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1206	Chemical Kinetics of Hydrogen-Air-Diluent Detonations. 1986 , 263-293		9
1205	Kinetic modeling and sensitivity analysis of nitrogen oxide formation in well-stirred reactors. 1986 , 65, 177-202		328

1204	Chemical kinetics of the high pressure oxidation of n-butane and its relation to engine knock. 1986 , 63, 113-133	163
1203	The oxidation of ethylbenzene near 1060K. 1986 , 63, 251-267	62
1202	Comparisons between thermodynamic and one-dimensional combustion models of spark-ignition engines. 1986 , 10, 409-422	4
1201	The high-temperature oxidation of aromatic hydrocarbons. <i>Progress in Energy and Combustion Science</i> , 1986 , 12, 1-24	33.6 231
1200	A Flow Reactor Study of the Oxidation of Iso-butylene and an Iso-butylene/n-octane Mixture. 1986 , 45, 225-232	39
1199	Reactions of N-Propylbenzene During Gas Phase Oxidation. 1986 , 50, 117-133	27
1198	Measurement of OH Density Profiles in Atmospheric-Pressure Propane-Air Flames. 1986 , 50, 163-183	14
1197	Chemical kinetic modeling of higher hydrocarbon fuels. 1986 , 24, 2002-2009	12
1196	A Flow Reactor Study of the Oxidation of n-Octane and Iso-Octane. 1986 , 45, 199-212	89
1195	Extinction and Stabilization of a Diffusion Flame on a Flat Combustible Surface with Emphasis on Thermal Controlling Mechanisms. 1987 , 54, 37-50	30
1194	Spectral and total radiation properties of turbulent carbon monoxide/air diffusion flames. 1987 , 25, 339-345	45
1193	An Eight-Step Kinetics Mechanism for High Temperature Propane Flames. 1987 , 54, 1-23	12
1192	The Reaction between Hydrocarbons and Oxygen. 1987 , 96-211	3
1191	Extinction of Strained Premixed Laminar Flames With Complex Chemistry. 1987 , 53, 23-49	171
1190	Fuel-Air Mixing and Combustion in a Two-Dimensional Wankel Engine. 1987 ,	9
1189	Detailed Kinetic Modeling of Autoignition Chemistry. 1987 ,	16
1188	The Role of Low Temperature Chemistry in the Autoignition of N-Butane. 1987 ,	22
1187	Flame sheet starting estimates for counterflow diffusion flame problems. 1987 , 73, 267-288	43

1186	The structure of diffusion flames burning pure, binary, and ternary solutions of methanol, heptane, and toluene. 1987 , 68, 295-307	60
1185	The asymptotic structure of stoichiometric methane-air flames. 1987 , 68, 185-207	302
1184	Sensitivity analysis based on an efficient brute-force method, applied to an experimental CH ₄ /O ₂ premixed laminar flame. 1987 , 67, 99-109	28
1183	Thermokinetic interactions: Fundamentals of spontaneous ignition and cool flames. <i>Progress in Energy and Combustion Science</i> , 1987 , 13, 161-197	33.6 106
1182	AcuChem: A computer program for modeling complex chemical reaction systems. 1988 , 20, 51-62	312
1181	Entropy production in flames. 1988 , 73, 251-259	46
1180	Stationary-state and oscillatory combustion of hydrogen in a well-stirred flow reactor. 1988 , 73, 163-185	34
1179	A study of inhibition effects for silane combustion by additive gases. 1988 , 73, 187-194	19
1178	Asymptotic structure and extinction of methane-air diffusion flames. 1988 , 73, 23-44	171
1177	Effects of radiative and conductive transfer on thermal ignition. 1988 , 73, 67-74	12
1176	Chemionization and ion-molecule reactions in fuel-rich acetylene flames. 1988 , 74, 19-37	40
1175	A kinetic modeling study of n-pentane oxidation in a well-stirred reactor. 1988 , 72, 45-62	70
1174	Analysis of fuel-lean combustion using chemical mechanisms. 1988 , 72, 271-286	11
1173	General correlations of chemical species in turbulent fires. 1988 , 21, 101-109	2
1172	The significance of intermediate hydrocarbons during wall quench of propane flames. 1988 , 21, 481-489	14
1171	Response of a pulse combustor to changes in fuel composition. 1988 , 21, 547-555	12
1170	Reduced reaction schemes for methane, methanol and propane flames. 1988 , 21, 739-748	32
1169	Complications of one-step kinetics for moist CO oxidation. 1988 , 21, 749-760	16

1168	Tests of published mechanisms by comparison with measured laminar flame structure in fuel-rich acetylene combustion. 1988 , 21, 773-782	40
1167	High temperature oxidation of n-alkyl benzenes. 1988 , 21, 833-840	18
1166	Oxidation of furan and furfural in a well-stirred reactor. 1988 , 21, 979-989	13
1165	Laminar flamelet concepts in turbulent combustion. 1988 , 21, 1231-1250	672
1164	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
1163	Gas phase kinetics analysis and implications for silicon carbide chemical vapor deposition. 1988 , 87, 481-493	86
1162	Growth mechanism of vapor-deposited diamond. 1988 , 3, 133-140	350
1161	Unsteady flame propagation in a two-dimensional spray with transient droplet vaporization. 1988 ,	
1160	Chemical Kinetic Modeling of Fuel-Rich CH ₃ Cl/CH ₄ /O ₂ /Ar Flames. 1988 , 60, 45-62	71
1159	Hydrogen atom abstraction by O(3P) from diborane and ethane. 1988 , 88, 6282-6289	9
1158	Extinction of Strained Premixed Propane-air Flames with Complex Chemistry. 1988 , 60, 267-285	75
1157	The role of Ch ₃ and ch ₂ reactions in the kinetic modeling of methane / air flames. 1988 , 11, 247-260	
1156	The Addition Effect of CH ₃ Br and CH ₃ Cl on Ignition of CH ₄ by Shock Wave. 1988 , 61, 3307-3313	11
1155	Comments on the Gas-Phase Initial Rate of Tritiated Water Formation. 1988 , 14, 1136-1140	4
1154	Systematic Reduction of Flame Kinetics: Principles and Details. 1988 , 67-86	7
1153	Autoignition of n-Butane/Isobutane Blends in a Knock Research Engine. 1989 ,	6
1152	Chemical Kinetic Modeling of Combustion of Practical Hydrocarbon Fuels. 1989 ,	6
1151	Effect of Fuel-Air Mixture Stressing on Preignition Heat Release in a Knock Research Engine. 1989 ,	6

1150	Alternative fuel spray behavior. 1989 , 5, 391-398	5
1149	Analysis of the structure and mechanisms of extinction of a counterflow methanol-air diffusion flame. 1989 , 76, 111-132	22
1148	Experimental and computational investigation of the structure of a sooting C ₂ H ₂ -O ₂ -Ar flame. 1989 , 22, 313-322	32
1147	A detailed chemical kinetic reaction mechanism for the oxidation of iso-octane and n-heptane over an extended temperature range and its application to analysis of engine knock. 1989 , 22, 893-901	143
1146	Kinetics of the reactions of unsaturated free radicals (methylvinyl and i-C ₄ H ₃) with molecular oxygen. 1989 , 22, 953-962	8
1145	Reactions of hydroxymethyl and hydroxyethyl radicals with molecular and atomic oxygen. 1989 , 22, 963-972	7
1144	Benzene oxidation perturbed by NO ₂ addition. 1989 , 22, 1063-1074	22
1143	Advanced NO _x reduction processes using-NH and -CN compounds in conjunction with staged air addition. 1989 , 22, 1135-1145	15
1142	Dynamics of stretched flames. 1989 , 22, 1381-1402	234
1141	The structure and extinction of partially premixed flames burning methane in air. 1989 , 22, 1555-1563	16
1140	Unsteady flame propagation in a spray with transient droplet vaporization. 1989 , 22, 1931-1939	5
1139	Numerical study of multicomponent fuel spray flame propagation in a spherical closed volume. 1989 , 22, 1941-1949	17
1138	Numerical studies of a thermokinetic model for oscillatory cool flame and complex ignition phenomena in ethanal oxidation under well-stirred flowing conditions. 1989 , 422, 289-310	12
1137	Combustion of low calorific value gases; Problems and prospects. <i>Progress in Energy and Combustion Science</i> , 1989 , 15, 109-129	33.6 47
1136	Ignition delay and characteristic reaction length in shock induced supersonic combustion. 1989 ,	8
1135	.	
1134	The Addition Effects of Methyl Halides on Ethane Ignition Behind Reflected Shock Waves. 1989 , 62, 2138-2145	12
1133	The Addition Effect of CH ₃ I on the Ignition of CH ₄ . 1989 , 62, 636-638	4

1132	Sensitivity analysis of complex kinetic systems. Tools and applications. 1990 , 5, 203-248	385
1131	The mechanism of the homogeneous pyrolysis of acetylene. 1990 , 22, 747-786	101
1130	The environment and chemical reaction engineering. 1990 , 45, 2045-2055	
1129	Effects of thermal coupling and diffusion on the mechanism of H ₂ oxidation in steady premixed laminar flames. 1990 , 82, 270-297	31
1128	A reexamination of the RapreNO _x process. 1990 , 82, 435-443	34
1127	Experimental and numerical studies of the combustion of ditertiary butyl peroxide in the presence of oxygen at low pressures in a mechanically stirred closed vessel. 1990 , 81, 304-316	21
1126	Counterflow spray combustion modeling. 1990 , 81, 325-340	114
1125	Pulse combustion: The quantification of characteristic times. 1990 , 79, 151-161	57
1124	Aspects of the structure and extinction of diffusion flames in methane-oxygen-nitrogen systems. 1990 , 80, 17-48	54
1123	The selective reduction of SO ₃ to SO ₂ and the oxidation of NO to NO ₂ by methanol. 1990 , 81, 30-39	56
1122	Numerical solution technique for transient, two-dimensional combustion with multi-step kinetics. 1990 , 83, 9-31	
1121	An Investigation into the Production of Hydrocarbon Emissions from a Gasoline Engine Tested on Chemically Defined Fuels. 1990 ,	27
1120	Reduced chemical kinetics for propane combustion. 1990 ,	13
1119	Apparatus for studying premixed laminar flames using mass spectrometry and fiber-optic spectrometry. 1990 , 61, 1029-1037	3
1118	Multicomponent spray computations in a modified centerbody combustor. 1990 , 6, 97-105	14
1117	Optical Diagnostics in CHC Combustion. 1990 , 7, 21-39	14
1116	Gas Phase Formation of Chlorinated Aromatic Compounds from the Pyrolysis of Tetrachloroethylene. 1990 , 74, 137-157	45
1115	Evaluation of a hybrid kinetics/mixing-controlled combustion model for turbulent premixed and diffusion combustion using KIVA-II. 1990 ,	

1114	Investigation of high pressure solid propellant flame chemistry. 1990,	
1113	Tunable laser flash absorption: a new technique for measuring rates and yields of chemical reactions at high temperatures. 1990, 29, 4899-906	7
1112	A Comprehensive Reaction Mechanism For Carbon Monoxide/Hydrogen/Oxygen Kinetics. 1991, 79, 97-128	307
1111	Oxidative coupling of methane over praseodymium oxide catalysts. 1991, 71, 103-122	19
1110	Experimental and computational investigation of the structure of a sooting decane-O ₂ -Ar flame. 1991, 23, 1567-1572	18
1109	Comparisons of Completeness of Combustion for Alcohol and Alkane Laminar Wall Fires. 1991, 78, 157-163	
1108	A parametric study of the homogeneous reaction between methane hydrogen chloride and oxygen. 1991, 22, 929-937	2
1107	The chlorinating species in turbulent flame combustion of methane with hydrogen chloride present. 1991, 22, 67-76	5
1106	Rate constants for the reactions H+O ₂ ->OH+O and D+O ₂ ->OD+O over the temperature range 1085-278 K by the laser photolysis shock tube technique. 1991, 95, 262-273	55
1105	Large eddy simulation of blowout of a bluff-body stabilized flame in a duct. 1991,	
1104	The Modelling and Calculation of a Turbulent Premixed Flame Propagation in a Closed Vessel: Comparisons of Three Models With Experiments. 1991,	2
1103	Numerical Modeling of Combustion of Complex Hydrocarbon. 1991, 57-81	2
1102	Ignition Criteria for a Fuel Droplet Expressed in Explicit Form. 1991, 80, 305-317	4
1101	Effect of Bromotrifluoromethane on the Ignition in Methane and Ethane/Oxygen/Argon Mixtures behind Shock Waves. 1991, 64, 3345-3354	16
1100	Nitramine propellant ignition and combustion research. <i>Progress in Energy and Combustion Science</i> , 1991, 17, 263-296	33.6 74
1099	Pyrolysis and volatile combustion of a single large lignite particle. 1991, 16, 1131-1146	6
1098	Direct catalytic conversion of methane. 1991, 69, 1027-1035	30
1097	Rate constants for the reaction, O+H ₂ O->OH+OH, over the temperature range, 1500-400 K, by the flash photolysis-shock tube technique: A further consideration of the back reaction. 1991, 23, 59-67	23

1096	Determination of global kinetics of coal volatiles combustion. 1991 , 23, 1155-1162	32
1095	Laser-induced fluorescence detection of HCO in a low-pressure flame. 1991 , 23, 1847-1854	16
1094	Measurements and modeling of light hydrocarbons in rich C ₂ H ₄ combustion in a jet-stirred reactor. 1991 , 84, 38-46	21
1093	Hydroxyl radical concentration measurements in moist carbon monoxide oxidation in a chemical kinetic flow reactor. 1991 , 86, 162-170	9
1092	Measurements of the structure of laminar, premixed flames of CH ₄ /NO ₂ /O ₂ and CH ₂ O/NO ₂ /O ₂ Mixtures. 1991 , 83, 228-239	35
1091	The influence of initial pressure and temperature on hydrogen-air-diluent detonations. 1991 , 83, 353-364	49
1090	Chemical structures of fuel-rich, premixed, laminar flames of 1,2-C ₂ H ₄ Cl ₂ and CH ₄ . 1991 , 83, 365-374	14
1089	A shock tube study of the reaction of methyl radicals with hydroxyl radicals. 1991 , 23, 1017-1033	58
1088	Measurements of reactant temperature and free-radical concentrations during the oscillatory combustion of hydrogen and carbon monoxide in a CSTR. 1991 , 46, 2315-2322	12
1087	Heat transfer analysis of a particle-containing channel flow. 1991 , 26, 153-161	0
1086	The oxidation of CH ₂ O in the intermediate temperature range (943-995 K). 1991 , 23, 171-177	10
1085	Structure and kinetics of CH ₄ /N ₂ O flames. 1991 , 23, 371-378	8
1084	Extinction of tubular premixed laminar flames with complex chemistry. 1991 , 23, 447-454	17
1083	Experimental and numerical determination of laminar flame speeds: Mixtures of C ₂ -hydrocarbons with oxygen and nitrogen. 1991 , 23, 471-478	133
1082	Computational and experimental study of a laminar axisymmetric methane-air diffusion flame. 1991 , 23, 575-582	35
1081	Dynamics of Deflagrations and Reactive Systems: Flames. 1991 ,	1
1080	Comparison between Experimental Measurements and Numerical Calculations of the Structure of Heptane-Air Diffusion Flames. 1991 , 79, 293-310	50
1079	The Influence of Ambient Air Entrainment on Partially Premixed Burner Flames: LIF Imaging of CO and OH. 1991 , 79, 195-206	12

