

CITATION REPORT

List of articles citing

Laminar diffusion flamelet models in non-premixed turbulent combustion

DOI: 10.1016/0360-1285(84)90114-x

Progress in Energy and Combustion Science, 1984, 10, 319-339

Source: <https://exaly.com/paper-pdf/17064388/citation-report.pdf>

Version: 2024-04-26

This report has been generated based on the citations recorded by exaly.com for the above article. For the latest version of this publication list, visit the link given above.

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

#	Paper	IF	Citations
1626	Measurements and predictions of scalar dissipation in turbulent jet flames. 1985 , 20, 345-352		8
1625	Partially premixed diffusion flamelets in non-premixed turbulent combustion. 1985 , 20, 353-360		28
1624	Calculation of the structure and extinction limit of a methane-air counterflow diffusion flame in the forward stagnation region of a porous cylinder. 1985 , 20, 1893-1904		70
1623	Criteria for turbulent propagation limits of premixed flames. 1985 , 62, 61-68		121
1622	Experimental and theoretical investigation of partially premixed diffusion flames at extinction. 1985 , 61, 237-249		57
1621	Laminar flamelet modelling of turbulent combustion. 1985 , 1-19		3
1620	Laser Measurements on Nonpremixed & Air Flames for Assessment of Turbulent Combustion Models. 1986 , 24, 905-917		58
1619	Modelling of Turbulent Methane-Air Diffusion Flames: The Laminar-Flamelet Model. 1986 , 90, 1005-1010		7
1618	Comparison of CARS Measurements and Calculations of the Structure of Laminar Methane-Air Counterflow Diffusion Flames. 1986 , 90, 1010-1015		10
1617	Extinction of diffusion flames burning diluted methane and diluted propane in diluted air. 1986 , 65, 137-150		134
1616	The effect of strain rate on a premixed laminar flame. 1986 , 64, 203-217		60
1615	Velocity, temperature, and species characteristics of the flow in a gas-turbine combustor. 1986 , 64, 1-32		92
1614	Major species production by diffusion flames in a two-layer compartment fire environment. 1986 , 10, 47-56		72
1613	Numerical Simulation of Turbulent Flame Structure with Non-unity Lewis Number. 1987 , 53, 339-375		69
1612	Vortex-scalar element calculations of a diffusion flame stabilized on a plane mixing layer. 1987 ,		1
1611	Flame sheet starting estimates for counterflow diffusion flame problems. 1987 , 73, 267-288		43
1610	Reaction models for simulation of the oxidation of carbon monoxide in turbulent diffusion flames. 1987 , 10, 43-55		3

1609	The structure of diffusion flames burning pure, binary, and ternary solutions of methanol, heptane, and toluene. 1987 , 68, 295-307	60
1608	The computation of stretched laminar methane-air diffusion flames using a reduced four-step mechanism. 1987 , 68, 17-29	210
1607	The spontaneous raman scattering technique applied to nonpremixed flames of methane. 1987 , 67, 189-206	133
1606	Superequilibrium and thermal nitric oxide formation in turbulent diffusion flames. 1987 , 69, 347-365	117
1605	The evolution of surfaces in turbulence. 1988 , 26, 445-469	339
1604	Scalar dissipation measurements in the developing region of a jet. 1988 , 74, 147-160	55
1603	Turbulent nonpremixed flames of methane near extinction: Probability density functions. 1988 , 73, 261-285	76
1602	Finite chemical kinetic effects in a subsonic turbulent hydrogen flame. 1988 , 73, 195-206	64
1601	Asymptotic structure and extinction of methane-air diffusion flames. 1988 , 73, 23-44	171
1600	Conditional probability density functions measured in turbulent nonpremixed flames of methane near extinction. 1988 , 74, 267-284	36
1599	Turbulent combustion modelling. <i>Progress in Energy and Combustion Science</i> , 1988 , 14, 245-292	33.6 377
1598	Laminar flamelet concepts in turbulent combustion. 1988 , 21, 1231-1250	672
1597	Flame extinction in a temporally developing mixing layer. 1988 , 21, 1251-1261	10
1596	Turbulent non-premixed flames of hydrocarbon fuels near extinction: mean structure from probe measurements. 1988 , 21, 1511-1520	20
1595	Turbulent non-premixed combustion in partially premixed diffusion flamelets with detailed chemistry. 1988 , 21, 1533-1541	25
1594	Stretched laminar flamelet analysis of turbulents H2 and CO/H2/N2 diffusion flames. 1988 , 21, 1579-1589	19
1593	Cars measurements and computations of the structure of laminar stagnation-point methane-air counterflow diffusion flames. 1988 , 21, 1729-1736	10
1592	A comparison between numerical calculations and experimental measurements of the structure of a counterflow diffusion flame burning diluted methane in diluted air. 1988 , 21, 1783-1792	140

1591	The Calculation of the Structure of Laminar Counterflow Diffusion Flames Using a Global Reaction Mechanism. 1988 , 61, 31-49	28
1590	Stretched Laminar Flamelet Modeling of a Turbulent Jet Diffusion Flame. 1988 , 60, 287-318	28
1589	Extinction of Strained Premixed Propane-air Flames with Complex Chemistry. 1988 , 60, 267-285	75
1588	Lagrangian simulation of a reacting mixing layer at low heat release. 1988 , 26, 690-697	15
1587	Structure of Laminar Opposed-flow Diffusion Flames With CO/H ₂ /N ₂ Fuel. 1988 , 61, 187-224	59
1586	Turbulent Structure of a Diffusion Flame in Grid Turbulence. 1988 , 59, 423-442	5
1585	Particulate Formation and Flame Structure in Diesel Engines. 1989 ,	2
1584	How to attack complex gas phase combustion systems. 1989 , 78, 13-41	2
1583	Thermal NO _x in stretched laminar opposed-flow diffusion flames with CO/H ₂ /N ₂ fuel. 1989 , 76, 151-167	86
1582	Importance of isothermal mixing processes to the understanding of lift-off and blowout of turbulent jet diffusion flames. 1989 , 76, 197-212	56
1581	Model-free simulations of turbulent reactive flows. <i>Progress in Energy and Combustion Science</i> , 1989 , 15, 1-107	33.6 193
1580	Weak homogeneous burning in front of a carbon surface. 1989 , 22, 47-57	3
1579	Flowfield modelling of soot formation at elevated pressure. 1989 , 22, 413-423	62
1578	The structure of turbulent nonpremixed flames. 1989 , 22, 475-488	225
1577	The importance of time-dependent flame structures in stretched laminar flamelet models for turbulent jet diffusion flames. 1989 , 22, 589-597	61
1576	Non-premixed turbulent CO/H ₂ flames at local extinction conditions. 1989 , 22, 599-606	7
1575	Spontaneous raman measurements in turbulent Co/H ₂ /N ₂ flames near extinction. 1989 , 22, 607-618	13
1574	Near-field instantaneous flame and fuel concentration structures. 1989 , 22, 627-634	7

1573	Direct numerical simulations of a two-dimensional reacting, spatially developing mixing layer by a spectral-element method. 1989 , 22, 635-643	3
1572	Finite chemical reaction rate and local equilibrium effects in turbulent hydrogen-air diffusion flames. 1989 , 22, 655-664	6
1571	Scalar dissipation rates in turbulent jets and jet diffusion flames. 1989 , 22, 693-700	53
1570	Assessment of theories for the behavior and blowout of lifted turbulent jet diffusion flames. 1989 , 22, 809-816	119
1569	Dynamics of stretched flames. 1989 , 22, 1381-1402	234
1568	Structure and extinction limits of counterflow diffusion flames of hydrogen-nitrogen mixtures in air. 1989 , 22, 1461-1470	16
1567	The structure and extinction of partially premixed flames burning methane in air. 1989 , 22, 1555-1563	16
1566	Nonpremixed bluff-body burner flow and flame imaging study. 1989 , 8, 216-228	19
1565	Diffusion-Controlled Reaction in a Vortex Field. 1989 , 66, 293-317	6
1564	Combustion of low calorific value gases; Problems and prospects. <i>Progress in Energy and Combustion Science</i> , 1989 , 15, 109-129	33.6 47
1563	Raman/LV measurements and modeling in a CO/H ₂ /N ₂ flame at high Reynolds number. 1989 ,	0
1562	A numerical study of propagating premixed turbulent flames. 1989 , 395-406	3
1561	Turbulent premixed combustion: Further discussions on the scales of fluctuations. 1990 , 80, 304-312	77
1560	Straining and scalar dissipation on material surfaces in turbulence: Implications for flamelets. 1990 , 79, 340-365	107
1559	Effect of compressibility on strain in forward stagnation region. 1990 , 6, 93-96	
1558	Direct simulation of an isothermal nonpremixed flame in homogeneous turbulent shear flow. 1990 ,	
1557	Flame Propagation in a Nonuniform Mixture: Analysis of a Propagating Triple-Flame. 1991 , 80, 23-46	100
1556	Simultaneous Raman scattering and laser-induced fluorescence for multispecies imaging in turbulent flames. 1991 , 16, 858-60	12

1555	Formulation of the premixed and nonpremixed test problems. 1991 , 1-28	93
1554	Lagrangian model simulations of molecular mixing, including finite rate chemical reactions, in a temporally developing shear layer. 1991 , 3, 1300-1311	20
1553	Structure of the Reaction Zone in a Reacting Mixing Layer. 1991 , 220-236	
1552	Numerical Modeling of Laminar Diffusion Flames. 1991 , 183-223	2
1551	Simulation of Partially Premixed Methane-Air Counterflow-Diffusion Flames and Comparison with Experimental Results. 1991 , 145-160	
1550	Nonequilibrium chemistry and flamelet modeling of nonpremixed turbulent reacting flows. 1991 , 10, 211-212	
1549	A flamelet calculation of benzene formation in coflowing laminar diffusion flames. 1991 , 23, 559-566	11
1548	Computations of turbulent combustion: Progress and challenges. 1991 , 23, 591-612	264
1547	Predictions of a turbulent reacting jet in a cross-flow. 1991 , 84, 361-375	50
1546	An integral method for mixing, chemical reactions, and extinction in unsteady strained diffusion layers. 1991 , 83, 207-220	12
1545	Turbulent mixing model based on ordered pairing. 1991 , 83, 27-42	39
1544	Nitric oxide levels of jet diffusion flames: Effects of coaxial air and other mixing parameters. 1991 , 23, 281-288	50
1543	Structure of laminar flames. 1991 , 23, 305-324	86
1542	A lagrangian simulation of flamelet extinction and re-ignition in turbulent jet diffusion flames. 1991 , 23, 693-698	51
1541	Sensitivity analysis based reduction of complex reaction mechanisms in turbulent non-premixed combustion. 1991 , 23, 767-774	4
1540	Modelling soot formation and thermal radiation in buoyant turbulent diffusion flames. 1991 , 23, 1533-1541	49
1539	Modelling Soot Formation in Non-premixed KerosineAir Flames. 1991 , 75, 211-226	26
1538	SHORT COMMUNICATION. 1991 , 75, 339-345	2

1537	Overview of asymptotics for methane flames. 1991 , 68-85	9
1536	Dynamics of Deflagrations and Reactive Systems: Flames. 1991 ,	1
1535	Length Scales in Laminar and Turbulent Flames. 1991 , 155-182	4
1534	Comparison between Experimental Measurements and Numerical Calculations of the Structure of Heptane-Air Diffusion Flames. 1991 , 79, 293-310	50
1533	Temperature Dissipation Measurements in a Lifted Turbulent Diffusion Flame. 1991 , 79, 1-34	17
1532	Numerical simulation of the transient ignition regime of a turbulent diffusion flame. 1991 , 29, 848-851	14
1531	Strained Propane-Air Flames With Detailed and Reduced Kinetic Schemes. 1991 , 76, 287-309	9
1530	Numerical Solutions of the Incompressible Navier-Stokes Equations with Boundary Conditions Switching. 1991 , 29, 851-853	2
1529	Preferential Thermal and Multicomponent Species Transport Effects in Strained Diffusion Flames. 1992 , 30, 2982-2985	1
1528	The Influence of the Temperature on Extinction and Ignition Limits of Strained Hydrogen-Air Diffusion Flames. 1992 , 86, 67-85	64
1527	CARS Measurements and Numerical Simulation Results for Methane/Air Counterflow Flames. 1992 , 96, 579-585	4
1526	Comparison of reaction zones in turbulent lifted diffusion flames to stretched laminar flamelets. 1992 ,	
1525	Prediction of gas turbine combustor flow by a finite element code. 1992 ,	
1524	Reactant conversion in homogeneous turbulence: Mathematical modeling, computational validations, and practical applications. 1992 , 4, 79-93	13
1523	Structure of equilibrium reaction rate fields in turbulent jet diffusion flames. 1992 , 24, 295-301	11
1522	Computational and experimental study of OH and CH radicals in axisymmetric laminar diffusion flames. 1992 , 24, 813-821	50
1521	Modelling laminar two-phase counterflow flames with detailed chemistry and transport. 1992 , 24, 1513-1521	31
1520	Scaling of nitric oxide emissions from buoyancy-dominated hydrocarbon turbulent-jet diffusion flames. 1992 , 24, 385-393	20

1519	On the stabilization of flames on multijet industrial burners. 1992 , 5, 736-746	4
1518	Numerical modeling of axisymmetric laminar diffusion flames. 1992 , 4, 46-79	16
1517	Mixing and chemical reaction in sheared and nonsheared homogeneous turbulence. 1992 , 10, 273-297	14
1516	Laser measurements of scalars in turbulent diffusion flames. <i>Progress in Energy and Combustion Science</i> , 1992 , 18, 463-491	33.6 19
1515	Universal definitions of mixture fractions and progress variables for arbitrary states of premixing. 1992 , 88, 83-101	4
1514	Extinction and temperature characteristics of turbulent counterflow diffusion flames with partial premixing. 1992 , 91, 40-54	69
1513	The effect of strain on laminar diffusion flames of chlorinated hydrocarbons. 1993 , 92, 187-196	13
1512	Calculation of turbulent combustion of propane in furnaces. 1993 , 17, 221-239	11
1511	Direct measurement of mixture fraction in reacting flow using Rayleigh scattering. 1993 , 15-15, 247-254	3
1510	Structures of Flow and Mixture-Fraction Fields for Counterflow Diffusion Flames with Small Stoichiometric Mixture Fractions. 1993 , 53, 1551-1566	40
1509	Direct numerical simulation of reversible and irreversible chemical reactions in turbulent nonpremixed flames. 1993 ,	
1508	An investigation of closure models for nonpremixed turbulent reacting flows. 1993 ,	1
1507	Effect of Variable Strain on the Dynamics of Diffusion Flame Ignition. 1993 , 91, 73-94	29
1506	Johnson-Edgeworth Translation for Probability Modeling of Binary Scalar Mixing in Turbulent Flows. 1993 , 91, 21-52	30
1505	Experimental and Theoretical Studies on Soot Formation in an Ethylene Jet Flame. 1993 , 93, 375-386	2
1504	Transient Behavior of Simplified Reaction Mechanisms for Methane Nonpremixed Combustion. 1993 , 92, 313-347	9
1503	Comparison of Experimental and Computed Species Concentration and Temperature Profiles in Laminar, Two-Dimensional Methane/Air Diffusion Flames. 1993 , 90, 1-34	72
1502	Dynamics of Laminar Counterflow Hydrogen-Air Diffusion Flames near Extinction and Ignition Limits. 1993 , 173-187	

1501	New Flamelet Approach to Model the Transient Phenomena Following Ignition in a Turbulent Diffusion Flame. 1993 , 331-343	
1500	2D-Diagnostics in Industrial Devices. 1993 , 97, 1650-1660	11
1499	Structure of a Turbulent Reacting Mixing Layer. 1994 , 99, 1-36	36
1498	The Non-Equilibrium Structure of a Trichloro-ethene Methane Laminar Diffusion Flame. 1994 , 101, 349-359	1
1497	Investigation of closure models for nonpremixed turbulent reacting flows. 1994 , 6, 1331-1356	79
1496	Efficient calculations of gas radiation from turbulent flames. 1994 , 37, 2745-2750	23
1495	Simultaneous no and temperature imaging measurements in turbulent nonpremixed flames. 1994 , 25, 1149-1157	10
1494	Numerical simulation of local extinction effects in turbulent combustor flows of methane and air. 1994 , 25, 1283-1291	25
1493	Conditional moment closure and large-scale fluctuations of scalar dissipation. 1994 , 28, 630-637	17
1492	Temperature and soot volume fraction in turbulent diffusion flames: Measurements of mean and fluctuating values. 1994 , 96, 275-285	59
1491	Measurements of scalar dissipation in the reaction zones of turbulent nonpremixed H ₂ -air flames. 1994 , 99, 775-783	70
1490	The application of new combustion and turbulence models to H ₂ -air nonpremixed supersonic combustion. 1994 , 99, 440-448	23
1489	Assessment of The Stretched Laminar Flamelet Approach For Nonpremixed Turbulent Combustion. 1994 , 100, 95-122	32
1488	Partially premixed turbulent flame propagation in jet flames. 1994 , 25, 1099-1106	111
1487	A lagrangian model for predicting turbulent diffusion flames with chemical kinetic effects. 1994 , 25, 1107-1113	22
1486	Chemical Kinetic Modeling of Combustion from 1969 to 2019. 1994 , 98, 265-279	16
1485	Nonequilibrium structure of H ₂ -air combustion in turbulent jets. 1994 ,	
1484	Sensitivity study of turbulent reacting flow modeling in gas turbine combustors. 1994 ,	2

1483	Current Progress and Future Trends in Turbulent Combustion. 1994 , 98, 245-264	22
1482	The Asymptotic Structure of Methanol-Air Diffusion Flames. 1994 , 97, 193-218	5
1481	Modelling Soot Formation for Turbulent Flame Prediction. 1994 , 551-568	3
1480	Modeling of Local Extinction in Turbulent Flames. 1994 ,	2
1479	Interpretation of turbulent mixing using fractals and multifractals. 1995 , 50, 381-400	64
1478	The asymptotic structure of nonpremixed methane-air flames with oxidizer leakage of order unity. 1995 , 101, 69-80	12
1477	The asymptotic structure of inhibited nonpremixed methane-air flames. 1995 , 101, 271-286	18
1476	Nonpremixed turbulent reacting flow near extinction. 1995 , 101, 501-528	34
1475	Nonpremixed flames in stagnating turbulence part II: The $k-\epsilon$ theory with equilibrium chemistry for the methane-air system. 1995 , 102, 341-356	16
1474	Stretched laminar flamelet modeling of turbulent chloromethane-air nonpremixed jet flames. 1995 , 103, 328-338	7
1473	Numerical Investigation of Soot Formation and Oxidation Under Diesel Engine Conditions. 1995 ,	62
1472	Flow field effects in partially premixed counterflow spray flames. 1995 ,	
1471	The Structure of Nonpremixed Hydrogen-Air Flames*. 1995 , 104, 427-439	33
1470	Extinction Dynamics of Partially Premixed Spray Flames. 1995 , 12,	1
1469	Sensitivity study of turbulent reacting flow modeling in gas turbine combustors. 1995 , 33, 1857-1864	10
1468	Unsteady flamelet modeling of pollutant emission in diffusion flame. 1995 ,	
1467	Unsteady counterflowing strained diffusion flames: diffusion-limited frequency response. 1996 , 318, 1	155
1466	Experimental study of the fine-scale structure of conserved scalar mixing in turbulent shear flows. Part 1. Sc [Gt] 1. 1996 , 317, 21-71	145

1465	MODELING OF THE FLUCTUATIONS AND THE FREQUENCY-SPECTRA OF REACTANTS IN TURBULENT SCALAR MIXING LAYERS. 1996 , 154, 147-181	3
1464	Modelling and Simulation of Autoignition Under Simulated Diesel-Engine Conditions. 1996 , 113, 205-219	21
1463	Structure of nonpremixed reaction zones in numerical isotropic turbulence. 1996 , 8, 201-218	14
1462	Three-Dimensional Modeling of NO _x and Soot Formation in DI-Diesel Engines Using Detailed Chemistry Based on the Interactive Flamelet Approach. 1996 ,	139
1461	Modeling of Local Extinction in Turbulent Flames. 1996 , 118, 292-307	
1460	Asymptotic and numerical study of diffusion flames with variable Lewis number and finite rate chemistry. 1996 , 104, 111-137	52
1459	Assessment of turbulent combustion submodels using the linear Eddy model. 1996 , 104, 343-357	10
1458	Turbulence modulation in jet diffusion flames: Modeling and experiments. 1996 , 106, 301-317	34
1457	Flamelet and PDF modeling of CO and NO _x emissions from a turbulent, methane hydrogen jet nonpremixed flame. 1996 , 26, 2207-2214	10
1456	Analysis of turbulence-chemistry interaction with respect to soot formation in turbulent, nonpremixed hydrogen-air flames. 1996 , 26, 2215-2222	12
1455	Flamelet modeling of soot formation in laminar ethyne/air-diffusion flames. 1996 , 26, 2369-2377	26
1454	A numerical study on flame stability at the transition point of jet diffusion flames. 1996 , 26, 27-34	259
1453	Flamelet behavior in a turbulent diffusion flame measured by rayleigh scattering image velocimetry. 1996 , 26, 339-346	6
1452	Multistep asymptotic analyses of flame structures. 1996 , 26, 831-846	44
1451	Ignition delay associated with a strained fuel strip. 1996 , 26, 1095-1102	3
1450	Experimental study of the inhibition of premixed and diffusion flames by iron pentacarbonyl. 1996 , 26, 1421-1428	47
1449	Polydispersity and reaction one structure in partially premixed spray flames. 1996 , 26, 1705-1711	6
1448	Characteristic Residence Times of Laminar Nonpremixed Flames at Extinction. 1996 , 112, 199-210	27

1447	Numerical Investigation of the Combustion Process in a Direct-Injection Stratified Charge Engine. 1996 , 115, 317-333	28
1446	Experimental Studies of Flame Extinction by Sodium Bicarbonate (NaHCO ₃) Powder. 1997 , 122, 215-230	25
1445	Convective and Radiative Coupling in a Burner-Supported Diffusion Flame. 1997 , 11, 239-245	8
1444	Experiments on Impulsively Started Jet Diffusion Flames. 1997 , 35, 1012-1017	3
1443	Experimental and Numerical Studies on Chemical Inhibition of Nonpremixed Methane Flames by CF ₃ Br. 1997 , 124, 311-330	17
1442	Measurements of Scalar Dissipation in Turbulent Hydrogen Diffusion Flames and Some Implications on Combustion Modeling. 1997 , 126, 291-313	34
1441	A Scalar PDF Construction Model for Turbulent Non-Premixed Combustion. 1997 , 125, 47-72	20
1440	Future research directions for turbulent combustion. 1997 ,	
1439	Large-eddy simulation of high-speed, turbulent diffusion flames with detailed chemistry. 1997 ,	13
1438	Radiation Modelling in Non-Luminous Nonpremixed Turbulent Flames. 1997 , 128, 23-48	84
1437	Simulation of Autoignition Delay and Location of Fuel Sprays Under Diesel-Engine Relevant Conditions. 1997 ,	17
1436	Prediction of NO _x production rate in the turbulent diffusion flame. 1997 , 38, 1343-1352	5
1435	Computation of turbulent reacting flow in a jet assisted ram combustor. 1997 , 26, 117-133	5
1434	A FULLY COUPLED, IMPLICIT, NUMERICAL SCHEME FOR LAMINAR AND TURBULENT PARABOLIC FLOWS. 1997 , 40, 1821-1837	1
1433	Wall effects on the propagation and extinction of steady, strained, laminar premixed flames. 1997 , 109, 237-252	75
1432	Linear-Eddy modeling of nonequilibrium turbulent reacting flows with nonpremixed reactants. 1997 , 109, 471-487	5
1431	Experimental investigation of the developing process of an unsteady diffusion flame. 1997 , 110, 67-77	17
1430	Modelling finite-rate chemistry effects in nonpremixed turbulent combustion: Test on the bluff-body stabilized flame. 1997 , 110, 298-318	15

1429	A laminar flamelet approach to subgrid-scale chemistry in turbulent flows. 1997 , 109, 332-341	113
1428	Rate-ratio asymptotic analysis of inhibition of nonpremixed methane-air flames by CF ₃ Br. 1998 , 112, 418-437	5
1427	Subgrid-Scale Modeling for Turbulent Reacting Flows. 1998 , 112, 593-606	103
1426	A Study of Coupled Turbulent Mixing, Soot Chemistry, and Radiation Effects Using the Linear Eddy Model. 1998 , 113, 454-469	28
1425	Finite Rate Chemistry and NO Molefraction in Non-Premixed Turbulent Flames. 1998 , 113, 198-211	23
1424	A Consistent Flamelet Formulation for Non-Premixed Combustion Considering Differential Diffusion Effects. 1998 , 114, 26-40	277
1423	Numerical Modeling of NO Formation in Laminar Bunsen Flames A Flamelet Approach. 1998 , 114, 420-435	21
1422	PDF Modeling of Finite-rate Chemistry Effects in Turbulent Nonpremixed Jet Flames. 1998 , 115, 210-229	60
1421	Investigation of Modeling for Non-Premixed Turbulent Combustion. 1998 , 60, 105-122	30
1420	Unsteady flamelet modeling of turbulent hydrogen-air diffusion flames. 1998 , 27, 1057-1064	197
1419	Simulation of pollutant formation in a gas-turbine combustor using unsteady flamelets. 1998 , 27, 1841-1847	51
1418	Inhibition of non-premixed hydrogen flames by CF ₃ Br. 1998 , 27, 2741-2748	7
1417	Structure and extinction of non-premixed n-heptane flames. 1998 , 27, 649-657	42
1416	The relationship between vorticity/strain and reaction zone structure in turbulent non-premixed jet flames. 1998 , 27, 1113-1120	53
1415	Conditional variance equation and its analysis. 1998 , 27, 1191-1198	6
1414	Mechanism of nitric oxide formation in oxygen-natural gas combustion. 1998 , 27, 1385-1392	14
1413	Detailed soot modeling in turbulent jet diffusion flames. 1998 , 27, 1623-1630	45
1412	Multidimensional Effects on Structure and Extinction Process of Counterflow Nonpremixed Hydrogen - Air Flames. 1998 , 137, 51-80	7

