional composition space equations for multi-regime combustion using orthogonal coordinates. *Combustion and Flame*, **2020**, 218, 205-217	5.3	3
150	Combustion regime identification from machine learning trained by Raman/Rayleigh line measurements. *Combustion and Flame*, **2020**, 219, 268-274	5.3	11
149	Chemistry reduction using machine learning trained from non-premixed micro-mixing modeling: Application to DNS of a syngas turbulent oxy-flame with side-wall effects. *Combustion and Flame*, **2020**, 220, 119-129	5.3	22

148	Analysis of the Soot Particle Size Distribution in a Laminar Premixed Flame: A Hybrid Stochastic/Fixed-Sectional Approach. *Flow, Turbulence and Combustion*, **2020**, 104, 753-775	2.5	7
147	From Discrete and Iterative Deconvolution Operators to Machine Learning for Premixed Turbulent Combustion Modeling **2020**, 215-232		1
146	Development of reduced and optimized reaction mechanism for potassium emissions during biomass combustion based on genetic algorithms. *Energy*, **2020**, 211, 118565	7.9	3
145	Simulation of char-pellet combustion and sodium release inside porous char using lattice Boltzmann method. *Combustion and Flame*, **2020**, 211, 325-336	5.3	5
144	Entropy preserving low dissipative shock capturing with wave-characteristic based sensor for high-order methods. *Computers and Fluids*, **2020**, 197, 104357	2.8	7
143	Reduced chemical reaction mechanisms for simulating sodium emissions by solid-fuel combustion. *Applications in Energy and Combustion Science*, **2020**, 1-4, 100009	0.8	
142	A hybrid stochastic/fixed-sectional method for solving the population balance equation. *Chemical Engineering Science*, **2019**, 209, 115198	4.4	9
141	Numerical study of HCl and SO2 impact on potassium emissions in pulverized-biomass combustion. *Fuel Processing Technology*, **2019**, 193, 19-30	7.2	15
140	Numerical study of HCl and SO2 impact on sodium emissions in pulverized-coal flames. *Fuel*, **2019**, 250, 315-326	7.1	9
139	Progress Variable Variance and Filtered Rate Modelling Using Convolutional Neural Networks and Flamelet Methods. *Flow, Turbulence and Combustion*, **2019**, 103, 485-501	2.5	28
138	The role of gravity in the asymmetry of flames in narrow combustion chambers. *Combustion and Flame*, **2019**, 203, 238-246	5.3	7
137	Analysis of sub-grid scale modeling of the ideal-gas equation of state in hydrogen□oxygen premixed flames. *Proceedings of the Combustion Institute*, **2019**, 37, 2345-2351	5.9	10
136	Vitiated High Karlovitz n-decane/air Turbulent Flames: Scaling Laws and Micro-mixing Modeling Analysis. *Flow, Turbulence and Combustion*, **2019**, 102, 235-252	2.5	5
135	Measurement and kinetics of elemental and atomic potassium release from a burning biomass pellet. *Proceedings of the Combustion Institute*, **2019**, 37, 2681-2688	5.9	20
134	Alkali metal emissions in an early-stage pulverized-coal flame: DNS analysis of reacting layers and chemistry tabulation. *Proceedings of the Combustion Institute*, **2019**, 37, 2791-2799	5.9	30
133	A self-contained composition space solution method for strained and curved premixed flamelets. *Combustion and Flame*, **2019**, 207, 342-355	5.3	14
132	Direct mapping from LES resolved scales to filtered-flame generated manifolds using convolutional neural networks. *Combustion and Flame*, **2019**, 210, 71-82	5.3	30
131	Unresolved stress tensor modeling in turbulent premixed V-flames using iterative deconvolution: An a priori assessment. *Physical Review Fluids*, **2019**, 4,	2.8	6

130	A self-contained progress variable space solution method for thermochemical variables and flame speed in freely-propagating premixed flamelets. *Proceedings of the Combustion Institute*, **2019**, 37, 1529-1536	5.9	15
129	Simulating upstream flame propagation in a narrow channel after wall preheating: Flame analysis and chemistry reduction strategy. *Combustion and Flame*, **2019**, 200, 219-231	5.3	10