1078	One-dimensional analysis of liquid-fueled combustion instability. 1991 , 7, 953-961	21
1077	Efficient Formation of Numerical Jacobian Used in Flame Codes. 1991 , 77, 319-327	3
1076	Detailed Mechanism for Oxidation of Benzene. 1991 , 79, 49-72	65
1075	Strained Propane-Air Flames With Detailed and Reduced Kinetic Schemes. 1991 , 76, 287-309	9
1074	Theory and Models for Nucleation and Growth of Diamond Films. 1991 , 499-523	5
1073	Numerical simulations of the transdetonative ram accelerator combusting flow field on a parallel computer. 1992 ,	7
1072	Monte Carlo simulation of diamond growth by methyl and acetylene reactions. 1992 , 97, 5794-5802	67
1071	The Homogeneous Pyrolysis of Acetylene II: The High Temperature Radical Chain Mechanism. 1992 , 82, 101-130	110
1070	Weak Collision Effects in the Reaction $\text{CH}_3\text{CO} \rightarrow \text{CH}_3 + \text{CO}$. 1992 , 96, 1338-1347	21
1069	Elementary Reactions in the Methanol Oxidation System. Part I: Establishment of the Mechanism and Modelling of Laminar Burning Velocities. 1992 , 96, 1360-1376	42
1068	Studies on fuel spray characteristics in high-pressure environment. 1992 ,	1
1067	Progress towards the development of transient ram accelerator simulation as part of the U.S. Air Force Armament Directorate Research Program. 1992 ,	1
1066	A numerical study of hydrogen-air combustion within a supersonic boundary layer. 1992 ,	1
1065	Prediction of high frequency combustion instability in liquid propellant rocket engines. 1992 ,	8
1064	Detailed Chemical Kinetic Modeling: Chemical Reaction Engineering of the Future. 1992 , 18, 95-196	32
1063	Rate coefficient for the reaction $\text{H} + \text{O}_2 \rightarrow \text{OH} + \text{O}$: Results at high temperatures, 2000 to 5300 K. 1992 , 96, 1077-1092	103
1062	Heat Transfer and Performance Characteristics of a Dual-Ignition Wankel Engine. 1992 ,	12
1061	Experimental investigation in extinction of turbulent non-premixed disk stabilized flames. 1992 , 24, 369-375	12

1060	Shock tube ignition of ethanol, isobutene and MTBE: Experiments and modeling. 1992 , 24, 769-776		83
1059	Computational and experimental study of OH and CH radicals in axisymmetric laminar diffusion flames. 1992 , 24, 813-821		50
1058	Reactivity of product gases generated in idealized enclosure fire environments. 1992 , 24, 1737-1746		5
1057	Numerical modeling of axisymmetric laminar diffusion flames. 1992 , 4, 46-79		16
1056	A flame dictionary method for an unsteady, premixed laminar flame. 1992 , 34, 1-21		1
1055	Promotion of high-temperature self-ignition. <i>Progress in Energy and Combustion Science</i> , 1992 , 18, 297-335	33.6	18
1054	Measurement of thermal rate constants by flash or laser photolysis in shock tubes: Oxidations of H ₂ and D ₂ . <i>Progress in Energy and Combustion Science</i> , 1992 , 18, 327-347	33.6	99
1053	Entropic efficiency of energy systems. <i>Progress in Energy and Combustion Science</i> , 1992 , 18, 429-445	33.6	17
1052	Optimization and analysis of large chemical kinetic mechanisms using the solution mapping method: Combustion of methane. <i>Progress in Energy and Combustion Science</i> , 1992 , 18, 47-73	33.6	307
1051	The necessity of using detailed kinetics in models for premixed combustion within porous media. 1993 , 93, 457-466		77
1050	Laser-based flame species profile measurements: A comparison with flame model predictions. 1993 , 92, 85-105		49
1049	Using hydrogen peroxide or ozone to enhance the incineration of volatile organic vapors. 1993 , 13, 261-270		5
1048	The effect of ignition source exposure and specimen configuration on the fire growth characteristics of a combustible interior finish material. 1993 , 21, 313-330		7
1047	Structure of diffusion and premixed laminar counterflow flames including molecular radiative transfer. 1993 , 29, 306-311		3
1046	Avoidance of the photochemical production of oxygen atoms in one-dimensional, two-photon laser-induced fluorescence imaging. 1993 , 32, 4636-40		12
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1044	Numerical study of shock-induced combustion in methane-air mixtures. 1993 ,		2
1043	Numerical simulation of fluid dynamics with finite-rate and equilibrium combustion kinetics for the 120-mm ram accelerator. 1993 ,		9

1042 Reduction of nitrogen oxides in exhaust emissions. **1993,**

1041 Prediction of Kinetic Parameters for Hydrogen Abstraction Reactions. **1993,** 95, 1-50 64

1040 Application of Continuation Methods to Plane Premixed Laminar Flames. **1993,** 87, 241-256 34

1039 Numerical study of ignition within hydrogen-air supersonic boundary layers. **1993,** 31, 884-890 12

1038 Chemical Structures of Fuel-Rich, Premixed, Laminar Flames of C₆H₅Cl/CH₄/O₂/Ar Mixtures. **1993,** 91, 53-72 12

1037 On the Dependence of the Rate of Moist CO Oxidation on O₂ Concentration at Atmospheric Pressure.. **1993,** 95, 161-171 11

1036 The thermal decomposition of CH₃Cl using the Cl-atom absorption method and the bimolecular rate constant for O+CH₃ (1609±002 K) with a pyrolysis photolysis-shock tube technique. **1993,** 98, 3919-3928 47

1035 Fundamental Kinetics and Mechanisms of Hydrogen Oxidation in Supercritical Water. **1993,** 88, 369-397 65

1034 A Coupled Experimental-Theoretical Model of Flame Kernel Development in a Spark Ignition Engine. **1993,** 0

1033 Direct Injection Diesel Engine Soot Modeling: Formulation and Results. **1994,** 14

1032 Operating Parameter Effects on the Speciated Hydrocarbon Emissions from a Natural Gas Fueled Engine. **1994,** 8

1031 PREDICTION OF FAST TRANSIENT SPRAY-COMBUSTING FLOWS. **1994,** 25, 21-42 10

1030 Chemical Kinetic Modeling of Fuel-Rich Flames of CH₂Cl₂/CH₂/O₂/Ar. **1994,** 101, 103-134 18

1029 Computation of shock-induced combustion using a detailed methane-air mechanism. **1994,** 10, 609-617 24

1028 Boundary layer ignition of hydrogen-air mixtures in supersonic flows. **1994,** 3, 43-48 1

1027 Cars temperature measurements and the cyclic dispersion of knock in spark ignition engines. **1994,** 25, 125-133 14

1026 On the effects of fuel leakage on CO production from household burners as revealed by lif and cars. **1994,** 25, 243-250 2

1025 On the role of transport in the combustion kinetics of a steady-state premixed laminar CO + H₂ + O₂ flame. **1994,** 26, 437-453 27

1024	Detailed modeling of n-butane autoignition chemistry. 1994 , 99, 87-136	78
1023	A new comprehensive reaction mechanism for combustion of hydrocarbon fuels. 1994 , 99, 201-211	81
1022	Application of a robust pdf treatment to analysis of thermal NO formation in nonpremixed hydrogen-air flame. 1994 , 98, 375-390	25
1021	Pressure-based method for combustion instability analysis. 1994 , 19, 981-995	7
1020	Fuel and soot oxidation in diesel-like conditions. 1994 , 25, 167-174	11
1019	A model for flame kernel growth at aircraft relight conditions. 1994 , 25, 261-268	0
1018	Effects of additives on the formation of organochlorine compounds during the combustion of paper-ferric chloride mixtures. 1994 , 143, 261-268	2
1017	A Wide Range Modeling Study of Methane Oxidation. 1994 , 96, 279-325	65
1016	Chemical Kinetic Modeling of Combustion from 1969 to 2019. 1994 , 98, 265-279	16
1015	Numerical investigation of influence of chemical reaction on turbulence field. 1994 ,	
1014	Decomposition of organohalogen compounds in municipal solid waste incineration plants. Part II: Co-combustion of CFC containing polyurethane foams. 1994 , 28, 1455-1465	11
1013	Transport and Oxidation of Compartment Fire Exhaust Gases in an Adjacent Corridor. 1994 , 6, 163-180	10
1012	The O ₃ Sensitized Partial Oxidation of CH ₄ to CH ₃ OH. 1994 , 81, 373-378	2
1011	Combustion of methane and ethane with CO ₂ replacing N ₂ as a diluent. Modelling of combined effects of detailed chemical kinetics and thermal properties on the early stages of combustion. 1995 , 74, 1061-1071	31
1010	Study of the predissociation of CH ₃ OA(2A1) by fast beam photofragment translational spectroscopy. 1995 , 235, 484-489	66
1009	Flame propagation in metal slurry sprays. 1995 , 100, 605-620	4
1008	Numerical investigation of chemical reaction-turbulence interaction in compressible shear layers. 1995 , 101, 197-208	7
1007	On knocking prediction in spark ignition engines. 1995 , 101, 239-261	37

1006	Experimental study and modeling of dodecane ignition in a diesel engine. 1995 , 103, 207-220		43
1005	Reduced kinetic models and their application to practical combustion systems. <i>Progress in Energy and Combustion Science</i> , 1995 , 21, 25-107	33.6	212
1004	Generation of 1O2 by microwave discharge and some characteristic reactions: A short review. 1995 , 45, 609-614		3
1003	Thermochemical and chemical kinetic data for fluorinated hydrocarbons. <i>Progress in Energy and Combustion Science</i> , 1995 , 21, 453-529	33.6	182
1002	Kinetic modeling of the H2O2 enhanced incineration of heptane and chlorobenzene. 1995 , 15, 43-53		5
1001	Engine Operating Parameter Effects on the Speciated Aldehyde and Ketone Emissions from a Natural Gas Fuelled Engine. 1995 ,		6
1000	Chemical Structures of Fuel-Rich, Premixed, Laminar Flames of 1, 1- C2H4Cl2/CH4/O2/Ar. 1995 , 106, 69-82		6
999	Coherent Flamelet Modeling of Diesel Engine Combustion. 1995 , 104, 295-337		15
998	MICRO-STRUCTURES OF PREMIXED HYDROCARBON FLAMES: METHANE. 1995 , 107, 1-19		58
997	Development of gas-phase reaction mechanisms for nitramine combustion. 1995 , 11, 683-697		137
996	Coupled Monte-Carlo-PDF/SPRAY/CFD computations of swirl-stabilized flames. 1995 ,		1
995	Numerical modeling of spray combustion with an unstructured-grid method. 1995 ,		6
994	Experimental Study and Kinetic Analysis of the Oxidation of Light Hydrocarbon Mixtures. 1996 , 35, 2127-2136		8
993	Simulation and analysis of supercritical multiphase combustion processes. 1996 ,		5
992	Performance optimization of a SCRAM accelerator projectile. 1996 ,		1
991	Investigation of ram accelerator flows for high pressure mixtures of various chemical compositions. 1996 ,		14
990	Numerical Study on Ignition and Combustion Process of a Diesel Spray in EGR Environment. 1996 ,		1
989	Development of a Time Resolved Spectroscopic Detection System and Its Application to Automobile Engines. 1996 ,		2

988	Explosive and General Oxidative Characteristics of Fuels. 1996 , 57-118	6
987	Ignition delay times of ram accelerator mixtures. 1996 ,	5
986	On methane combustion in a nozzle geometry using a reduced reaction kinetics model. 1996 ,	
985	Comparison of different methods of modeling turbulent combustion in a boundary layer. 1996 , 32, 390-394	2
984	Assessment of turbulent combustion submodels using the linear Eddy model. 1996 , 104, 343-357	10
983	Raman-LIF measurements of temperature, major species, OH, and NO in a methane-air bunsen flame. 1996 , 105, 499-510	97
982	The sensitive structure of partially premixed methane-air vs. air counterflow flames. 1996 , 26, 1121-1128	31
981	The transport of carbon monoxide from a burning compartment located on the side of a hallway. 1996 , 26, 1541-1547	4
980	Spontaneous ignition of liquid droplets from a view of non-homogeneous mixture formation and transient chemical reactions. 1996 , 26, 1637-1643	55
979	Analysis Of The Pulse Detonation Wave Engine. 1996 , 473-516	6
978	Flame surface modification of polypropylene film. 1996 , 10, 515-539	66
977	PDF Modelling of Spray Autoignition in High Pressure Turbulent Flows. 1996 , 120, 357-379	9
976	Reacting flow simulation for a large-scale ram accelerator. 1996 , 12, 61-69	22
975	APPLICATION OF SCALAR MONTE CARLO PROBABILITY DENSITY FUNCTION METHOD FOR TURBULENT SPRAY FLAMES. 1996 , 30, 753-777	14
974	Flame Phenomena in Premixed Combustible Gases. 1996 , 119-219	25
973	Recombination of Methyl Radicals. 1. New Data between 1175 and 1750 K in the Falloff Region□ 1996 , 100, 974-983	45
972	Unimolecular Decomposition of n-C4H9 and iso-C4H9 Radicals. 1996 , 100, 5318-5328	63
971	Developments In High-Speed Vehicle Propulsion Systems. 1996 ,	9