1411	Large eddy simulation of a confined coaxial jet with swirl and heat release. 1998,	45
1410	Large eddy simulation of turbulent reacting flows using Cartesian grid and boundary corrections. 1998,	2
1409	Direct numerical simulations analysis of flame surface density models for nonpremixed turbulent combustion. 1998, 10, 2347-2368	21
1408	Universal Relationships in Sooting Methane-Air Diffusion Flames. 1998, 131, 39-65	15
1407	Ignition, Burning and Extinction of a Strained Fuel Strip with Complex Kinetics. 1998, 131, 251-276	12
1406	Scalar dissipation rate modelling in variable density turbulent axisymmetric jets and diffusion flames. 1998, 10, 938-948	38
1405	Three-Dimensional Simulation of Pollutant Formation in a DI Diesel Engine Using Multiple Interactive Flamelets. 1998,	46
1404	Investigation of the Ignition Process of Sprays Under Diesel Engine Conditions Using Reduced n-Heptane Chemistry. 1998,	24
1403	Simulation of Soot Formation Under Diesel Engine Conditions Using a Detailed Kinetic Soot Model. 1998,	35
1402	Modelling the Effect of Split Injections in Diesel Engines Using Representative Interactive Flamelets. 1999,	23
1401	Modeling the Combustion in a Small-Bore Diesel Engine Using a Method Based on Representative Interactive Flamelets. 1999,	37
1400	Turbulent Self-Ignition and Combustion Modeling in Diesel Engines. 1999,	5
1399	Numerical predictions of a turbulent diffusion flame in a cylindrical combustor using eddy dissipation and flamelet combustion models. 1999, 213, 697-705	11
1398	Modelling and Calculation of a Partially Premixed Turbulent Flame. 1999, 149, 249-266	
1397	An Application of the Probability Density Function Model to Diesel Engine Combustion. 1999, 144, 47-78	20
1396	Numerical Simulation of Partially Premixed Combustion using the Flamelet Approach. 1999, 79, 41-43	1
1395	Modeling of lean premixed combustion in stationary gas turbines. <i>Progress in Energy and Combustion Science</i> , 1999, 25, 353-385	33.6 45
1394	Conditional moment closure for turbulent combustion. <i>Progress in Energy and Combustion Science</i> , 1999, 25, 595-687	33.6 634

1393	A two-equation turbulence model and its application to a buoyant diffusion flame. 1999 , 42, 1305-1315	31
1392	Many-length scale fractal model for turbulent mixing of reactants. 1999 , 42, 3959-3966	2
1391	Highly strained turbulent rich methane flames stabilized by hot combustion products. 1999 , 116, 136-153	21
1390	Three-dimensional computation of heat transfer from flames between vertical parallel walls. 1999 , 117, 574-588	13
1389	Chemical response of methane/air diffusion flames to unsteady strain rate. 1999 , 118, 204-212	46
1388	Two-dimensional large eddy simulation of soot formation in the near-field of a strongly radiating nonpremixed acetylene/air turbulent jet flame. 1999 , 119, 121-132	61
1387	A flamelet description of premixed laminar flames and the relation with flame stretch. 1999 , 119, 253-271	87
1386	Progress in Numerical Combustion. 1999 , 149, 297-337	37
1385	Derivation and numerical solution of a system of equations for the single-point probability density and conventional rate of dissipation of turbulent pulsations of a scalar field. 1999 , 72, 254-267	1
1384	Non-premixed combustion in supersonic turbulent flows - A numerical study for co-flowing H ₂ -air jets. 1999 ,	6
1383	The association of scalar dissipation rate layers and OH zones with strain, vorticity, and 2-D dilatation fields in turbulent nonpremixed jets and jet flames. 1999 ,	10
1382	High-resolution PIV/PLIF measurements of a gas-phase turbulent jet. 1999 ,	1
1381	Study of Alternative Descriptions of Methane Oxidation for CFD Modeling of Turbulent Combustors. 1999 , 141, 59-81	10
1380	Study of Transient Effects on the Extinction Limits of an Unsteady Counterflow Diffusion Flame. 1999 , 146, 57-84	14
1379	Effects of gravity on turbulent nonpremixed flames. 1999 , 11, 3123-3135	13
1378	Study of the conditional covariance and variance equations for second order conditional moment closure. 1999 , 11, 2679-2695	31
1377	Conditional moment closure for large eddy simulation of nonpremixed turbulent reacting flows. 1999 , 11, 1896-1906	116
1376	Flamelet Model of NO _x in a Diffusion Flame Combustor. 2000 ,	

1375	Regimes of Helium Burning. 2000 , 537, 993-997	14
1374	Surface topology of a buoyant turbulent nonpremixed flame. 2000 , 12, 2091-2100	2
1373	Calculation of Finite-Rate Chemistry Turbulent Diffusion Flames based on the Particle pdf Approach. 2000 , 152, 39-56	1
1372	Unsteady Flamelet Modeling of Soot Formation in Turbulent Diffusion Flames. 2000 , 158, 389-406	86
1371	Comparative study of modeling a hydrogen nonpremixed turbulent flame. 2000 , 122, 176-194	30
1370	Unsteady flamelet modeling of differential diffusion in turbulent jet diffusion flames. 2000 , 123, 358-374	130
1369	Application of the elliptic conditional moment closure model to a two-dimensional nonpremixed methanol bluff-body flame. 2000 , 120, 75-90	74
1368	Laminar flamelet structure at low and vanishing scalar dissipation rate. 2000 , 120, 285-300	21
1367	Transient response of a radiating flamelet to changes in global stoichiometric conditions. 2000 , 121, 59-74	6
1366	A comprehensive examination of the structure and extinction of turbulent nonpremixed flames formed in a counterflow. 2000 , 121, 301-311	18
1365	Numerical simulation of turbulent propane-air combustion with nonhomogeneous reactants. 2000 , 121, 395-417	128
1364	Scalar mixing and dissipation rate in large-eddy simulations of non-premixed turbulent combustion. 2000 , 28, 41-49	113
1363	Flamelet modeling of lifted turbulent methane/air and propane/air jet diffusion flames. 2000 , 28, 167-174	67
1362	Influence of non-unity lewis numbers and droplet loading on the extinction of counter-flow spray diffusion flames. 2000 , 28, 1047-1054	12
1361	Simulation of combustion in direct injection diesel engines using a eulerian particle flamelet model. 2000 , 28, 1161-1168	101
1360	Simultaneous particle-imaging velocimetry and OH planar laser-induced fluorescence measurements in an unsteady counterflow propane/air diffusion flame. 2000 , 28, 2021-2027	13
1359	Extinction and autoignition of n-heptane in counterflow configuration. 2000 , 28, 2029-2037	242
1358	Experiments on the transient effect of evolving jet diffusion flames. 2000 , 28, 2079-2084	5

1357	Vortex-induced extinction behavior in methanol gaseous flames: A comparison with quasi-steady extinction. 2000 , 28, 2109-2116	31
1356	Dynamics of flame/vortex interactions. <i>Progress in Energy and Combustion Science</i> , 2000 , 26, 225-282	33.6 207
1355	Experimental characterization of non-premixed turbulent jet propane flames. 2000 , 23, 115-132	2
1354	Level-set flamelet library approach for premixed turbulent combustion. 2000 , 21, 87-98	28
1353	Probability density function calculations of local extinction and no production in piloted-jet turbulent methane/air flames. 2000 , 28, 133-139	111
1352	An unsteady laminar flamelet model for non-premixed combustion. 2000 , 4, 77-97	40
1351	An elementary model for the validation of flamelet approximations in non-premixed turbulent combustion. 2000 , 4, 189-210	18
1350	Investigating the Effect of Spray Targeting and Impingement on Diesel Engine Cold Start. 2000 ,	34
1349	Multidimensional Modeling of a Six-Mode Diesel Test Cycle using a PDF Combustion Model. 2000 ,	2
1348	Modeling DI-Diesel Combustion using the Eulerian Particle Flamelet Model (EPFM). 2000 ,	15
1347	Self-Ignition and Early Combustion Process of n-Heptane Sprays Under Diluted Air Conditions: Numerical Studies Based on Detailed Chemistry. 2000 ,	43
1346	Simulation of Combustion in a DI-Diesel Engine with Application of a Moving Grid. 2000 ,	
1345	Acoustically Driven Extinction in a Droplet Stream Flame. 2000 , 161, 27-48	12
1344	A Flamelet Model for Premixed Methane-Air Flames. 2000 , 153, 223-245	3
1343	Multidimensional simulation of diesel engine cold start with advanced physical submodels. 2000 , 1, 1-27	26
1342	Analysis of Combustion Characteristics of Coaxial Jet Diffusion Flame with Steam Addition. 2000 , 16, 552-556	4
1341	Computational fluid dynamics modelling of non-premixed combustion in direct injection diesel engines. 2000 , 1, 249-267	78
1340	Mild Combustion: Process Features and Technological Constrains. 2000 , 153, 33-50	36

1339	Transient Flow Field Effects on Soot Volume Fraction in Diffusion Flames. 2000 , 160, 165-189	42
1338	A study of local flame structures in piloted jet diffusion flame using a probability density function method. 2000 , 28, 157-165	10
1337	Large-eddy simulation of a turbulent piloted methane/air diffusion flame (Sandia flame D). 2000 , 12, 2541	320
1336	Subgrid scale variance and dissipation of a scalar field in large eddy simulations. 2001 , 13, 1748-1754	114
1335	Comparisons of combustion models to improve the calculation of the flow generated by the flameholder of a hypersonic vehicle. 2001 ,	
1334	Investigation of scalar dissipation rate fluctuations in non-premixed turbulent combustion using a stochastic approach. 2001 , 5, 41-57	38
1333	Experimental investigation of the relationship between strain and scalar dissipation in gas-phase turbulent jets. 2001 ,	4
1332	Scalar/velocity imaging of the fine scales in gas-phase turbulent jets. 2001 ,	2
1331	Extensive stretched laminar flamelet library with enthalpy defect for syngas/air combustion. 2001 ,	
1330	Application of combined LES and flamelet modeling to methane, propane, and Jet-A combustion. 2001 ,	6
1329	Flamelet modeling of NO formation in laminar and turbulent diffusion flames. 2001 , 42, 449-62	14
1328	Pressure effect on soot formation in turbulent diffusion flames. 2001 , 42, 811-21	15
1327	Numerical Modeling for Auto-Ignition and Combustion Processes of Fuel Sprays in High-Pressure Environment. 2001 ,	1
1326	Simulating the Combustion in a DI Diesel Engine Applying a New Model for the Conditional Scalar Dissipation Rate. 2001 ,	4
1325	Flamelet Model of NOx in a Diffusion Flame Combustor. 2001 , 123, 774-778	1
1324	Direct numerical simulation of reacting scalar mixing layers. 2001 , 13, 1450-1465	18
1323	Evaluation of the transient response of a counter-flow diffusion flame using two-line OH PLIF thermometry and PIV. 2001 ,	1
1322	Large eddy simulation of a turbulent reacting jet with conditional source-term estimation. 2001 , 13, 754-769	79

1321	Numerical Analysis of NOx Formation in a Diffusion Flame Combustor Based on a Flamelet Model. 2001,		
1320	NUMERICAL MODELING FOR AUTO-IGNITION AND COMBUSTION PROCESSES OF FUEL SPRAYS IN HIGH-PRESSURE ENVIRONMENT. 2001, 168, 85-112		6
1319	Mixing Models for Large-Eddy Simulation of Nonpremixed Turbulent Combustion. 2001, 123, 341-346		8
1318	Gaseous diffusion flames: simple structures and their interaction. <i>Progress in Energy and Combustion Science</i> , 2001, 27, 547-585	33.6	15
1317	Computational fluid dynamics modeling of compartment fires. <i>Progress in Energy and Combustion Science</i> , 2001, 27, 611-666	33.6	129
1316	Effects of ambient pressure on flame structure of CO/H2/N2 counterflow diffusion flame. 2001, 25, 187-205		7
1315	Numerical study on effect of CO2 addition in flame structure and NOx formation of CH4-air counterflow diffusion flames. 2001, 25, 343-354		53
1314	Effects of CO2 addition on flame structure in counterflow diffusion flame of H2/CO2/N2 fuel. 2001, 25, 469-485		25
1313	Self-ignition and combustion modeling of initially nonpremixed turbulent systems. 2001, 124, 65-81		25
1312	On PAH formation in strained counterflow diffusion flames. 2001, 124, 127-136		35
1311	Numerical simulation of a mild combustion burner. 2001, 124, 503-518		135
1310	Unsteady modelling of a piloted methane/air jet flame based on the Eulerian particle flamelet model. 2001, 124, 444-465		65
1309	Edge flames and partially premixed combustion in diffusion flame quenching. 2001, 125, 788-803		75
1308	Kinetic modelling of n-decane combustion and autoignition. 2001, 126, 1456-1475		145
1307	A NUMERICAL STUDY OF JETS IN A REACTING CROSSFLOW. 2001, 40, 689-714		9
1306	Modeling extinction and reignition in turbulent nonpremixed combustion using a doubly-conditional moment closure approach. 2001, 13, 3824-3834		48
1305	COMBUSTION-RADIATION-TURBULENCE INTERACTION MODELING IN ABSORBING/EMITTING NONPREMIXED FLAMES. 2001, 172, 1-22		21
1304	Numerical simulations of a methanol pool fire. 2001,		2

1303	Measurements of conserved scalar filtered density function in a turbulent jet. 2001 , 13, 2923-2937	54
1302	On the relation between the conditional moment closure and unsteady flamelets. 2001 , 5, 275-294	22
1301	Stochastic simulation of transport and chemical kinetics in turbulent CO/H ₂ /N ₂ flames. 2001 , 5, 669-697	49
1300	PARALLEL COMPUTATION OF TURBULENT COMBUSTION AND FLAME SPREAD IN FIRES. 2002 , 41, 191-208	6
1299	Problems of predicting turbulent burning rates. 2002 , 6, 361-382	27
1298	CFD Predictions and Field Measurements of NO _x Emissions From LM1600 Gas Turbine During Part Load Operation. 2002 , 124, 276-283	5
1297	Structures and Stability of Lifted Combustion Zones in Preheated Oxidizer.. 2002 , 45, 499-505	2
1296	Liftoff and blowoff of jet diffusion flames. 2002 ,	2
1295	Implementation and Validation of a New Soot Model and Application to Aeroengine Combustors. 2002 , 124, 66-74	14
1294	Numerical Investigation of Reaction Zone Structure and Flame Liftoff of DI Diesel Sprays with Complex Chemistry. 2002 ,	22
1293	A Comparison of Mixing-Controlled and Flamelet Models for Diesel Combustion. 2002 ,	2
1292	CFD Simulation of Diesel Injection and Combustion. 2002 ,	4
1291	Numerical modeling of combustion processes and pollutant formations in direct-injection diesel engines. 2002 , 16, 1009	2
1290	Prediction of carbon monoxide in fires by conditional moment closure. 2002 , 29, 273-279	17
1289	Extinction and reignition in counterflow spray diffusion flames interacting with laminar vortices. 2002 , 29, 585-592	18
1288	Chemical kinetic study on the reduction of nitric oxide in highly preheated air combustion. 2002 , 29, 1165-1171	18
1287	Non-premixed and premixed extinction and autoignition of C ₂ H ₄ , C ₂ H ₆ , C ₃ H ₆ , and C ₃ H ₈ . 2002 , 29, 1597-1604	20
1286	Improved pollutant predictions in large-eddy simulations of turbulent non-premixed combustion by considering scalar dissipation rate fluctuations. 2002 , 29, 1971-1978	82

1285	Mathematical modeling of turbulent non-premixed piloted-jet flames with local extinctions. 2002 , 29, 2155-2162	32
1284	A robust and accurate algorithm of the ϵ -pdf integration and its application to turbulent methane-air diffusion combustion in a gas turbine combustor simulator. 2002 , 41, 763-772	18
1283	Turbulent combustion modeling. <i>Progress in Energy and Combustion Science</i> , 2002 , 28, 193-266	33.6 642
1282	An investigation of ignition behavior in diesel sprays. 2002 , 29, 641-646	20
1281	Autoignition in a non-premixed medium: DNS studies on the effects of three-dimensional turbulence. 2002 , 29, 2051-2059	75
1280	Second-order conditional moment closure modeling of local extinction and reignition in turbulent non-premixed hydrocarbon flames. 2002 , 29, 2131-2137	32
1279	Numerical and experimental analysis of soot formation in laminar diffusion flames along selected particle tracks. 2002 , 29, 2399-2405	3
1278	Prediction of lifted, non-premixed turbulent flames using a mixedness-reactedness flamelet model with radiation heat loss. 2002 , 128, 60-73	15
1277	Flamelet regime in non-premixed combustion. 2002 , 129, 217-219	0
1276	Partially stirred reactor: study of the sensitivity of the Monte-Carlo simulation to the number of stochastic particles with the use of a semi-analytic, steady-state, solution to the pdf equation. 2002 , 129, 164-178	15
1275	Use of the conditional moment closure model to predict NO formation in a turbulent CH ₄ /H ₂ flame over a bluff-body. 2002 , 130, 94-111	58
1274	A Turbulence-Chemistry Interaction Model Based on a Multivariate Presumed Beta-PDF Method for Turbulent Flames. 2002 , 68, 111-135	35
1273	Flamelet modelling of non-premixed turbulent combustion with local extinction and re-ignition. 2003 , 7, 317-332	37
1272	A flamelet time scale model for non-premixed combustion including chemical kinetic effects. 2003 , 133, 189-191	22
1271	Spectral radiative effects and turbulence/radiation interaction in a non-luminous turbulent jet diffusion flame. 2003 , 133, 75-91	123
1270	A joint scalar PDF study of nonpremixed hydrogen ignition. 2003 , 135, 209-225	8
1269	The response of a propane-air counter-flow diffusion flame subjected to a transient flow field. 2003 , 135, 285-297	31
1268	Large-eddy simulation of a reacting scalar mixing layer with arrhenius chemistry. 2003 , 46, 547-569	3

1267	Performance of reduced reaction mechanisms in unsteady nonpremixed flame simulations. 2003 , 7, 365-382	6
1266	Modelling of a bluff body stabilized CH ₄ /H ₂ flame based on a laminar flamelet model with emphasis on NO prediction. 2003 , 217, 201-210	15
1265	LB SIMULATION ON COMBUSTION WITH TURBULENCE. 2003 , 17, 197-200	14
1264	A Lagrangian study of scalar diffusion in isotropic turbulence with chemical reaction. 2003 , 15, 3856-3866	19
1263	Reconstruction subgrid models for nonpremixed combustion. 2003 , 15, 3280-3307	29
1262	Laminar flamelet decomposition for conditional source-term estimation. 2003 , 15, 1564	20
1261	A subgrid-scale mixing model for large-eddy simulations of turbulent reacting flows using the filtered density function. 2003 , 15, 1496	29
1260	Experimental investigation of scalar-scalar-dissipation filtered joint density function and its transport equation. 2003 , 15, 227-244	34
1259	An Investigation of Ignition and Heat Release Characteristics in a Diesel Engine Using an Interactive Flamelet Model. 2003 ,	4
1258	Influence of Wall Impingement on the Structure of Reacting Jets. 2003 ,	4
1257	RADIATION COMBINED WITH CONDUCTION AND CONVECTION. 2003 , 680-728	
1256	A Wall-Modified Flamelet Model for Diesel Combustion. 2004 ,	1
1255	Numerical Simulation of the Evolution of the Soot Particle Size Distribution in a DI Diesel Engine Using an Emulsified Fuel of Diesel-Water. 2004 ,	11
1254	Numerical Study of Combustion Processes and Pollutant Formation in HSDI Diesel Engines. 2004 ,	2
1253	3D-Simulation of DI-Diesel Combustion Applying a Progress Variable Approach Accounting for Complex Chemistry. 2004 ,	23
1252	Application of Laminar Flamelet Model to a Diffusion Flame Combustor. 2004 , 53	
1251	Assessment of a flame surface density-based subgrid turbulent combustion model for nonpremixed flames of wood pyrolysis gas. 2004 , 16, 3795-3807	5
1250	A multienvironment conditional probability density function model for turbulent reacting flows. 2004 , 16, 4551-4565	23

1249	A generalized flame surface density modelling approach for the auto-ignition of a turbulent non-premixed system. 2004 , 8, 165-193		21
1248	The influence of a vortex on a freely propagating laminar methane-air flame. 2004 , 18, 857-864		
1247	Effects of multicomponent diffusion on predicted ignition characteristics of an n-heptane diffusion flame. 2004 , 136, 557-566		31
1246	Numerical investigation of extinction in a counterflow nonpremixed flame perturbed by a vortex. 2004 , 138, 225-241		25
1245	Impact of detailed chemistry and transport models on turbulent combustion simulations. <i>Progress in Energy and Combustion Science</i> , 2004 , 30, 61-117	33.6	123
1244	Mild Combustion. <i>Progress in Energy and Combustion Science</i> , 2004 , 30, 329-366	33.6	833
1243	PDF modelling of turbulent non-premixed combustion with detailed chemistry. 2004 , 59, 3477-3490		28
1242	Thermochemical closure for high-speed flows. 2004 , 55, 965-976		3
1241	Investigation of the influence of the Reynolds number on extinction and reignition. 2004 , 136, 351-363		16
1240	A new Lagrangian flamelet model for local flame extinction and reignition. 2004 , 137, 306-319		15
1239	A statistical description of turbulent diffusion flame holes. 2004 , 137, 295-305		8
1238	Influence of differential diffusion on maximum flame temperature in turbulent nonpremixed hydrogen/air flames. 2004 , 138, 175-187		34
1237	Post-processing of detailed chemical kinetic mechanisms onto CFD simulations. 2004 , 28, 2351-2361		23
1236	Extinction of an evolving jet flame under a linearly-varying flow field. 2004 , 8, 85-95		1
1235	Flamelet Modeling of Pollutant Formation in a Gas Turbine Combustion Chamber Using Detailed Chemistry for a Kerosene Model Fuel. 2004 , 126, 899-905		21
1234	Application of CFD-based Analysis Tool to the PS-90A/A2 Combustors to Achieve Low NO Emission Level. 2004 ,		
1233	FUEL LEWIS NUMBER EFFECTS IN UNSTEADY BURKEßCHUMANN HYDROGEN FLAMES. 2004 , 177, 75-88		6
1232	COMPUTED NO AND SOOT DISTRIBUTION IN TURBULENT TRANSIENT JETS UNDER DIESEL CONDITIONS. 2004 , 176, 603-641		26

1231	CHEMICAL INHIBITION OF NONPREMIXED METHANE FLAMES BY CF ₃ Br. 2005 , 177, 871-906	7
1230	RELATIVE POLYCYCLIC AROMATIC HYDROCARBON CONCENTRATIONS IN UNSTEADY COUNTERFLOW DIFFUSION FLAMES. 2005 , 177, 691-713	20
1229	Turbulence Modeling in a Model Combustor. 2005 , 299	1
1228	Nonpremixed Flamelet Statistics at Flame Base of Lifted Turbulent Jet Nonpremixed Flames. 2005 , 48, 75-82	6
1227	Numerical Investigation of Edge Flame Structure of Counterflow Nonpremixed Flames with Local Extinction Due to Flame Stretch. 2005 , 48, 849-857	1
1226	Direct numerical simulation of turbulent combustion: fundamental insights towards predictive models. 2005 , 16, 65-79	69
1225	Experimental study of velocity-scalar filtered joint density function for LES of turbulent combustion. 2005 , 30, 567-574	24
1224	A two mixture fraction flamelet model applied to split injections in a DI Diesel engine. 2005 , 30, 2755-2762	125
1223	Dynamic behavior of diffusion flame interacting with a large-scale vortex by laser imaging techniques. 2005 , 30, 465-473	5
1222	Modeling autoignition in non-premixed turbulent combustion using a stochastic flamelet approach. 2005 , 30, 2745-2753	24
1221	Second-order conditional moment closure modeling of a turbulent CH ₄ /H ₂ /N ₂ jet diffusion flame. 2005 , 30, 735-742	24
1220	High-repetition rate measurements of temperature and thermal dissipation in a non-premixed turbulent jet flame. 2005 , 30, 691-699	35
1219	Paradigms in turbulent combustion research. 2005 , 30, 21-42	212
1218	Combustion theory and modeling. 2005 , 30, 1-19	64
1217	Steady flamelet modelling of a turbulent non-premixed flame considering scalar dissipation rate fluctuations. 2005 , 37, 133-153	7
1216	Subgrid scale laminar flamelet model for partially premixed combustion and its application to backdraft simulation. 2005 , 40, 81-98	23
1215	A joint SSPDF/IMC method for simulating turbulent methane-air jet combustion. 2005 , 10, 941-950	
1214	Time-dependent measurements of flame temperature and the OH radical in the unsteady extinction of non-premixed flames. 2005 , 141, 186-190	5