128	A Priori Assessment of an Iterative Deconvolution Method for LES Sub-grid Scale Variance Modelling. *Flow, Turbulence and Combustion*, **2018**, 101, 33-53	2.5	15
127	Scalar flux modeling in turbulent flames using iterative deconvolution. *Physical Review Fluids*, **2018**, 3,	2.8	11
126	Assessment of deconvolution-based flamelet methods for progress variable rate modeling. *Aeronautics and Aerospace Open Access Journal*, **2018**, 2,	0.1	1
125	Modelling alkali metal emissions in large-eddy simulation of a preheated pulverised-coal turbulent jet flame using tabulated chemistry. *Combustion Theory and Modelling*, **2018**, 22, 203-236	1.5	15
124	Selective Non-catalytic Reduction (SNCR) of Nitrogen Oxide Emissions: A Perspective from Numerical Modeling. *Flow, Turbulence and Combustion*, **2018**, 100, 301-340	2.5	31
123	Premixed flame–wall interaction in a narrow channel: impact of wall thermal conductivity and heat losses. *Journal of Fluid Mechanics*, **2018**, 856, 5-35	3.7	22
122	DNS and approximate deconvolution as a tool to analyse one-dimensional filtered flame sub-grid scale modelling. *Combustion and Flame*, **2017**, 177, 109-122	5.3	23
121	Flame resolved simulation of a turbulent premixed bluff-body burner experiment. Part I: Analysis of the reaction zone dynamics with tabulated chemistry. *Combustion and Flame*, **2017**, 180, 321-339	5.3	38
120	Flame resolved simulation of a turbulent premixed bluff-body burner experiment. Part II: A-priori and a-posteriori investigation of sub-grid scale wrinkling closures in the context of artificially thickened flame modeling. *Combustion and Flame*, **2017**, 180, 340-350	5.3	26
119	Numerical Study of Smoothly Perturbed Shocks in the Newtonian Limit. *Flow, Turbulence and Combustion*, **2017**, 99, 887-908	2.5	9
118	Automatic reduction and optimisation of chemistry for turbulent combustion modelling: Impact of the canonical problem. *Combustion and Flame*, **2017**, 175, 60-79	5.3	23
117	Auto-thermal reforming (ATR) of natural gas: An automated derivation of optimised reduced chemical schemes. *Proceedings of the Combustion Institute*, **2017**, 36, 3321-3330	5.9	10
116	Optimized Reduced Chemistry and Molecular Transport for Large Eddy Simulation of Partially Premixed Combustion in a Gas Turbine. *Combustion Science and Technology*, **2016**, 188, 21-39	1.5	17
115	Reduced-order modeling for the control of selective noncatalytic reduction of nitrogen monoxide. *AICHE Journal*, **2016**, 62, 928-938	3.6	5
114	Eulerian Scalar Projection in Lagrangian Point Source Context: An Approximate Inverse Filtering Approach. *Flow, Turbulence and Combustion*, **2016**, 97, 363-368	2.5	4
113	Effects of the Local Flow Topologies Upon the Structure of a Premixed Methane-air Turbulent Jet Flame. *Flow, Turbulence and Combustion*, **2016**, 96, 535-546	2.5	11

112	Assessment of subgrid-scale stress statistics in non-premixed turbulent wall-jet flames. *Journal of Turbulence*, **2016**, 17, 471-490	2.1	2
111	Large eddy simulation of selective non-catalytic reduction (SNCR): A downsizing procedure for simulating nitric-oxide reduction units. *Chemical Engineering Science*, **2016**, 139, 285-303	4.4	13
110	Verification of a low Mach variable-density Navier-Stokes solver for turbulent combustion. *Journal of Physics: Conference Series*, **2016**, 754, 062005	0.3	1
109	Direct numerical simulation of shock wavy-wall interaction: analysis of cellular shock structures and flow patterns. *Journal of Fluid Mechanics*, **2016**, 789, 221-258	3.7	22
108	DNS Analysis of Wall Heat Transfer and Combustion Regimes in a Turbulent Non-premixed Wall-jet Flame. *Flow, Turbulence and Combustion*, **2016**, 97, 951-969	2.5	8
107	Quantification of the Pre-ignition Front Propagation in DNS of Rapidly Compressed Mixture. *Flow, Turbulence and Combustion*, **2015**, 94, 219-235	2.5	0