970	Kinetic modeling of ethylene oxidation in high speed reacting flows. 1997,	7
969	Analysis of hydrogen-oxygen mixing and combustion processes at high pressures. 1997,	18
968	Stabilization of Supersonic Combustion by a Free Recirculating Bubble: A Numerical Study. 1997, 35, 1782-1784	5
967	Performance Optimization of a Supersonic Combustion Ram Accelerator Projectile. 1997, 13, 592-600	4
966	Some Practical Complete Modal Spaces and Equivalence. 1997, 35, 1784-1787	3
965	Automated simplification of full chemical mechanisms. 1997,	4
964	Experimental and Modeling Study of the Effect of CF ₃ CHF ₂ on the Chemical Structure of a Methane/Oxygen/Argon Flame. 1997, 122, 33-62	13
963	Homogeneous Chemistry in Lean-Burn Exhaust Mixtures. 1997, 101, 9157-9162	11
962	A Semi-Empirical Reaction Mechanism for n-Heptane Oxidation and Pyrolysis. 1997, 123, 107-146	186
961	Photodissociation spectroscopy and dynamics of CH ₃ O and CD ₃ O. 1997, 101, 6583-6592	56
960	Chapter 7 Autoignition in spark-ignition engines. 1997, 35, 661-760	19
959	Chapter 6 Experimental and numerical studies of oxidation chemistry and spontaneous ignition phenomena. 1997, 545-660	10
958	Turbulent Combustion Modeling: Ignition and Initial Period of Propagation. 1997, 221-233	
957	Modeling of turbulent diffusion flame stabilization region. 1997,	
956	Reduced kinetics mechanisms for ram accelerator combustion. 1997,	11
955	Combined scalar-Monte-Carlo-pdf/CFD computations of spray flames on unstructured grids with parallel computing. 1997,	2
954	Extension of the coupled Monte-Carlo-pdf/SPRAY/CFD computations to unstructured grids and parallel computing. 1997,	1
953	Primary Pyrolysis and Oxidation Reactions of Linear and Branched Alkanes. 1997, 36, 3336-3344	44

952	A Correlative Model to Predict Autoignition Delay of Diesel Fuels. 1997 ,	10
951	Models of soot formation and oxidation. <i>Progress in Energy and Combustion Science</i> , 1997 , 23, 95-132	33.6 362
950	Linear-Eddy modeling of nonequilibrium turbulent reacting flows with nonpremixed reactants. 1997 , 109, 471-487	5
949	Soot volume fraction and temperature measurements in laminar nonpremixed flames using thermocouples. 1997 , 109, 701-720	222
948	A numerical study of natural gas combustion in a lean burn engine. 1998 , 77, 1339-1347	16
947	Effects of natural gas composition on the nitrogen oxide, flame structure and burning velocity under laminar premixed flame conditions. 1998 , 77, 1539-1547	34
946	Comparison of four combustion models for simulating the premixed combustion in inert porous media. 1998 , 22, 187-197	46
945	Hydrogen autoignition at pressures above the second explosion limit (0.6-1.0 MPa). 1998 , 30, 385-406	64
944	Burner emissions associated with lobed and non-lobed fuel injectors. 1998 , 27, 1825-1831	4
943	A group combustion model for treating reactive sprays in I.C. engines. 1998 , 27, 1857-1864	14
942	HCO concentration in flames via quantitative laser-induced fluorescence. 1998 , 27, 453-460	6
941	Flow time effects on hydrocarbon growth and soot formation in coflowing methane/air non-premixed flames. 1998 , 27, 1539-1547	12
940	Computation of turbulent reactive flows in industrial burners. 1998 , 22, 1059-1070	6
939	Combustion Kinetics of Light Hydrocarbons in the Presence of Nitrogen Oxide. 1998 , 37, 4241-4252	8
938	Determination of Rate Coefficients for Reactions of Formaldehyde Pyrolysis and Oxidation in the Gas Phase. 1998 , 102, 5196-5205	56
937	Modeling High-Pressure Mixing and Combustion Processes in Liquid Rocket Engines. 1998 , 14, 843-857	199
936	Experimental investigation of combustion stabilization in supersonic flow using free recirculating zone. 1998 ,	2
935	Polychlorobiphenyls: problems of the pollution of the environment and technological neutralisation methods. 1998 , 67, 713-724	48

934	NUMERICAL SIMULATION OF COMBUSTION WAVE PROPAGATION IN AN AIR-FUEL SPRAY MIXTURE WITH TEMPERATURE NONUNIFORMITY. 1998 , 34, 23-41	5
933	NUMERICAL SIMULATION OF THE BAKING OF POROUS ANODE CARBON IN A VERTICAL FLUE RING FURNACE. 1998 , 34, 571-598	14
932	An Examination of the Effects of Charge Inhomogeneity on the Compression Ignition of Fuel-Air Mixtures. 1998 ,	3
931	PDF Modelling of Stratified Charge SI Engine Combustion. 1998 ,	6
930	Combustion Process Modeling using a Reduced Mechanism in an LPG Lean Burn SI Engine. 1999 ,	1
929	Diesel Combustion: An Integrated View Combining Laser Diagnostics, Chemical Kinetics, And Empirical Validation. 1999 ,	217
928	A Comprehensive Chemical Kinetic Investigation of the Combustion Processes of Lean Mixtures of Methane and Air. 1999 ,	
927	Studying the Roles of Kinetics and Turbulence in the Simulation of Diesel Combustion by Means of an Extended Characteristic-Time-Model. 1999 ,	13
926	Unburned Hydrocarbon Emissions from SI Engines Using Gaseous Fuels. 1999 ,	9
925	Development of a Five-Step Global Methane Oxidation-NO Formation Mechanism for Lean-Premixed Gas Turbine Combustion. 1999 , 121, 272-280	45
924	Reduced Kinetics Mechanisms for Ram Accelerator Combustion. 1999 , 15, 591-600	89
923	Modeling of lean premixed combustion in stationary gas turbines. <i>Progress in Energy and Combustion Science</i> , 1999 , 25, 353-385	33.6 45
922	Theoretical analysis of aqueous residues incineration with oxygen enriched flames. 1999 , 26, 1029-1040	1
921	Modelling NO _x formation in coal particle combustion at high temperature: an investigation of the devolatilisation kinetic factors. 1999 , 78, 1171-1179	62
920	Finite-rate chemistry in modelling of two-dimensional jet premixed CH ₄ /air flame. 1999 , 42, 1757-1773	10
919	Ignition of ethane, propane, and butane in counterflow jets of cold fuel versus hot air under variable pressures. 1999 , 117, 777-794	48
918	NO _x formation in two-stage methane-air flames. 1999 , 118, 399-414	146
917	Experimental study of nonfuel hydrocarbon concentrations in coflowing partially premixed methane/air flames. 1999 , 118, 619-632	49

916	Fundamental mechanisms in premixed turbulent flame propagation via vortex-flame interactions part II: numerical simulation. 1999 , 118, 557-582	22
915	Direct numerical simulation of heat release and NO _x formation in turbulent nonpremixed flames. 1999 , 119, 69-83	36
914	Numerical analysis of laminar combustion of fuel gas clouds. 1999 , 118, 669-683	4
913	Propene pyrolysis and oxidation kinetics in a flow reactor and laminar flames. 1999 , 119, 375-399	170
912	Influence of geometric and regime parameters on flame stabilization of a swirl burner. 1999 , 35, 483-488	2
911	Flow reactor studies and kinetic modeling of the H ₂ /O ₂ reaction. 1999 , 31, 113-125	319
910	Ignition Delay Times of Ram Accelerator CH ₄ /O ₂ /Diluent Mixtures. 1999 , 15, 82-91	107
909	LSENS, the NASA Lewis kinetics and sensitivity analysis code. 1999 ,	1
908	Experimental Analysis of the Combustion of Mixtures of C ₁ -C ₂ Hydrocarbons. 1999 , 38, 897-905	
907	Laser Diagnostics of Combustion Processes: From Chemical Dynamics to Technical Devices. 1999 , 39, 1-24	15
906	A new procedure for predicting NO _x emissions from furnaces. 2000 , 8, 859-864	3
905	The reaction kinetics of dimethyl ether. I: High-temperature pyrolysis and oxidation in flow reactors. 2000 , 32, 713-740	329
904	Computational and experimental study of axisymmetric coflow partially premixed methane/air flames. 2000 , 123, 522-546	110
903	Large scale simulations of two-dimensional nonpremixed methane jet flames. 2000 , 123, 465-487	70
902	Experimental study of nonfuel hydrocarbons and soot in coflowing partially premixed ethylene/air flames. 2000 , 121, 575-592	105
901	Counterflow heptane flame structure. 2000 , 28, 1031-1038	35
900	Characterization of a coflowing methane/air non-premixed flame with computer modeling, rayleigh-raman imaging, and on-line mass spectrometry. 2000 , 28, 2063-2070	38
899	Rich flammability limits of fuel mixtures involving hydrogen at elevated temperatures. 2000 , 25, 75-80	32

898	Experimental and numerical study of flammability limits of gaseous mixtures in porous media. 2000 , 21, 117-123	22
897	The structure of cool flame fronts of pentane, iso-pentane and their mixture. 2000 , 9, 365-370	1
896	Modeling of Hydrocarbons Formation and Emission in Gas Engines. 2000 ,	0
895	Application of 3D-CFD Methods to Optimize a Gaseous Fuelled Engine with Respect to Charge Motion, Combustion and Knocking. 2000 ,	1
894	Using of Quasi-Two Zone Combustion Model to Predict the Performance of a Dual Fuel Engine. 2000 ,	3
893	The Impact of the Infinite Liquid Diffusivity and the Diffusion Limit Droplet Heating Model on the Evaporation and Combustion Characteristics in a Diesel Spray. 2000 ,	
892	A Computational Investigation of the Effect of Exhaust Gas Recirculation on the Performance of a Dual Fuel Engine. 2000 ,	2
891	Fuel Injection into a Supersonic Airflow by Means of Pylons. 2000 , 16, 29-34	24
890	Ignition source characteristics for natural-gas-burning vehicle engines. 2000 , 214, 171-180	5
889	Formaldehyde Formation in Large Bore Natural Gas Engines Part 1: Formation Mechanisms. 2000 , 122, 603-610	26
888	Comparison of NO/sub x/ prediction methodologies for gas turbine combustor simulations.	
887	Comparison of NOx prediction methodologies for gas turbine combustor simulations. 2000 ,	
886	A comparison of the relative effects of fuel composition and ignition energy on the early stages of combustion in a natural gas spark ignition engine using simulation. 2000 , 214, 383-393	19
885	Numerical simulation of ignition/combustion characteristics of ethylene in supersonic air streams. 2000 ,	1
884	Ignition and flame studies for an accelerating transonic mixing layer. 2000 ,	1
883	Hydrocarbon Oxidation. 2000 ,	
882	Computing of Oxy-Natural Gas Flames using Both a Global Combustion Scheme and a Chemical Equilibrium Procedure. 2000 , 160, 369-397	28
881	Chlorinated dioxins and furans as trace products of combustion: Some theoretical aspects. 2000 , 74, 179-193	1

880	Damped Pseudospectral Functional Forms of the Falloff Behavior of Unimolecular Reactions. 2000 , 104, 280-287	13
879	Simulation of NO _x formation in glass melting furnaces by an integrated computational approach: CFD+Reactor network analysis. 2000 , 8, 421-426	
878	NUMERICAL SIMULATION OF COMBUSTION OF NATURAL GAS WITH HIGH-TEMPERATURE AIR. 2001 , 170, 1-34	63
877	Ignition and flame studies for a turbulent accelerating transonic mixing layer. 2001 ,	4
876	Validation of fluent CFD code in supersonic flow fields. 2001 ,	5
875	Heat release dynamics modeling for combustion instability analysis of kinetically controlled burning. 2001 ,	0
874	Scramjet Research and Development in Russia. 2001 , 223-367	2
873	A Numerical Study to Control Combustion Duration of Hydrogen-Fueled HCCI by Using Multi-Zone Chemical Kinetics Simulation. 2001 ,	49
872	Combustion Modeling of Soot Reduction in Diesel and Alternate Fuels using CHEMKIN [®] . 2001 ,	14
871	Combustion of ethylene and propane in scramjet engines - Numerical study. 2001 ,	
870	Head-on Quenching of a Premixed Flame on the Single Wall Surface.. 2001 , 44, 624-633	13
869	Lumping procedures in detailed kinetic modeling of gasification, pyrolysis, partial oxidation and combustion of hydrocarbon mixtures. <i>Progress in Energy and Combustion Science</i> , 2001 , 27, 99-139	33.6 308
868	A new procedure for predicting NO _x emissions from furnaces. 2001 , 25, 613-618	45
867	Chemical kinetic modeling study of shock tube ignition of heptane isomers. 2001 , 33, 868-877	69
866	Effects of ambient pressure on flame structure of CO/H ₂ /N ₂ counterflow diffusion flame. 2001 , 25, 187-205	7
865	Kinetics of N ₂ O formation/destruction from coal combustion at low temperatures. 2001 , 25, 165-186	4
864	Effects of CO ₂ addition on flame structure in counterflow diffusion flame of H ₂ /CO ₂ /N ₂ fuel. 2001 , 25, 469-485	25
863	Computational and experimental study of axisymmetric coflow partially premixed ethylene/air flames. 2001 , 127, 2004-2022	60