1213	Modeling of turbulent, two-dimensional nonpremixed CH ₄ /H ₂ flame over a bluffbody using first- and second-order elliptic conditional moment closures. 2005 , 143, 119-134	31
1212	Assessment of closure schemes in second-order conditional moment closure against DNS with extinction and ignition. 2005 , 143, 386-401	10
1211	A priori investigation of the constructed PDF model. 2005 , 30, 785-792	7
1210	Prediction of local extinction and re-ignition effects in non-premixed turbulent combustion using a flamelet/progress variable approach. 2005 , 30, 793-800	174
1209	Conditional moment closure modeling of a lifted turbulent flame. 2005 , 50, 1261-1269	4
1208	Modeling Approaches for Premixed Charge Compression Ignition Combustion. 2005 ,	16
1207	On the Potential of Low Heat Rejection DI Diesel Engines to Reduce Tail-Pipe Emissions. 2005 ,	5
1206	The Effects of Spray Angle and Piston Bowl Shape on Diesel Engine Soot Emissions Using 3-D CFD Simulation. 2005 ,	16
1205	Heavy-Duty Diesel Combustion with Ultra-Low NO _x and SOOT Emissions - A Comparison Between Experimental Data and CFD Simulations. 2005 ,	8
1204	Modeling Diesel Engine Combustion With Detailed Chemistry Using a Progress Variable Approach. 2005 ,	23
1203	Testing of mixing models for Monte Carlo probability density function simulations. 2005 , 17, 047101	46
1202	Conditional mixing statistics in a self-similar scalar mixing layer. 2005 , 17, 095107	17
1201	Effects of unsteady strain rate on scalar dissipation structures in turbulent planar jets. 2005 , 17, 125104	22
1200	Conditional moment closure modeling of a lifted turbulent flame. 2005 , 50, 1261	1
1199	Consistent modeling of scalar mixing for presumed, multiple parameter probability density functions. 2005 , 17, 018106	26
1198	OPTIMIZATION OF SOOT MODELING IN TURBULENT NONPREMIXED ETHYLENE/AIR JET FLAMES. 2005 , 177, 1567-1602	29
1197	Combustion mechanism of liquid fuel spray in a gaseous flame. 2005 , 17, 123301	86
1196	MODELING OF CONDITIONAL DISSIPATION RATE FOR FLAMELET MODELS WITH APPLICATION TO LARGE EDDY SIMULATION OF FIRE PLUMES. 2005 , 177, 1883-1916	21

1195	Modelling of ignition mechanisms and pollutant formation in direct-injection diesel engines with multiple injections. 2005 , 6, 231-246	31
1194	Numerical study of bluff-body non-premixed flame structures using laminar flamelet model. 2005 , 219, 361-370	8
1193	Two-point, high-repetition-rate Rayleigh thermometry in flames: techniques to correct for apparent dissipation induced by noise. 2005 , 44, 6741-51	28
1192	An Unsteady/Flamelet Progress Variable Method for LES of Nonpremixed Turbulent Combustion. 2005 ,	31
1191	CFD for Simulation of Steam-Assisted and Air-Assisted Flare Combustion Systems. 2006 , 20, 1044-1056	27
1190	Modeling Lifted Methane Jet Fires Using the Boundary-Layer Equations. 2006 , 49, 239-258	14
1189	LARGE-EDDY SIMULATION OF TURBULENT COMBUSTION. 2006 , 38, 453-482	724
1188	Prediction of Combustion-Generated Noise in Non-Premixed Turbulent Jet Flames Using LES. 2006 ,	7
1187	Flamelet Modeling with LES for Diesel Engine Simulations. 2006 ,	25
1186	Modeling Combustion and Emissions of HSDI Diesel Engines Using Injectors with Different Included Spray Angles. 2006 ,	7
1185	Large-eddy simulation of a bluff-body stabilized nonpremixed flame. 2006 , 144, 170-189	102
1184	Extinction limit extension of unsteady counterflow diffusion flames affected by velocity change. 2006 , 144, 792-808	8
1183	A probability density function Eulerian Monte Carlo field method for large eddy simulations: Application to a turbulent piloted methane/air diffusion flame (Sandia D). 2006 , 145, 88-104	118
1182	Large eddy simulation of turbulent combustion processes in propulsion and power systems. 2006 , 42, 2-37	87
1181	Presumed Mapping Functions for Eulerian Modelling of Turbulent Mixing. 2006 , 76, 199-219	8
1180	A method to simultaneously image two-dimensional mixture fraction, scalar dissipation rate, temperature and fuel consumption rate fields in a turbulent non-premixed jet flame. 2006 , 41, 603-627	23
1179	Detailed numerical simulation of thermal radiation influence in Sandia flame D. 2006 , 49, 2347-2355	18
1178	The Effects of Pressure on Gas Turbine Combustor Performance: An Investigation via Numerical Simulation. 2006 , 533	1

1177	Large-Eddy Simulation of Reacting Turbulent Flows in Complex Geometries. 2006 , 73, 374-381	97
1176	Review of Large-Eddy Simulation of Non-Premixed Turbulent Combustion. 2006 , 128, 209-215	14
1175	MODELING DIESEL SPRAY IGNITION USING DETAILED CHEMISTRY WITH A PROGRESS VARIABLE APPROACH. 2006 , 178, 1977-1997	45
1174	Toward Validation of Large Eddy Simulation for Turbulent Combustion. 2006 , 44, 418-433	39
1173	Large eddy simulation of turbulence-chemistry interactions in reacting flows. 2006 , 46, 16-27	7
1172	Low Heating Value Fuel Combustion: Flamelet Combustion and NO Formation Models. 2006 , 22, 136-144	
1171	Mathematical Modeling of Catalytic-Surface Combustion of Reacting Flows. 2007 , 21, 512-519	5
1170	Conditional source-term estimation with laminar flamelet decomposition in large eddy simulation of a turbulent nonpremixed flame. 2007 , 19, 115103	4
1169	A term-by-term direct numerical simulation validation study of the multi-environment conditional probability-density-function model for turbulent reacting flows. 2007 , 19, 085102	6
1168	Predicting the ignition delay of turbulent methane jets using Conditional Source-term Estimation. 2007 , 11, 1009-1028	33
1167	A combustion model sensitivity study for CH ₄ /H ₂ bluff-body stabilized flame. 2007 , 221, 1377-1390	10
1166	Comparisons of Diesel PCCI Combustion Simulations Using a Representative Interactive Flamelet Model and Direct Integration of CFD With Detailed Chemistry. 2007 , 129, 252-260	28
1165	A study of the dimethyl ether spray characteristics and ignition delay. 2007 , 8, 337-346	11
1164	A NUMERICAL INVESTIGATION OF FLAME LIFT-OFF IN DIESEL JETS. 2007 , 179, 2599-2618	37
1163	Numerical Investigation of Combustion Noise and Sound Source Mechanisms in a Non-Premixed Flame Using LES and APE-RF. 2007 ,	7
1162	Mathematical Modeling of Impinging Hydrogen-Air Flows Augmented by Catalytic Surface Reactions. 2007 ,	
1161	A quantitative method for a priori evaluation of combustion reaction models. 2007 , 11, 287-303	13
1160	Investigation on the Design and Optimization of a Low NO _x /CO Emission Burner Both Experimentally and through Computational Fluid Dynamics (CFD) Simulations. 2007 , 21, 42-58	15

1159	LES OF THE SYDNEY SWIRL FLAME SERIES: AN INITIAL INVESTIGATION OF THE FLUID DYNAMICS. 2007 , 179, 173-189	29
1158	Simulation of the Low-Temperature Combustion in a Heavy Duty Diesel Engine. 2007 ,	6
1157	DI Diesel Engine Combustion Modeling Based on ECFM-3Z Model. 2007 ,	9
1156	Experimental Validation of a Surrogate Fuel for Diesel. 2007 ,	18
1155	Validation of Eulerian Spray Concept coupled with CFD Combustion Analysis. 2007 ,	3
1154	Applying Representative Interactive Flamelets (RIF) with Special Emphasis on Pollutant Formation to Simulate a DI Diesel Engine with Roof-Shaped Combustion Chamber and Tumble Charge Motion. 2007 ,	4
1153	Modeling Engine Turbulent Auto-Ignition Using Tabulated Detailed Chemistry. 2007 ,	16
1152	Turbulence and Residual Gas Effects on Mixing, Combustion, and Emissions in Split Injection of Gaseous Fuel. 2007 ,	3
1151	Modeling of Combustion Process of Multiple Injection in HSDI Diesel Engines using Modified Two-Dimensional Flamelet. 2007 ,	1
1150	Measurements of heat and combustion products in reduced-scale ventilation-limited compartment fires. 2007 ,	13
1149	Predicting toxic gas concentrations resulting from enclosure fires using local equivalence ratio concept linked to fire field models. 2007 , 31, 27-51	15
1148	Large eddy simulation of a lifted turbulent jet flame. 2007 , 150, 320-339	21
1147	Eulerian particle flamelet modeling of a bluff-body CH ₄ /H ₂ flame. 2007 , 151, 512-531	13
1146	Numerical simulation of the interaction between turbulence and radiation in reactive flows. <i>Progress in Energy and Combustion Science</i> , 2007 , 33, 311-383	33.6 153
1145	Experimental study of scalar filtered mass density function in turbulent partially premixed flames. 2007 , 31, 1533-1541	21
1144	Simulation of a turbulent non-premixed flame using conditional source-term estimation with trajectory generated low-dimensional manifold. 2007 , 31, 1701-1709	34
1143	Conditional statistics of nonreacting and reacting sprays in turbulent flows by direct numerical simulation. 2007 , 31, 2335-2342	52
1142	Calculation of the size distribution function of soot particles in turbulent diffusion flames. 2007 , 31, 657-665	12

1141	Flamelet-based modeling of auto-ignition with thermal inhomogeneities for application to HCCI engines. 2007 , 31, 2903-2911	43
1140	LES of the Sydney swirl flame series: A study of vortex breakdown in isothermal and reacting flows. 2007 , 31, 1755-1763	51
1139	Imaging of local flame extinction due to the interaction of scalar dissipation layers and the stoichiometric contour in turbulent non-premixed flames. 2007 , 31, 1487-1495	35
1138	Scalar mixing in direct numerical simulations of temporally evolving plane jet flames with skeletal CO/H ₂ kinetics. 2007 , 31, 1633-1640	169
1137	Near-field flow and flame dynamics of LOX/methane shear-coaxial injector under supercritical conditions. 2007 , 31, 2309-2317	79
1136	Extended flamelet model and improved interaction of chemistry and turbulence for modeling partially premixed combustion with a joint PDF method. 2007 , 7, 4090019-4090020	
1135	Measurements of soot volume fraction in pulsed diffusion flame by laser induced incandescence. 2007 , 44, 137-144	2
1134	Smoke production, radiation heat transfer and fire growth in a liquid-fuelled compartment fire. 2007 , 42, 310-320	30
1133	Extended ShvabZeldovich formulation for multicomponent-fuel diffusion flames. 2007 , 50, 1035-1048	9
1132	The effect of flame structure on soot formation and transport in turbulent nonpremixed flames using direct numerical simulation. 2007 , 151, 2-28	101
1131	Turbulence radiation interaction in Reynolds-averaged Navier-Stokes simulations of nonpremixed piloted turbulent laboratory-scale flames. 2007 , 151, 303-320	61
1130	An improved mixing model providing joint statistics of scalar and scalar dissipation. 2008 , 155, 490-508	11
1129	Large Eddy Simulation of Turbulent Reacting Shear Layers Including Finite-Rate Chemistry and Detailed Diffusion Processes. 2008 , 80, 81-105	2
1128	Flamelet Based NO _x -Radiation Integrated Modelling of Turbulent Non-premixed Flame using Reynolds-stress Closure. 2008 , 81, 301-319	12
1127	LES of the Sandia Flame D Using Laminar Flamelet Decomposition for Conditional Source-Term Estimation. 2008 , 81, 609-639	8
1126	Effects of radiation on spray flame characteristics and soot formation. 2008 , 152, 2-13	64
1125	Comparison of submodels for conditional velocity and scalar dissipation in CMC simulation of piloted jet and bluff-body flames. 2008 , 152, 282-286	20
1124	Modeling ignition and chemical structure of partially premixed turbulent flames using tabulated chemistry. 2008 , 152, 80-99	56

1123	Analysis of the flamelet concept in the numerical simulation of laminar partially premixed flames. 2008 , 153, 71-83	15
1122	Incorporating unsteady flow-effects in flamelet-generated manifolds. 2008 , 155, 133-144	26
1121	Prediction of extinction and reignition in nonpremixed turbulent flames using a flamelet/progress variable model: 1. A priori study and presumed PDF closure. 2008 , 155, 70-89	124
1120	Prediction of extinction and reignition in nonpremixed turbulent flames using a flamelet/progress variable model. 2008 , 155, 90-107	188
1119	The structure of partially premixed methane flames in high-intensity turbulent flows. 2008 , 154, 692-714	14
1118	Scalar filtered mass density functions in nonpremixed turbulent jet flames. 2008 , 155, 54-69	19
1117	Large eddy simulation of the backdraft phenomenon. 2008 , 43, 205-225	15
1116	Reynolds analogy in combustor modeling. 2008 , 51, 1251-1263	14
1115	Turbulence-chemistry interactions in CFD modelling of diesel engines. 2008 , 12, 305-325	9
1114	A Flamelet/Progress-Variable Approach for the Simulation of Turbulent Combustion of Real Gas Mixtures. 2008 ,	3
1113	A Computational and Experimental Assessment of the Damkohler Number Similarity for Static Flame Stability in Augmentor Flows. 2008 ,	1
1112	Real Gas CFD Simulation of Supercritical H ₂ -LOX in the MASCOTTE Single Injector Combustor Using a Commercial CFD Code. 2008 ,	11
1111	Laser-Based Experimental and Monte Carlo PDF Numerical Investigation of an Ethanol/Air Spray Flame. 2008 , 180, 1529-1547	27
1110	Prediction of NO in turbulent diffusion flames using Eulerian particle flamelet model. 2008 , 12, 905-927	20
1109	Conditional velocity statistics in the double scalar mixing layer [A mapping closure approach. 2008 , 12, 929-941	4
1108	LES of Recirculation and Vortex Breakdown in Swirling Flames. 2008 , 180, 809-832	25
1107	Mathematical Modeling of Impinging Hydrogen-Air Flows Augmented by Catalytic Surface Reactions. 2008 , 22, 709-717	1
1106	Observation of Turbulent Mixing in Lean-Direct-Injection Combustion at Elevated Pressure. 2008 , 46, 3116-3127	7

1105	Modeling of radiation and nitric oxide formation in turbulent nonpremixed flames using a flamelet/progress variable formulation. 2008 , 20, 055110	170
1104	Analysis and flamelet modelling for spray combustion. 2008 , 612, 45-79	79
1103	Generation of optimal artificial neural networks using a pattern search algorithm: application to approximation of chemical systems. 2008 , 20, 573-601	32
1102	Diesel Engine Simulations with Multi-Dimensional Conditional Moment Closure. 2008 , 180, 883-899	64
1101	Flamelet Characteristics of Gaseous and Spray Lifted Flames on Two-Dimensional Direct Numerical Simulations. 2008 , 3, 846-856	2
1100	Flamelet Structure in Diesel Engines under Lean and Stoichiometric Operating Conditions. 2008 ,	
1099	Efficient 3-D CFD Combustion Modeling with Transient Flamelet Models. 2008 ,	29
1098	Investigation of Combustion Noise Development with Variation in Start of Injection using 3-Dimensional Simulations by Applying Representative Interactive Flamelet (RIF) Model. 2008 ,	4
1097	Evaluation of Modeling Approaches for NOx Formation in a Common-Rail DI Diesel Engine within the Framework of Representative Interactive Flamelets (RIF). 2008 ,	4
1096	Extended CMC Model for Turbulent Spray Combustion in a Diesel Engine. 2008 ,	3
1095	Applying an Extended Flamelet Model for a Multiple Injection Operating Strategy in a Common-Rail DI Diesel Engine. 2009 , 2, 727-741	2
1094	Turbulent Diffusion Combustion Model Using Chemical Equilibrium Combined with the Eddy Dissipation Model for Simple Prediction of Combustion Products. 2009 , 35, 142-150	
1093	Transport and chemical kinetics of H ₂ /N ₂ jet flame: A flamelet modelling approach with NOx prediction. 2009 , 2, 33-40	1
1092	References. 2009 , 491-515	
1091	Injection Rate Shaping Investigations on a Small Bore DI Diesel Engine. 2009 ,	11
1090	Applying an Interactively Coupled CFD-Multi-Zone Approach to Study the Effects of Piston Bowl Geometry Variations on PCCI Combustion. 2009 , 2, 1793-1810	2
1089	A Multi-dimensional Flamelet Model Framework Applied to Split-injection DI Diesel Engines. 2009 ,	2
1088	Computational Investigation of the Stratification Effects on DI/HCCI Engine Combustion at Low Load Conditions. 2009 ,	

1087	Conditional statistics of inert droplet effects on turbulent combustion in reacting mixing layers. 2009 , 13, 901-920	4
1086	A simple model for the filtered density function for passive scalar combustion LES. 2009 , 13, 559-588	49
1085	Unsteady Flamelet Response in the Near Field of High-Reynolds-Number Jets. 2009 , 47, 1491-1506	5
1084	Effects of compositional fluctuations on premixed flames. 2009 , 13, 823-852	21
1083	ODT Closure with Extinction and Reignition in Piloted Methane-Air Jet Diffusion Flames. 2009 , 181, 570-596	14
1082	Soot Simulation under Diesel Engine Conditions Using a Flamelet Approach. 2009 , 2, 89-104	8
1081	Applicability of a Flamelet and a Presumed JPDF 2-Domain-1-Step-Kinetic Turbulent Reaction Model for the Simulation of a Lifted Swirl Flame. 2009 ,	3
1080	Radiation statistics in homogeneous isotropic turbulence. 2009 , 11, 093001	15
1079	Laminar flamelet model prediction of NOx formation in a turbulent bluff-body combustor. 2009 , 223, 41-54	9
1078	On the effect of heat release in turbulence spectra of non-premixed reacting shear layers. 2009 , 626, 67-109	28
1077	Subgrid Scale Modeling in Large-Eddy Simulation of Turbulent Combustion Using Premixed Flamelet Chemistry. 2009 , 82, 511-535	47
1076	Comparison of Differing Formulations of the PCM Model by their Application to the Simulation of an Auto-igniting H ₂ /air Jet. 2009 , 83, 33-60	20
1075	Development of an Analytical EFunction PDF Integration Algorithm for Simulation of Non-premixed Turbulent Combustion. 2009 , 83, 205-226	9
1074	Behavior of Moderately Oscillating Sooting Methane-Air Diffusion Flames. 2009 , 82, 553-569	5
1073	An Interactively Coupled CFD-Multi-Zone Approach to Model HCCI Combustion. 2009 , 82, 621-641	11
1072	Investigation of subgrid-scale mixing of mixture fraction and temperature in turbulent partially premixed flames. 2009 , 32, 1517-1525	13
1071	An extended flamelet model for multiple injections in DI Diesel engines. 2009 , 32, 2775-2783	67
1070	Experimental and numerical study of a conical turbulent partially premixed flame. 2009 , 32, 1811-1818	33

1069	Optimal artificial neural networks and tabulation methods for chemistry representation in LES of a bluff-body swirl-stabilized flame. 2009 , 32, 1527-1535	70
1068	Differential diffusion effects during the ignition of a thermally stratified premixed hydrogen/air mixture subject to turbulence. 2009 , 32, 1465-1472	19
1067	Investigation of soot formation in turbulent flames with a pseudo-bivariate population balance model. 2009 , 64, 294-303	23
1066	Using the tabulated diffusion flamelet model ADF-PCM to simulate a lifted methane/air jet flame. 2009 , 156, 1318-1331	57
1065	Analysis of NO formation in high temperature diluted air combustion in a coaxial jet flame using an unsteady flamelet model. 2009 , 52, 1412-1420	22
1064	Numerical study on high-temperature diluted air combustion for the turbulent jet flame in crossflow using an unsteady flamelet model. 2009 , 52, 5740-5750	10
1063	Effects of CO ₂ dilution on the interactions of a CH ₄ /air nonpremixed jet flame with a single vortex. 2009 , 48, 1423-1431	9
1062	Numerical simulation of structure and soot formation of turbulent lean-premixed flames in gas turbine conditions. 2009 , 23, 3424-3435	5
1061	Self-ignition of diesel spray combustion. 2009 , 45, 1627-1635	1
1060	Comparison of four-step reduced mechanism and starting mechanism for methane diffusion flames. 2009 , 88, 1435-1443	3
1059	Incorporating unsteady flow-effects beyond the extinction limit in flamelet-generated manifolds. 2009 , 32, 1051-1058	28
1058	An analysis of lower-dimensional approximations to the scalar dissipation rate using direct numerical simulations of plane jet flames. 2009 , 32, 1455-1463	28
1057	Combustion modeling using principal component analysis. 2009 , 32, 1563-1570	77
1056	Extinction and interruption of diffusion flame interacting with a large scale vortex. 2009 , 32, 1099-1106	
1055	Multiple mapping conditioning of turbulent jet diffusion flames. 2009 , 32, 1679-1685	23
1054	A tabulated closure for turbulent non-premixed combustion based on the linear eddy model. 2009 , 32, 1571-1578	20
1053	Examination of laminar-flamelet concept using vortex/flame interactions. 2009 , 32, 1019-1026	3
1052	Multiscale combustion and turbulence. 2009 , 32, 1-25	90

1051	Mixing models for the two-way-coupling of CFD codes and zero-dimensional multi-zone codes to model HCCI combustion. 2009 , 156, 130-139	27
1050	Modelling lifted hydrogen jet fires using the boundary layer equations. 2009 , 29, 1383-1390	11
1049	Combustion model reduction for diesel engine control design. 2009 , 10, 359-387	16
1048	Large-Eddy Simulation of a Turbulent Lifted Flame in a Vitiated Co-Flow. 2009 ,	4
1047	Numerical Simulations of a Micro Combustion Chamber. 2009 ,	
1046	Scramjet Engine Model MASIV: Role of Mixing, Chemistry and Wave Interaction. 2009 ,	12
1045	Hypersonic Vehicle Thrust Sensitivity to Angle of Attack and Mach Number. 2009 ,	14
1044	Preliminary Design Methodology for Hypersonic Engine Flowpaths. 2009 ,	17
1043	A Critical Review of Scramjet Combustion Simulation (Invited). 2009 ,	22
1042	Large Eddy Simulation of the Backdraft Phenomenon and Its Mitigation in Compartment Fires with Different Opening Geometries. 2009 , 181, 853-876	4
1041	Effect of Droplet Size on Soot Formation in Spray Combustion. 2009 , 46, 426-435	1
1040	Analysis of Different Sound Source Formulations to Simulate Combustion Generated Noise Using a Hybrid LES/APE-RF Method. 2009 , 8, 95-123	19
1039	Combustion Modeling of Split Injection in HSDI Diesel Engines. 2010 , 183, 180-201	13
1038	The diffusive strip method for scalar mixing in two dimensions. 2010 , 662, 134-172	47
1037	A Spatially Developing One-Dimensional Turbulence (ODT) Study of Soot and Enthalpy Evolution in Meter-Scale Buoyant Turbulent Flames. 2010 , 182, 60-101	16
1036	Modeling of Turbulent Combustion. 2010 , 175	1
1035	Application of Different Turbulence Models to Study the Effect of Local Anisotropy for a Non-Premixed Piloted Methane Flame. 2010 , 28, 49-54	3
1034	Modelling fire growth and toxic gas formation. 2010 , 637-667	

1033	Unsteady flamelet/progress variable approach for non-premixed turbulent lifted flames. 2010 , 4, 465-474	5
1032	Presumed PDF modeling for RANS simulation of turbulent premixed flames. 2010 , 14, 381-403	40
1031	On the experimental validation of combustion simulations in turbulent non-premixed jets. 2010 , 14, 855-874	7
1030	Multiobjective global surrogate modeling, dealing with the 5-percent problem. 2010 , 26, 81-98	33
1029	Auto-ignition of diesel spray using the PDF-Eddy Break-Up model. 2010 , 34, 1732-1745	12
1028	Exploring the effect of fluid dynamics and kinetic mechanisms on n-heptane autoignition in transient jets. 2010 , 157, 328-340	14
1027	Strained flamelets for turbulent premixed flames, I: Formulation and planar flame results. 2010 , 157, 943-954	48
1026	Prediction of a Turbulent Non-Premixed Natural Gas Flame in a Semi-Industrial Scale Furnace using a Radiative Flamelet Combustion Model. 2010 , 84, 1-23	
1025	A Priori Testing of Flamelet Generated Manifolds for Turbulent Partially Premixed Methane/Air Flames. 2010 , 84, 439-458	38
1024	Direct Numerical Simulation of Inert Droplet Effects on Scalar Dissipation Rate in Turbulent Reacting and Non-Reacting Shear Layers. 2010 , 84, 397-422	18
1023	Noise Correction and Length Scale Estimation for Scalar Dissipation Rate Measurements in Turbulent Partially Premixed Flames. 2010 , 85, 309-332	6
1022	Finite Rate Chemistry Effects in Highly Sheared Turbulent Premixed Flames. 2010 , 85, 621-648	68
1021	A DRD finite element formulation for computing turbulent reacting flows in gas turbine combustors. 2010 , 46, 159-167	58
1020	A flamelet model for turbulent diffusion combustion in supersonic flow. 2010 , 53, 3379-3388	10
1019	An efficient PDF calculation of flame temperature and major species in turbulent non-premixed flames. 2010 , 34, 2223-2241	9
1018	Weak second-order splitting schemes for Lagrangian Monte Carlo particle methods for the composition PDF/FDF transport equations. 2010 , 229, 1852-1878	36
1017	Population balance modelling of polydispersed particles in reactive flows. <i>Progress in Energy and Combustion Science</i> , 2010 , 36, 412-443	33.6 100
1016	Strained flamelets for turbulent premixed flames II: Laboratory flame results. 2010 , 157, 1274-1289	36