106	Large Eddy Simulation of premixed turbulent combustion using approximate deconvolution and explicit flame filtering. *Proceedings of the Combustion Institute*, **2015**, 35, 1349-1357	5.9	29
105	Local volumetric dilatation rate and scalar geometries in a premixed methane–air turbulent jet flame. *Proceedings of the Combustion Institute*, **2015**, 35, 1295-1303	5.9	20
104	Model Equation for the Dynamics of Wrinkled Shockwaves: Comparison with DNS and Experiments. *Combustion Science and Technology*, **2015**, 187, 296-323	1.5	15
103	Modelling nitrogen oxide emissions in turbulent flames with air dilution: Application to LES of a non-premixed jet-flame. *Combustion and Flame*, **2014**, 161, 496-509	5.3	14
102	Reynolds Number Effects on Statistics and Structure of an Isothermal Reacting Turbulent Wall-Jet. *Flow, Turbulence and Combustion*, **2014**, 92, 931-945	2.5	6
101	Hybrid Transported-Tabulated Strategy to Downsize Detailed Chemistry for Numerical Simulation of Premixed Flames. *Flow, Turbulence and Combustion*, **2014**, 92, 175-200	2.5	17
100	A filtered-laminar-flame PDF sub-grid scale closure for LES of premixed turbulent flames. Part I: Formalism and application to a bluff-body burner with differential diffusion. *Combustion and Flame*, **2014**, 161, 1756-1774	5.3	54
99	A filtered-laminar-flame PDF sub-grid-scale closure for LES of premixed turbulent flames: II. Application to a stratified bluff-body burner. *Combustion and Flame*, **2014**, 161, 1775-1791	5.3	40
98	Two approaches of chemistry downsizing for simulating selective non catalytic reduction DeNOx process. *Fuel*, **2014**, 118, 291-299	7.1	23
97	An optimization-based approach to detailed chemistry tabulation: Automated progress variable definition. *Combustion and Flame*, **2013**, 160, 776-785	5.3	61
96	Immersed Boundaries in Large Eddy Simulation of Compressible Flows. *Flow, Turbulence and Combustion*, **2013**, 90, 29-68	2.5	24
95	Heat release effects on mixing scales of non-premixed turbulent wall-jets: A direct numerical simulation study. *International Journal of Heat and Fluid Flow*, **2013**, 40, 65-80	2.4	7

94	Using staggered grids with characteristic boundary conditions when solving compressible reactive Navier–Stokes equations. *International Journal for Numerical Methods in Fluids*, **2012**, 68, 546-563	1.9	6
93	Self-ignition scenarios after rapid compression of a turbulent mixture weakly-stratified in temperature. *Combustion and Flame*, **2012**, 159, 3358-3371	5.3	16
92	Large Eddy Simulation of turbulent flames in a Trapped Vortex Combustor (TVC) – A flamelet presumed-pdf closure preserving laminar flame speed. *Comptes Rendus - Mecanique*, **2012**, 340, 917-932	2.1	18
91	A multi-zone self-similar chemistry tabulation with application to auto-ignition including cool-flames effects. *Fuel*, **2012**, 91, 87-92	7.1	11
90	Mixing time-history effects in Large Eddy Simulation of non-premixed turbulent flames: Flow-Controlled Chemistry Tabulation. *Combustion and Flame*, **2012**, 159, 336-352	5.3	21
89	A massively parallel solution strategy for efficient thermal radiation simulation. *Journal of Physics: Conference Series*, **2012**, 369, 012017	0.3	2
88	Analysis of combustion modeling tools using DNS of a non-premixed turbulent wall-jet **2012**,		2
87	Composition-space premixed flamelet solution with differential diffusion for in situ flamelet-generated manifolds. *Combustion and Flame*, **2011**, 158, 2009-2016	5.3	33
86	Flow streamline based Navier–Stokes Characteristic Boundary Conditions: Modeling for transverse and corner outflows. *Computers and Fluids*, **2011**, 51, 115-126	2.8	11
85	Hybrid presumed pdf and flame surface density approaches for Large-Eddy Simulation of premixed turbulent combustion. *Combustion and Flame*, **2011**, 158, 1201-1214	5.3	27