862	Autoignition of sprays in a cylindrical combustor. 2001 , 44, 2413-2422	15
861	Combustion quasi-two zone predictive model for dual fuel engines. 2001 , 42, 1477-1498	25
860	Combustion modelling for direct injection diesel engines. 2001 , 215, 651-663	7
859	An Experimental Investigation of Laminar Premixed Aviation Fuel-Air Flames. 2001 ,	
858	The Influence of Fuel Droplet Characteristics on Chemical Mechanisms in a Premixed Laminar Spray Flame. 2001 , 18,	3
857	Ignition and Flame Studies for an Accelerating Transonic Mixing Layer. 2001 , 17, 1058-1066	12
856	High-Intensity Sound Absorption at an Orifice with Bias Flow. 2002 , 18, 718-720	4
855	Combustion Characteristics of Ethylene in Scramjet Engines. 2002 , 18, 716-718	5
854	Evaporation-Combustion Affected by In-Cylinder, Reciprocating Porous Regenerator. 2002 , 124, 184-194	46
853	A model-based self-tuning controller for kinetically controlled combustion instability. 2002 ,	
852	Development of the Tracer Gas Method for Large Bore Natural Gas EnginesPart I: Method Validation. 2002 , 124, 678-685	19
851	Fragmentation path for hydrogen atom dissociation from methoxy radical. 2002 , 116, 10229-10237	32
850	Rate Constants For $H + O_2 + M \rightarrow HO_2 + M$ in Seven Bath Gases. 2002 , 106, 5297-5313	114
849	Mechanism of hydrocarbon reduction using multiple injection in a natural gas fuelled/micro-pilot diesel ignition engine. 2002 , 3, 13-21	9
848	Development and Validation of Detailed and Reduced JP-8 Fuel Chemistry Models. 2002 ,	9
847	Large Eddy Simulation of a Shear-Coaxial LOX-H ₂ Jet at Supercritical Pressure. 2002 ,	7
846	Hydrogen Production by Methane-Rich Combustion in a Ceramic Burner.. 2002 , 35, 46-56	8
845	References. 2002 , 779-834	

844	A Skeletal Chemical Kinetic Model for the HCCI Combustion Process. 2002,	34
843	Performance and Fuel Consumption Estimation of a Hydrogen Enriched Gasoline Engine at Part-Load Operation. 2002,	10
842	Numerical Simulation for Parametric Study of a Two-Stroke Direct Injection Linear Engine. 2002,	34
841	Using Pilot Diesel Injection in a Natural Gas Fueled HCCI Engine. 2002,	4
840	To study the direct transformation of methane into methanol in the lower temperature range. 2002, 43, 1999-2008	11
839	NO emission characteristics in counterflow diffusion flame of blended fuel of H ₂ /CO ₂ /Ar. 2002, 26, 229-243	10
838	Dilution effect of air stream on NO emission characteristic in H ₂ /Ar counterflow diffusion flame. 2002, 26, 455-473	5
837	Thermal and chemical contributions of added H ₂ O and CO ₂ to major flame structures and NO emission characteristics in H ₂ /N ₂ laminar diffusion flame. 2002, 26, 1073-1086	38
836	Chemical effect of diluents on flame structure and NO emission characteristic in methane-air counterflow diffusion flame. 2002, 26, 1141-1160	41
835	CFD+reactor network analysis: an integrated methodology for the modeling and optimisation of industrial systems for energy saving and pollution reduction. 2002, 22, 971-979	41
834	Temperature regions of optimal chemical inhibition of premixed flames. 2002, 29, 329-336	8
833	Numerical study of the superadiabatic flame temperature phenomenon in hydrocarbon premixed flames. 2002, 29, 1543-1550	32
832	Detailed chemical kinetic reaction mechanisms for incineration of organophosphorus and fluoroorganophosphorus compounds. 2002, 29, 2469-2476	54
831	Modelling practical combustion systems and predicting NO _x emissions with an integrated CFD based approach. 2002, 26, 1171-1183	35
830	Outward propagation, burning velocities, and chemical effects of methane flames up to 60 ATM. 2002, 29, 1461-1470	264
829	Computational study on the formation of five-membered rings in pah through reaction with O ₂ . 2002, 128, 292-300	24
828	Numerical study on flame structure in H ₂ O ₂ /CO ₂ laminar flames. 2003, 27, 639-652	4
827	Chemical effects of CO ₂ addition to oxidizer and fuel streams on flame structure in H ₂ O ₂ counterflow diffusion flames. 2003, 27, 1205-1220	33

826	Flame structure and NO emissions in gas combustion of low calorific heating value. 2003 , 27, 1339-1361	14
825	The chemical effect of CO ₂ replacement of N ₂ in air on the burning velocity of CH ₄ and H ₂ premixed flames. 2003 , 133, 495-497	243
824	Experimental study of fuel decomposition and hydrocarbon growth processes for practical fuel components: heptanes. 2003 , 134, 339-353	72
823	Material flammability, combustion, toxicity and fire hazard in transportation. <i>Progress in Energy and Combustion Science</i> , 2003 , 29, 247-299	33.6 54
822	Detailed chemical kinetic models for the combustion of hydrocarbon fuels. <i>Progress in Energy and Combustion Science</i> , 2003 , 29, 599-634	33.6 346
821	Development of Comprehensive Detailed and Reduced Reaction Mechanisms for Combustion Modeling. 2003 , 41, 1629-1646	95
820	LES of Supercritical LOX-H ₂ Injection and Combustion in a Shear-Coaxial Uni-Element Rocket. 2003 ,	6
819	Sensitivity of JP-8 Fuel Combustion and Ignition to Aromatic Components. 2003 ,	
818	Development of a Detailed Chemical Kinetic Mechanism for Combustion of JP-7 Fuel. 2003 ,	
817	LSENS: Multipurpose Kinetics and Sensitivity Analysis Code for Homogeneous Gas-Phase Reactions. 2003 , 41, 848-855	11
816	Combustion. 2003 ,	1
815	Application of Various Combustion Models to a Generic Combustor. 2003 , 415	
814	Combustion. 2003 ,	
813	The Effect of Active Species in Internal EGR on Preignition Reactivity and on Reducing UHC and CO Emissions in Homogeneous Charge Engines. 2003 ,	15
812	Simulation Studies of the Effect of Fuel Injection Pattern on NO and Soot Formation in Diesel Engines. 2004 ,	18
811	Molecular Structure Effects On Laminar Burning Velocities At Elevated Temperature And Pressure. 2004 ,	108
810	A Systematic Evaluation of NO _x Formation Pathways and Subgrid Scale Models in Turbulent Nonpremixed CO/H ₂ /N ₂ Jet Flame Predictions. 2004 , 113	
809	Direct ab initio dynamics study on the rate constants and kinetics isotope effects of CH(3)O+H \rightarrow CH(2)O+H(2) reaction. 2004 , 121, 9474-80	6

808	Reduction of NO _x in a Regenerative Industrial Furnace With the Addition of Methanol in the Fuel. 2004 , 126, 159-165	3
807	Numerical study on flame structure and NO formation in CH ₄ /O ₂ /N ₂ counterflow diffusion flame diluted with H ₂ O. 2004 , 28, 1255-1267	29
806	Experimental study of fuel decomposition and hydrocarbon growth processes for practical fuel components in nonpremixed flames: MTBE and related alkyl ethers. 2004 , 36, 345-358	28
805	Mild Combustion. <i>Progress in Energy and Combustion Science</i> , 2004 , 30, 329-366	33.6 833
804	Modification of Reaction Rate Parameters for Combustion of Methane Based on Experimental Investigation at Furnace-like Conditions. 2004 , 18, 1482-1484	
803	DYNAMIC BEHAVIOR OF METHANE OXIDATION IN PREMIXED FLOW REACTOR. 2004 , 176, 769-783	28
802	Numerical Study of Hydrogen and Ethylene Injected Normally in a Two-dimensional Dual-mode Scramjet Combustor. 2004 ,	
801	Simulation of Combustion and Thermophysics in Practical Propulsion Systems. 2004 ,	
800	Importance of Surrogate JP-8/Jet-A Fuel Composition in Detailed Chemical Kinetics Development. 2004 ,	9
799	INCREASE ON INCINERATION CAPACITY AND NO _x CONTROL FOR AIR ENRICHMENT IN THE EXPERIMENTAL SIMULATION OF AQUEOUS RESIDUE INCINERATION. 2004 , 176, 1117-1152	2
798	A Critical Evaluation of NO _x Modeling in a Model Combustor. 2004 , 403	1
797	COMPREHENSIVE DESCRIPTION OF CHEMISTRY IN COMBUSTION MODELING. 2005 , 177, 845-870	14
796	On the spectral characteristics of a self-excited Rijke tube combustor: numerical simulation and experimental measurements. 2005 , 283, 573-588	34
795	Fuel decomposition and hydrocarbon growth processes for oxygenated hydrocarbons: butyl alcohols. 2005 , 30, 1363-1370	156
794	Computational combustion. 2005 , 30, 125-157	181
793	Fluidized bed combustion and desulfurization of a heavy liquid fuel. 2005 , 105, 81-89	11
792	Skeleton kinetic model of acetaldehyde oxidation from comprehensive models. 2005 , 60, 1939-1952	3
791	Kinetic analysis of NO-sensitized methane oxidation. 2005 , 60, 3683-3692	17

790	Numerical study on NO formation in CH ₄ /O ₂ /N ₂ diffusion flame diluted with CO ₂ . 2005 , 29, 107-120	17
789	Thermophysical characteristics of shear-coaxial LOX/H ₂ flames at supercritical pressure. 2005 , 30, 2929-2937	113
788	Premixed flame response to oscillatory pressure waves. 2005 , 30, 1733-1740	18
787	Species Transport from Post-Flashover Fires. 2005 , 41, 235-254	2
786	Combustion of sprayed liquid fuel in a swirling flow. 2005 , 41, 140-150	9
785	Auto-Ignition Quality of Practical Fuels and Implications for Fuel Requirements of Future SI and HCCI Engines. 2005 ,	280
784	Combustion mechanism of liquid fuel spray in a gaseous flame. 2005 , 17, 123301	86
783	A Critical Evaluation of NO _x Modeling in a Model Combustor. 2005 , 127, 483-491	16
782	SIDE AIR-JET MODULATION FOR CONTROL OF HEAT RELEASE AND PATTERN FACTOR. 2005 , 177, 1339-1364	4
781	Direct dynamics study on the hydrogen abstraction reaction CH ₂ O + HO ₂ → CHO + H ₂ O ₂ . 2005 , 109, 12027-35	15
780	Tar Removal from Biomass Derived Fuel Gas by Pulsed Corona Discharges: Chemical Kinetic Study II. 2005 , 44, 1734-1741	17
779	NO _x Formation in Natural Gas Combustion Evaluation of Simplified Reaction Schemes for CFD Calculations. 2005 , 44, 6622-6633	9
778	Hydrogen Sulfide Combustion: Relevant Issues under Claus Furnace Conditions. 2005 , 44, 7706-7729	83
777	Wide-Range Kinetic Modeling Study of the Pyrolysis, Partial Oxidation, and Combustion of Heavy Alkanes. 2005 , 44, 5170-5183	216
776	The Use of Hydrogen Combustion for Power Generation. 2005 ,	
775	Detailed Chemical Kinetic Modeling of JP-8/Jet-A Fuels Ignition in High Pressure Shock Tube. 2006 ,	4
774	Effects of Opposed-Flow Hydrocarbon Diffusion Flames by Chemically-Passive Suppressants at Normal EVA Atmosphere Conditions. 2006 ,	2
773	Hydrogen Enriched Confined Methane Flame Behavior and Flashback Modeling. 2006 ,	2

772	Development of Reduced Combustion Mechanisms for Premixed Flame Modeling in Steam Cracking Furnaces with Emphasis on NO Emission. 2006 , 20, 103-113	14
771	A taxonomy of integral reaction path analysis. 2006 , 10, 559-579	8
770	Control of Fluid Flow. 2006 ,	3
769	PROPAGATION, STRUCTURE, AND LIMIT PHENOMENA OF LAMINAR FLAMES AT ELEVATED PRESSURES. 2006 , 178, 335-360	62
768	Optimizing Piston Velocity Profile for Maximum Work Output From an IC Engine. 2006 , 291	6
767	Experimental and Numerical Study on Combustion Mechanism of Liquid Fuel Spray Entering Gaseous Flame Front. 2006 , 49, 498-505	1
766	Numerical prediction of combustion of carbon particle clusters in a circulating fluidized bed riser. 2006 , 118, 1-10	33
765	Gas-phase reactions during CVD synthesis of carbon nanotubes: Insights via numerical experiments. 2006 , 61, 6718-6726	35
764	Observations of the cellular structure of fuel-air detonations. 2006 , 144, 289-298	16
763	Numerical simulation and flight experiment on oscillating lifted flames in coflow jets with gravity level variation. 2006 , 145, 181-193	10
762	Chemical and thermal structures of a xylene-based CVD reactor to synthesize carbon nanotubes. 2006 , 422, 470-474	11
761	Studies of aromatic hydrocarbon formation mechanisms in flames: Progress towards closing the fuel gap. <i>Progress in Energy and Combustion Science</i> , 2006 , 32, 247-294	33.6 410
760	Ab initio study of intramolecular hydrogen transfer in formylperoxy radical. 2006 , 774, 35-41	6
759	Modeling of incomplete combustion of hydrocarbons in the presence of water under high pressure. 2006 , 42, 277-281	0
758	Eulerian Monte Carlo method for the joint velocity and mass-fraction probability density function in turbulent reactive gas flows. 2006 , 42, 753-762	18
757	White in Time Scalar Advection Model as a Tool for Solving Joint Composition PDF Equations. 2006 , 77, 333-357	12
756	Surface characterization of ion-enhanced implanted photoresist removal. 2006 , 24, 657	29
755	Probing chemical dynamics with negative ions. 2006 , 125, 132303	51

754	MIXING AND COMBUSTION OF CRYOGENIC OXYGEN-HYDROGEN SHEAR-COAXIAL JET FLAMES AT SUPERCRITICAL PRESSURE. 2006 , 178, 229-252	123
753	Large eddy simulation of turbulence-chemistry interactions in reacting flows. 2006 , 46, 16-27	7
752	Nonpremixed Combustion in an Accelerating Transonic Flow Undergoing Transition. 2007 , 45, 2935-2946	16
751	The Fundamentals of Spontaneous Ignition of Gaseous Hydrocarbons and Related Organic Compounds. 2007 , 203-304	6
750	Fuel effects in CAI gasoline engines. 2007 , 206-238	4
749	Auto-ignition and chemical kinetic mechanisms of HCCI combustion. 2007 , 433-455	14
748	Premixed flames modelled with thermally sensitive intermediate branching kinetics. 2007 , 11, 909-948	40
747	An Improved Soot Formation Model for 3D Diesel Engine Simulations. 2007 , 129, 877-884	28
746	Numerical modelling of unsteady spray behaviour in moderately high-pressure regime. 2007 , 11, 21-46	3
745	Constant Volume Autoignition of Premixed Methane-Carbon Dioxide Mixtures. 2007 , 4, 535-547	2
744	Soot Activation Energy for a Xylene-Fueled CVD Reactor. 2007 , 5,	
743	COMPUTATIONAL STUDY ON THE EFFECTS OF NON-PERIODIC FLOW PERTURBATIONS ON THE EMISSIONS OF SOOT AND NOX IN A CONFINED TURBULENT METHANE/AIR DIFFUSION FLAME. 2007 , 179, 1361-1384	10
742	VOC destruction by water diluted hydrogen mild combustion. 2007 , 68, 330-7	16
741	Reduced Combustion Time Model for Methane in Gas Turbine Flow Fields. 2007 ,	
740	Effects of Chemical Kinetics and Heat Loss on Near-LBO Combustion Dynamics - Stability Analysis. 2007 ,	3
739	Performance Estimation for Air-Breathing Pulse Detonation Engine with Bypass and Mix/Separate Exhaust. 2007 ,	
738	Extinction of Nonpremixed Opposed-Flow Hydrocarbon Flames by Chemically-Passive Fire Suppressants. 2007 ,	
737	Development of a Detailed Chemical Kinetic Mechanism for Mixtures of JP-8 Fuel and Fischer-Tropsch-Based Synthetic Jet Fuel. 2007 ,	3