1015	Prediction of autoignition in a lifted methane/air flame using an unsteady flamelet/progress variable model. 2010 , 157, 1850-1862	157
1014	A RANS flamelet-progress-variable method for computing reacting flows of real-gas mixtures. 2010 , 39, 485-498	49
1013	Large Eddy Simulation of a turbulent non-premixed propane-air reacting flame in a cylindrical combustor. 2010 , 39, 1832-1847	7
1012	Modeling of multiphase combustion and deposit formation in a biomass-fed furnace. 2010 , 35, 3008-3021	37
1011	Validation of an LES Multi Mode Combustion Model for Diesel Combustion. 2010 ,	13
1010	The Effects of Injection Timing and Piston Bowl Shape on PHCCI Combustion with Split injections. 2010 ,	2
1009	Large Eddy Simulation of Scalar Dissipation Rate in an Internal Combustion Engine. 2010 ,	6
1008	On the Application of the Flamelet Generated Manifold (FGM) Approach to the Simulation of an Igniting Diesel Spray. 2010 ,	14
1007	A Consistent Flamelet Model to Describe the Interaction of Combustion Chemistry and Mixing in the Controlled Auto Ignition Regime. 2010 ,	1
1006	Numerical simulation of diesel combustion with a high exhaust gas recirculation rate. 2010 , 11, 17-27	3
1005	Global Reaction Mechanism for Ethylene Flames with Preferential Diffusion. 2010 , 182, 1945-1960	6
1004	Optimization of a high-speed direct-injection diesel engine at low-load operation using computational fluid dynamics with detailed chemistry and a multi-objective genetic algorithm. 2010 , 224, 547-563	13
1003	Computational Study of a Lifted Turbulent Jet Flame in a Cross-flow: Flame Length and Emissions. 2010 , 237-245	1
1002	A Mixed-Mode Combustion Model for Large-Eddy Simulation of Diesel Engines. 2010 , 182, 1279-1320	14
1001	Leading-Edge Flame Fluctuations in Lifted Turbulent Flames. 2010 , 182, 777-793	9
1000	Strategies for presumed PDF modeling for LES with premixed flamelet-generated manifolds. 2010 , 11, N38	6
999	Numerical Study of Emission Characteristics of a Jet Flame in Cross-Flow. 2010 , 182, 1491-1510	16
998	LES of a Meso Combustion Chamber with a Detailed Chemistry Model: Comparison between the Flamelet and EDC Models. 2010 , 3, 1943-1959	14

997	Dual-Pump CARS Measurements of Temperature and Oxygen in a Turbulent Methanol-Fueled Pool Fire. 2010 , 182, 941-959	13
996	An Algebraic Sub-Grid Scale Turbulent Combustion Model. 2010 ,	
995	Modellansätze für die Simulation von Gemischbildung und Verbrennung. 2010 , 88-102	
994	Validation of flow simulation and gas combustion sub-models for the CFD-based prediction of NO _x formation in biomass grate furnaces. 2010 , 15, 61-87	30
993	A Posteriori Error Estimation for Subgrid Flamelet Models. 2010 , 8, 481-497	1
992	3-D Simulation of the combustion process for di-methyl ether-fueled diesel engine. 2010 , 24, 2597-2604	6
991	CFD-Simulation of the Injection and Combustion of LOX and H ₂ at Supercritical Pressures. 2010 ,	7
990	Turbulence-Chemistry Interaction and Heat Transfer Modeling of H ₂ /O ₂ Gaseous Injector Flows. 2010 ,	9
989	Characterization and Sensitivity Analysis of a Turbulent Diffusion Flame in Diluted Hot Coflow. 2010 ,	
988	Modeling of Rocket Combustion Devices. 2010 ,	8
987	Numerical Computations of Particle-Laden Turbulent Reacting Flows: A Large-Eddy Simulation Approach. 2010 ,	1
986	Numerical Studies of the Response of Flamelets to Unsteadiness in the Near-Field of Jets Under Diesel Conditions. 2010 , 182, 717-738	2
985	Dual space analysis of turbulent combustion particle data. 2011 ,	12
984	Damköhler Number Similarity for Static Flame Stability in Gaseous-Fueled Augmentor Flows. 2011 , 183, 718-737	3
983	Reacting Sprays. 2011 , 279-298	1
982	The Flamelet Model for Non-Premixed Combustion. 2011 , 43-61	6
981	Multiple Mapping Conditioning: A New Modelling Framework for Turbulent Combustion. 2011 , 143-173	8
980	Turbulent piloted partially-premixed flames with varying levels of O ₂ /N ₂ : stability limits and PDF calculations. 2011 , 15, 773-793	12

979	Comparison of RANS/CMC modeling of Flame D with conventional and with Presumed Mapping Function statistics. 2011 , 15, 671-690	3
978	Validation of Numerical Simulation of Swirling Turbulent Flow for Hybrid Rocket Research. 2011 ,	1
977	Evaluation of Flame-Prolongation of ILDM and Flamelet Tabulated Chemistry Approaches for Laminar Flames. 2011 ,	0
976	Parallel Adaptive Mesh Renment Scheme with Presumed Conditional Moment and FPI Tabulated Chemistry for Turbulent Non-Premixed Combustion. 2011 ,	
975	Parallel Solution Adaptive Scheme for Three-Dimensional Turbulent Diffusion Flames with Detailed Tabulated Chemistry. 2011 ,	
974	Characterization of Flow Field Structure and Species Composition in a Shear Coaxial Rocket GH ₂ /GO ₂ Injector: Modeling of Wall Heat Losses. 2011 ,	13
973	Numerical Assessment of Emission Sources for a Modified Diesel Engine Running in PCCI Mode on a Mixture of Gasoline and Diesel. 2011 ,	10
972	Numerical simulations of industrial-scale combustion chamber - LES versus RANS. 2011 , 318, 092009	3
971	Understanding ignition processes in spray-guided gasoline engines using high-speed imaging and the extended spark-ignition model SparkCIMM. Part A: Spark channel processes and the turbulent flame front propagation. 2011 , 158, 2229-2244	78
970	Error analysis of large-eddy simulation of the turbulent non-premixed sydney bluff-body flame. 2011 , 158, 2408-2419	52
969	Effects of fuel droplet size on soot formation in spray flames formed in a laminar counterflow. 2011 , 158, 2559-2568	37
968	Effects of ammonia substitution on extinction limits and structure of counterflow nonpremixed hydrogen/air flames. 2011 , 36, 10117-10128	26
967	Creation and application of combined calculation methodology for low emission combustion chamber. 2011 , 54, 170-178	3
966	Quality Issues in Combustion LES. 2011 , 49, 51-64	6
965	The Effect of Preferential Diffusion on the Soot Initiation Process in Ethylene Diffusion Flames. 2011 , 87, 293-312	8
964	On adaptively reduced chemistry in large eddy simulations. 2011 , 33, 1339-1346	18
963	Direct numerical simulation study of evaporation effects in combustion suppression by inert droplets. 2011 , 33, 2581-2590	7
962	Modeling diesel engine combustion using pressure dependent Flamelet Generated Manifolds. 2011 , 33, 2887-2894	68

961	Application of flamelet model to large-eddy simulation of turbulent reacting liquid flows. 2011 , 57, 911-917	6
960	Stabilized finite element computation of NO _x emission in aero-engine combustors. 2011 , 65, 254-270	57
959	A mixture fraction framework for the theory and modeling of droplets and sprays. 2011 , 158, 191-202	42
958	Molecular diffusion effects in LES of a piloted methane/Air flame. 2011 , 158, 240-254	30
957	A study on flame structure and extinction in downstream interaction between lean premixed CH ₄ /Air and (50% H ₂ +50% CO) syngas/Air flames. 2011 , 36, 5717-5728	12
956	Exploratory studies of modeling approaches for hydrogen triple flames. 2011 , 36, 8570-8582	4
955	LES flamelet modeling of a three-stream MILD combustor: Analysis of flame sensitivity to scalar inflow conditions. 2011 , 33, 1309-1317	129
954	Flame edge statistics in turbulent combustion. 2011 , 33, 1439-1446	7
953	Direct numerical simulations and analysis of three-dimensional n-heptane spray flames in a model swirl combustor. 2011 , 33, 2143-2152	123
952	NO prediction in turbulent flames using LES/FGM with additional transport equations. 2011 , 33, 2975-2982	26
951	A variable volume approach of tabulated detailed chemistry and its applications to multidimensional engine simulations. 2011 , 33, 3065-3072	21
950	Reduced-Order Modeling of Turbulent Reacting Flows with Application to Ramjets and Scramjets. 2011 , 27, 371-382	48
949	An efficient approach of unsteady flamelet modeling of a cross-flow-jet combustion system using LES. 2011 , 15, 849-862	7
948	A LES Simulation of a CH ₄ /Air Microcombustor with Detailed Chemistry. 2011 , 183, 554-574	3
947	Numerical modelling of diesel spray auto-ignition and combustion. 2011 , 12, 169-180	2
946	Polymer Combustion as a Basis for Hybrid Propulsion: A Comprehensive Review and New Numerical Approaches. 2011 , 4, 1779-1839	9
945	Theoretical investigation of the performance of alternative aviation fuels in an aero-engine combustion chamber. 2011 , 225, 874-885	5
944	Large eddy simulation subfilter modeling of soot-turbulence interactions. 2011 , 23, 115104	36

943	Three-dimensional computational fluid dynamics simulation of hydrogen engines using a turbulent flame speed closure combustion model. 2012 , 13, 464-481	4
942	Combustion and emission modelling of a direct-injection spark-ignition engine by combining flamelet models for premixed and diffusion flames. 2012 , 16, 1089-1108	11
941	Evaluation of an unsteady flamelet progress variable model for autoignition and flame development in compositionally stratified mixtures. 2012 , 24, 075115	15
940	Modelling thermal radiation in buoyant turbulent diffusion flames. 2012 , 16, 817-841	12
939	Transverse injection of a plane-reacting jet into compressible turbulent channel flow. 2012 , 13, N24	2
938	Simulation of a Shear Coaxial GO_2/GH_2 Rocket Injector with DES and LES Using Flamelet Models. 2012 ,	0
937	Numerical Study of the Influence of Combustion Models and Kinetic Schemes When Predicting the Diffusion Flames. 2012 , 28, 701-713	
936	A mixing controlled direct chemistry (MCDC) model for diesel engine combustion modelling using large eddy simulation. 2012 , 16, 571-588	15
935	Simulation of $CO-H_2$ -Air Turbulent Nonpremixed Flame Using the Eddy Dissipation Concept Model with Lookup Table Approach. 2012 , 2012, 1-11	7
934	On the Generation of Direct Combustion Noise in Turbulent Non-Premixed Flames. 2012 , 11, 25-78	22
933	Unsteady pressure effects on laminar counterflow H_2 /air diffusion flames. 2012 ,	
932	TurbulenceRadiation Interaction: From Theory to Application in Numerical Simulations. 2012 , 134,	37
931	Modelling of Non-Premixed Turbulent Combustion of Hydrogen using Conditional Moment Closure Method. 2012 , 36, 012036	1
930	Numerical Simulation of Soot Formation in Spray Jet Flames. 2012 , 49, 467-477	1
929	- Modeling of Premixed Burning in Turbulent Flows. 2012 , 324-445	
928	Multi-kHz temperature imaging in turbulent non-premixed flames using planar Rayleigh scattering. 2012 , 108, 377-392	35
927	Application of the conditional source-term estimation model for turbulencechemistry interactions in a premixed flame. 2012 , 16, 301-320	27
926	Pressure Oscillation and Chemical Kinetics Coupling during Knock Processes in Gasoline Engine Combustion. 2012 , 26, 7107-7119	38

925	A Spray-Interactive Flamelet Model for Direct Injection Engine Combustion. 2012 , 184, 469-488	5
924	Effects of hydrogen addition on the structure and pollutant emissions of a turbulent unconfined swirling flame. 2012 , 39, 681-688	29
923	Influence of turbulenceRadiation interactions in laboratory-scale methane pool fires. 2012 , 60, 122-130	25
922	Combustion simulation technique for reducing chemical mechanisms using look-up table of chemical equilibrium calculations: Application to CO ₂ /air turbulent non-premixed flame. 2012 , 66, 98-106	6
921	An extended multi-regime flamelet model for IC engines. 2012 , 159, 2767-2776	36
920	Partially premixed reacting acetone spray using LES and FGM tabulated chemistry. 2012 , 159, 2718-2741	75
919	The role of turbulent fluctuations on radiative emission in hydrogen and hydrogen-enriched methane flames. 2012 , 37, 12741-12750	7
918	Combustion characteristics of H ₂ /N ₂ and H ₂ /CO syngas nonpremixed flames. 2012 , 37, 16186-16200	21
917	Regularization of reaction progress variable for application to flamelet-based combustion models. 2012 , 231, 7715-7721	114
916	Influence of heat release and turbulence on scalar dissipation rate in autoigniting n-heptane/air mixtures. 2012 , 159, 2883-2895	20
915	One-dimensional-turbulence simulation of flame extinction and reignition in planar ethylene jet flames. 2012 , 159, 2930-2943	21
914	Kernel density weighted principal component analysis of combustion processes. 2012 , 159, 2844-2855	26
913	Numerical simulation of transcritical strained laminar flames. 2012 , 159, 2829-2840	14
912	Modelling effects of subgrid-scale mixture fraction variance in LES of a piloted diffusion flame. 2012 , 16, 611-638	30
911	Progress Toward Affordable High Fidelity Combustion Simulations for High-Speed Flows in Complex Geometries. 2012 ,	4
910	Potential of in-cylinder exhaust gas recirculation stratification for combustion and emissions in diesel engines. 2012 , 226, 547-559	3
909	Multi-Dimensional Flamelet Modeling of Multiple Injection Diesel Engines. 2012 ,	8
908	Modeling Fuel Spray Auto-ignition using the FGM Approach: Effect of Tabulation Method. 2012 ,	6

907	Detailed Simulations of Stratified Ignition and Combustion Processes in a Spray-Guided Gasoline Engine using the SparkCIMM/G-Equation Modeling Framework. 2012 , 5, 141-161	15
906	A Critical Evaluation of Turbulence Modeling in a Model Combustor. 2012 ,	2
905	A Numerical Study of the Effect of EGR on Flame Lift-off in n-Heptane Sprays Using a Novel PaSR Model Implemented in OpenFOAM. 2012 , 5, 604-610	7
904	Tabulated chemistry approaches for laminar flames: Evaluation of flame-prolongation of ILDM and flamelet methods. 2012 , 16, 31-57	16
903	Validation of Submodels for CFD Simulation of n-Hexane Pool Flames including Interferometry. 2012 , 84, 484-490	
902	Numerical investigation of a DI diesel spray flame using a detailed chemical reaction mechanism. 2012 , 13, 365-372	0
901	Turbulence Resolution Scale Dependence in Large-Eddy Simulations of a Jet Flame. 2012 , 88, 529-561	12
900	Flame structure investigations of oxy-fuel combustion. 2012 , 93, 52-58	24
899	Experimental investigation of bio-butanol laminar non-premixed flamelets. 2012 , 93, 296-304	14
898	Laminar flamelet modeling of a turbulent CH ₄ /H ₂ /N ₂ jet diffusion flame using artificial neural networks. 2012 , 36, 2082-2093	24
897	On the formation and early evolution of soot in turbulent nonpremixed flames. 2012 , 159, 317-335	157
896	Capabilities and limitations of multi-regime flamelet combustion models. 2012 , 159, 242-264	63
895	Modeling non-premixed laminar co-flow flames using flamelet-generated manifolds. 2012 , 159, 230-241	49
894	Scalar and its dissipation in the near field of turbulent lifted jet flame. 2012 , 159, 591-608	24
893	Reactive parametrized scalar profiles (R-PSP) mixing model for partially premixed combustion. 2012 , 159, 734-747	5
892	A filter-independent model identification technique for turbulent combustion modeling. 2012 , 159, 1960-1970	26
891	LES model for sooting turbulent nonpremixed flames. 2012 , 159, 2166-2180	98
890	Numerical study of Mild combustion with entrainment of burned gas into oxidizer and/or fuel streams. 2012 , 159, 2155-2165	42

889	Verification of variable-density flow solvers using manufactured solutions. 2012 , 231, 3801-3827	41
888	Visual analysis of particle behaviors to understand combustion simulations. 2012 , 32, 22-33	8
887	Numerical investigation of tube furnace toxicity measurement method (ISO 19700). 2012 , 36, 17-30	1
886	Theoretical analysis of flamelet model for supersonic turbulent combustion. 2012 , 55, 193-205	26
885	Multi-kHz mixture fraction imaging in turbulent jets using planar Rayleigh scattering. 2012 , 106, 457-471	40
884	DNS investigation on flame structure and scalar dissipation of a supersonic lifted hydrogen jet flame in heated coflow. 2013 , 38, 9886-9896	28
883	Influence of thermal radiation on soot production in Laminar axisymmetric diffusion flames. 2013 , 120, 52-69	30
882	Radiation Combined with Conduction and Convection. 2013 , 724-778	2
881	Combustion of Low-Calorific Waste Biomass Syngas. 2013 , 91, 749-772	13
880	Heat Transfer Modeling in the Context of Large Eddy Simulation of Premixed Combustion with Tabulated Chemistry. 2013 , 91, 867-893	56
879	A Critical Evaluation of Turbulence Modeling in a Model Combustor. 2013 , 5,	2
878	Effects of confinement on premixed turbulent swirling flame using large Eddy simulation. 2013 , 17, 1003-1019	24
877	Large eddy simulation of fuel variability and flame dynamics of hydrogen-enriched nonpremixed flames. 2013 , 107, 2-13	15
876	Experimental and computational study of soot evolution in a turbulent nonpremixed bluff body ethylene flame. 2013 , 160, 1298-1309	39
875	Large eddy simulation of soot evolution in an aircraft combustor. 2013 , 25, 110812	43
874	Hydrogen-enriched non-premixed jet flames: Compositional structures with near-wall effects. 2013 , 38, 5150-5164	15
873	A theoretical analysis of the influence of turbulence on radiative emission in turbulent diffusion flames of methane. 2013 , 160, 610-617	15
872	Auto-ignition and combustion of diesel spray using unsteady laminar flamelet model. 2013 , 52, 420-427	14

871	An accelerated multi-zone model for engine cycle simulation of homogeneous charge compression ignition combustion. 2013 , 14, 416-433	26
870	Numerical and experimental investigations on the influence of preheating and dilution on transition of laminar coflow diffusion flames to Mild combustion regime. 2013 , 160, 2359-2374	23
869	Small scales, many species and the manifold challenges of turbulent combustion. 2013 , 34, 1-31	205
868	Effect of addition of a non-equidiffusional reactant to an equidiffusional diffusion flame. 2013 , 17, 563-576	10
867	Conditional statistics of the turbulent/non-turbulent interface in a jet flow. 2013 , 731, 615-638	26
866	Chemical kinetic uncertainty quantification for Large Eddy Simulation of turbulent nonpremixed combustion. 2013 , 34, 1299-1306	26
865	Evaluation of radiation modeling approaches for non-premixed flamelets considering a laminar methane air flame. 2013 , 160, 251-264	22
864	Complex chemistry DNS of n-heptane spray autoignition at high pressure and intermediate temperature conditions. 2013 , 160, 1254-1275	83
863	A tabulated chemistry method for spray combustion. 2013 , 34, 1659-1666	68
862	Burning syngas in a high swirl burner: Effects of fuel composition. 2013 , 38, 9028-9042	26
861	Hydrogen-enriched nonpremixed jet flames: Effects of preferential diffusion. 2013 , 38, 4848-4863	33
860	Manifold resolution study of the FGM method for an igniting diesel spray. 2013 , 113, 228-238	22
859	Numerical modeling of sooting tendencies in a laminar co-flow diffusion flame. 2013 , 160, 1657-1666	29
858	MG-local-PCA method for reduced order combustion modeling. 2013 , 34, 1117-1123	29
857	Measurements and statistics of mixture fraction and scalar dissipation rates in turbulent non-premixed jet flames. 2013 , 160, 1767-1778	16
856	A novel transient turbulent jet flame for studying turbulent combustion. 2013 , 34, 1251-1259	20
855	Large eddy simulations of wake-stabilised flares. 2013 , 112, 35-47	3
854	A priori testing of a two-dimensional unsteady flamelet model for three-feed combustion systems. 2013 , 34, 1317-1324	25

853	Propagation velocity and flame stretch measurements in co-flowing partially premixed flames with widely varying premixedness. 2013 , 160, 1345-1356	10
852	Large-eddy simulation of a piloted premixed jet burner. 2013 , 160, 2896-2910	30
851	Advances in combustion and propulsion applications. 2013 , 40, 87-106	33
850	Analysis of entropy generation in a hydrogen-enriched turbulent non-premixed flame. 2013 , 38, 5961-5973	34
849	Numerical Modeling of NO _x Formation in Turbulent Flames Using a Kinetic Post-processing Technique. 2013 , 27, 1104-1122	37
848	A simple spray flamelet model: Influence of ambient temperature and fuel concentration, vaporisation source and fuel injection position. 2013 , 17, 522-542	3
847	New spray flamelet equations considering evaporation effects in the mixture fraction space. 2013 , 103, 1154-1157	10
846	Two-dimensional direct numerical simulation of spray flames - Part 1: Effects of equivalence ratio, fuel droplet size and radiation, and validity of flamelet model. 2013 , 104, 515-525	52
845	Prediction of multiphase combustion and ash deposition within a biomass furnace. 2013 , 101, 413-422	37
844	Direct Numerical Simulation and Conditional Statistics of Hydrogen/Air Turbulent Premixed Flames. 2013 , 27, 549-560	13
843	Investigation of conditional source-term estimation applied to a non-premixed turbulent flame. 2013 , 17, 960-982	16
842	A Novel Methodology for Chemical Time Scale Evaluation with Detailed Chemical Reaction Kinetics. 2013 , 27, 2255-2265	59
841	Large-Eddy Simulation of a Gas Turbine Model Combustor. 2013 ,	1
840	Simultaneous Krypton PLIF, LII and PIV Measurements in a Sooting Jet Flame. 2013 ,	3
839	Simulations of Diesel Sprays Using the Conditional Moment Closure Model. 2013 , 6, 1249-1261	17
838	GPU-accelerated Software Library for Unsteady Flamelet Modeling of Turbulent Combustion with Complex Chemical Kinetics. 2013 ,	1
837	Volumetric PIV and 2D OH PLIF imaging in the far-field of a low Reynolds number nonpremixed jet flame. 2013 , 24, 024003	15
836	Evaluation of an Unsteady Flamelet Progress Variable Model for Autoignition and Flame Lift-Off in Diesel Jets. 2013 , 185, 454-472	58

835	Gradient trajectory analysis in a Jet flow for turbulent combustion modelling. 2013 , 14, 147-164	16
834	Assessment of the Performance of Several Turbulence and Combustion Models in the Numerical Simulation of a Flameless Combustor. 2013 , 185, 600-626	36
833	Large Eddy Simulation of Swirling Combustion Flow with Wall Fuel Blowing modeled for Hybrid Rocket Engines. 2013 ,	1
832	Improvement of Combustion Stability under Cold Ambient Condition by Mixture Control. 2013 , 6, 1021-1034	4
831	Reduced Kinetic Mechanisms for Diesel Spray Combustion Simulations. 2013 ,	9
830	Improved Lagrangian CMC for Simulation of Combustion Under Diesel-like Condition. 2013 ,	
829	Modeling of Conventional and Early Diesel Injection Combustion Characteristics using FGM Approach. 2013 ,	1
828	Conditional Source-Term Estimation for the Numerical Simulation of Turbulent Combustion in Homogeneous-Charge SI Engines. 2014 ,	
827	Computations of Soot and NO in Lifted Flames under Diesel Conditions. 2014 ,	2
826	Experimental and Numerical Investigation of Confined Jets in Hot Co-Flow. 2014 ,	1
825	Review of cavity-stabilized combustion for scramjet applications. 2014 , 228, 2718-2735	62
824	Modelling of turbulent lifted jet flames using flamelets: a priori assessment and a posteriori validation. 2014 , 18, 295-329	50
823	Inverse analysis and regularisation in conditional source-term estimation modelling. 2014 , 18, 474-499	20
822	A Detailed Validation Study of Multi-Environment Eulerian Probability Density Function Transport Method for Modeling Turbulent Nonpremixed Combustion. 2014 , 136,	0
821	Heat Transfer in Reacting Cooling Films: Part I Influence and Validation of Combustion Modelling in CFD Simulations. 2014 ,	
820	Numerical and Theoretical Analysis of Laminar Counterflowing Spray Flames for Use in Turbulent Combustion Modeling. 2014 ,	
819	NO Prediction in Turbulent Diffusion Flame Using Multiple Unsteady Laminar Flamelet Modeling. 2014 , 136,	3
818	CFD Simulation of Deflagration to Detonation Transition for Nuclear Safety. 2014 ,	

817	A Priori Analysis of Flamelet-based Modeling for a Dual-Mode Scramjet Combustor. 2014,	8
816	Turbulence / Chemistry Interactions in a Ramp-Stabilized Supersonic Hydrogen-Air Diffusion Flame. 2014,	6
815	Development and Application of Numerical Technology for simulation of different combustion types in high-speed viscous gas turbulent flows. 2014,	2
814	Numerical Simulations of Combustive Flows in a Swirling-Oxidizer-Flow-Type Hybrid Rocket. 2014,	14
813	Influence of turbulence-chemistry interaction for n-heptane spray combustion under diesel engine conditions with emphasis on soot formation and oxidation. 2014, 18, 330-360	49
812	Nonpremixed Counterflow Flames: Scaling Rules for Batch Simulations. 2014, 2014, 1-7	13
811	Assessment of the presumed mapping function approach for the stationary laminar flamelet modelling of reacting double scalar mixing layers. 2014, 18, 552-581	2
810	A new approach to model turbulent lifted CH ₄ /air flame issuing in a vitiated coflow using conditional moment closure coupled with an extinction model. 2014, 161, 197-209	11
809	Tabulated chemistry approach for diluted combustion regimes with internal recirculation and heat losses. 2014, 161, 2120-2136	46
808	Numerical Redesign of 100kw MGT Combustor for 100% H ₂ fueling. 2014, 45, 1412-1421	16
807	A flamelet-based a priori analysis on the chemistry tabulation of polycyclic aromatic hydrocarbons in non-premixed flames. 2014, 161, 1516-1525	17
806	Recent advances in high-speed planar Rayleigh scattering in turbulent jets and flames: increased record lengths, acquisition rates, and image quality. 2014, 115, 197-213	41
805	A multiple mapping conditioning model for differential diffusion. 2014, 26, 025107	11
804	Recent progress and challenges in exploiting graphics processors in computational fluid dynamics. 2014, 67, 528-564	53
803	Scalar dissipation rate measurements in a starting jet. 2014, 55, 1	9
802	Modeling curvature effects in diffusion flames using a laminar flamelet model. 2014, 161, 1294-1309	39
801	Developments in computational fluid dynamics-based modeling for disinfection technologies over the last two decades: A review. 2014, 58, 71-85	46
800	Assessing LES models based on tabulated chemistry for the simulation of Diesel spray combustion. 2014, 161, 525-540	59