84	Hybrid presumed pdf and flame surface density approaches for Large-Eddy Simulation of premixed turbulent combustion. Part 2: Early flame development after sparking. *Combustion and Flame*, **2011** , 158, 1215-1226	5.3	10
83	From Large-Eddy Simulation to Direct Numerical Simulation of a lean premixed swirl flame: Filtered laminar flame-PDF modeling. *Combustion and Flame*, **2011**, 158, 1340-1357	5.3	176
82	A new LES model coupling flame surface density and tabulated kinetics approaches to investigate knock and pre-ignition in piston engines. *Proceedings of the Combustion Institute*, **2011**, 33, 3105-3114	5.9	32
81	Design of a massively parallel CFD code for complex geometries. *Comptes Rendus - Mecanique*, **2011** , 339, 141-148	2.1	125
80	Scalar sub-grid energy in large-eddy simulation of turbulent flames: mesh quality criterion. *ERCOFTAC Series*, **2011**, 201-210	0.1	1
79	Immersed Boundaries in Large-Eddy Simulation of a transonic cavity flow. *ERCOFTAC Series*, **2011**, 119-124	2.1	
78	Gradient and Counter-Gradient Modeling in Premixed Flames: Theoretical Study and Application to the LES of a Lean Premixed Turbulent Swirl-Burner. *Combustion Science and Technology*, **2010**, 182, 465-479	1.5	24
77	Self-similar behavior and chemistry tabulation of burnt-gas diluted premixed flamelets including heat-loss. *Combustion Theory and Modelling*, **2010**, 14, 541-570	1.5	18

76	Estimation of three-dimensional flame surface densities from planar images in turbulent premixed combustion. *Experiments in Fluids*, **2010**, 49, 267-278	2.5	35
75	Large eddy simulation of forced ignition of an annular bluff-body burner. *Combustion and Flame*, **2010**, 157, 579-601	5.3	62
74	Multidimensional flamelet-generated manifolds for partially premixed combustion. *Combustion and Flame*, **2010**, 157, 43-61	5.3	168
73	Scalar energy fluctuations in Large-Eddy Simulation of turbulent flames: Statistical budgets and mesh quality criterion. *Combustion and Flame*, **2010**, 157, 778-789	5.3	29
72	A WALE-Similarity Mixed Model for Large-Eddy Simulation of Wall Bounded Compressible Turbulent Flows. *ERCOFTAC Series*, **2010**, 563-569	0.1	
71	A compressible wall-adapting similarity mixed model for large-eddy simulation of the impinging round jet. *Physics of Fluids*, **2009**, 21, 035102	4.4	40
70	Tabulation of NOx chemistry for Large-Eddy Simulation of non-premixed turbulent flames. *Proceedings of the Combustion Institute*, **2009**, 32, 1555-1561	5.9	37
69	Turbulent flame spreading mechanisms after spark ignition **2009**,		2
68	Using self-similar properties of turbulent premixed flames to downsize chemical tables in high-performance numerical simulations. *Combustion Theory and Modelling*, **2008**, 12, 1055-1088	1.5	12
67	Large-eddy simulation of H2□ir auto-ignition using tabulated detailed chemistry. *Journal of Turbulence*, **2008**, 9, N13	2.1	15
66	Large-eddy simulation of a fuel-lean premixed turbulent swirl-burner. *Combustion and Flame*, **2008**, 155, 247-266	5.3	129
65	Three-dimensional boundary conditions for direct and large-eddy simulation of compressible viscous flows. *Journal of Computational Physics*, **2008**, 227, 5105-5143	4.1	182
64	Large-eddy simulation of a lifted methane jet flame in a vitiated coflow. *Combustion and Flame*, **2008**, 152, 415-432	5.3	220
63	Reliability of Large-Eddy Simulation of Nonpremixed Turbulent Flames: Scalar Dissipation Rate Modeling and 3D-Boundary Conditions. *ERCOFTAC Series*, **2008**, 227-237	0.1	
62	CHEMICAL IMPACT OF CO AND H2 ADDITION ON THE AUTO-IGNITION DELAY OF HOMOGENEOUS N-HEPTANE/AIR MIXTURES. *Combustion Science and Technology*, **2007**, 179, 1937-1962	1.5	19
61	New Developments in Turbulent Combustion Modeling for Engine Design: ECFM-CLEH Combustion Submodel **2007**,		21
60	Modeling Engine Turbulent Auto-Ignition Using Tabulated Detailed Chemistry **2007**,		16