736	Kinetic Modelling of Pyrolysis Processes in Gas and Condensed Phase. 2007 , 51-166	40
735	Reflected shock tube studies of high-temperature rate constants for OH + C ₂ H ₂ and OH + C ₂ H ₄ . 2007 , 9, 4155-63	25
734	Combustion of slugs of propane and air moving up through an incipiently fluidized bed. 2007 , 11, 401-425	2
733	NO Emission Behavior in Oxy-fuel Combustion Recirculated with Carbon Dioxide. 2007 , 21, 121-129	56
732	Pressure wave excitation of natural flame frequencies. 2007 , 11, 147-164	4
731	Hydrogen utilization as a fuel: hydrogen-blending effects in flame structure and NO emission behaviour of CH ₄ /air flame. 2007 , 31, 472-485	12
730	A comprehensive kinetic mechanism for CO, CH ₂ O, and CH ₃ OH combustion. 2007 , 39, 109-136	559
729	A two dimensional steady-state model of the gas-solid-solid reactor: Example of the partial oxidation of methane to methanol. 2007 , 134, 209-217	8
728	Numerical study of coal particle cluster combustion under quiescent conditions. 2007 , 62, 4336-4347	16
727	Soot processes in compression ignition engines. <i>Progress in Energy and Combustion Science</i> , 2007 , 33, 272-309	33.6 560
726	Control of combustion-generated nitrogen oxides by selective non-catalytic reduction. 2007 , 83, 251-89	218
725	Premixed laminar C ₁ /C ₂ stagnation flames: Experiments and simulations with detailed thermochemistry models. 2007 , 31, 1139-1147	22
724	Methane/propane oxidation at high pressures: Experimental and detailed chemical kinetic modeling. 2007 , 31, 447-454	178
723	Development and scale effects of small Swiss-roll combustors. 2007 , 31, 3243-3250	128
722	Near-field flow and flame dynamics of LOX/methane shear-coaxial injector under supercritical conditions. 2007 , 31, 2309-2317	79
721	Combustion at a crossroads: Status and prospects. 2007 , 31, 1-29	96
720	Modelling of Heat and Mass Transport Phenomena and Chemical Reaction in Underground Coal Gasification. 2007 , 85, 329-343	54
719	Autoignition of toluene reference fuels at high pressures modeled with detailed chemical kinetics. 2007 , 149, 2-24	139

718	Fluidized bed combustion of a diesel fuel: A modeling interpretation for micro-explosions. 2007 , 31, 2821-2828		4
717	Transforming data into knowledge Process Informatics for combustion chemistry. 2007 , 31, 125-140		126
716	Numerical investigation of ethylene flame bubble instability induced by shock waves. 2008 , 17, 409-419		29
715	A New Application of the Severity Factor Kinetic Model: Thermal Plasma Treatment of Black Liquor. 2008 , 82, 1209-1216		3
714	Designing man-portable power generation systems for varying power demand. 2008 , 54, 1254-1269		18
713	Thermodynamic irreversibilities and exergy balance in combustion processes. <i>Progress in Energy and Combustion Science</i> , 2008 , 34, 351-376	33.6	176
712	Detailed chemical kinetic models for the low-temperature combustion of hydrocarbons with application to gasoline and diesel fuel surrogates. <i>Progress in Energy and Combustion Science</i> , 2008 , 34, 440-498	33.6	463
711	Effects of radiation on spray flame characteristics and soot formation. 2008 , 152, 2-13		64
710	A rapid compression machine study of the oxidation of propane in the negative temperature coefficient regime. 2008 , 153, 316-333		104
709	Oxidation and combustion of the n-hexene isomers: A wide range kinetic modeling study. 2008 , 155, 756-772		117
708	Combustion of liquid bio-fuels in an internal circulating fluidized bed. 2008 , 143, 172-179		19
707	Numerical investigation of the partial oxidation in a two-stage downdraft gasifier. 2008 , 87, 1383-1393		77
706	Numerical investigation of NOx emissions from a tangentially-fired utility boiler under conventional and overfire air operation. 2008 , 87, 1259-1269		117
705	Development and Application of an Eight-Step Global Mechanism for CFD and CRN Simulations of Lean-Premixed Combustors. 2008 , 130,		28
704	Spark Ignition and Combustion in Four-Stroke Gasoline Engines. 2008 , 1-66		7
703	Steady-State Model for Estimating Gas Production from Underground Coal Gasification. 2008 , 22, 3902-3914		50
702	Syngas Combustion Kinetics and Applications. 2008 , 180, 1053-1096		148
701	Some Features of Propane-Air Flames Under Quenching Conditions in Narrow Channels. 2008 , 180, 1772-1787		11

- 700 Simulation of Swirl Stabilized, Liquid Fueled Model Gas Turbine Combustion Systems. **2008,**
- 699 Explosive and General Oxidative Characteristics of Fuels. **2008,** 75-145 0
- 698 ReaxFF reactive force field for molecular dynamics simulations of hydrocarbon oxidation. **2008,** 112, 1040-53 1392
- 697 Preferential Diffusion Effects on NO Formation in Methane/Hydrogen-Air Diffusion Flames. **2008,** 22, 278-283 11
- 696 Etude de l'influence des paramètres de combustion sur la formation de SO₂, de NO et de CO lors de la dégradation thermique de produits phytosanitaires d'usage courant en Afrique de l'Ouest. **2008,** 7, 213-221
- 695 Analysis of an Air-breathing Pulsed Detonation Engine With Bypass and Ejector. **2008,** 25,
- 694 Transported Probability Density Function (tPDF) Modeling for Direct-Injection Internal Combustion Engines. **2008,** 1, 591-606 18
- 693 Nonpremixed Combustion in an Accelerating Turning Transonic Flow Undergoing Transition. **2008,** 46, 1204-1215 10
- 692 Experimental and Numerical Investigation of n-Heptane/Air Counterflow Nonpremixed Flame Structure. **2008,** 24, 797-804 8
- 691 Flame Phenomena in Premixed Combustible Gases. **2008,** 147-260 3
- 690 Analysis and flamelet modelling for spray combustion. **2008,** 612, 45-79 79
- 689 A SIMPLE APPROACH TO NUMERICAL MODELING OF PROPANE COMBUSTION IN FLUIDIZED BEDS. **2008,** 196, 305-329 3
- 688 Kinetic Modeling of Soot Formation in Turbulent Nonpremixed Flames. **2008,** 25, 1407-1422 13
- 687 Experimental and Computational Study of Lean Limit Methane-Air Flame Propagating Upward in a 24 mm Diameter Tube. **2008,** 180, 1812-1828 19
- 686 Flamelet Characteristics of Gaseous and Spray Lifted Flames on Two-Dimensional Direct Numerical Simulations. **2008,** 3, 846-856 2
- 685 Numerical Simulation of a Direct-Injection Spark-Ignition Engine with Different Fuels. **2009,** 11
- 684 Modeling Instabilities in Lean Premixed Turbulent Combustors Using Detailed Chemical Kinetics. **2009,** 181, 1107-1122 5
- 683 Mixing and Combustion Characteristics of Kerosene in a Model Supersonic Combustor. **2009,** 25, 583-592 49

682	Reacting Mixing-Layer Computations in a Simulated Turbine-Stator Passage. 2009 , 25, 322-334	5
681	A kinetic-theory approach for computing chemical-reaction rates in upper-atmosphere hypersonic flows. 2009 , 131, 124311	36
680	Recent contributions of flame-sampling molecular-beam mass spectrometry to a fundamental understanding of combustion chemistry. <i>Progress in Energy and Combustion Science</i> , 2009 , 35, 168-191	33.6 275
679	A comprehensive detailed chemical kinetic reaction mechanism for combustion of n-alkane hydrocarbons from n-octane to n-hexadecane. 2009 , 156, 181-199	596
678	Mathematical modeling of gas combustion in a twisted jet and of the formation of a fiery whirlwind. 2009 , 82, 906-913	6
677	Modeling of Combustion as well as Heat, Mass, and Momentum Transfer During Thermal Spraying by HVOF and HVSFS. 2009 , 18, 896-908	31
676	Self-ignition of diesel spray combustion. 2009 , 45, 1627-1635	1
675	Catalytic behaviour of dense hot water. 2009 , 1, 57-62	85
674	Prediction of a high swirled natural gas diffusion flame using a PDF model. 2009 , 88, 374-381	22
673	Computed extinction limits and flame structures of H ₂ /O ₂ counterflow diffusion flames with CO ₂ dilution. 2009 , 34, 4005-4013	43
672	Numerical approach and optimization of the combustion and gas dynamics in High Velocity Suspension Flame Spraying (HVSFS). 2009 , 203, 2139-2145	25
671	Experimental characterization of gaseous species emitted by the fast pyrolysis of biomass and polyethylene. 2009 , 86, 260-268	11
670	Temperature and carbon source effects on methane-air flame synthesis of CNTs. 2009 , 32, 1855-1861	36
669	Sooting tendencies of nonvolatile aromatic hydrocarbons. 2009 , 32, 673-679	67
668	Positive and negative catalytic effects of a nickel mesh catalyst for the partial oxidation of ethane. 2009 , 147, 307-315	6
667	Production of ultrapure hydrogen from biomass gasification with air. 2009 , 64, 582-592	64
666	Theoretical study on kinetics of the H ₂ CO+O ₂ ->HCO+HO ₂ reaction. 2009 , 469, 81-84	6
665	Stability and Control of Lean Blowout in Chemical Kinetics-Controlled Combustion Systems. 2009 , 181, 226-244	9

664	Characteristics of a Multi-jet Burner in Oxy-Liquefied Petroleum Gas (LPG) Flames. 2009 , 23, 1456-1463	3
663	Preignition Oxidation Chemistry of the Major JP-8 Surrogate Component: n-Dodecane. 2009 ,	1
662	Emissions and Thermodynamic Performance Simulation of an Industrial Gas Turbine. 2009 ,	
661	Effect of Droplet Size on Soot Formation in Spray Combustion. 2009 , 46, 426-435	1
660	Eulerian (Field) Monte Carlo Methods for Solving PDF Transport Equations in Turbulent Reacting Flows. 2010 , 75	2
659	Combustion Kinetic Modeling. 2010 , 153	
658	CFD-modelling of Selective Non-Catalytic Reduction of NOx in grate-kiln plants. 2010 , 10, 284	17
657	Effect of Group Combustion Behavior on Entropy Generation Rate in Spray Combustion Process(Thermal Engineering). 2010 , 76, 1433-1440	
656	New effects of stratified gas detonation. 2010 , 55, 28-32	5
655	Formation of detonation in rotating channels. 2010 , 55, 308-311	5
654	Application of spray combustion simulation in DI diesel engine. 2010 , 87, 1427-1432	17
653	Auto-ignition of diesel spray using the PDF-Eddy Break-Up model. 2010 , 34, 1732-1745	12
652	Development and application of the drop number size moment modelling to spray combustion simulations. 2010 , 30, 1215-1224	3
651	Low temperature n-butane oxidation skeletal mechanism, based on multilevel approach. 2010 , 157, 641-652	13
650	Excitation and quenching of detonation in gases. 2010 , 83, 1244-1274	2
649	Detonation initiation by rotation of an elliptic cylinder inside a circular cylinder and deformation of the channel walls. 2010 , 51, 463-470	5
648	Optimal start-up of microfabricated power generation processes employing fuel cells. 2010 , 31, 471-495	4
647	The fundamentals of flame treatment for the surface activation of polyolefin polymers \square A review. 2010 , 51, 3591-3605	93

646	Ignition kernel development studies relevant to lean-burn natural-gas engines. 2010 , 89, 3262-3271	19
645	Modeling of biomass gasification in fluidized bed. <i>Progress in Energy and Combustion Science</i> , 2010 , 36, 444-509	33.6 564
644	Numerical simulation of the flow streams behavior in a self-regenerative crucible furnace. 2010 , 30, 826-832	13
643	Negative pressure dependence of mass burning rates of H ₂ /CO/O ₂ /diluent flames at low flame temperatures. 2010 , 157, 618-631	130
642	Transient burning of a convective fuel droplet. 2010 , 157, 970-981	18
641	Chemical kinetics of catalytic chemical vapor deposition of an acetylene/xylene mixture for improved carbon nanotube production. 2010 , 48, 4330-4342	34
640	Distinctive features of galloping detonation in a supersonic combustible-mixture flow under an inert gas layer. 2010 , 45, 827-834	5
639	Applications to Chemically Reactive Flows and Combustion. 734-805	
638	An Investigation into the Effect of Fuel Equivalence Ratio in an HCCI Combustion Engine Using PRF 60. 2010 ,	1
637	Chemical Model of Gasoline-Ethanol Blends for Internal Combustion Engine Applications. 2010 ,	16
636	Large-eddy simulation of kerosene spray combustion in a model scramjet chamber. 2010 , 224, 949-960	23
635	Development of a Cycle-Resolved Mechanism for Carbon Monoxide Formation. 2010 ,	
634	Reburning in Oxy-Fuel Combustion: A Parametric Study of the Combustion Chemistry. 2010 , 49, 9088-9094	29
633	Numerical Investigation of the Supersonic Combustion of Kerosene in a Strut-Based Combustor. 2010 , 26, 1084-1091	39
632	Formation of Carbon Nanofibers and Thin Films Catalyzed by Palladium in Ethylene-Hydrogen Mixtures. 2010 , 114, 5804-5810	12
631	Negative Pressure Dependence of High Pressure Burning Rates of H ₂ /O ₂ Flames at Lean Conditions. 2010 ,	2
630	Investigations into the flame stability limits in a backward step micro scale combustor with premixed methane-air mixtures. 2010 , 20, 095030	45
629	Towards cleaner combustion engines through groundbreaking detailed chemical kinetic models. 2011 , 40, 4762-82	94