799	Soot volume fraction measurements in a forest fuel layer. 2014 , 56, 61-68	6
798	Thermochemical Wear of Refractory Linings Associated With Gas Firing in Metallurgical Plants. 2014 , 85, 527-536	6
797	Comparison of well-mixed and multiple representative interactive flamelet approaches for diesel spray combustion modelling. 2014 , 18, 65-88	100
796	Application and theoretical analysis of the flamelet model for supersonic turbulent combustion flows in the scramjet engine. 2014 , 18, 652-691	17
795	Modeling of Gasifiers: Overview of Current Developments. 2014 , 1-28	1
794	Reduced-order PCA models for chemical reacting flows. 2014 , 161, 2785-2800	29
793	Numerical investigation of high pressure and high Reynolds diffusion flame using Large Eddy Simulation. 2014 , 23, 412-421	2
792	CFD-Simulation eines direkt befeuerten Ofens zur Vorbehandlung feuerverzinkter Stahlbänder. 2014 , 159, 310-311	2
791	Numerical Simulation of Non-premixed Turbulent Combustion Using the Eddy Dissipation Concept and Comparing with the Steady Laminar Flamelet Model. 2014 , 93, 577-605	17
790	Direct numerical simulation and reaction rate modelling of premixed turbulent flames. 2014 , 39, 12158-12165	6
789	Influence of evaporation on spray flamelet structures. 2014 , 161, 987-996	49
788	Modeling of PCCI combustion with FGM tabulated chemistry. 2014 , 118, 91-99	17
787	A bifurcation analysis for limit flame phenomena of DME/air in perfectly stirred reactors. 2014 , 161, 1716-1723	29
786	Formation, growth, and transport of soot in a three-dimensional turbulent non-premixed jet flame. 2014 , 161, 1849-1865	86
785	Conditional reaction rate in a lifted turbulent H ₂ /N ₂ flame using direct numerical simulation. 2014 , 39, 2703-2714	2
784	Evaluation of a steady flamelet approach for use in oxy-fuel combustion. 2014 , 118, 55-68	45
783	Effects of ambient pressure and precursors on soot formation in spray flames. 2014 , 25, 1376-1387	12
782	Assessment of model assumptions and budget terms of the unsteady flamelet equations for a turbulent reacting jet-in-cross-flow. 2014 , 161, 2601-2613	28

781	Numerical simulation of turbulent combustion: Scientific challenges. 2014 , 57, 1495-1503	14
780	Simulation of turbulent non-premixed and partially premixed flames using a look-up table. 2014 , 9, JTST0003-JTST000	
779	Effects of finite-rate chemistry and detailed transport on the instability of jet diffusion flames. 2014 , 745, 647-681	4
778	Ignition, flame structure and near-wall burning in transverse hydrogen jets in supersonic crossflow. 2015 , 780, 226-273	61
777	A Pareto-efficient combustion framework with submodel assignment for predicting complex flame configurations. 2015 , 162, 4208-4230	50
776	A new multi-dimensional flamelet generated manifolds approach for approximating partially premixed flame structure. 2015 , 10, JTST0017-JTST0017	2
775	Development of Combined Dual-Pump Vibrational and Pure-Rotational Coherent Anti-Stokes Raman Scattering (DPVCARS and PRCARS) Systems and their Application to Laminar Counter-flow Flames. 2015 ,	
774	Investigation of subgrid-scale mixing of reactive scalar perturbations from flamelets in turbulent partially premixed flames. 2015 , 162, 4149-4157	4
773	Conditional Moment Closure Modelling of a Lifted H ₂ /N ₂ Turbulent Jet Flame Using the Presumed Mapping Function Approach. 2015 , 2015, 1-24	
772	Experimental and Numerical Studies on Combustion Model Selection for Split Injection Spray Combustion. 2015 ,	12
771	Study on PM Formation Behavior in Laminar Diffusion Flames of Diesel Fuel with Fatty Acids. 2015 ,	
770	Numerical Study on the Multiple Injection Strategy in Diesel Engines using a Modified 2-D Flamelet Model. 2015 ,	
769	Combustion Modeling in Heavy Duty Diesel Engines Using Detailed Chemistry and Turbulence-Chemistry Interaction. 2015 ,	7
768	RANS predictions of turbulent diffusion flames: comparison of a reactor and a flamelet combustion model to the well stirred approach. 2015 , 19, 81-106	11
767	LES and Multi-Step Chemical Reaction in Compartment Fires. 2015 , 68, 711-736	21
766	Advanced regression methods for combustion modelling using principal components. 2015 , 162, 2592-2601	19
765	Advances in the Simulation of Turbulent Combustion. 2015 ,	1
764	A flamelet model for supersonic non-premixed combustion with pressure variation. 2015 , 29, 1550117	8

- 763 Numerical investigation of the effect of reaction models on the supersonic combustion of liquid kerosene. **2015**,
- 762 Boundary conditions treatment for supercritical flows with tabulated thermochemistry. **2015**,
- 761 Numerical Simulations of a Turbulent High-Pressure Premixed Cooled Jet Flame With the Flamelet Generated Manifolds Technique. **2015**, 137, 5
- 760 Experimental and Numerical Investigation in a Turbocharged GDI Engine Under Knock Condition by Means of Conventional and Non-Conventional Methods. **2015**, 8, 437-446 12
- 759 Effect of molecular transport on PDF modeling of turbulent non-premixed flames. **2015**, 35, 1137-1145 17
- 758 Rate-ratio asymptotic analysis of the structure and mechanisms of extinction of nonpremixed CH₄/N₂O₂/N₂ flames. **2015**, 35, 945-953 3
- 757 Partial premixing and stratification in turbulent flames. **2015**, 35, 1115-1136 96
- 756 Multicomponent transport in laminar flames. **2015**, 35, 625-637 17
- 755 Assessment of Turbulence-Chemistry Interaction Models in MILD Combustion Regime. **2015**, 94, 439-478 33
- 754 Surrogate fuels for the simulation of diesel engine combustion of novel biofuels. **2015**, 16, 531-546 11
- 753 Three-dimensional numerical analysis of diesel combustion under cold ambient conditions. **2015**, 16, 68-80 5
- 752 Computational fluid dynamics modeling of combustion in heavy-duty diesel engines. **2015**, 16, 112-124 20
- 751 Rate-Ratio Asymptotic Analysis of the Influence of Addition of Hydrogen on the Structure and Mechanisms of Extinction of Nonpremixed Methane Flames. **2015**, 187, 3-26 3
- 750 Soot Formation in Unstrained Diffusion Flames. **2015**, 187, 577-593 2
- 749 Modeling Combustion Chemistry in Large Eddy Simulation of Turbulent Flames. **2015**, 94, 3-42 65
- 748 Heat Transfer in Reacting Cooling Films: Influence and Validation of Combustion Modeling in Numerical Simulations. **2015**, 137, 0
- 747 Development of a novel flamelet-based model to include preferential diffusion effects in autoignition of CH₄/H₂ flames. **2015**, 162, 4358-4369 31
- 746 Extinction limits and structure of counterflow nonpremixed hydrogen-doped ammonia/air flames at elevated temperatures. **2015**, 85, 503-510 19

745	CFD and experimental analysis of a 115kW natural gas fired lab-scale furnace under oxy-fuel and airfuel conditions. 2015 , 159, 864-875	34
744	The usability and limits of the steady flamelet approach in oxy-fuel combustions. 2015 , 90, 1478-1489	21
743	Survey of Turbulent Combustion Models for Large-Eddy Simulations of Propulsive Flowfields. 2015 ,	5
742	Assessment of semi-empirical soot production models in C1 $\bar{3}$ axisymmetric laminar diffusion flames. 2015 , 73, 76-90	6
741	A multi-scale asymptotic scaling and regime analysis of flamelet equations including tangential diffusion effects for laminar and turbulent flames. 2015 , 162, 1507-1529	32
740	Modeling interactions between chemistry and turbulence for simulations of partial oxidation processes. 2015 , 134, 231-242	15
739	Framework for real-gas compressible reacting flows with tabulated thermochemistry. 2015 , 101, 1-16	30
738	Direct numerical simulation of a supersonic lifted hydrogen jet flame: A priori study on combustion models. 2015 , 109, 52-64	8
737	A computational approach to flame hole dynamics using an embedded manifold approach. 2015 , 296, 209-240	2
736	An SMLD Joint PDF Model for Turbulent Non-Premixed Combustion Using the Flamelet Progress-Variable Approach. 2015 , 95, 97-119	9
735	Engine Combustion Network (ECN): Global sensitivity analysis of Spray A for different combustion vessels. 2015 , 162, 2337-2347	50
734	A Priori Analysis of a Compressible Flamelet Model using RANS Data for a Dual-Mode Scramjet Combustor. 2015 ,	11
733	IDDES simulation of supersonic combustion using flamelet modeling. 2015 ,	3
732	Flamelet/progress variable modeling of partial oxidation systems: From laboratory flames to pilot-scale reactors. 2015 , 134, 694-707	18
731	On large eddy simulation of blended CH ₄ H ₂ swirling inverse diffusion flames: The impact of hydrogen concentration on thermal and emission characteristics. 2015 , 40, 15732-15748	6
730	Application of the steady flamelet model on a lab-scale and an industrial furnace for different oxygen concentrations. 2015 , 91, 451-464	23
729	Numerical investigation of high-pressure combustion in rocket engines using Flamelet/Progress-variable models. 2015 ,	3
728	Experimental and numerical studies on a trapped vortex combustor with different struts width. 2015 , 91, 91-104	17

727	Heat release and UV-vis radiation in non-premixed hydrogen-oxygen flames. 2015 , 56, 1	10
726	Vibrational CARS thermometry and one-dimensional simulations in laminar H ₂ /air counter-flow diffusion flames. 2015 , 40, 10662-10672	6
725	An a-posteriori evaluation of principal component analysis-based models for turbulent combustion simulations. 2015 , 162, 4025-4035	10
724	Extinction limits and structure of counterflow nonpremixed H ₂ O-laden CH ₄ /air flames. 2015 , 93, 442-450	29
723	On the generalisation of the mixture fraction to a monotonic mixing-describing variable for the flamelet formulation of spray flames. 2015 , 19, 773-806	18
722	Ignition, Liftoff, and Extinction of Gaseous Diffusion Flames. 2015 , 47, 293-314	44
721	IDDES simulation of hydrogen-fueled supersonic combustion using flamelet modeling. 2015 , 40, 683-691	22
720	Modelling and control of pollutant formation in blast stoves. 2015 , 88, 254-261	23
719	An efficient flamelet-based combustion model for compressible flows. 2015 , 162, 652-667	60
718	Combustion kinetic model uncertainty quantification, propagation and minimization. <i>Progress in Energy and Combustion Science</i> , 2015 , 47, 1-31	33.6 178
717	Numerical simulation of the flue gas side of refining vacuum furnace using CFD. 2015 , 123, 70-80	4
716	Damköhler number effects on soot formation and growth in turbulent nonpremixed flames. 2015 , 35, 1215-1223	37
715	Effects of aromatic chemistry-turbulence interactions on soot formation in a turbulent non-premixed flame. 2015 , 35, 1911-1919	31
714	Analysis of segregation and bifurcation in turbulent spray flames: A 3D counterflow configuration. 2015 , 35, 1675-1683	42
713	Numerical investigation of the steady flamelet approach under different combustion environments. 2015 , 140, 731-743	48
712	A numerical study on the influence of airstream dilution and jet velocity on NO emission characteristics of CH ₄ and DME bluff-body flames. 2015 , 142, 73-80	8
711	The influence of carbon monoxide and hydrogen on the structure and extinction of nonpremixed and premixed methane flames. 2015 , 35, 955-963	7
710	Large eddy simulation of a partially-premixed gas turbine model combustor. 2015 , 35, 1225-1234	50

709	Reacting Flows and the Interaction between Turbulence and Chemistry. 2016,	
708	Soot Model Calibration Based on Laser Extinction Measurements. 2016,	2
707	Combustion Modeling of Diesel Sprays. 2016,	4
706	Novel Tabulated Combustion Model Approach for Lifted Spray Flames with Large Eddy Simulations. 2016, 9, 2056-2065	16
705	Effect of gas-phase carbon depletion by sooting on the structure of methane/air flamelets. 2016, 95, 82-91	
704	Application of Conditional Source-term Estimation to two turbulent non-premixed methanol flames. 2016, 20, 765-797	6
703	Consistent flamelet modeling of differential molecular diffusion for turbulent non-premixed flames. 2016, 28, 035102	18
702	Investigation of Single-Jet Combustor Near Lean Blowout Conditions Using Flamelet-Generated Manifold Combustion Model and Detailed Chemistry. 2016, 138,	1
701	The evolution of local instability regions in turbulent non-premixed flames. 2016, 803, 18-50	4
700	Numerical Investigation of Soot Formation in Turbulent Diffusion Flame With Strong Turbulence-Chemistry Interaction. 2016, 8,	6
699	CO ₂ -Rich Combustion. 2016, 1-21	
698	Devolatilization and volatiles reaction of individual coal particles in the context of FGM tabulated chemistry. 2016, 169, 72-84	40
697	Assessment of different chemistry reduction methods based on principal component analysis: Comparison of the MG-PCA and score-PCA approaches. 2016, 168, 83-97	19
696	Effects of non-unity Lewis number of gas-phase species in turbulent nonpremixed sooting flames. 2016, 166, 192-202	38
695	Soot and nitric oxide modeling in reacting diesel jets with an unsteady flamelet progress variable model. 2016, 230, 503-513	
694	Large Eddy Simulation of the Sandia Flame E and F Using Dynamic Second-Order Moment Closure (DSMC) Model. 2016, 107-112	
693	Compliance of combustion models for turbulent reacting flow simulations. 2016, 186, 853-863	29
692	Survey of Turbulent Combustion Models for Large-Eddy Simulations of Propulsive Flowfields. 2016, 54, 2930-2946	16

691	Flamelet combustion model for stratified EGR distribution in a diesel engine. 2016 , 17, 739-750	3
690	Flamelet LES of a semi-industrial pulverized coal furnace. 2016 , 173, 39-56	63
689	On the laminar finite rate model and flamelet model for supersonic turbulent combustion flows. 2016 , 41, 13238-13253	20
688	Hysteresis of mode transition in a dual-struts based scramjet. 2016 , 128, 147-159	18
687	Investigation and recovery of purge gas streams to enhance synthesis gas production in a mega methanol complex. 2016 , 16, 157-168	15
686	On the influence of the correlation between enthalpy defect and mixture fraction in sooting turbulent jet flames. 2016 , 184, 68-75	2
685	Effect of heat loss on laminar flamelet species concentration. 2016 , 25, 418-423	1
684	High-resolution LES of a starting jet. 2016 , 140, 435-449	14
683	The Discrete Regime of Flame Propagation in Metal Particulate Clouds. 2016 , 188, 2178-2199	11
682	Analysis of the flamelet model for calculation of emissions of pollutants by combustors. 2016 , 54, 541-546	
681	Numerical Simulation of Liquid Kerosene Combustion in a Dual-Mode Scramjet Combustor Using Flamelet/Progress Variable Approach. 2016 ,	2
680	Computing supersonic non-premixed turbulent combustion by an SMLD flamelet progress variable model. 2016 , 41, 632-646	9
679	Numerical analysis of the transient heating of steel billets and the combustion process under air-fired and oxygen enriched conditions. 2016 , 103, 252-263	29
678	Coupled numerical simulation of combustion and regenerative cooling in LOX/Methane rocket engines. 2016 , 106, 762-773	42
677	Mechanism of gas explosion suppression through the use of vacuum chamber with different volumes. 2016 , 8, 27-38	
676	Assessment of flamelet versus multi-zone combustion modeling approaches for stratified-charge compression ignition engines. 2016 , 17, 280-290	26
675	Simulation Using Flamelet Radiation Modeling. 2016 ,	
674	Flamelet Modeling Studies of a Continuously Variable Resonance Combustor. 2016 ,	2

673	Modeling of spray jet flame under MILD condition with non-adiabatic FGM and a new conditional droplet injection model. 2016 , 165, 402-423	38
672	Numerical investigation of counter-flow diffusion flame of biogas/hydrogen blends: Effects of biogas composition, hydrogen enrichment and scalar dissipation rate on flame structure and emissions. 2016 , 41, 2011-2022	30
671	Transported scalar PDF modeling of oxygen-enriched turbulent jet diffusion flames: Soot production and radiative heat transfer. 2016 , 178, 37-48	14
670	Application and effect of negative pressure chambers on pipeline explosion venting. 2016 , 41, 8-17	8
669	Effects of soot absorption coefficient/Planck function correlation on radiative heat transfer in oxygen-enriched propane turbulent diffusion flame. 2016 , 172, 50-57	13
668	Characterizing spray flame/vortex interaction: A spray spectral diagram for extinction. 2016 , 163, 100-114	9
667	On formulating a simplified soot model for diesel and biodiesel combustion. 2016 , 144, 249-259	8
666	A computationally inexpensive CFD approach for small-scale biomass burners equipped with enhanced air staging. 2016 , 115, 32-42	29
665	Impact of interaction between cavity flow and mainstream on the performance of a model trapped vortex combustor. 2016 , 230, 1181-1200	2
664	Simulation of high-pressure methane flames. 2016 ,	
663	Radiation-Based Validation of Combustion Simulations and Comparison to Heat Release in Rocket Engines. 2016 ,	1
662	Comparative study of thermal radiation properties models in turbulent non-premixed sooting combustion. 2016 , 69, 166-179	8
661	Di-n-butylether, n-octanol, and n-octane as fuel candidates for diesel engine combustion. 2016 , 163, 66-78	58
660	Effects of fuel injection parameters on the performance of homogeneous charge compression ignition at low-load conditions. 2016 , 17, 413-420	14
659	Prediction of the heating characteristic of billets in a walking hearth type reheating furnace using CFD. 2016 , 92, 675-688	57
658	Modelling of methanol and H ₂ /CO bluff-body flames using RANS based turbulence models with conditional moment closure model. 2016 , 93, 561-570	12
657	An investigation of methane and propane vertical flares. 2016 , 89, 793-806	5
656	Simulation of Ethylene Wall Fires Using the Spatially-Evolving One-Dimensional Turbulence Model. 2016 , 52, 167-196	7

655	Numerical study of a wake-stabilized propane flame in a cross-flow of air. 2017 , 90, 145-158	5
654	Modeling MILD combustion using a novel multistage FGM method. 2017 , 36, 4269-4277	22
653	A unified view of pilot stabilized turbulent jet flames for model assessment across different combustion regimes. 2017 , 36, 1693-1703	16
652	Computational analysis of a semi-industrial furnace fired by a flat flame burner under different O ₂ /N ₂ ratios using the steady laminar flamelet approach. 2017 , 90, 602-612	16
651	CFD analysis of a pusher type reheating furnace and the billet heating characteristic. 2017 , 115, 986-994	42
650	Adaptive hierarchical construction of ReactionDiffusion Manifolds for simplified chemical kinetics. 2017 , 36, 663-672	11
649	Understanding the ignition mechanism of high-pressure spray flames. 2017 , 36, 2615-2623	69
648	Highly resolved flamelet LES of a semi-industrial scale coal furnace. 2017 , 36, 3371-3379	21
647	Reduced combustion mechanism for C-C hydrocarbons and its application in computational fluid dynamics flare modeling. 2017 , 67, 599-612	6
646	Advances and challenges in modeling high-speed turbulent combustion in propulsion systems. <i>Progress in Energy and Combustion Science</i> , 2017 , 60, 26-67	33.6 55
645	Non-Adiabatic Tabulation Methods to predict Wall-Heat Loads in Rocket Combustion. 2017 ,	2
644	REDIM reduced modeling of flame-wall-interactions: Quenching of a premixed methane/air flame at a cold inert wall. 2017 , 36, 655-661	13
643	A Comparative Analysis of Single Nozzle and Multiple Nozzles Arrangements for Syngas Combustion in Heavy Duty Gas Turbine. 2017 , 139,	5
642	A Review on Autoignition in Laminar and Turbulent Nonpremixed Flames. 2017 , 11-37	
641	Turbulent Mixing and Combustion of Supercritical Jets. 2017 ,	1
640	Comparison of Flamelet/Progress-Variable and Finite-Rate Chemistry LES Models in a Preconditioning Scheme. 2017 ,	14
639	LES Simulation of the Cambridge Stratified Flame Using Optimized Virtual Mechanisms. 2017 ,	
638	Assessment of Differential Diffusion Effects on Soot Evolution in Piloted Non-premixed Turbulent Flames. 2017 ,	1

637	A spray flamelet/progress variable approach combined with a transported joint PDF model for turbulent spray flames. 2017 , 21, 575-602	15
636	Numerical Study of Inlet Turbulators Effect on the Thermal Characteristics of a Jet Propulsion-Fueled Combustor and Its Hazardous Pollutants Emission. 2017 , 139,	0
635	A comparison of different approaches to integrate flamelet tables with presumed-shape PDF in flamelet models for turbulent flames. 2017 , 21, 603-629	7
634	Two Compressibility Corrections to Flamelet/Progress Variable Model for Supersonic Combustion. 2017 ,	0
633	Linearized correction to a flamelet-based model for hydrogen-fueled supersonic combustion. 2017 , 42, 11937-11944	13
632	Advanced Biofuels and Beyond: Chemistry Solutions for Propulsion and Production. 2017 , 56, 5412-5452	175
631	Synthese, motorische Verbrennung, Emissionen: Chemische Aspekte des Kraftstoffdesigns. 2017 , 129, 5500-5544	35
630	A computational study of a small-scale biomass burner: The influence of chemistry, turbulence and combustion sub-models. 2017 , 143, 203-217	24
629	A flamelet model for transcritical LOx/GCH4 flames. 2017 , 821, 012010	1
628	A 5-D Implementation of FGM for the Large Eddy Simulation of a Stratified Swirled Flame with Heat Loss in a Gas Turbine Combustor. 2017 , 98, 887-922	33
627	Effects of pressure on structure and extinction limits of counterflow nonpremixed water-laden methane/air flames. 2017 , 134, 545-553	15
626	Numerical study of CO2 effects on laminar non-premixed biogas flames employing a global kinetic mechanism and the Flamelet-Generated Manifold technique. 2017 , 203, 671-685	5
625	Evaluation of the approximated diffusion flamelet concept using fuels with different chemical complexity. 2017 , 49, 354-374	4
624	A general probabilistic approach for the quantitative assessment of LES combustion models. 2017 , 183, 88-101	18
623	Sensitivity of predictions to chemical kinetics models in a temporally evolving turbulent non-premixed flame. 2017 , 183, 224-241	23
622	Importance of turbulence-chemistry interactions at low temperature engine conditions. 2017 , 183, 283-298	41
621	Stratified turbulent flames: Recent advances in understanding the influence of mixture inhomogeneities on premixed combustion and modeling challenges. <i>Progress in Energy and Combustion Science</i> , 2017 , 62, 87-132	33.6 60
620	Examination of the effect of differential molecular diffusion in DNS of turbulent non-premixed flames. 2017 , 42, 11879-11892	9

619	Flame structure analysis and flamelet progress variable modelling of strained coal flames. 2017 , 21, 700-721	40
618	Flow Field and Scalar Measurements in a Series of Turbulent Partially-Premixed Dimethyl Ether/Air Jet Flames. 2017 , 180, 40-52	11
617	Numerical investigation of biogas diffusion flames characteristics under several operation conditions in counter-flow configuration with an emphasis on thermal and chemical effects of CO ₂ in the fuel mixture. 2017 , 53, 2701-2710	4
616	Study about the link between injection strategy and knock onset in an optically accessible multi-cylinder GDI engine. 2017 , 134, 1-19	43
615	Evaluation of coal particle volatiles reaction by using detailed kinetics and FGM tabulated chemistry. 2017 , 201, 39-52	18
614	Influence of soot aging on soot production for laminar propane diffusion flames. 2017 , 210, 472-481	8
613	The Effects of the Air-Fuel Velocity Ratio on Turbulent Non-Premixed Bluff-Body Flames. 2017 ,	
612	CFD modelling and performance increase of a pusher type reheating furnace using oxy-fuel burners. 2017 , 120, 462-468	15
611	Experimental and numerical study of MILD combustion in a lab-scale furnace. 2017 , 120, 395-402	17
610	An experimental and numerical study of MILD combustion in a Cyclonic burner. 2017 , 120, 649-656	17
609	Comparison of Temperature Fields and Emissions Predictions Using Both an FGM Combustion Model, With Detailed Chemistry, and a Simple Eddy Dissipation Combustion Model With Simple Global Chemistry. 2017 ,	1
608	Evaluation of flamelet/progress variable model for laminar pulverized coal combustion. 2017 , 29, 083607	42
607	Flamelet regime characterization for non-premixed turbulent combustion simulations. 2017 , 186, 220-235	1
606	Comparison of Tabulation and Correlated Dynamic Evaluation of Real Fluid Properties for Supercritical Mixing. 2017 ,	10
605	A general calorimetry framework for measurement of combustion efficiency in a suppressed turbulent line fire. 2017 , 92, 164-176	14
604	Dissipation element analysis of a turbulent non-premixed jet flame. 2017 , 29, 085103	12
603	Comparison between solid body and gas radiation in high temperature furnaces under different oxygen enrichments. 2017 , 127, 679-688	8
602	NO formation of opposed-jet syngas diffusion flames: Strain rate and dilution effects. 2017 , 42, 24517-24531	7