59	DNS of partially premixed flame propagating in a turbulent rotating flow. *Proceedings of the Combustion Institute*, **2007**, 31, 1657-1664	5.9	10

58	A flame stability diagram for piloted non-premixed oxycombustion of low calorific residual gases. *Proceedings of the Combustion Institute*, **2007**, 31, 3385-3392	5.9	19
57	A turbulent-energy based mesh refinement procedure for Large Eddy Simulation. *Springer Proceedings in Physics*, **2007**, 413-415	0.2	1
56	Quality assessment of inlet boundary conditions and domain size for fully compressible LES of wall-jet turbulent mixing **2007**, 739-739		
55	Two recent developments in numerical simulation of premixed and partially premixed turbulent flames. *Comptes Rendus - Mecanique*, **2006**, 334, 523-530	2.1	2
54	Modeling subgrid scale mixture fraction variance in LES of evaporating spray. *Combustion and Flame*, **2006**, 146, 635-648	5.3	90
53	Analysis of weakly turbulent dilute-spray flames and spray combustion regimes. *Journal of Fluid Mechanics*, **2005**, 537, 317	3.7	141
52	Premixed turbulent combustion modeling using tabulated detailed chemistry and PDF. *Proceedings of the Combustion Institute*, **2005**, 30, 867-874	5.9	90
51	Approximating the chemical structure of partially premixed and diffusion counterflow flames using FPI flamelet tabulation. *Combustion and Flame*, **2005**, 140, 147-160	5.3	188
50	Role of the progress variable in models for partially premixed turbulent combustion. *Combustion and Flame*, **2005**, 141, 431-437	5.3	110
49	DNS of a premixed turbulent V flame and LES of a ducted flame using a FSD-PDF subgrid scale closure with FPI-tabulated chemistry. *Combustion and Flame*, **2005**, 143, 566-586	5.3	139
48	DNS of premixed turbulent V-flame: coupling spectral and finite difference methods. *Comptes Rendus - Mecanique*, **2005**, 333, 95-102	2.1	3
47	DNS analysis of partially premixed combustion in spray and gaseous turbulent flame-bases stabilized in hot air. *Combustion and Flame*, **2005**, 140, 172-195	5.3	125
46	Three facets of turbulent combustion modelling: DNS of premixed V-flame, LES of lifted nonpremixed flame and RANS of jet-flame. *Journal of Turbulence*, **2004**, 5,	2.1	72
45	Hydrogen Sulphur oxy-flame analysis and single-step flame tabulated chemistry. *Fuel*, **2004**, 83, 605-614	7.1	21
44	Large eddy simulation of turbulent flows in reversing systems. *Journal of Turbulence*, **2003**, 4,	2.1	11
43	Effects of heat release in laminar diffusion flames lifted on round jets. *Combustion and Flame*, **2003**, 134, 355-368	5.3	59
42	Combustion of residual steel gases: laminar flame analysis and turbulent flamelet modeling?. *Fuel*, **2003**, 82, 983-991	7.1	17
41	Modeling Partially Premixed Turbulent Combustion. *Notes on Numerical Fluid Mechanics and Multidisciplinary Design*, **2003**, 139-158	0.3	

40	Turbulent combustion modeling. *Progress in Energy and Combustion Science*, **2002**, 28, 193-266	33.6	642
39	Diffusion edge-flame: approximation of the flame tip Damköhler number. *Combustion and Flame*, **2002**, 130, 1-14	5.3	27
38	LES of Partially Premixed Combustion. *Fluid Mechanics and Its Applications*, **2002**, 235-249	0.2	
37	Diffusion Edge-Flame Quenching. *Fluid Mechanics and Its Applications*, **2002**, 161-168	0.2	
36	Partially premixed flamelets in LES of nonpremixed turbulent combustion. *Combustion Theory and Modelling*, **2002**, 6, 529-551	1.5	121
35	Partial premixing in diffusion flame quenching. *ZAMM Zeitschrift Fur Angewandte Mathematik Und Mechanik*, **2001**, 81, 525-526	1	
34	Stability diagram for lift-off and blowout of a round jet laminar diffusion flame. *Combustion and Flame*, **2001**, 124, 646-655	5.3	49
33	Edge flames and partially premixed combustion in diffusion flame quenching. *Combustion and Flame*, **2001**, 125, 788-803	5.3	75
32	Estimation of the accuracy of PIV treatments for turbulent flow studies by direct numerical simulation of multi-phase flow. *Measurement Science and Technology*, **2001**, 12, 1382-1391	2	53