628	Additive Effects on the Burning Velocity of Ethylene-Air Mixtures. 2011 , 25, 2444-2451		20
627	High-temperature oxidation chemistry of n-butanol--experiments in low-pressure premixed flames and detailed kinetic modeling. 2011 , 13, 20262-74		83
626	Photodissociation dynamics of the tert-butyl radical via photofragment translational spectroscopy at 248 nm. 2011 , 13, 8180-5		19
625	Transient convective burning of interactive fuel droplets in single-layer arrays. 2011 , 15, 227-243		11
624	Reburning of Nitric Oxide in Oxy-Fuel Firing--The Influence of Combustion Conditions. 2011 , 25, 624-631		23
623	Emissions and Thermodynamic Performance Simulation of an Industrial Gas Turbine. 2011 , 27, 78-93		14
622	Fuel-specific influences on the composition of reaction intermediates in premixed flames of three C ₅ H ₁₀ O ₂ ester isomers. 2011 , 13, 6901-13		54
621	Diluted Air Combustion and NO _x Emission in a HiTAC Furnace. 2011 , 59, 633-651		9
620	Analysis of Multiple Scalar Large-Eddy Simulation/Probability Density Function Formulation for Turbulent Spray Combustion. 2011 ,		2
619	Kinetic Modeling of the H ₂ /O ₂ Reaction in High-Pressure Flames. 2011 ,		0
618	Hot Combustion Torch Jet Ignition Delay Time for Ethylene-Air Mixtures. 2011 ,		10
617	On the predictability of chemical kinetics for the description of the combustion of simple fuels. 2011 , 33, 492-505		10
616	Effects of Non-Linearity on the Flame Response and Control of Combustion Instabilities in a Matrix Burner. 2011 , 3, 243-272		
615	Numerical Analysis of Intermediate Species Diffusion Effect on Low Temperature Oxidation in a Homogeneous n-Heptane Mixture. 2011 , 77, 1592-1600		1
614	Using CFD for NO _x emission simulation in a dual fuel boiler. 2011 , 47, 426-435		2
613	Fuel design and management for the control of advanced compression-ignition combustion modes. <i>Progress in Energy and Combustion Science</i> , 2011 , 37, 741-783	33.6	404
612	Transient convective burning of interactive fuel droplets in double-layer arrays. 2011 , 158, 2395-2407		26
611	Thermal rate constants of the pyrolysis of n-Heptane. 2011 , 158, 2314-2324		33

610	The method of uncertainty quantification and minimization using polynomial chaos expansions. 2011 , 158, 2358-2374	138
609	Catalytic oxidation of ethane with oxygen using fluidised nanoparticle NiO catalyst. 2011 , 405, 166-174	16
608	CFD study on influence of fuel temperature on NOx emission in a HiTAC furnace. 2011 , 38, 1421-1427	28
607	A computational study of combustion and extinction of opposed-jet syngas diffusion flames. 2011 , 36, 15868-15879	29
606	Numerical simulation of the unsteady propagation of combustion in a duct with a supersonic viscous gas flow. 2011 , 5, 800-812	6
605	Cellular structure of divergent cylindrical detonation waves. 2011 , 56, 391-393	4
604	An improved H ₂ /O ₂ mechanism based on recent shock tube/laser absorption measurements. 2011 , 158, 633-644	208
603	Simulation of transient convective burning of an n-octane droplet using a four-step reduced mechanism. 2011 , 158, 1171-1180	8
602	Numerical simulations of the combustor for waste insulating oil containing polychlorinated biphenyls. 2011 , 25, 1853-1859	1
601	Analysis of Methanol Production from Biomass Gasification. 2011 , 34, 307-317	19
600	Reactive molecular dynamics simulation and chemical kinetic modeling of pyrolysis and combustion of n-dodecane. 2011 , 158, 217-226	138
599	Interaction of heterogeneous and homogeneous kinetics with mass and heat transfer in catalytic reforming of logistic fuels. 2011 , 158, 796-808	29
598	Kinetics of elementary reactions in low-temperature autoignition chemistry. <i>Progress in Energy and Combustion Science</i> , 2011 , 37, 371-421	33.6 481
597	Experimental and numerical investigation of tar destruction under partial oxidation environment. 2011 , 92, 1513-1524	41
596	Modeling the effects of the operational parameters on H ₂ composition in a biomass fluidized bed gasifier. 2011 , 36, 6592-6600	25
595	Transient convective burning of a periodic fuel-droplet array. 2011 , 33, 2109-2116	18
594	Assessment of kinetic modeling for lean H ₂ /CH ₄ /O ₂ /diluent flames at high pressures. 2011 , 33, 905-912	38
593	A new shock tube study of the H+O ₂ ->OH+O reaction rate using tunable diode laser absorption of H ₂ O near 2.5 μ m. 2011 , 33, 309-316	110

592	Computed Extinction Limits and Flame Structures of Opposed-Jet Syngas Diffusion Flames. 2011 , 110-116, 4899-4906	
591	Numerical modelling of diesel spray auto-ignition and combustion. 2011 , 12, 169-180	2
590	An Experimental Study of Lean Blowout With Hydrogen-Enriched Fuels. 2012 , 134,	6
589	A Global Kinetic Model for the Combustion of the Evolved Gases in Wildland Fires. 2012 , 184, 1380-1394	4
588	3-D simulation of soot formation in a direct-injection diesel engine based on a comprehensive chemical mechanism and method of moments. 2012 , 16, 143-171	10
587	Numerical Study of the Influence of Combustion Models and Kinetic Schemes When Predicting the Diffusion Flames. 2012 , 28, 701-713	
586	Numerical Analysis of Depollution of Smoke Produced by Household Wastes Incineration. 2012 , 134,	
585	A Flow Network Combustor Model Applying Reduced Mechanisms. 2012 ,	
584	Preliminary Experimental Results of Integrated Gasification Fuel Cell Operation Using Hardware Simulation. 2012 , 134,	5
583	- Modeling of Premixed Burning in Turbulent Flows. 2012 , 324-445	
582	Analysis of Impinging Wall Effects on Hydrogen Non-Premixed Flame. 2012 , 184, 1244-1268	4
581	Experimental and Kinetic Study of NO _x Reduction by Reburning Using Syngas from Updraft Biomass Gasification with Phenol As a Model Compound for Tar. 2012 , 26, 3739-3746	11
580	Mechanism for Inhibition of Atmospheric-Pressure Syngas/Air Flames by Trimethylphosphate. 2012 , 26, 5528-5536	13
579	Experimental evaluation of strategies to increase the operating range of a biogas-fueled HCCI engine for power generation. 2012 , 97, 618-629	49
578	Reduced kinetic mechanism for combustion of synthesis gas at elevated temperatures and pressures. 2012 , 48, 590-601	1
577	Pollutant Formation. 2012 , 193-223	1
576	Effects of preferential diffusion on downstream interaction in premixed H ₂ /CO syngas-air flames. 2012 , 37, 12015-12027	13
575	Reductive and oxidative combustion of polyethylene bags: Characterization of carbonaceous and nitrogenous species. 2012 , 98, 72-78	5

574	Experimental and modeling investigation of the low-temperature oxidation of -heptane. 2012 , 159, 3455-3471	122
573	Numerical Simulation of Industrial Opposed Multiburner Coal/Water Slurry Entrained Flow Gasifier. 2012 , 51, 2560-2569	51
572	Encyclopedia of Sustainability Science and Technology. 2012 , 5499-5547	1
571	Algebraic Turbulence-Chemistry Interaction Model. 2012 ,	
570	A thermochemically derived global reaction mechanism for detonation application. 2012 , 22, 363-379	3
569	Numerical modeling of the combustion of densified wood under fixed-bed conditions. 2012 , 93, 149-159	91
568	Energetic assessment of a combined heat and power integrated biomass gasification/internal combustion engine system by using Aspen Plus [®] . 2012 , 95, 37-44	83
567	Numerical simulation of hydrogen impinging jet flame using flamelet generated manifold reduction. 2012 , 37, 4502-4515	20
566	Computational modeling of smolder combustion and spontaneous transition to flaming. 2012 , 159, 448-461	29
565	Bifurcations and negative propagation speeds of methane/air premixed flames with repetitive extinction and ignition in a heated microchannel. 2012 , 159, 1631-1643	57
564	Modeling HCCI combustion of biofuels: A review. 2012 , 16, 1588-1610	101
563	Oxy-fuel combustion of pulverized coal: Characterization, fundamentals, stabilization and CFD modeling. <i>Progress in Energy and Combustion Science</i> , 2012 , 38, 156-214	33.6 690
562	Comprehensive H ₂ /O ₂ kinetic model for high-pressure combustion. 2012 , 44, 444-474	507
561	Analysis of first stage ignition delay times of dimethyl ether in a laminar flow reactor. 2013 , 17, 906-936	15
560	Mathematical modeling of shock-wave processes under gas solid boundary interaction. 2013 , 281, 37-48	4
559	Predictions of CO and NO _x emissions from steam cracking furnaces using GRI2.11 detailed reaction mechanism – A CFD investigation. 2013 , 58, 68-83	15
558	A Hierarchical and Comparative Kinetic Modeling Study of C ₁ – C ₂ Hydrocarbon and Oxygenated Fuels. 2013 , 45, 638-675	728
557	Two-Dimensional Model for Liquid-Rocket Transverse Combustion Instability. 2013 , 51, 2919-2934	30

556	On the High-Temperature Combustion of n-Butanol: Shock Tube Data and an Improved Kinetic Model. 2013 , 27, 7072-7080	27
555	Numerical Modeling of Laminar Flames with Detailed Kinetics Based on the Operator-Splitting Method. 2013 , 27, 7730-7753	71
554	Investigation of factors affecting channelling in fixed-bed solid fuel combustion using CFD. 2013 , 160, 2204-2220	41
553	Important role of chemical interaction on flame extinction in downstream interaction between stretched premixed H ₂ -air and CO-air flames. 2013 , 38, 6537-6551	5
552	A quantitative explanation for the apparent anomalous temperature dependence of OH + HO ₂ = H ₂ O + O ₂ through multi-scale modeling. 2013 , 34, 547-555	61
551	Numerical analysis of effect of ignition methods on flame behavior during passing through a sudden contraction near the quenching conditions. 2013 , 54, 202-211	7
550	Aminoxyl (nitroxyl) radicals in the early decomposition of the nitramine RDX. 2013 , 117, 2233-41	19
549	Effects of residual burnt gas heterogeneity on early flame propagation and on cyclic variability in spark-ignited engines. 2013 , 160, 1020-1032	59
548	Dilution effects analysis of opposed-jet H ₂ /CO syngas diffusion flames. 2013 , 17, 543-562	9
547	Two dimensional numerical computation of a circulating fluidized bed biomass gasifier. 2013 , 48, 234-250	16
546	Downstream interaction between stretched premixed syngas-air flames. 2013 , 104, 739-748	7
545	Two-dimensional direct numerical simulation of spray flames [Part 2: Effects of ambient pressure and lift, and validity of flamelet model. 2013 , 104, 526-535	23
544	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
543	On potential energy landscape and combustion chemistry modeling. 2013 , 160, 222-223	7
542	Numerical simulation of non-stationary propagation of combustion along a duct with supersonic flow of a viscous gas. 2013 , 227, 480-492	4
541	Simultaneous measurements of OH(A) and OH(X) radicals in microwave plasma jet-assisted combustion of methane/air mixtures around the lean-burn limit using optical emission spectroscopy and cavity ringdown spectroscopy. 2013 , 46, 464008	9
540	A reactive molecular dynamics study of n-heptane pyrolysis at high temperature. 2013 , 117, 3266-78	87
539	Experimental and Numerical Study on Laminar Flame Characteristics of Methane Oxy-fuel Mixtures Highly Diluted with CO ₂ . 2013 , 27, 6231-6237	124

538	Detailed Kinetic Modeling of Soot-Particle and Key-Precursor Formation in Laminar Premixed and Counterflow Diffusion Flames of Fossil Fuel Surrogates. 2013 , 135,	4
537	Internal Combustion Engine Response to Presence of Combustion Inhibitors in Ambient Air. 2013 , 6, 1138-1144	1
536	Detailed Temperature-dependent Study of n-Heptane Pyrolysis at High Temperature. 2013 , 26, 329-336	8
535	Experimental and Numerical Study on Diluted Premixed Laminar Dimethyl Ether-Air Flames. 2013 , 732-733, 18-22	
534	Off Design Behavior of a 100kW Turbec T100P Micro Gas Turbine. 2013 , 390, 275-280	2
533	Evaluation of Reduced Kinetics in Simulation of Gasified Biomass Gas Combustion. 2013 ,	
532	Experimental and Numerical Research of a Novel Combustion Chamber for Small Gas Turbine Engines. 2013 , 45, 01091	2
531	Effects of Internal Pressure and Inlet Velocity Disturbances of Air and Fuel Droplets on Spray Combustion Field. 2013 , 8, 269-280	6
530	NOx and CO Formation and Control. 175-208	3
529	Fundamental Chemical Kinetics. 2014 , 1-14	
528	Fundamental Combustion Modes. 2014 , 1-19	
527	UHC and CO Formation and Models. 2014 , 1-15	
526	Modeling CO ₂ Chemical Effects on CO Formation in Oxy-Fuel Diffusion Flames Using Detailed, Quasi-Global, and Global Reaction Mechanisms. 2014 , 186, 829-848	17
525	Ozone-Assisted Combustion Part I: Literature Review and Kinetic Study Using Detailed n-Heptane Kinetic Mechanism. 2014 , 136,	9
524	Development and Parametric Evaluation of a Tabulated Chemistry Tool for the Simulation of n-Heptane Low-Temperature Oxidation and Autoignition Phenomena. 2014 , 2014, 1-13	3
523	Study on ignition delay of multi-component syngas using shock tube. 2014 , 92, 861-870	11
522	Mathematical Modeling of Catalytic Oxidation of Methane in a Channel with a Porous Insert. 2014 , 87, 1298-1312	5
521	Hexadecane mechanisms: Comparison of hand-generated and automatically generated with pathways. 2014 , 115, 132-144	9