601	Numerical modelling of pollutant formation in a lifted methane/air vertical diffusion flame. 2017 , 3, 1302543	1
600	Implementation of Detailed Chemistry Mechanisms in Engine Simulations. 2017 ,	
599	Subwoofer and nanotube butterfly acoustic flame extinction. 2017 , 50, 29LT01	2
598	Numerical simulations of turbulent flows in aeroramp injector/gas-pilot flame scramjet. 2017 , 30, 1373-1390	6
597	Assessment of soot formation models in lifted ethylene/air turbulent diffusion flame. 2017 , 3, 49-61	10
596	A Flamelet Model with Heat-Loss Effects for Predicting Wall-Heat Transfer in Rocket Engines. 2017 ,	8
595	Flame thickness and conditional scalar dissipation rate in a premixed temporal turbulent reacting jet. 2017 , 184, 273-285	23
594	Analysis of the Formation and Interaction of Nitrogen Oxides in a Rapeseed Methyl Ester Nonpremixed Turbulent Flame. 2017 , 31, 8708-8721	11
593	On the mechanism of effective chemical reactions with turbulent mixing of reactants and finite rate of molecular reactions. 2017 , 124, 172-181	
592	Local extinction and reignition mechanism in a turbulent lifted flame: A direct numerical simulation study. 2017 , 36, 1685-1692	10
591	Spatially localized radiating diffusion flames. 2017 , 176, 117-124	5
590	An equivalent dissipation rate model for capturing history effects in non-premixed flames. 2017 , 176, 202-212	10
589	Lagrangian conditional moment closure model with flame group interaction for lifted turbulent spray jet flames. 2017 , 21, 419-439	4
588	Unsteady dynamics of PAH and soot particles in laminar counterflow diffusion flames. 2017 , 36, 927-934	17
587	The large-activation-energy analysis of extinction of counterflow diffusion flames with non-unity Lewis numbers of the fuel. 2017 , 175, 91-106	16
586	Building-up virtual optimized mechanism for flame modeling. 2017 , 36, 1251-1258	15
585	Combustion and Engine-Core Noise. 2017 , 49, 277-310	60
584	A two mixture fraction flamelet model for large eddy simulation of turbulent flames with inhomogeneous inlets. 2017 , 36, 1767-1775	39

583	In-situ tracking of mixture fraction gradient trajectories and unsteady flamelet analysis in turbulent non-premixed combustion. 2017 , 175, 243-258	17
582	Comparative study of non-premixed and partially-premixed combustion simulations in a realistic Tay model combustor. 2017 , 110, 910-920	19
581	Visualizing turbulent flames using flamelet libraries. 2017 , 175, 237-242	0
580	Large eddy simulation of turbulent combustion by a dynamic second-order moment closure model. 2017 , 187, 457-467	9
579	Stochastic modeling of unsteady extinction in turbulent non-premixed combustion. 2017 , 36, 1677-1684	0
578	MMC-LES simulations of turbulent piloted flames with varying levels of inlet inhomogeneity. 2017 , 36, 1759-1766	34
577	A criterion to distinguish autoignition and propagation applied to a lifted methane-air jet flame. 2017 , 36, 1637-1644	47
576	Rate-ratio asymptotic analysis of the influence of addition of carbon monoxide on the structure and mechanisms of extinction of nonpremixed methane flames with comparison to experiments. 2017 , 175, 107-117	3
575	Rate-ratio asymptotic analysis of the influence of stoichiometric mixture fraction on structure and extinction of laminar, nonpremixed methane flames with comparison to experiments. 2017 , 36, 1495-1503	4
574	Flamelet LES modeling of coal combustion with detailed devolatilization by directly coupled CPD. 2017 , 36, 2181-2189	69
573	Representative interactive flamelet model and flamelet/progress variable model for supersonic combustion flows. 2017 , 36, 2937-2946	17
572	A generalized kinetic model with variable octane number for engine knock prediction. 2017 , 188, 489-499	13
571	A flamelet/progress variable approach for modeling coal particle ignition. 2017 , 201, 29-38	29
570	Scalar dissipation rate based multi-zone model for early-injected and conventional diesel engine combustion. 2017 , 175, 138-154	11
569	Lean Blowout Limit Prediction in a Combustor with the Pilot Flame. 2017 , 141, 273-281	7
568	Combustion. 2017 , 1-30	3
567	Implementation of a Tabulated Flamelet Model for Compression Ignition Engine Applications. 2017 , ,	4
566	Numerical Analysis of the Combustion and Emission Characteristics of Diesel Engines with Multiple Injection Strategies Using a Modified 2-D Flamelet Model. 2017 , 10, 1292	12

565	LES of n-Dodecane Spray Combustion Using a Multiple Representative Interactive Flamelets Model. 2017 , 72, 29	22
564	Influence of Nozzle Eccentricity on Spray Structures in Marine Diesel Sprays. 2017 ,	3
563	Prediction of a Small-Scale Pool Fire with FireFoam. 2017 , 2017, 1-12	6
562	Modeling n-dodecane Spray Combustion with a Representative Interactive Linear Eddy Model. 2017	
561	Understanding the Influences of Thermal and Mixture Inhomogeneities on the Auto-Ignition Process in a Controlled Auto-Ignition (CAI) Engine Using LES. 2017 , 72, 33	1
560	RANS Modelling of Turbulence in Combustors. 2017 ,	1
559	The Role of Turbulent-Chemistry Interaction in Simulating End-of-Injection Combustion Transients in Diesel Sprays. 2017 ,	1
558	COMPUTATIONAL STUDY ON COMBUSTION AND EMISSION CHARACTERISTIC OF PILOTED FLAMES BY VARYING COMPOSITION CO ₂ OF SIMULATED BIOGAS. 2017 , 79,	
557	A new EDC approach for modeling turbulence/chemistry interaction of the gas-phase of biomass combustion. 2018 , 220, 420-436	15
556	Simulating turbulence-radiation interactions using a presumed probability density function method. 2018 , 121, 911-923	7
555	Investigation of combustion characteristics in a scramjet combustor using a modified flamelet model. 2018 , 148, 32-40	9
554	Sooting limits of non-premixed counterflow ethylene/oxygen/inert flames using LII: Effects of flow strain rate and pressure (up to 30 atm). 2018 , 195, 267-281	18
553	Assessment of combustion models for numerical simulations of a turbulent non-premixed natural gas flame inside a cylindrical chamber. 2018 , 190, 1528-1556	5
552	Nonadiabatic Flamelet Formulation for Predicting Wall Heat Transfer in Rocket Engines. 2018 , 56, 2336-2349	30
551	Numerically accurate computational techniques for optimal estimator analyses of multi-parameter models. 2018 , 22, 480-504	9
550	Impact of direct integration of Analytically Reduced Chemistry in LES of a sooting swirled non-premixed combustor. 2018 , 191, 270-286	23
549	Turbulent Spray Combustion. 2018 , 277-312	
548	Assessment of a novel numerical model for combustion and in-flight heating of particles in an industrial furnace. 2018 , 91, 817-827	5

547	Numerical Investigation of Reacting Flow in a Methane Rocket Combustor: Turbulence Modeling. 2018 , 34, 864-877	20
546	Modelling heat loss effects in high temperature oxy-fuel flames with an efficient and robust non-premixed flamelet approach. 2018 , 216, 44-52	15
545	Soot Predictions in Higher Order Hydrocarbon Flames: Assessment of Semi-Empirical Models and Method of Moments. 2018 , 335-361	
544	Conditional Moment Closure Methods for Turbulent Non-premixed Combustion. 2018 , 291-310	
543	The diffusive sheet method for scalar mixing. 2018 , 837, 230-257	8
542	Comparison of Finite-Rate Chemistry and Flamelet/Progress-Variable Models II: Sandia Flame E. 2018 ,	1
541	Combustion Efficiencies and Flameout Limits Computed for a Hypersonic Vehicle During Ascent. 2018 , 34, 624-635	6
540	Including real fuel chemistry in LES of turbulent spray combustion. 2018 , 193, 397-416	30
539	Laminar near-wall combustion: Analysis of tabulated chemistry simulations by means of detailed kinetics. 2018 , 70, 259-270	20
538	In situ adaptive tabulation (ISAT) for combustion chemistry in a network of perfectly stirred reactors (PSRs) for the investigation of soot formation and growth. 2018 , 113, 196-208	
537	A representative linear eddy model for simulating spray combustion in engines (RILEM). 2018 , 193, 1-15	6
536	CFD-based optimization of a transient heating process in a natural gas fired furnace using neural networks and genetic algorithms. 2018 , 138, 217-234	11
535	Performance analysis of a steady flamelet model for the use in small-scale biomass combustion under extreme air-staged conditions. 2018 , 91, 534-548	11
534	Sensitivity analysis of skeletal reaction mechanisms for use in CFD simulation of oxygen enhanced combustion systems. 2018 , 91, 369-388	8
533	Combustion and soot modelling of a high-pressure and high-temperature Dodecane spray. 2018 , 19, 434-448	17
532	Model form uncertainty quantification in turbulent combustion simulations: Peer models. 2018 , 187, 137-146	8
531	A computational analysis of local flow for reacting Diesel sprays by means of an Eulerian CFD model. 2018 , 99, 257-272	10
530	A calibrated soot production model for ethylene inverse diffusion flames at different Oxygen Indexes. 2018 , 212, 1-11	5

529	Recent Progress in Turbulent Combustion Modeling of Spray Flames Using Flamelet Models. 2018 , 477-512	3
528	Mechanics and Modelling of Turbulence-Combustion Interaction. 2018 , 3-43	
527	Nonpremixed and premixed flamelets LES of partially premixed spray flames using a two-phase transport equation of progress variable. 2018 , 188, 227-242	31
526	A novel formulation for unsteady counterflow flames using a thermal-conductivity-weighted coordinate. 2018 , 22, 185-201	6
525	Advances in understanding combustion phenomena using non-premixed and partially premixed counterflow flames: A review. 2018 , 10, 38-71	6
524	Periodic Partial Extinction in Acoustically Coupled Fuel Droplet Combustion. 2018 , 189, 46-61	18
523	Numerical Studies of Combustion Recession on ECN Diesel Spray A. 2018 ,	2
522	A Numerical Study on the Sensitivity of Soot and NOx Formation to the Operating Conditions in Heavy Duty Engines. 2018 ,	1
521	Prediction of a methane circular pool fire with fireFoam. 2018 , 240, 05026	
520	EFFECTS OF TURBULENCE-RADIATION INTERACTIONS IN A NON-PREMIKED TURBULENT METHANE-AIR FLAME. 2018 , 17, 63	
519	Detailed Chemical Kinetics Based Simulation of Detonation-Containing Flows. 2018 ,	4
518	A generalized flamelet tabulation method for partially premixed combustion. 2018 , 198, 54-68	14
517	Extinction limits and structure of counterflow nonpremixed methane-ammonia/air flames. 2018 , 165, 314-325	19
516	Prediction of Pollutant Emissions from Bluff-Body Stabilised Nonpremixed Flames. 2018 , 2018, 1-11	1
515	Consistent modeling of differential molecular diffusion to yield desired Reynolds-number power-law scaling. 2018 , 30, 085108	4
514	Numerical Study of the Effects of Nanoparticles on Fuel Diffusion Combustion. 2018 , 413, 012081	1
513	Characteristics of NOx emissions of counterflow nonpremixed water-laden methane/air flames. 2018 , 164, 523-535	5
512	Modeling of ash formation and deposition processes in coal and biomass fired boilers: A comprehensive review. 2018 , 230, 1447-1544	75

511	CFD-model to predict the local and time-dependent scale formation of steels in air- and oxygen enriched combustion atmospheres. 2018 , 143, 822-835	10
510	Experimental study of the stabilization mechanism of a lifted Diesel-type flame using combined optical diagnostics and laser-induced plasma ignition. 2018 , 197, 215-226	17
509	A systematic approach to high-fidelity modeling and efficient simulation of supercritical fluid mixing and combustion. 2018 , 195, 203-215	17
508	Prediction of hot coke oven gas reforming by LES coupled with the extended flamelet/progress variable approach. 2018 , 231, 234-243	6
507	On the particle evolution in iron pentacarbonyl loaded counterflow methane/air flame. 2018 , 194, 1-14	5
506	Numerical Investigation of Moderate or Intense Low-Oxygen Dilution Combustion in a Cyclonic Burner Using a Flamelet-Generated Manifold Approach. 2018 , 32, 10242-10255	24
505	FGM with REDx: chemically reactive dimensionality extension. 2018 , 22, 1103-1133	1
504	Dynamic adaptive combustion modeling of spray flames based on chemical explosive mode analysis. 2018 , 195, 30-39	21
503	Numerical Study of Supersonic Turbulent Combustion by Flamelet/Progress Variable Model. 2018 ,	
502	Global quasi-linearization (GQL) versus QSSA for a hydrogen-air auto-ignition problem. 2018 , 20, 10770-10779	4
501	Structure and behavior of water-laden CH ₄ /air counterflow diffusion flames. 2018 , 196, 439-451	20
500	Large-eddy simulation of multiphase combustion jet in cross-flow using flamelet model. 2018 , 108, 211-225	15
499	Heat Transfer and Combustion Simulation of a 7-Element GOX/GCH ₄ Rocket Combustor. 2018 ,	9
498	Variance consistent mean shift particle model for treating differential molecular diffusion in transported PDF methods for turbulent reactive flows. 2018 , 170, 53-76	7
497	Assessment of steady and unsteady flamelet models for MILD combustion modeling. 2018 , 43, 15551-15563	18
496	Non-Adiabatic Flamelet Modeling for the Numerical Simulation of Methane Combustion in Rocket Thrust Chambers. 2018 ,	10
495	Wall-Modeled Large Eddy Simulation of Supersonic Combustion using Flamelet/Progress-Variable Modeling. 2018 ,	1
494	Interaction of Water Spray with Flame. 2018 , 151-186	1

493	Theoretical study of non-adiabatic counter-flow diffusion flames propagating through a volatile biomass fuel taking into account drying and vaporization processes. 2018 , 179, 184-196	13
492	Development and testing of a soot particle concentration estimator using Lagrangian post-processing. 2018 , 12, 236-249	5
491	Large Eddy Simulation of a Novel Gas-Assisted Coal Combustion Chamber. 2018 , 101, 895-926	24
490	Development of a numerical approach based on coupled CFD/FEM analysis for virtual fire resistance tests Part A: Thermal analysis of the gas phase combustion and different test specimens. 2018 , 43, 34	2
489	Numerical studies of turbulent swirling reacting flows using LES and URANS. 2018 , 134, 89-100	3
488	Emission imaging and CFD simulation of a coaxial single-element GOX/GCH ₄ rocket combustor. 2018 ,	5
487	Application of a progress variable based approach for modeling non-premixed/partially premixed combustion under high-pressure conditions. 2018 ,	0
486	A three mixture fraction flamelet model for multi-stream laminar pulverized coal combustion. 2019 , 37, 2901-2910	24
485	Partially premixed flamelet in LES of acetone spray flames. 2019 , 37, 3327-3334	14
484	Decreasing liftoff height behavior in diluted laminar lifted methane jet flames. 2019 , 37, 2005-2012	11
483	Numerical simulations of turbulent lifted jet diffusion flames in a vitiated coflow using the stochastic multiple mapping conditioning approach. 2019 , 37, 2199-2206	5
482	The role of tangential diffusion in evaluating the performance of flamelet models. 2019 , 37, 1767-1774	12
481	Large Eddy Simulation of a Premixed Flame in Hot Vitiated Crossflow With Analytically Reduced Chemistry. 2019 , 141,	4
480	Conditional dynamic subfilter modeling. 2019 , 31, 085107	1
479	Flamelet tabulation methods for solid fuel combustion with fuel-bound nitrogen. 2019 , 209, 155-166	14
478	Wavelet-based algorithm for correction of beam-steering artefacts in turbulent flow imaging at elevated pressures. 2019 , 60, 1	4
477	Multi-dimensional and transient effects on flamelet modeling for turbulent pulverized coal combustion. 2019 , 255, 115772	5
476	Numerical investigation of flow and scalar fields of piloted, partially-premixed dimethyl ether/air jet flames using stochastic multiple mapping conditioning approach. 2019 , 208, 480-491	

475	Closure of the scalar dissipation rate in the spray flamelet equations through a transport equation for the gradient of the mixture fraction. 2019 , 208, 330-350	5
474	Influence of the n-dodecane chemical mechanism on the CFD modelling of the diesel-like ECN Spray A flame structure at different ambient conditions. 2019 , 208, 198-218	15
473	Large eddy simulation of a turbulent flame using tabulated chemistry with a novel multivariate PDF. 2019 , 33, 181-201	2
472	Heat flux evaluation in a multi-element CH ₄ /O ₂ rocket combustor using an inverse heat transfer method. 2019 , 142, 118425	9
471	Statistics of Scalar Dissipation and Strain/Vorticity/Scalar Gradient Alignment in Turbulent Nonpremixed Jet Flames. 2019 , 103, 625-642	2
470	OpenFOAM based conditional moment closure (CMC) model for solving non-premixed turbulent combustion: Integration and validation. 2019 , 190, 362-373	4
469	A self-contained composition space solution method for strained and curved premixed flamelets. 2019 , 207, 342-355	14
468	Effect of In-cylinder Flow Structures on Late Cycle Soot Oxidation in a Quiescent Heavy-duty Diesel Engine. 2019 , 1-21	2
467	A framework for data-based turbulent combustion closure: A posteriori validation. 2019 , 210, 279-291	19
466	Molecular diffusion and phase stability in high-pressure combustion. 2019 , 210, 302-314	4
465	Effect of the wall thermal boundary condition on the structure of a confined swirling diffusion flame. 2019 , 41, 1	0
464	Heat Transfer and Combustion Simulation of Seven-Element O ₂ /CH ₄ Rocket Combustor. 2019 , 35, 1080-1097	16
463	Conjugate Heat Transfer Simulation of a Subscale Rocket Thrust Chamber Using a Timescale Based Frozen Non-Adiabatic Flamelet Combustion Model. 2019 ,	5
462	Application of dynamic zone flamelet model to a GH ₂ /GO ₂ rocket combustor. 2019 ,	2
461	An efficient finite-rate chemistry model for a preconditioned compressible flow solver and its comparison with the flamelet/progress-variable model. 2019 , 210, 172-182	4
460	Large Eddy Simulation of Supersonic Combustion using the Flamelet/Progress-Variable Approach and the Evolution-Variable Manifold Approach. 2019 ,	1
459	The uniform conditional state model for turbulent reacting flows. 2019 , 205, 484-505	8
458	Development and application of a numerically efficient model describing a rotary hearth furnace using CFD. 2019 , 180, 79-89	8

457	Soot formation in laminar counterflow flames. <i>Progress in Energy and Combustion Science</i> , 2019 , 74, 152-338	156
456	Study on nonpremixed methane/air combustion from flame structure and NOX emission aspect for different burner head structures. 2019 , 43, 5421-5437	3
455	Thermal performance enhancement of non-premixed syngas combustion in a partial combustion unit by winged nozzle: Experimental and CFD study. 2019 , 182, 148-158	5
454	Effects of turbulence-chemistry interactions on auto-ignition and flame structure for n-dodecane spray combustion. 2019 , 23, 907-934	9
453	A framework for data-based turbulent combustion closure: A priori validation. 2019 , 206, 490-505	11
452	Numerical Modeling for N-Heptane Spray Combustion Processes with Various Ambient Oxygen Concentrations. 2019 , 20, 629-638	1
451	Introducing chemical kinetics into Large Eddy Simulation of turbulent reacting flows. 2019 , 45, 899-936	2
450	Modeling and simulation of turbulent nuclear flames in Type Ia supernovae. 2019 , 108, 156-179	8
449	A combined PPAC-RCCE-ISAT methodology for efficient implementation of combustion chemistry. 2019 , 23, 1021-1053	2
448	Influence of flow topology and scalar structure on flame-tangential diffusion in turbulent non-premixed combustion. 2019 , 206, 21-36	8
447	A novel soot concentration field estimator applied to sooting ethylene/air laminar flames. 2019 , 13, 470-481	2
446	Effect of the burner position on an austenitizing process in a walking-beam type reheating furnace. 2019 , 153, 633-645	12
445	Flamelet Model for a Three-Feed Non-premixed Combustion System with a Diluent Stream: Analysis and Validation of Quasi-Two-Dimensional Flamelet (Q2DF) Models. 2019 , 33, 4640-4650	7
444	Large Eddy Simulation-Based Turbulent Combustion Models for Reactive Sprays: Recent Advances and Future Challenges. 2019 , 99, 25-41	1
443	A priori study of an extended flamelet/progress variable model for NO prediction in pulverized coal flames. 2019 , 175, 768-780	11
442	Predicting lean blow-off of bluffbody stabilized flames based on Damkřler number. 2019 , 32, 308-323	7
441	Numerical investigation of auto-igniting turbulent lifted CH ₄ /air jet diffusion flames in a vitiated co-flow using a RANS based stochastic multiple mapping conditioning approach. 2019 , 203, 362-374	4
440	Modelling compression ignition engines by incorporation of the flamelet generated manifolds combustion closure. 2019 , 23, 414-438	4

439	A hybrid EDC/Flamelet approach for modelling biomass combustion of grate-firing furnace. 2019 , 23, 716-747	4
438	Large Eddy Simulation of a Syngas Jet Flame: Effects of Preferential Diffusion and Turbulence-Chemistry Interaction. 2019 , 33, 5561-5581	5
437	Reynolds-Averaged Navier-Stokes Simulations of Turbulence-Radiation Interaction in a Turbulent Diffusion Jet Flame. 2019 , 33, 875-879	4
436	Examination of errors of table integration in flamelet/progress variable modeling of a turbulent non-premixed jet flame. 2019 , 72, 369-384	17
435	Investigating the effect of oxy-fuel combustion and light coal volatiles interaction: A mass spectrometric study. 2019 , 204, 320-330	20
434	Computational investigations of the coupling between transient flame dynamics and thermo-acoustic instability in a self-excited resonance combustor. 2019 , 23, 854-884	1
433	Large-eddy simulation of turbulent autoigniting hydrogen lifted jet flame with a multi-regime flamelet approach. 2019 , 44, 6313-6324	7
432	Determining the heating characteristics of non-spherical particles in combusting flows. 2019 , 151, 124-133	5
431	On the non-equilibrium models for subfilter scalar variance in large eddy simulation of turbulent mixing and combustion. 2019 , 31, 025112	6
430	Adaptive chemistry lookup tables for combustion simulations using optimal B-spline interpolants. 2019 , 23, 674-699	7
429	An asymptotic analysis for detailed mathematical modeling of counter-flow non-premixed multi-zone laminar flames fueled by lycopodium particles. 2019 , 30, 2137-2168	1
428	Detailed simulations for flamelet modelling of SO _x formation from coal. 2019 , 19, e201900367	
427	Evaluation of real-fluid flamelet/progress variable model for laminar hydrothermal flames. 2019 , 143, 232-241	6
426	Implementation of Detailed Chemistry Mechanisms in Engine Simulations. 2019 , 141,	4
425	Effect of multiscale subfilter PDF models in LES of turbulent flames with inhomogeneous inlets. 2019 , 37, 2287-2295	17
424	Description of the char conversion process in coal combustion based on premixed FGM chemistry. 2019 , 236, 124-134	18
423	Analytical modeling of counterflow non-premixed organic particles combustion: Thermal radiation effects. 2019 , 185, 139-150	8
422	A hybrid flamelet finite-rate chemistry approach for efficient LES with a transported FDF. 2019 , 199, 183-193	10

4 ²¹	A Computationally Efficient Turnkey Approach to Turbulent Combustion Modeling: From Elusive Fantasy to Impending Reality. 2019 ,	2
4 ²⁰	Accounting for complex chemistry in the simulations of future turbulent combustion systems. 2019 ,	5
4 ¹⁹	A Novel Strategy to Identify Dynamically Dominant Inter-Scale Couplings for Application to Large-Eddy Simulation of Premixed Turbulent Combustion. 2019 ,	
4 ¹⁸	Kinematic Relationships between Physical and Fourier Space in Premixed Turbulent Combustion for Application to Large-Eddy Simulation. 2019 ,	
4 ¹⁷	Requirements Towards Predictive Simulations of Turbulent Combustion. 2019 ,	1
4 ¹⁶	Flamelet Modeling of Transverse Thermo-Acoustic Instability in a Multi-Element Combustor. 2019 ,	2
4 ¹⁵	Analysis and flamelet modelling for laminar pulverised coal combustion considering the wall effect. 2019 , 23, 353-375	3
4 ¹⁴	Flame Structure Analysis and Flamelet/Progress Variable Modelling of DME/Air Flames with Different Degrees of Premixing. 2019 , 102, 757-773	1
4 ¹³	Sensible-Enthalpy-Based Conditional Moment Closure Model for Homogeneous Charge Compression Ignition with Temperature Inhomogeneity. 2019 , 102, 775-794	1
4 ¹²	Manifold assumptions in modeling radiation heat losses in turbulent nonpremixed combustion. 2019 , 37, 2223-2230	3
4 ¹¹	Model reduction and mechanism comparison of hydrogen/oxygen auto-ignition. 2019 , 37, 781-787	2
4 ¹⁰	A Novel In Situ Flamelet Tabulation Methodology for the Representative Interactive Flamelet Model. 2020 , 192, 1-25	1
4 ⁰⁹	Large Eddy Simulation on the Effects of Pressure on Syngas/Air Turbulent Nonpremixed Jet Flames. 2020 , 192, 1963-1996	3
4 ⁰⁸	A comprehensive study of flamelet tabulation methods for pulverized coal combustion in a turbulent mixing layer [Part I: A priori and budget analyses. 2020 , 216, 439-452	15
4 ⁰⁷	Application of deep artificial neural networks to multi-dimensional flamelet libraries and spray flames. 2020 , 21, 151-168	28
4 ⁰⁶	Development of a virtual optimized chemistry method. Application to hydrocarbon/air combustion. 2020 , 211, 281-302	9
4 ⁰⁵	Modeling diesel combustion with tabulated kinetics and different flame structure assumptions based on flamelet approach. 2020 , 21, 89-100	5
4 ⁰⁴	Understanding the diesel-like spray characteristics applying a flamelet-based combustion model and detailed large eddy simulations. 2020 , 21, 134-150	3