31	Modeling partially premixed turbulent combustion **2001**, 161-180		1
30	Partially-Premixed Combustion during Autoignition of a Turbulent Nonpremixed Flame. *ERCOFTAC Series*, **2001**, 121-128	0.1	2
29	Spray vaporization in nonpremixed turbulent combustion modeling: a single droplet model. *Combustion and Flame*, **2000**, 121, 75-90	5.3	134
28	Using numerics to help the understanding of non-premixed turbulent flames. *Proceedings of the Combustion Institute*, **2000**, 28, 11-24	5.9	44
27	Interlinks between approaches for modeling turbulent flames. *Proceedings of the Combustion Institute*, **2000**, 28, 175-183	5.9	13
26	3-D CFD Analysis of the Combustion Process in a DI Diesel Engine using a Flamelet Model **2000**,		12
25	Theoretical and numerical study of a symmetrical triple flame using the parabolic flame path approximation. *Journal of Fluid Mechanics*, **2000**, 415, 227-260	3.7	67
24	Large Eddy Simulation of compressible turbulent flows **1999**,		2
23	DNS and Modeling of Spray Turbulent Mixing. *Fluid Mechanics and Its Applications*, **1999**, 167-177	0.2	

22	DNS to Help Understanding of Non-Premixed Turbulent Flames. *Fluid Mechanics and Its Applications* , **1999**, 49-59	0.2	
21	Investigating the effects of edge flames in liftoff in non-premixed turbulent combustion. *Proceedings of the Combustion Institute*, **1998**, 27, 1239-1245		35
20	DIRECT NUMERICAL SIMULATION OF NON-PREMIXED TURBULENT FLAMES. *Annual Review of Fluid Mechanics*, **1998**, 30, 655-691	22	188
19	Modeling non-premixed turbulent combustion in aeronautical engines using PDF-generator **1998**,		6
18	DNS study of spray vaporization and turbulent micro-mixing **1998**,		10
17	Subgrid-Scale Turbulent Micromixing: Dynamic Approach. *AIAA Journal*, **1998**, 36, 336-341	2.1	27
16	Subgrid-scale turbulent micromixing - Dynamic approach. *AIAA Journal*, **1998**, 36, 336-341	2.1	22
15	Numerical Simulation of Combustion in Partially Premixed Turbulent Flows **1998**, 203-221		
14	Numerical Simulation of Combustion in Partially Premixed Turbulent Flows. *Notes on Numerical Fluid Mechanics*, **1998**, 203-221		
13	Dynamic Subgrid Pdf Modeling for Nonpremixed Turbulent Combustion. *ERCOFTAC Series*, **1997**, 311-320	0.1	3
12	Autoignition of Nonpremixed Turbulent Mixtures: Partially Premixed Combustion. *ERCOFTAC Series* , **1997**, 331-341	0.1	
11	Dynamics of isoconcentration surfaces in weak shock turbulent mixing interaction **1996**,		1
10	Quelques aspects de la modélisation numérique appliquée à la combustion turbulente. *Revue Europeenne Des Elements*, **1996**, 5, 161-196		
9	Triple flames and partially premixed combustion in autoignition of non-premixed turbulent mixtures. *Proceedings of the Combustion Institute*, **1996**, 26, 233-240		87
8	Response of the dynamic LES model to heat release induced effects. *Physics of Fluids*, **1996**, 8, 2248-2250	4.4	43
7	Dynamics of isoconcentration surfaces in weak shock turbulent mixing interaction. *AIAA Journal*, **1996**, 34, 2539-2544	2.1	
6	Surface density function in premixed turbulent combustion modeling, similarities between probability density function and flame surface approaches. *Physics of Fluids*, **1995**, 7, 2496-2503	4.4	118
5	Effects of heat release on triple flames. *Physics of Fluids*, **1995**, 7, 1447-1454	4.4	337

4	Two-dimensional weak shock-vortex interaction in a mixing zone. *AIAA Journal*, **1995**, 33, 1797-1802	2.1	39
3	Finite-rate chemistry and transient effects in direct numerical simulations of turbulent nonpremixed flames. *Combustion and Flame*, **1995**, 102, 285-297	5.3	56
2	The Calculation of Local Fluctuations in Non Premixed Turbulent Flames **1991**, 83-113		1
1	Analysis of High-order Explicit LES Dynamic Modeling Applied to Airfoil Flows. *Flow, Turbulence and Combustion*,1	2.5	0