520	Progress in combustion investigations of hydrogen enriched hydrocarbons. 2014 , 30, 195-216		100
519	Two approaches of chemistry downsizing for simulating selective non catalytic reduction DeNOx process. 2014 , 118, 291-299		23
518	On the carbon monoxide formation in oxy-fuel combustion Contribution by homogenous and heterogeneous reactions. 2014 , 25, 33-41		13
517	Compartment modeling of coal gasification in an entrained flow gasifier: A study on the influence of operating conditions. 2014 , 82, 202-211		27
516	Chemical kinetic study of a novel lignocellulosic biofuel: Di-n-butyl ether oxidation in a laminar flow reactor and flames. 2014 , 161, 798-809		71
515	Numerical Simulation and Assessment of a Two-Stage Gasifier Modified from an Opposed Multi-Burner Gasifier. 2014 , 37, 483-494		8
514	Kinetic Analysis of Ethyl Iodide Pyrolysis Based on Shock Tube Measurements. 2014 , 46, 295-304		31
513	Development of a chemical kinetic model for a biosolids fluidized-bed gasifier and the effects of operating parameters on syngas quality. 2014 , 64, 160-74		13
512	Triple flame: Inherent asymmetries and pentasectional character. 2014 , 18, 454-473		6
511	Alcohol combustion chemistry. <i>Progress in Energy and Combustion Science</i> , 2014 , 44, 40-102	33.6	534
510	Effects of CO ₂ addition on flame extinction in interacting H ₂ /air and CO/air premixed flames. 2014 , 136, 69-78		12
509	A theoretical study of three gas-phase reactions involving the production or loss of methane cations. 2014 , 16, 21867-75		3
508	Numerical energetic and exergetic analysis of CI diesel engine performance for different fuels of hydrogen, dimethyl ether, and diesel under various engine speeds. 2014 , 39, 9515-9526		35
507	Pressure dependence of mass burning rates in diluent premixed flames of H ₂ /O ₂ at high pressures. 2014 , 28, 1125-1133		1
506	Advances in droplet array combustion theory and modeling. <i>Progress in Energy and Combustion Science</i> , 2014 , 42, 54-86	33.6	54
505	Numerical investigation of the impact of asymmetric fuel injection on shock train characteristics. 2014 , 105, 66-74		23
504	Structure of incipiently sooting ethylene/nitrogen counterflow diffusion flames at high pressures. 2014 , 161, 1587-1603		29
503	Effects of ambient pressure, gas temperature and combustion reaction on droplet evaporation. 2014 , 161, 551-564		83

502	Advances and challenges in laminar flame experiments and implications for combustion chemistry. <i>Progress in Energy and Combustion Science</i> , 2014 , 43, 36-67	33.6	342
501	CFD simulation of MSW combustion and SNCR in a commercial incinerator. 2014 , 34, 1609-18		27
500	Preferential diffusion effects in downstream interactions between premixed H ₂ /air and CO/air flames. 2014 , 116, 550-559		5
499	Chemical Reaction Mechanisms That Govern Oxidation Rates During In-Situ Combustion and High-Pressure Air Injection. 2014 ,		12
498	Evaluating upper flammability limit of low hydrocarbon diluted with an inert gas using threshold temperature. 2015 , 138, 810-813		20
497	A CFD-based evaluation of selective non-catalytic reduction of nitric oxide in iron ore grate-kiln plants. 2015 , 15, 32		9
496	High-Pressure Fuel Pyrolysis Investigation Using a Microflow Tube Reactor. 2015 ,		0
495	Accurate transport properties for H-CO and H-CO ₂ . 2015 , 143, 054303		5
494	Combustion in vortex chambers with a fluidized particle bed. 2015 , 51, 631-640		6
493	The initiation of methane/air autoignition: the important chemical components for various initial conditions. 2015 , 574, 012112		1
492	Sequential Modeling of Heavy Liquid Fuel Combustion in a Fluidized Bed. 2015 , 38, 1853-1864		2
491	Application of the Optimized Decoupling Methodology for the Construction of a Skeletal Primary Reference Fuel Mechanism Focusing on Engine-Relevant Conditions. 2015 , 1,		32
490	Partially Stratified Charge Natural Gas Combustion: A LES Numerical Analysis. 2015 ,		9
489	Partially Stratified Charge Natural Gas Combustion: The Impact of Uncertainties on LES Modeling. 2015 ,		6
488	Laminar flame speeds and ignition delay times of methane/air mixtures at elevated temperatures and pressures. 2015 , 158, 1-10		151
487	Effects of droplets on an exothermic reacting supersonic shear flow. 2015 ,		
486	Numerical study of the combustion chemistry of fuel-rich mixtures of formaldehyde and air. 2015 , 51, 623-630		2
485	High temperature oxidation of formaldehyde and formyl radical: A study of 1,3,5-trioxane laminar burning velocities. 2015 , 35, 687-694		23

484	Effect of precursors and radiation on soot formation in turbulent diffusion flame. 2015 , 148, 58-72	14
483	3D cellular detonation in cylindrical channels. 2015 , 60, 11-14	3
482	On the flow direction effect in sequential modular simulations: A case study on fluidized bed biomass gasifiers. 2015 , 40, 2552-2567	6
481	Comprehensive kinetic modeling and experimental study of a fuel-rich, premixed n-heptane flame. 2015 , 162, 2045-2058	84
480	Propellant Injector Influence on Liquid-Propellant Rocket Engine Instability. 2015 , 31, 320-331	17
479	Initiation and propagation of multidimensional detonation waves. 2015 , 51, 36-44	
478	Flame extinction in interacting CO-air and syngas-air premixed flames. 2015 , 29, 419-428	1
477	An overview of processes and considerations in the modelling of fixed-bed biomass combustion. 2015 , 88, 946-972	86
476	Numerical simulation of SNCR (selective non-catalytic reduction) process in coal fired grate boiler. 2015 , 92, 67-76	24
475	Full-scale Detached Eddy Simulation of kerosene fueled scramjet combustor based on skeletal mechanism. 2015 ,	18
474	Experimental and Kinetic Modeling Study of 2-Methyl-2-Butene: Allylic Hydrocarbon Kinetics. 2015 , 119, 7462-80	54
473	Multiscale Informatics for Low-Temperature Propane Oxidation: Further Complexities in Studies of Complex Reactions. 2015 , 119, 7095-115	27
472	Algorithmic Identification of the Reactions Related to the Initial Development of the Time Scale That Characterizes CH ₄ /Air Autoignition. 2015 , 141,	11
471	Combustion simulations with accurate transport properties for reactive intermediates. 2015 , 162, 2480-2486	12
470	Optimized chemical mechanism for combustion of gasoline surrogate fuels. 2015 , 162, 1623-1637	206
469	Active Thermochemical Tables: Sequential Bond Dissociation Enthalpies of Methane, Ethane, and Methanol and the Related Thermochemistry. 2015 , 119, 7810-37	127
468	Formation of spin detonation in channels of circular cross section. 2015 , 60, 85-88	3
467	Peroxyacetyl radical: electronic excitation energies, fundamental vibrational frequencies, and symmetry breaking in the first excited state. 2015 , 142, 054303	10

466	Flame temperature theory-based model for evaluation of the flammable zones of hydrocarbon-air-CO ₂ mixtures. 2015 , 294, 137-44	25
465	Global investigation of potential energy surfaces for the pyrolysis of C(1)-C(3) hydrocarbons: toward the development of detailed kinetic models from first principles. 2015 , 17, 27789-805	13
464	Two-dimensional quantitative measurements of methyl radicals in methane/air flame. 2015 , 54, 157-62	5
463	Combustion Pathways of Biofuel Model Compounds. 2015 , 49, 103-187	6
462	Influence of nozzle design on the performance of a partial combustion lance: A CFD study. 2015 , 104, 558-570	4
461	Study on laminar burning velocity of syngas-air premixed flames in various mixing conditions. 2015 , 29, 3005-3015	5
460	Impact of Oxygen Enrichment on the Performance of Heat-Recirculating Micro-Scale Combustors. 2015 ,	
459	Sequence-based Process Modeling of Fluidized Bed Biomass Gasification. 2015 , 3, 2640-2651	11
458	Review of kinetic and equilibrium concepts for biomass tar modeling by using Aspen Plus. 2015 , 52, 1623-1644	43
457	Sequential Modular Simulation of Hydrodynamics and Reaction Kinetics in a Biomass Bubbling Fluidized-Bed Gasifier Using Aspen Plus. 2015 , 29, 8261-8272	12
456	Driving Mechanisms for Combustion Instability. 2015 , 187, 162-205	21
455	Explosive and general oxidative characteristics of fuels. 2015 , 71-146	1
454	Extracting Kinetic Information from Complex Gas-Solid Reaction Data. 2015 , 54, 4113-4122	23
453	Flame phenomena in premixed combustible gases. 2015 , 147-254	2
452	Combustion kinetic model uncertainty quantification, propagation and minimization. <i>Progress in Energy and Combustion Science</i> , 2015 , 47, 1-31	33.6 178
451	A review of the combustion and emissions properties of advanced transportation biofuels and their impact on existing and future engines. 2015 , 42, 1393-1417	283
450	An experimental and modeling study of n-octanol combustion. 2015 , 35, 419-427	72
449	Hydrogen oxidation at high pressure and intermediate temperatures: Experiments and kinetic modeling. 2015 , 35, 553-560	50

448	Natural Gas Partially Stratified Charge Combustion: Extended Analysis of Experimental Validation and Study of Turbulence Impact on Flame Propagation. 2016,	5
447	Harnessing the Combined Power of Theoretical and Experimental Data through Multiscale Informatics. 2016, 48, 212-235	20
446	Transverse Combustion Instability in a Rectangular Rocket Motor. 2016, 32, 620-627	15
445	Estimation of the turbulence scales in flame during diffusion diesel fuel combustion. 2016,	
444	Optical measurement and numerical simulation of spray combustion. 2016, 11, JTST0002-JTST0002	1
443	CO ₂ -Rich Combustion. 2016, 1-21	
442	Generation and stabilization of detonation in a plane elbowed channel. 2016, 51, 86-94	1
441	Chemical and radiation effects on flame extinction and NO _x formation in oxy-methane combustion diluted with CO ₂ . 2016, 177, 235-243	21
440	Modeling Tar Recirculation in Biomass Fluidized Bed Gasification. 2016, 30, 3113-3129	2
439	Third O ₂ addition reactions promote the low-temperature auto-ignition of n-alkanes. 2016, 165, 364-372	55
438	A detailed combined experimental and theoretical study on dimethyl ether/propane blended oxidation. 2016, 168, 310-330	60
437	Modeling the effect of coke deposition in a heat integrated ethanol reformer. 2016, 41, 19863-19880	4
436	Chemical kinetic model uncertainty minimization through laminar flame speed measurements. 2016, 172, 136-152	30
435	Chemical Kinetic Modeling of Methane Combustion. 2016, 148, 1130-1136	3
434	Detached Eddy Simulation of a high-Ma regenerative-cooled scramjet combustor based on skeletal kerosene mechanism. 2016,	9
433	Large Eddy Simulations of Transverse Combustion Instability in a Multi-element Injector. 2016,	3
432	Evaluation of reduced-order kinetic models for HTPB-oxygen combustion using LES. 2016, 58, 358-368	3
431	Autoignition of methyl butanoate under engine relevant conditions. 2016, 171, 1-14	22

430	Flame characteristics and NO emission in methane/air-air counterflow premixed flames with applying FIR and FGR. 2016 , 30, 3869-3876	1
429	Numerical Simulation of Multidimensional Modes of Gaseous Detonation. 2016 , 188, 2236-2249	
428	On Analogy of 2D and 3D Combustible Mixture Flows. 2016 , 188, 2250-2266	1
427	Triggering and Restabilization of Combustion Instability with Rocket Motor Acceleration. 2016 , 54, 1652-1659	4
426	Shock tube study on ignition delay of hydrogen and evaluation of various kinetic models. 2016 , 41, 13261-13280	9
425	Scale-adaptive simulation on the reactive turbulent flow in a partial combustion lance: Assessment of thermal insulators. 2016 , 105, 887-893	2
424	Numerical modeling of soot formation in a turbulent C ₂ H ₄ /air diffusion flame. 2016 , 8, 67-85	9
423	Numerical simulation of spinning detonation in circular section channels. 2016 , 56, 1102-1117	9
422	Plasma flow reactor studies of H ₂ /O ₂ /Ar kinetics. 2016 , 165, 144-153	19
421	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
420	A high pressure experimental and numerical study of methane ignition. 2016 , 177, 164-172	48
419	Turbulent burning rates of gasoline components, Part 2 [Effect of carbon number. 2016 , 167, 357-365	6
418	Additional chain-branching pathways in the low-temperature oxidation of branched alkanes. 2016 , 164, 386-396	72
417	Turbulent burning rates of gasoline components, Part 1 [Effect of fuel structure of C ₆ hydrocarbons. 2016 , 167, 347-356	13
416	Numerical investigation of syngas oxy-combustion inside a LSCF-6428 oxygen transport membrane reactor. 2016 , 96, 654-665	30
415	Reactions of Chemically Activated Formic Acid Formed via H ₂ O + ·H. 2016 , 120, 1819-24	9
414	Methods for the prediction of thermophysical properties of polyurethane raw material mixtures. 2016 , 424, 137-151	3
413	Oxy-fuel combustion of pulverized fuels: Combustion fundamentals and modeling. 2016 , 162, 742-762	226