403	Effects of hydrogen enrichment of methane on diffusion flame structure and emissions in a back-pressure combustion chamber. 2020 , 45, 5971-5986		5
402	Premixed flames subjected to extreme turbulence: Some questions and recent answers. <i>Progress in Energy and Combustion Science</i> , 2020 , 76, 100802	33.6	64
401	A novel method to automate FGM progress variable with application to igniting combustion systems. 2020 , 24, 221-244		5
400	Investigations on Emission Characteristics of a Liquid-Fueled Trapped Vortex Combustor. 2020 , 29, 69-80		3
399	The Effect of Different Reaction Mechanisms on Combustion Simulation of a Reverse-Flow Combustor. 2020 , 29, 793-812		1
398	Chemical effects of hydrogen addition on soot formation in counterflow diffusion flames: Dependence on fuel type and oxidizer composition. 2020 , 213, 14-25		27
397	Effects of Soret diffusion on turbulent non-premixed H ₂ jet flames. 2020 , 213, 39-51		4
396	The role of dilution level and canonical configuration in the modeling of MILD combustion systems with internal recirculation. 2020 , 264, 116840		15
395	Prediction of local extinctions in piloted jet flames with inhomogeneous inlets using unstrained flamelets. 2020 , 212, 415-432		11
394	Fast and accurate CFD-model for NO _x emission prediction during oxy-fuel combustion of natural gas using detailed chemical kinetics. 2020 , 264, 116841		29
393	Simulation of the GO _x /GCH ₄ Multi-Element Combustor Including the Effects of Radiation and Algebraic Variable Turbulent Prandtl Approaches. 2020 , 13, 5009		1
392	Large Eddy Simulation of soot evolution in turbulent reacting flows: Strain-Sensitive Transport Approach for Polycyclic Aromatic Hydrocarbons. 2020 , 220, 219-234		2
391	Deep Residual Networks for Flamelet/progress Variable Tabulation with Application to a Piloted Flame with Inhomogeneous Inlet. 2020 , 1-27		9
390	Dissipation element analysis of non-premixed jet flames. 2020 , 905,		6
389	Influences of turbulence modeling on particle-wall contacts in numerical simulations of industrial furnaces for thermal particle treatment. 2020 , 373, 497-509		3
388	Multiscale Simulation of the Formation of Platinum-Particles on Alumina Nanoparticles in a Spray Flame Experiment. 2020 , 5, 201		2
387	Hierarchical model form uncertainty quantification for turbulent combustion modeling. 2020 , 221, 288-295		0
386	A computationally-efficient method for flamelet calculations. 2020 , 221, 94-102		1

385	On the application of dynamic zone flamelet model to large eddy simulation of supersonic hydrogen flame. 2020 , 45, 21940-21955	8
384	Comparison between numerical and experimental data of the radiative heat transfer in a natural gas/CO ₂ /H ₂ turbulent flame. 2020 , 281, 118740	3
383	Large eddy simulation of a turbulent non-premixed flame based on the flamelet-generated manifolds approach and a reduced mechanism verification. 2020 , 105, 105952	5
382	REDIM-PFDF modelling of turbulent partially-premixed flame with inhomogeneous inlets using top-hat function for multi-stream mixing problem. 2020 , 107, 106258	1
381	Numerical simulation of reacting flow in the combustion chamber and study of the impact of turbulent diffusion coefficients. 2020 , 12, 168781402095497	
380	Numerical Investigation of High Pressure CO ₂ -Diluted Combustion Using a Flamelet-based Approach. 2020 , 192, 2028-2049	2
379	A Flamelet-based Numerical Framework for the Simulation of Low-to-high Mach Number Flows in LRE. 2020 ,	
378	Effects of diluents on the lifted flame characteristics in laminar nonpremixed coflow propane jets. 2020 , 222, 145-151	2
377	A Numerically Efficient Method for the Prediction of Nitrogen Oxide Emissions in Industrial Furnaces. 2020 , 91, 2000239	
376	Large eddy simulation of spray combustion using flamelet generated manifolds combined with artificial neural networks. 2020 , 2, 100021	23
375	Artificial Neural Networks for Chemistry Representation in Numerical Simulation of the Flamelet-Based Models for Turbulent Combustion. 2020 , 8, 80020-80029	3
374	Simulation of ECN diesel spray A using conditional source-term estimation. 2020 , 24, 725-760	5
373	Derivation and analysis of two-dimensional composition space equations for multi-regime combustion using orthogonal coordinates. 2020 , 218, 205-217	3
372	Wall heat transfer prediction in CH ₄ /O ₂ and H ₂ /O ₂ rocket thrust chambers using a non-adiabatic flamelet model. 2020 , 174, 254-269	7
371	Large-eddy simulation of hydrothermal flames using extended flamelet/progress variable approach. 2020 , 163, 104843	1
370	Assessment of various tar and soot treatment methods and a priori analysis of the steady laminar flamelet model for use in coal combustion simulation. 2020 , 265, 116775	5
369	Effect of oxygen enrichment in spectral thermal radiation in an unconfined turbulent bluff-body flame. 2020 , 247, 106958	
368	Design, manufacture and test of a micro-turbine renewable energy combustor. 2020 , 213, 112782	7

367	A virtual chemical mechanism for prediction of NO emissions from flames. 2020 , 24, 872-902	1
366	Flamelet tabulation methods for SOx formation in pulverized solid fuel combustion. 2020 , 218, 150-167	2
365	A mixture fraction space model for counterflow diffusion flames with incident electric field. 2020 , 218, 260-275	2
364	Optimized Design of a Swirler for a Combustion Chamber of Non-Premixed Flame Using Genetic Algorithms. 2020 , 13, 2240	3
363	REDIM reduced chemistry for the simulation of counterflow diffusion flames with oscillating strain rates. 2020 , 24, 682-704	5
362	Thermal dissipation rate measurements in turbulent non-premixed jet flames: dissipation length scales, layer structure, and the impact of flow turbulence. 2020 ,	
361	Numerical study of the laminar premixed flame stabilization on a slot burner: comparison between detailed and FGM models. 2020 , 42, 1	0
360	Comparison of combustion models based on fast chemistry assumption in large eddy simulation of pool fire. 2020 , 42, 1	4
359	Parametric investigation of a large two-stroke marine high-pressure direct injection engine by using computational fluid dynamics method. 2020 , 234, 699-711	
358	Large-eddy simulation of a bluff-body stabilised nonpremixed flame with radiation heat transfer. 2020 , 24, 632-649	4
357	Flamelet chemistry model for efficient axisymmetric counterflow flame simulations with realistic nozzle geometries and gravitational body force. 2020 , 24, 926-952	1
356	Implementation of high dimensional flamelet manifolds for supersonic combustion using deep neural networks. 2020 ,	2
355	Scrutiny of residual nitrogen content and different nozzle designs on NOx formation during oxy-fuel combustion of natural gas. 2020 , 277, 118065	6
354	Dual-Scale Flamelet/Progress Variable Approach for Prediction of Polycyclic Aromatic Hydrocarbons Formation under the Condition of Coal Combustion. 2020 , 34, 10010-10018	0
353	Modellierung und Simulation am Lehrstuhl für Thermoprozesstechnik. 2020 , 165, 308-311	
352	Large eddy simulations and analysis of NO emission characteristics in a laboratory pulverized coal flame. 2020 , 279, 118316	2
351	Effects on numerical calculations of in-flight particle trajectories and temperatures considering multiple particle size and shape. 2020 , 7-8, 100021	2
350	A new burner to characterize laminar diffusion flames generated from wildland fuels. 2020 , 114, 102947	1

349	A comprehensive study of flamelet tabulation methods for pulverized coal combustion in a turbulent mixing layerPart II: Strong heat losses and multi-mode combustion. 2020 , 216, 453-467	8
348	Physically-derived reduced-order manifold-based modeling for multi-modal turbulent combustion. 2020 , 214, 287-305	8
347	Application of a flamelet-based CFD combustion model to the LES simulation of a diesel-like reacting spray. 2020 , 200, 104419	11
346	Large eddy simulation of a partially pre-vaporized ethanol reacting spray using the multiphase DTF/flamelet model. 2020 , 125, 103216	8
345	Modeling Temperature Variations in MILD Combustion Using MuSt-FGM. 2020 , 6,	0
344	Large eddy simulation of turbulent diffusion jet flames based on novel modifications of flamelet generated manifolds. 2020 , 216, 398-411	1
343	Entrainment studies in inverse jet flame port burner. 2020 , 216, 338-353	3
342	Comparison of Finite Rate Chemistry and Flamelet/Progress-Variable Models: Sandia Flames and the Effect of Differential Diffusion. 2020 , 192, 1137-1159	1
341	Computational fluid dynamics modelling of hydrocarbon fires in open environments: Literature review. 2020 , 98, 2381-2396	2
340	Predicting lean blow-off limit of gas turbine combustors based on Damkbler number and detailed atomization information. 2021 , 235, 262-278	2
339	Assessment of Fractal/Wrinkling Theories for Describing Turbulent Reacting Fine Structures under MILD Combustion Regimes. 2021 , 193, 1798-1825	2
338	TurbulenceCombustion Interactions in Premixed and Non-premixed Flames Generated by Hot Active Turbulent Jets. 2021 , 106, 849-880	2
337	Ignition Under Strained Conditions: A Comparison Between Instationary Counterflow and Non-premixed Flamelet Solutions. 2021 , 106, 1277-1293	1
336	Mixing Time Scale Models for Multiple Mapping Conditioning with Two Reference Variables. 2021 , 106, 1143-1166	2
335	An Improved NO Prediction Model for Large Eddy Simulation of Turbulent Combustion. 2021 , 106, 881-899	1
334	Evaluation of air curtain and emergency exhaust system for smoke confinement of an enclosure. 2021 , 33, 101650	5
333	Thermal and chemical effects of differential diffusion in turbulent non-premixed H ₂ flames. 2021 , 38, 2627-2634	5
332	Evaluation of flamelet-based combustion models for the use in a flameless burner under different operating conditions. 2021 , 183, 116190	7

331	Exploring subgrid-scale variance models in LES of lab-scale methane fire plumes. 2021 , 25, 44-72	2
330	An extended flame index partitioning for partially premixed combustion. 2021 , 25, 121-157	3
329	Evaluation of Different Turbulent Combustion Models Based on Tabulated Chemistry Using DNS of Heterogeneous Mixtures Under Multi-injection Diesel Engine-Relevant Conditions. 2021 , 107, 479-515	0
328	A comprehensive review on the effects of additives on fundamental combustion characteristics and pollutant formation of biodiesel and ethanol. 2021 , 288, 119749	14
327	Single-phase instability of intermediate flamelet states in high-pressure combustion. 2021 , 288, 119736	1
326	Mixture fraction analysis of combustion products in medium-scale pool fires. 2021 , 38, 4935-4942	1
325	Effects of air and oxy-fuel atmospheres on flamelet modeling of pollutant formation in laminar counterflow solid fuel flames. 2021 , 285, 119079	1
324	LES/PDF modelling of a one-meter diameter methane fire plume. 2021 , 38, 4943-4951	2
323	Detailed simulations of the DLR auto-igniting pulsed jet experiment. 2021 , 284, 118947	1
322	A new modeling approach for mixture fraction statistics based on dissipation elements. 2021 , 38, 2681-2689	5
321	Investigation of the ignition processes of a multi-injection flame in a Diesel engine environment using the flamelet model. 2021 , 38, 5605-5613	1
320	A comprehensive assessment of fractal wrinkling/eddy dissipation based combustion model for simulating conventional turbulent premixed and non-premixed flames. 2021 , 25, 235-268	0
319	Validation of an Eulerian Stochastic Fields Solver Coupled with ReactionDiffusion Manifolds on LES of Methane/Air Non-premixed Flames. 2021 , 107, 441-477	5
318	Mutually interacting SNG-air premixed flames. 2021 , 285, 119065	1
317	Detailed analysis of early-stage NOx formation in turbulent pulverized coal combustion with fuel-bound nitrogen. 2021 , 38, 4111-4119	5
316	Transported PDF modeling of compressible turbulent reactive flows by using the Eulerian Monte Carlo fields method. 2021 , 425, 109899	5
315	Delayed Detached Eddy Simulations with Tabulated Chemistry for Thermal Loads Predictions. 2021 , 37, 29-46	3
314	Retrieving soot volume fraction fields for laminar axisymmetric diffusion flames using convolutional neural networks. 2021 , 285, 119011	7

313	The unsteady response of radiating laminar diffusion flames exposed to decreasing mixing rate conditions representative of fires. 2021 , 25, 1-21	0
312	A-Priori Validation of Scalar Dissipation Rate Models for Turbulent Non-Premixed Flames. 2021 , 107, 201-218	3
311	An a priori evaluation of a principal component and artificial neural network based combustion model in diesel engine conditions. 2021 , 38, 2701-2709	5
310	An Efficient Machine-Learning Approach for PDF Tabulation in Turbulent Combustion Closure. 2021 , 193, 1258-1277	10
309	A priori examination of reduced chemistry models derived from canonical stirred reactors using three-dimensional direct numerical simulation datasets. 2021 ,	1
308	Effects Of Chamber Pressure Variation On Pollutant Formation In Cryogenic Combustion. 2021 ,	
307	A generalised spray-flamelet formulation by means of a monotonic variable. 2021 , 25, 293-314	0
306	Presumed Joint-PDF Modelling for Turbulent Stratified Flames. 2021 , 107, 405-439	1
305	Flamelet LES of a swirl-stabilized multi-stream pulverized coal burner in air and oxy-fuel atmospheres with pollutant formation. 2021 , 38, 4141-4149	6
304	One-dimensional turbulence (ODT): Computationally efficient modeling and simulation of turbulent flows. 2021 , 13, 100641	1
303	A novel model for incorporation of differential diffusion effects in PDF simulations of non-premixed turbulent flames based on reaction-diffusion manifolds (REDIM). 2021 , 33, 025110	5
302	The convergence of combustion models and compliance with the Kolmogorov scaling of turbulence. 2021 , 33, 025112	6
301	Investigation of scalar-scalar-gradient filtered joint density function for large eddy simulation of turbulent combustion. 2021 , 33, 035121	1
300	Unsteady flamelet modeling for N ₂ H ₄ /N ₂ O ₄ flame accompanied by hypergolic ignition and thermal decomposition. 2021 , 5, 100022	
299	Soot modeling in turbulent diffusion flames: review and prospects. 2021 , 43, 1	1
298	A Review on Detailed Kinetic Modeling and Computational Fluid Dynamics of Thermochemical Processes of Solid Fuels. 2021 , 35, 5479-5494	2
297	Direct numerical simulation of supercritical oxy-methane mixing layers with CO ₂ substituted counterparts. 2021 , 33, 035115	6
296	CFD modelling and numerical investigation of a large marine two-stroke dual fuel direct injection engine. 1-13	1

295	Implementation of multi-component diesel fuel surrogates and chemical kinetic mechanisms for engine combustion simulations. 2021 , 3, 100042	1
294	The effects of steam and water spray on NO formation in a methane-air counterflow diffusion flame. 2021 , 25, 514-541	1
293	Stabilization Mechanism of Burner-attached Flames in Laminar Non-premixed Jets. 1-21	
292	Transported and presumed probability density function modeling of the Sandia flames with flamelet generated manifold chemistry. 2021 , 33, 045123	2
291	An efficient modeling framework for wall heat flux prediction in rocket combustion chambers using non-adiabatic flamelets and wall-functions. 2021 , 169, 120913	2
290	CFD Modeling of Reacting Diesel Sprays with Primary Reference Fuel.	0
289	Model Comparisons of Flow and Chemical Kinetic Mechanisms for Methane-Air Combustion for Engineering Applications. 2021 , 11, 4107	3
288	Analyzing lean blow-off limits of gas turbine combustors based on local and global Damköhler number of reaction zone. 2021 , 111, 106532	3
287	The Utilisation of Reduced Kinetics by Local Self-Similarity Tabulation Approach in 3D Turbulent Reactive Flow Simulation with LES and TPDF. 1	
286	Numerical and Experimental Analysis of the Effect of a Swirler with a High Swirl Number in a Biogas Combustor. 2021 , 14, 2768	1
285	A Priori Evaluation of the Laminar Flamelet Decomposition Model for Turbulent Premixed Flames using DNS Data. 1	
284	Analysis of a Quasi-Two-Dimensional Flamelet Model on a Three-Feed Non-premixed Oxy-Combustion Burner. 1	3
283	Mixing and combustion at low heat release in large eddy simulations of a reacting shear layer. 2021 , 35, 553	1
282	A technique for characterising feature size and quality of manifolds. 2021 , 25, 646-668	2
281	The design strategy and testing of an efficient microgas turbine combustor for biogas fuel. 2021 , 294, 120535	5
280	Multi-Phase Impact on the Heat Load Characteristics of a Multi-Element Methane-Oxygen Rocket Thrust Chamber. 2021 , 172, 121113	0
279	A detailed modelling on spray atomisation and combustion of LOX/GCH ₄ in variable area pintle injector rocket engines. 2021 , 25, 718-750	0
278	Effect of the Preheated Oxidizer Temperature on Soot Formation and Flame Structure in Turbulent Methane-Air Diffusion Flames at 1 and 3 atm: A CFD Investigation. 2021 , 14, 3671	1

277	Effects of evaporation on chemical reactions in counterflow spray flames. 2021 , 33, 065115	4
276	Timescale-Based Frozen Nonadiabatic Flamelet Combustion Modeling for Rocket Engine Thrust Chambers. 2021 , 37, 495-508	0
275	Evaluation of manifold representations of chemistry in stratified, swirl-stabilized flames. 2021 , 229, 111418	1
274	LES investigation of nonequilibrium flow in a cavity-flameholding axisymmetric scramjet. 2021 ,	1
273	Evaluation of the Flamelet/Progress-Variable Approach and Flamelet-Generated Manifolds Method in Laminar Counter-Flow Diffusion Flame. 2021 , 100, 83-91	
272	Coupling the Multiple Mapping Conditioning Mixing Model with Reaction-diffusion Databases in LES of Methane/air Flames. 1-28	0
271	Dynamics of diffusion flames in a very low strain rate flow field: from transient one-dimensional to stationary two-dimensional regime. 2021 , 25, 861-888	2
270	An assessment of the sectional soot model and FGM tabulated chemistry coupling in laminar flame simulations. 2021 , 229, 111381	2
269	Turbulent Combustion Modeling of a Staged Gas Turbine using Commercial CFD Code. 2021 ,	
268	NUMERICAL INVESTIGATION OF NON-PREMIXED COMBUSTION INSIDE A THREE LAYERED POROUS BURNER WITH FLAMELET MODEL. 63-75	
267	Multiphase CFD modelling for enclosure fires: A review on past studies and future perspectives. 1	0
266	Validation of a coupled 3D CFD simulation model for an oxy-fuel cross-fired glass melting furnace with electric boosting. 2021 , 195, 117166	2
265	Characterisation and analysis on the instantaneous development and dynamic vortex cores of fire whirls in a fixed-frame facility. 2021 , 175, 121355	0
264	Flame Structure and Soot-Precursor Formation of Coflow n-Heptane Diffusion Flame Burning in O ₂ /N ₂ and O ₂ /CO ₂ Atmosphere. 2021 , 147, 04021027	
263	NUMERICAL INVESTIGATION OF NON-PREMIXED COMBUSTION INSIDE A THREE LAYERED POROUS BURNER WITH FLAMELET MODEL. 63-75	
262	Flamelet LES of turbulent premixed/stratified flames with H ₂ addition. 2021 , 230, 111428	6
261	Analysis of local extinction of a n-heptane spray flame using large-eddy simulation with tabulated chemistry. 2021 , 235, 111730	1
260	Localized conditional source-term estimation model for turbulent combustion. 2021 , 235, 111715	0

259	The thickened flame approach for non-premixed combustion: Principles and implications for turbulent combustion modeling. 2021 , 111702	2
258	CFD investigation of a vertical annealing furnace for stainless steel and non-ferrous alloys strips A comparative study on air-staged & MILD combustion. 2021 , 101056	1
257	Advanced modeling approaches for CFD simulations of coal combustion and gasification. <i>Progress in Energy and Combustion Science</i> , 2021 , 86, 100938	33.6 8
256	Insights of MILD Combustion from High-Fidelity Simulations. 2022 , 59-81	
255	Two-dimensional manifold equations for multi-modal turbulent combustion: Nonpremixed combustion limit and scalar dissipation rates. 2021 , 231, 111475	1
254	Heat transfer augmentation by recombination reactions in turbulent reacting boundary layers at elevated pressures. 2021 , 178, 121628	
253	CFD analysis of combustion and emission characteristics of primary reference fuels: from transient Diesel spray to heavy-duty engine. 2021 , 301, 120994	3
252	An experimental multiparameter investigation on the thermochemical structures of benchmark ethylene and propane counterflow diffusion flames and implications to their numerical modeling. 2021 , 234, 111622	4
251	Comparison of turbulence/chemistry interaction models in the problem of ignition a parallel hydrogen jet in a supersonic air flow. 2021 ,	2
250	In-Situ Adaptive Manifolds: Enabling computationally efficient simulations of complex turbulent reacting flows. 2021 , 38, 2673-2680	3
249	Modeling curvature effects in turbulent autoigniting non-premixed flames using tabulated chemistry. 2021 , 38, 2741-2748	3
248	Recent developments in the coherent flamelet description of turbulent combustion. 1989 , 98-117	12
247	Some Current Issues In The Analysis Of Reacting Shear Layers: Computational Challenges. 1992 , 588-647	8
246	Structure of Flamelets in Turbulent Reacting Flows and Influences of Combustion on Turbulence Fields. 1989 , 195-212	4
245	Coherent Flame Description of Turbulent Premixed Ducted Flames. 1989 , 591-637	9
244	Diffusion Flames. 2016 , 350-372	2
243	Theoretical and Numerical Study of Evaporation Effects in Spray Flamelet Modeling. 2014 , 79-106	3
242	Large Eddy Simulation of Diluted Turbulent Spray Combustion Based on FGM Methodology: Effect of fuel and Mass Loading. 2014 , 107-128	1

241	Probability Density Function Modeling of Turbulent Spray Combustion. 2014 , 129-153	4
240	Large Eddy Simulation of a Turbulent Ethylene/Air Diffusion Flame. 2007 , 385-399	1
239	Modeling partially premixed turbulent combustion. 2001 , 161-180	1
238	Topological Feature Extraction for Comparison of Terascale Combustion Simulation Data. 2011 , 229-240	14
237	Calculated Scalar Dissipation in Two-Dimensional Flows. 1985 , 345-354	3
236	Coherent Flame Model for Non-Uniformly Premixed Turbulent Flames. 1991 , 367-378	5
235	Methods of Including Realistic Chemical Reaction Mechanisms in Turbulent Combustion Models. 1987 , 356-375	28
234	Modeling of Turbulent CO / Air Diffusion Flames with Detailed Chemistry. 1987 , 376-385	3
233	Coherent Flame Modelling of Chemical Reactions in a Turbulent Mixing Layer. 1987 , 386-398	7
232	Turbulent Combustion Modelling [A Review]. 1991 , 279-299	3
231	The Calculation of Local Fluctuations in Non Premixed Turbulent Flames. 1991 , 83-113	1
230	Radical Concentration Measurements in Hydrocarbon Diffusion Flames. 1994 , 113-133	2
229	Modeling of Turbulent Diffusion Flames. 1993 , 37-77	2
228	Large Eddy Simulation of Combustion Systems at Gas Turbine Conditions. 2013 , 183-204	1
227	Diffusion Flame Attachment and Flame Front Propagation along Mixing Layers. 1988 , 151-154	1
226	Modeling of Turbulent Diffusion Flames with Detailed Chemistry. 1988 , 411-420	6
225	An Experimental Investigation of Mixing and Combustion Characteristics on the Can-Type Micro Combustor with a Multi-Jet Baffle Plate. 2002 , 367-375	8
224	Flamelet Modeling for Supersonic Combustion. 2020 , 127-168	2

223	High-Resolution Measurements of Molecular Transport and Reaction Processes in Turbulent Combustion. 1993 , 287-302	0
222	Recent advances in high-fidelity simulations of pulverized coal combustion. 2020 , 31, 3062-3079	7
221	Combustion model evaluation in a CFD simulation of a radiant-tube burner. 2020 , 276, 118013	8
220	Automatic Construction of REDIM Reduced Chemistry with a Detailed Transport and Its Application to CH ₄ Counterflow Flames. 2020 , 34, 16572-16584	5
219	On the modeling of scalar mixing timescale in filtered density function simulation of turbulent premixed flames. 2020 , 32, 115130	3
218	Small-Scale Interaction of Turbulence with Thermonuclear Flames in Type Ia Supernovae. 1999 , 524, 290-294	13
217	Can Deflagration-Detonation Transitions Occur in Type I[CLC]a[/CLC] Supernovae?. 1999 , 523, L57-L60	74
216	A kinetic study of an advanced reburning process. 1997 , 1, 377-393	9
215	Fuel-dilution effect on differential molecular diffusion in laminar hydrogen diffusion flames. 1998 , 2, 497-514	8
214	Rate-ratio asymptotic analysis of non-premixed methane flames. 1999 , 3, 51-75	15
213	On stochastic Damkhler number variations in a homogeneous flow reactor. 2000 , 4, 495-509	41
212	Applying the Representative Interactive Flamelet Model to Evaluate the Potential Effect of Wall Heat Transfer on Soot Emissions in a Small-Bore Direct-Injection Diesel Engine. 2002 , 124, 1042-1052	17
211	Model free simulations of a high speed reacting mixing layer. 1992 ,	1
210	Study of structure and emissions of partially-premixed methane flames in laminar counterflow. 1996 ,	2
209	Large-eddy Simulation Of A Large-scale Methane Pool Fire. 2005 , 8, 963-974	3
208	Flamelet Generated Manifolds Applied to Dual-Fuel Combustion of Lean Methane/Air Mixtures at Engine Relevant Conditions Ignited by n Dodecane Micro Pilot Sprays.	3
207	Numerical Analysis on the Effect of Piston Bowl Geometry in Gasoline-Diesel Dual-Fuel Combustion.	2
206	A Computationally Efficient Progress Variable Approach for In-Cylinder Combustion and Emissions Simulations.	1

- 205 Validation of Diesel Combustion Models with Turbulence Chemistry Interaction and Detailed Kinetics. 3
- 204 A Study of Flow Characteristics on the Diesel-Gasoline Dual-Fuel Combustion by 3-D CFD. 2
- 203 Computational Modeling of Diesel Spray Combustion with Multiple Injections. 2
- 202 Numerical Simulation of High Pressure Methane-Oxygen Coaxial Turbulent Nonpremixed Flames. **2005**, 31, 112-121 1
- 201 Effects of Operating Conditions of a Spray Flame on Characteristics of Carbon Fine Particle Formation. **2012**, 1, 229-236 1
- 200 Numerical investigation of the scale effects of the flame flashback phenomenon in scramjet combustors. **2021**, 107165 1
- 199 Large-eddy simulation of a multi-injection flame in a diesel engine environment using an unsteady flamelet/progress variable approach. **2021**, 33, 105107 1
- 198 Numerical Investigations Of Rack Storage Fires. **2000**, 6, 1075-1085
- 197 Numerical turbulent combustion: an asymptotic view via an idealized test-case. **2002**, 81-102
- 196 Challenges in Turbulent Mixing with Combustion. **2002**, 95-112
- 195 One-Dimensional Stochastic Simulation of Advection-Diffusion-Reaction Couplings in Turbulent Combustion. **2002**, 113-124
- 194 A Numerical Study on Sensitivity of Acoustic Response to Pressure Oscillations in Liquid Rocket Engine. **2002**, 30, 79-87
- 193 Multidimensional Combustion Models. **2003**, 193-253
- 192 A Computational Method for Combustion Using Conditional Moment Closure. **2003**, 71-76
- 191 Towards dynamically reduced mechanisms based on domain splitting. **2003**, 1430-1433
- 190 An Investigation of Unsteady Response of Augmented Reduced Mechanism for Numerical Simulation of CH₄Nonpremixed Flames. **2003**, 27, 243-250
- 189 Species Transport Mechanisnn and Flame Structure of Counterflow Nonpremixed Flame Perturbed by a Vortex. **2004**, 28, 1407-1416
- 188 Changes of the Flame Temperature and OH Radical in the Unsteady Extinction Process. **2004**, 28, 1557-1566

- 187 An Experimental Study on the Extinction Limit Extension of Unsteady Counterflow Diffusion Flames. **2005**, 29, 390-401
- 186 Visualization of Normal/Inverse Diffusion Flame Behaviors Interacting with Vortex by Laser Imaging Techniques. **2007**, 27, 97-104
- 185 An Investigation of Extinguishment by Thermal Agents Using Detailed Chemical Modeling of Opposed Jet Diffusion Flames. **2008**, 9, 603-614
- 184 Measurements in Standard Room Scale Fires. **2008**, 9, 873-882 1
- 183 Simulation of CO-H₂-air Turbulent Diffusion Flame by the Combustion Model Combined Chemical Equilibrium Method with the Eddy Dissipation Concept Model. **2009**, 35, 205-214
- 182 Full-Scale Fire Modeling. **2009**, 551-585
- 181 Quality Issues of Combustion LES. **2011**, 33-46
- 180 Computational error-minimization for LES of non-premixed turbulent combustion. **2011**, 351-360
- 179 Linear Stability Analysis of a Non-premixed Buoyant Jet Flame. **2012**,
- 178 Modeling of Scalar Dissipation Rates in Flamelet Models for HCCI Engine Simulation. **2012**, 0
- 177 Numerical Simulation of PAHs Formation and Effect of Operating Conditions in DI-Diesel Engines Based on a Comprehensive Chemical Mechanism. **2013**, 5, 567-599
- 176 Mathematical Modeling in the Age of Computing: Is It Redundant?. **1988**, 29-42
- 175 Finite Chemical Kinetics Effects in a Subsonic Turbulent Hydrogen Flame. **1989**, 10-32
- 174 Velocity and Scalar Measurements in Model and Real Gas Turbine Combustors. **1989**, 1-44 1
- 173 Chemical Reaction Rate Effects in Turbulent Non-premixed Combustion. **1990**, 95-108
- 172 Detailed Combustion Chemistry and Its Coupling with Turbulent Flow. **1990**, 76-94
- 171 Analysis of the Structure of Counterflow Hydrogen-Air Diffusion Flames. **1991**, 89-110
- 170 Spectral Simulations of Turbulent Reacting Flows. **1991**, 257-303

- 169 Beschreibung des Brennstoffabbrandes. **1991**, 147-218
- 168 Visualization of Counterflow Flames. **1992**, 580-584 1
- 167 Laser Velocity and Density Measurement of a Flat Counter Flow Diffusion Flame. **1992**, 47-74
- 166 Modeling and Computation of Strained Laminar Diffusion Flames with Thermal Radiation. **1993**, 188-201
- 165 APPLICATIONS OF BODY-FITTED COORDINATES IN TRANSPORT PROCESSES: NUMERICAL COMPUTATION AND PHYSICAL INTERPRETATION. **1993**, 1-56
- 164 Prediction of NO_x emission index of turbulent diffusion flame. **1993**, 375-391 2
- 163 Raman Scattering Imaging of Opposed Jet Diffusion Flames. **1994**, 227-237
- 162 Multi-point measurement of temperature and species concentrations in opposed jet flames by UV Raman scattering. **1994**,
- 161 The Influence of Contaminants on the Structure of Nonpremixed Hydrogen-Air Flames. **1994**, 239-248
- 160 REFERENCES. **1994**, 465-498
- 159 Finite-Rate Chemistry Effects in Subsonic and Supersonic Combustion. **1994**, 253-273
- 158 A flamelet modeling for pollutant reduction in diffusion flames. **1994**,
- 157 The Modeling of Combustion and Pollutant Formation in Engine Flows. **1996**, 493-512
- 156 Application of Automatically Reduced Reaction Mechanisms in the Calculation of Turbulent Reactive Flows. **1996**, 253-259
- 155 Variable Density Effects in Axisymmetric Turbulent Jets and Diffusion Flames. **1997**, 205-208
- 154 Numerical Simulation of Combustion in Partially Premixed Turbulent Flows. **1998**, 203-221
- 153 Numerical Simulation of Combustion in Partially Premixed Turbulent Flows. **1998**, 203-221
- 152 Advanced Modeling of Turbulent Non-equilibrium Swirling Natural Gas Flames. **1999**, 831-840

- 151 Analysis of Chemical Dynamics and Technical Combustion by Time-Resolved Laser-Induced Fluorescence. **1999**, 241-275
- 150 Turbulent Combustion Modelling. **1999**, 489-527
- 149 Simulation Using Flamelet Radiation Modeling. **2015**,
- 148 A Study on Downstream Interaction between Methane-air and Syngas-air Premixed Flames. **2016**, 21, 8-17
- 147 Reynolds-number power-law scaling of differential molecular diffusion in turbulent nonpremixed combustion. **2018**, 3,
- 146 Large-eddy simulation of transcritical liquid oxygen/methane jet flames. **2019**, 0
- 145 Numerical investigation of methanol bluff-body flame using variants of RANS turbulence models with conditional moment closure model. **2019**, 21-30
- 144 Effects of In-Cylinder Flow Structures on Soot Formation and Oxidation in a Swirl-Supported Light-Duty Diesel Engine. 1
- 143 Brian Spalding and Turbulent Combustion. **2020**, 403-437 0
- 142 Grundlagen und Beispiele der Prozesssimulation. **2020**, 603-657
- 141 Flame structure analysis and composition space modeling of thermodiffusively unstable premixed hydrogen flames [Part II: Elevated pressure. **2021**, 111808 0
- 140 Higher Order Tensors for DNS Data Analysis and Compression. **2020**, 109-134 1
- 139 Large Eddy Simulation of cavitation effects on reacting spray flames using FGM and a new dispersion model with multiple realizations. **2022**, 236, 111764 2
- 138 Application of Multiphase Flows in Combustion. **2020**, 1-32
- 137 Modeling and Simulations of High-Pressure Practical Flows. **2020**, 631-677
- 136 Numerical Study of the Injection Parameters Impact on the Efficiency of a Liquid Rocket Engine. **2020**, 153-167
- 135 Flame structure analysis and composition space modeling of thermodiffusively unstable premixed hydrogen flames [Part I: Atmospheric pressure. **2021**, 111815 0
- 134 Recent Advances in Turbulent Mixing. **2001**, 327-344

- 133 Hybrid RANS/LES Simulation of Methane/Ox Combustion. **2021**, 199-219
- 132 Accurate Numerical Integration of EPDF for the Flamelet Approach. **2020**, 53, 494-497
- 131 Effects of injection on flame flashback in supersonic crossflow. **2022**, 120, 107226 1
- 130 Radiation in Chemically Reacting Systems. **2022**, 819-858
- 129 Experiment-Based Modeling of Turbulent Flames with Inhomogeneous Inlets. 1 0
- 128 Numerical Steady and Transient Evaluation of a Confined Swirl Stabilized Burner. **2021**, 6, 46
- 127 Investigation of NOx emission under different burner structures with the optimized combustion model. **2021**, 0
- 126 Numerical characterization of a novel test bench featuring secondary reactions of methane. **2021**, 119, 107203 0
- 125 Laminar Flames. **2021**, 61-86
- 124 Deep neural network based unsteady flamelet progress variable approach in a supersonic combustor. **2022**,
- 123 Investigation on combustion characteristics and emissions of biogas/hydrogen blends in gas turbine combustors. **2022**, 27, 101178 2
- 122 Investigation of flame structure and stabilisation characteristics of palm methyl esters diffusion flames. **2022**, 313, 123034 0
- 121 Lift-off characteristics of non-premixed jet flames in laminar/turbulent transition. **2022**, 238, 111948 0
- 120 Effects of Differential Diffusion on Flame Structure of Non-premixed Ammonia/Methane Combustion. **2021**,
- 119 Implementation of the Scalar Dissipation Rate in the REDIM Concept and its Validation for the Piloted Non-Premixed Turbulent Jet Flames. **2021**, 23, 169
- 118 Effect of Unsteadiness and Scalar Dissipation Models on Flamelet Modeling of Differential Molecular Diffusion in Turbulent Non-Premixed DNS Flames. **2022**, 108, 1017 0
- 117 MILD combustion of hydrogen and air - An efficient modelling approach in CFD validated by experimental data. **2022**, 47, 6349-6364 1
- 116 Diffusion and Premixed Flames Related to Fires. **2022**, 41-84

115	A methodology for modeling the interaction between turbulence and non-linearity of the equation of state. 2022 , 34, 015106	2
114	Development and validation of an efficient numerical framework for Conjugate Heat Transfer in Liquid Rocket Engines. 2022 ,	
113	Characterizing Tradeoffs in Memory, Accuracy, and Speed for Chemistry Tabulation Techniques. 1-20	0
112	Fast shutter line-imaging system for dual-dispersion Raman spectroscopy in ethanol and OME flames. 2022 , 111864	0
111	Assessment of Finite-Rate Chemistry Effects in a Turbulent Dilute Ethanol Spray Flame. 1-16	2
110	A fully dynamic mixing time-scale model for the sparse Lagrangian multiple mapping conditioning approach. 2022 , 238, 111872	1
109	Modelling approach to predict the fire-related heat transfer in porous gypsum based on multi-phase simulations including water vapour transport, phase change and radiative heat transfer. 2022 , 206, 118013	0
108	Physics-aware neural network flame closure for combustion instability modeling in a single-injector engine. 2022 , 240, 111973	0
107	Ignition under strained conditions: Unsteady flamelet progress variable modeling for diesel engine conditions in the transient counterflow configuration. 2022 , 240, 111841	2
106	Sensitivity of reaction-diffusion manifolds (REDIM) method with respect to the gradient estimate. 1-31	0
105	Reaction-Diffusion Manifolds including differential diffusion applied to methane/air combustion in strong extinction regimes. 1-31	1
104	Comparative Analysis of Ammonia Combustion for Domestic Applications.	1
103	Multiphase Flows with Heat and Mass Transfer. 2022 , 133-146	
102	Large-Eddy Simulations of Spray a Flames Using Explicit Coupling of the Energy Equation with the FGM Database. 1	0
101	Local Equilibrium and Discretization Effects on the Prediction of Scalar Dissipation Rates in Large Eddy Simulation of Turbulent Non-Premixed Combustion. 1-19	
100	Modelling extinction/re-ignition processes in fire plumes under oxygen-diluted conditions using flamelet tabulation approaches. 1-24	
99	Multiple structures of laminar fuel-rich spray flames in the counterflow configuration. 2022 , 111997	1
98	Modeling Fuel-Air Mixing, Combustion and Soot Formation with Ducted Fuel Injection Using Tabulated Kinetics.	

97	Capturing the flame structure and the transition process of the fire whirl using two combustion kinetic considerations. 2022 , ahead-of-print,		
96	Local contributions of resolved and subgrid turbulence-radiation interaction in LES/presumed FDF modelling of large-scale methanol pool fires. 2022 , 190, 122746		0
95	Reaction-Diffusion Manifolds (REDIM) Method for Ignition by Hot Gas and Spark Ignition Processes in Counterflow Flame Configurations. 1-23		0
94	A Lagrangian-based flame index for the transported probability density function method. 2021 , 100316		0
93	Oscillating Combustion Primary Measure to Reduce Nitrogen Oxide in a Grate Furnace Experiments and Simulations. 2021 , 9, 2210		0
92	Examination of probability distribution of mixture fraction in LES/FDF modelling of a turbulent partially premixed jet flame. 1-18		1
91	Application and comparison of multiple machine learning techniques for the calculation of laminar burning velocity for hydrogen-methane mixtures. 2022 , 101306		1
90	Modulation of wall turbulence by propagating flame of premixed hydrogen-air combustion. 2022 , 241, 112132		0
89	Unsteady Flamelet Modelling Study on Omex-Type Fuels Under Engine Combustion Network Spray a Conditions.		
88	Evaluation of the unsteady flamelet progress variable approach in Large Eddy Simulations of the ECN Spray A. 2022 , 77, 5		0
87	Combustion machine learning: Principles, progress and prospects. <i>Progress in Energy and Combustion Science</i> , 2022 , 91, 101010	33.6	6
86	A coupled MMC-LES and sectional kinetic scheme for soot formation in a turbulent flame. 2022 , 241, 112089		0
85	Flamelet modeling of forced ignition and flame propagation in hydrogen-air mixtures. 2022 , 112125		0
84	Coaxial-Injector Surrogate Modeling Based on Reynolds-Averaged Navier-Stokes Simulations Using Deep Learning. 1-16		1
83	On the effects of the fuel injection phase on heat release and soot formation in counterflow flames. 2022 , 124306		
82	Simulating of non-premixed turbulent combustion using a presumed probability density function method.		0
81	Assessment of optimal reaction progress variable characteristics for partially premixed flames. 1-34		0
80	ChemTab: A Physics Guided Chemistry Modeling Framework. 2022 , 75-88		

- 79 A Flamelet Based Partially Premixed Combustion Model for Simulating the Gas Phase Combustion of a Grate Firing Biomass Furnace.
- 78 CFD simulation aided glass quality and energy efficiency analysis of an oxy-fuel glass melting furnace with electric boosting. **2022**, 15, 100252
- 77 Development and validation of a combustion large-eddy-simulation solver based on fully compressible formulation and tabulated chemistry. **2022**, 127, 107693 0
- 76 Vaporization characteristics of an isolated ethanol droplet at flame conditions. **2022**,
- 75 Intrinsic Low-Dimensional Manifold (ILDM)-based concept for the coupling of turbulent mixing with manifold-based simplified chemistry for the turbulent flame simulation. 1
- 74 On the importance of the heat release rate in numerical simulations of fires in mechanically ventilated air-tight enclosures. **2022**, 1
- 73 Enabling Powertrain Technologies for Euro 7/VII Vehicles with Computational Fluid Dynamics. **2022**, 9, 100127 1
- 72 Co-optimized machine-learned manifold models for large eddy simulation of turbulent combustion. **2022**, 244, 112286 1
- 71 Machine learning techniques to predict the flame state, temperature and species concentrations in counter-flow diffusion flames operated with CH₄/CO/H₂-air mixtures. **2022**, 326, 124915
- 70 Adaptive global pathway selection using artificial neural networks: A-priori study. **2022**, 244, 112279 0
- 69 A Differential Subgrid Stress Model and Its Assessment in Large Eddy Simulations of Non-Premixed Turbulent Combustion. **2022**, 12, 8491 1
- 68 Non-Premixed Filtered Tabulated Chemistry for LES: Evaluation on Sandia Flames D and E. **2022**, 3, 486-508
- 67 CFD modelling of a turbulent CH₄/H₂/N₂ jet diffusion flame with detailed chemistry.
- 66 Sensitivity Analysis of Pollutants and Pattern Factor in a Gas Turbine Model Combustor due to Changes in Stabilizing Jets Characteristics. 0
- 65 Decarbonization of a tissue paper plant: Advanced numerical simulations to assess the replacement of fossil fuels with a biomass-derived syngas. **2022**, 0
- 64 Conditional analysis of temperature and strain rate effects on dissipation structure in turbulent non-premixed jet flames. **2022**,
- 63 Optimization of a gas turbine model combustor due to variations in geometrical characteristics of stabilizing air jets. **2022**, 217, 119206 0
- 62 Are the available data from laboratory spray burners suitable for CFD modelling validations? A review. **2022**, 16, 100289 0

61	Unsteady Flamelet modeling study on OME _x -type fuels under Engine Combustion Network Spray A conditions. 2023 , 331, 125458	o
60	Large eddy simulation of MILD combustion. 2022 , 261-310	o
59	Direct numerical simulations of flameless combustion. 2022 , 221-260	o
58	Formulation and importance of conservative transport in non-premixed flamelet models. 2022 ,	o
57	Flamelet LES of a 40 kWth pulverized torrefied biomass furnace in air and oxy-fuel atmospheres. 2022 ,	o
56	Study of mechanism of ammonia decomposition and oxidation: From NO _x reduction to ammonia auto-ignition problem. 2022 ,	o
55	Flamelet modeling of thermo-diffusively unstable hydrogen-air flames. 2022 ,	o
54	Evaluation of ammonia co-firing in the CRIEPI coal jet flame using a three mixture fraction FPV-LES. 2022 ,	o
53	Flamelet LES of a turbulent pulverized solid fuel flame using a detailed phenomenological soot model. 2022 ,	o
52	Flame structure analysis and flamelet modeling of turbulent pulverized solid fuel combustion with flue gas recirculation. 2022 ,	1
51	Numerical investigation of low-frequency instability and frequency shifting in a scramjet combustor. 2022 ,	o
50	Quantification of Autoignition Risk in Aeroderivative Gas Turbine Premixers Using Incompletely Stirred Reactor and Surrogate Modeling. 2022 , 144,	o
49	Effect of combustion mode on thrust performance in a symmetrical tandem-cavity scramjet combustor. 2022 , 107904	o
48	Large eddy simulation of n-dodecane spray flame: Effects of injection pressure on spray combustion characteristics at low ambient temperature. 2022 ,	o
47	Spatial characteristics and modelling of mixture fraction variance and scalar dissipation rate in steady turbulent round jets. 2022 , 98, 109048	1
46	Pulverized coal combustion computational modeling approach: A review. 095765092211329	o
45	Comparative analysis of ammonia combustion for domestic applications. 2022 ,	o
44	Large Eddy Simulation of a Turbulent Dilute Ethanol Flame Using the Two-Phase Spray Flamelet Generated Manifold Approach. 1-31	o

- 43 Criteria to switch from tabulation to neural networks in computational combustion. **2022**, 246, 112425 ○
- 42 Evaluation of flamelet-based partially premixed combustion models for simulating the gas phase combustion of a grate firing biomass furnace. **2023**, 333, 126343 1
- 41 Sensitivity of soot formation to strain rates in counterflow diffusion flames of various C3-C5 alkanes and alcohols. **2023**, 333, 126321 ○
- 40 A novel laminar flame speed equation for quasi-dimensional combustion model refinement in advanced, ultra-lean gasoline spark-ignited engines. **2023**, 333, 126508 1
- 39 Effects of pressure on laminar flame characteristics of C1-C3 alkanes: A review. **2023**, 240, 107561 ○
- 38 A simplified two-mixture-fraction-based flamelet modelling and its validation on a non-premixed staged combustion system. 1-20 1
- 37 The diffuselet concept for scalar mixing. **2022**, 951, ○
- 36 Modeling Spray C and Spray D with FGM within the framework of RANS and LES. 8, ○
- 35 Effects of radiation, curvature, and preferential diffusion on the extinction of laminar non-premixed flames. **2022**, 12, 115118 ○
- 34 Effects of Compounds in Liquefied Methane on Rocket Engine Operation. **2022**, 9, 698 ○
- 33 Optimization of Micro Gas Turbine Combustion Chamber by Changing the Swirler Numerically and Experimentally. **2022**, 22, 473-483 ○
- 32 Flamelet generated manifold simulation of highly swirling spray combustion: Adoption of a mixed homogeneous reactor and inclusion of liquid-flame heat transfer. **2022**, 12, 115026 ○
- 31 Combustion regimes in turbulent non-premixed flames for space propulsion. ○
- 30 Comparative Analysis of Numerical Methods for Simulating N-Heptane Combustion with Steam Additive. **2023**, 16, 25 ○
- 29 Application of machine learning in low-order manifold representation of chemistry in turbulent flames. 1-20 1
- 28 Investigation of the derivation and consistency of the quasi-two-dimensional flamelet models for non-premixed flames. **2023**, 35, 015116 ○
- 27 A dynamic load balancing model coupled with DAC and ISAT for a stochastic turbulent combustion model. 1-29 ○
- 26 The inclusion of scalar dissipation rate in modeling of an n-dodecane spray flame using flamelet generated manifold. **2023**, 249, 112610 ○

- 25 LES flamelet modeling of hydrogen combustion considering preferential diffusion effect. **2022**, ○
- 24 Hybrid Unsupervised Cluster-wise Regression Approach for Representing the Flamelet Tables. ○
- 23 The Effects of Differential Diffusion on Turbulent Non-Premixed Flames LO₂/CH₄ under Transcritical Conditions Using Large-Eddy Simulation. **2023**, 16, 1065 ○
- 22 Investigation of soot formation in turbulent spray flame burning real fuel. **2023**, 112621 ○
- 21 Reduced kinetic mechanism for methane/oxygen rocket engine applications: a reliable and numerically efficient methodology. 1-27 ○
- 20 Modeling of Sandia Flame D with the non-adiabatic chemistry tabulation approach: the effects of different laminar flames on NOX prediction. **2023**, 13, 4590-4600 ○
- 19 Manifold-based Modeling for Supersonic Turbulent Combustion. **2023**, ○
- 18 Numerical Investigation of Supersonic Combustion Flow Field using OpenFOAM. **2023**, ○
- 17 Influence of Gradually Inflated Obstructions on Flame Propagation in a Tube Closed at One End. **2023**, 6, 154 ○
- 16 Physics informed machine learning for chemistry tabulation. **2023**, 69, 102001 ○
- 15 Modeling the presumed joint probability density function of conditioning variables in stratified turbulent flames. **2023**, 252, 112754 ○
- 14 Development in comprehensive CFD simulation of fire and explosion. **2023**, 4, 203-219 ○
- 13 Flame regimes in DI diesel combustion: LES study for light- and heavy-duty injectors. **2023**, 252, 112748 ○
- 12 Effects of water vapor addition on downstream interaction in CO/O₂ counterflow premixed flames. **2023**, 342, 127888 ○
- 11 Mixing and combustion characteristics in a scramjet combustor with different distances between cavity and backward-facing step. **2023**, ○
- 10 Stabilization criteria of laminar lifted propane flames and their transition to turbulent lifted flames under extended pressures. **2023**, 343, 127960 ○
- 9 Three questions regarding scalar gradient equations in flamelet theory. **2023**, 249, 112624 ○
- 8 Simulation of steel beam under ceiling jet based on a wind-fire-structure coupling model. **2023**, 17, 78-98 ○

- 7 Assessment of a Differential Subgrid Stress Model for Large-Eddy Simulations of Turbulent Unconfined Swirling Flames. **2023**, 6, 94
- 6 Developing a Turbulence-Inspired Zonal Combustion Modeling Approach, Implementing the CRNs in Turbulent Diffusion Flames.
- 5 Non-premixed combustion and NOX emission characteristics in a micro gas turbine swirl combustor fueled by methane and ammonia at various heat loads. **2023**, 9, e14521
- 4 Multi-regime mixing modeling for local extinction and re-ignition in turbulent non-premixed flame by using LES/FDF method.
- 3 CFD Modeling of a DME CI Engine in Late-PCCI Operating Conditions.
- 2 Numerical simulation of a fire resistance test and prediction of the flue gas leakage using CFD/FEM coupling.
- 1 Characterization of Medium-Scale Propane Pool Fires.