412	Review on the production methods and fundamental combustion characteristics of furan derivatives. 2016 , 54, 1189-1211	67
411	Extension of the Eddy Dissipation Concept for turbulence/chemistry interactions to MILD combustion. 2016 , 163, 98-111	121
410	Optimized Reduced Chemistry and Molecular Transport for Large Eddy Simulation of Partially Premixed Combustion in a Gas Turbine. 2016 , 188, 21-39	17
409	Knocking prediction in internal combustion engines via thermodynamic modeling: preliminary results and comparison with experimental data. 2017 , 39, 321-327	6
408	Fuel pyrolysis in a microflow tube reactor Measurement and modeling uncertainties of ethane, n-butane, and n-dodecane pyrolysis. 2017 , 177, 10-23	18
407	Non-Adiabatic Tabulation Methods to predict Wall-Heat Loads in Rocket Combustion. 2017 ,	2
406	The Effects of Planar Symmetry and Radiative Heat Losses in a Three-Dimensional Transient CFD Simulation of Right Angle Flow Through a Brayton-Gluhareff Cycle Pressure Jet Engine. 2017 ,	0
405	A comparative study of elliptical and round scramjet combustors by Improved Delayed Detached Eddy Simulation. 2017 ,	3
404	Transition of oblique detonation wave in a two-phase hydrocarbon-air mixture. 2017 ,	
403	On the development of a polyolefin gasification modelling approach. 2017 , 197, 518-527	9
402	Combustion of a hydrogen jet normal to multiple pairs of opposing methane-air mixtures. 2017 , 231, 145-158	1
401	Optimal monolithic configuration for heat integrated ethanol steam reformer. 2017 , 42, 7770-7785	11
400	Computational fluid dynamics analysis of a synthesis gas turbulent combustion in a round jet burner. 2017 , 134, 133-140	9
399	Numerical and experimental investigation of improving combustion performance of variable geometry dual-mode combustor. 2017 , 64, 213-222	34
398	Effects of oxidant stream composition on non-premixed laminar flames with heated and diluted coflows. 2017 , 178, 297-310	13
397	Addition and abstraction kinetics of H atom with propylene and isobutylene between 200 and 2500 K: A DFT study. 2017 , 491, 82-94	1
396	Ignition features of methane and ethylene fuel-blends in hot and diluted coflows. 2017 , 203, 279-289	21
395	Calculation of the rate constants for concerted elimination reaction class of hydroperoxyl-alkyl-peroxyl radicals. 2017 , 136, 1	3

394	Thermal auto-ignition in high-speed droplet-laden mixing layers. 2017 , 191, 176-189	26
393	Effect of prompt dissociation of formyl radical on 1,3,5-trioxane and CH ₂ O laminar flame speeds with CO ₂ dilution at elevated pressure. 2017 , 183, 253-260	42
392	Modeling soot formation in diesel-biodiesel flames. 2017 , 206, 437-452	13
391	Numerical studies for performance improvement of a variable geometry dual mode combustor by optimizing deflection angle. 2017 , 68, 320-330	20
390	Hydrogen production, oxygen separation and syngas oxy-combustion inside a water splitting membrane reactor. 2017 , 113, 221-234	8
389	Influence of Chemical Mechanisms on Spray Combustion Characteristics of Turbulent Flow in a Wall Jet Can Combustor. 2017 , 31, 7523-7539	9
388	Quasi-Dimensional Diesel Engine Combustion Modeling With Improved Diesel Spray Tip Penetration, Ignition Delay, and Heat Release Submodels. 2017 , 139,	3
387	Flow field characteristics analysis and combustion modes classification for a strut/cavity dual-mode combustor. 2017 , 137, 44-51	35
386	Experimental and numerical investigation on hysteresis characteristics and formation mechanism for a variable geometry dual-mode combustor. 2017 , 67, 96-104	35
385	Computational study on the mechanism and kinetics for the reaction between HCHO and HO ₂ . 2017 , 43, 900-907	2
384	3D-DEM-CFD simulation of heat and mass transfer, gas combustion and calcination in an intermittent operating lime shaft kiln. 2017 , 117, 121-135	17
383	Experimental and numerical characterization of freely propagating ozone-activated dimethyl ether cool flames. 2017 , 176, 326-333	21
382	Photodissociation of the CHO and CHS radical molecules: an ab initio electronic structure study. 2017 , 19, 31245-31254	5
381	Downstream interaction between SNG/Air premixed flames. 2017 , 210, 545-556	3
380	Predicting Thermoacoustic Instability in an Industrial Gas Turbine Combustor: Combining a Low Order Network Model With Flame LES. 2017 ,	3
379	Experimental and Modeling Study of C ₁ to C ₃ Hydrocarbon Ignition in the Presence of Nitric Oxide. 2017 ,	1
378	Reaction Mechanisms. 2017 , 481-520	
377	Laminar Flames. 2017 , 521-547	

376	Violation of collision limit in recently published reaction models. 2017 , 186, 208-210	27
375	Evolution of flame kernel in one eddy turnover of high-speed droplet laden shear layers. 2017 , 49, 938-946	5
374	Ab Initio Computations and Active Thermochemical Tables Hand in Hand: Heats of Formation of Core Combustion Species. 2017 , 121, 6580-6602	96
373	Non-monotonic behaviors of laminar burning velocities of H ₂ /O ₂ /He mixtures at elevated pressures and temperatures. 2017 , 42, 22036-22045	13
372	Assessment of soot formation models in lifted ethylene/air turbulent diffusion flame. 2017 , 3, 49-61	10
371	Management of the gas-phase and surface chemistry in methane-fueled catalytic micro-combustors. 2017 , 42, 19079-19095	6
370	From theoretical reaction dynamics to chemical modeling of combustion. 2017 , 36, 77-111	127
369	Inference of reaction rate parameters based on summary statistics from experiments. 2017 , 36, 699-708	8
368	Challenges for Large Eddy Simulation of Engineering Flows. 2017 , 375-400	3
367	Ramifications of including non-equilibrium effects for HCO in flame chemistry. 2017 , 36, 525-532	26
366	Classification and lift-off height prediction of non-premixed MILD and autoignitive flames. 2017 , 36, 4297-4304	28
365	A generalized kinetic model with variable octane number for engine knock prediction. 2017 , 188, 489-499	13
364	A numerical investigation of hydrogen production in an integrated membrane reformer-combustor. 2017 , 142, 1077-1082	0
363	Experimental and Kinetic Modeling Study of Autoignition Characteristics of n-Heptane/Ethanol by Constant Volume Bomb and Detail Reaction Mechanism. 2017 , 31, 13610-13626	10
362	Gas-phase broadband spectroscopy using active sources: progress, status, and applications. 2017 , 34, 104-129	77
361	A Full-Cycle Multi-Zone Quasi-Dimensional Direct Injection Diesel Engine Model Based on a Conceptual Model Developed from Imaging Experiments. 2017 ,	1
360	Experimental Study of Autoignition Characteristics of the Ethanol Effect on Biodiesel/n-Heptane Blend in a Motored Engine and a Constant-Volume Combustion Chamber. 2018 , 32, 1884-1892	9
359	Critical kinetic uncertainties in modeling hydrogen/carbon monoxide, methane, methanol, formaldehyde, and ethylene combustion. 2018 , 195, 18-29	27

358	Multi-fuel surrogate chemical kinetic mechanisms for real world applications. 2018 , 20, 10588-10606		31
357	Soot Predictions in Higher Order Hydrocarbon Flames: Assessment of Semi-Empirical Models and Method of Moments. 2018 , 335-361		
356	Reynolds-Averaged, Scale-Adaptive and Large-Eddy Simulations of Premixed Bluff-Body Combustion Using the Eddy Dissipation Concept. 2018 , 100, 721-768		13
355	Impact of increasing methyl branches in aromatic hydrocarbons on diesel engine combustion and emissions. 2018 , 216, 579-588		22
354	Sooting characteristics of polyoxymethylene dimethyl ether blends with diesel in a diffusion flame. 2018 , 224, 499-506		38
353	Underground coal gasification [Part II: Fundamental phenomena and modeling. <i>Progress in Energy and Combustion Science</i> , 2018 , 67, 234-274	33.6	53
352	Optimized single-step (OSS) chemistry models for the simulation of turbulent premixed flame propagation. 2018 , 192, 130-148		8
351	Investigation into the Influence of the Ethanol Concentration on the Flame Structure and Soot Precursor Formation of the n-Heptane/Ethanol Premixed Laminar Flame. 2018 , 32, 4732-4746		7
350	Hydrogen production from oil sludge gasification/biomass mixtures and potential use in hydrotreatment processes. 2018 , 43, 7808-7822		27
349	Bifurcation analysis of methane oxidative coupling without catalyst. 2018 , 343, 770-788		16
348	Numerical analysis on interactions of vortex, shock wave, and exothermal reaction in a supersonic planar shear layer laden with droplets. 2018 , 30, 036101		29
347	The combustion mitigation of methane as a non-CO2 greenhouse gas. <i>Progress in Energy and Combustion Science</i> , 2018 , 66, 176-199	33.6	36
346	. 2018 , 23, 190-199		8
345	Chemical kinetic insights into the ignition dynamics of n-hexane. 2018 , 188, 28-40		32
344	Numerical investigation towards HiTAC conditions in laboratory-scale ethanol spray combustion. 2018 , 211, 375-389		8
343	Natural Gas Partially Stratified Lean Combustion: Analysis of the Enhancing Mechanisms into a Constant Volume Combustion Chamber. 2018 , 211, 737-753		12
342	Experimental and numerical study of the laminar burning velocity of CH ₄ /H ₂ /air premixed flames. 2018 , 187, 185-198		181
341	Knock onset, knock intensity, superknock and preignition in spark ignition engines. 2018 , 19, 7-20		45

340	Experimental and Modeling Study of C ₁ -C ₃ Hydrocarbon Ignition in the Presence of Nitric Oxide. 2018 , 140,	8
339	Detonation characteristics of stoichiometric H ₂ /O ₂ diluted with Ar/N ₂ in smooth and porous tubes. 2018 , 91, 345-353	27
338	Advances in understanding combustion phenomena using non-premixed and partially premixed counterflow flames: A review. 2018 , 10, 38-71	6
337	Mathematical modelling of in situ combustion and gasification. 2018 , 232, 56-73	7
336	Selective Non-catalytic Reduction (SNCR) of Nitrogen Oxide Emissions: A Perspective from Numerical Modeling. 2018 , 100, 301-340	31
335	The Optimization of a Residential Wood Log Stove Using the BOINC System. 2018 ,	
334	Ultraviolet photodissociation dynamics of 1-pentyl radical. 2018 , 31, 439-445	5
333	On Numerical Simulation of Flows in Scramjet Combustor Using OpenFOAM. 2018 ,	0
332	Evaluated Site-Specific Rate Constants for Reaction of Isobutane with H and CH: Shock Tube Experiments Combined with Bayesian Model Optimization. 2018 , 122, 9518-9541	9
331	Simulation of flow development in high-speed combustor in 2D and 3D formulations. 2018 ,	
330	Development of Skeletal Kerosene Mechanisms and Application to Supersonic Combustion. 2018 , 32, 12992-13003	7
329	Infrared spectra of the 1,1-dimethylallyl and 1,2-dimethylallyl radicals isolated in solid -hydrogen. 2018 , 149, 204304	6
328	Flame propagation involved in vortices of supersonic mixing layers laden with droplets: Effects of ambient pressure and spray equivalence ratio. 2018 , 30, 106107	13
327	Determination of global kinetic parameters by optimization procedure using burning velocity measurements. 2018 , 13, 50	1
326	Analytical correlation to model diluent concentration repercussions on the burning velocity of biogas lean flames: Effect of CO ₂ and N ₂ . 2018 , 119, 354-363	7
325	Automated chemical kinetic mechanism simplification with minimal user expertise. 2018 , 197, 439-448	13
324	Rotating Detonation Wave in an Annular Gap. 2018 , 300, 126-136	6
323	References. 2018 , 403-412	

322	A comprehensively validated compact mechanism for dimethyl ether oxidation: an experimental and computational study. 2018 , 196, 116-128	5
321	Global sensitivity analysis of n-butanol reaction kinetics using rate rules. 2018 , 196, 452-465	13
320	Structure and behavior of water-laden CH ₄ /air counterflow diffusion flames. 2018 , 196, 439-451	20
319	The effect of carbon dioxide on flame propagation speed of wood combustion in a fixed bed under oxy-fuel conditions. 2018 , 179, 285-295	8
318	Investigating Pre-Mixed Charge Compression Ignition Combustion in a High Compression Ratio Engine. 2018 ,	2
317	Influence of Chemical Mechanisms on Supersonic Combustion Characteristics Fueled by Kerosene. 2018 ,	1
316	Detailed Kinetic Mechanism for the Oxidation of Ammonia Including the Formation and Reduction of Nitrogen Oxides. 2018 , 32, 10202-10217	87
315	Numerical studies on supersonic spray combustion in high-temperature shear flows in a scramjet combustor. 2018 , 31, 1870-1879	9
314	C-C Bond Scission and the Yields of H and CH in the Decomposition of Isobutyl Radicals. 2018 , 122, 5418-5436	4
313	Detonation in a Three-Dimensional Elbowed Channel. 2018 , 63, 121-124	1
312	Feasibility of Power and Methanol Production by an Entrained-Flow Coal Gasification System. 2018 , 32, 7595-7610	23
311	Effect of Operational Parameters on Combustion and Emissions in an Industrial Gas Turbine Combustor. 2019 , 141,	14
310	Generalisation of the eddy-dissipation concept for jet flames with low turbulence and low Damköhler number. 2019 , 37, 4497-4505	33
309	Developing detailed chemical kinetic mechanisms for fuel combustion. 2019 , 37, 57-81	141
308	Experimental and computational investigation of the laminar burning velocity of hydrogen-enriched biogas. 2019 , 235, 810-821	31
307	Approaches to Combustion Simulation. 2019 , 3-40	
306	Governing Equations of Chemical Kinetics and Specific Features of Their Solution. 2019 , 41-94	
305	Software Tools for the Support of Calculation of Combustion and Reacting Flows. 2019 , 95-204	

304	Laminar Premixed Flames: Simulation of Combustion in the Flame Front. 2019 , 207-227	
303	Droplets and Particles: Evaporation in High-Temperature Flow and Combustion in Boundary Layers. 2019 , 228-261	
302	Models of Droplet Evaporation in Gas Flow. 2019 , 262-280	
301	Simulation of High-Temperature Heterogeneous Reacting Flows. 2019 , 283-309	
300	Simulation of Two-Phase Flows in Gas Generators of Liquid-Propellant Rocket Engines. 2019 , 310-333	
299	Pressurization of Liquid Propellant Rocket Engine Tanks. 2019 , 334-379	
298	Combustion and Ionization in Spark Ignition Engines. 2019 , 380-396	
297	References. 2019 , 397-417	
296	Index. 2019 , 418-422	
295	Preface. 2019 , xiii-xviii	
294	Challenges in charge preparation and combustion in homogeneous charge compression ignition engines with biodiesel: A review. 2019 , 5, 960-968	11
293	Influence of Different Core Mechanisms on Low-Temperature Combustion Characteristics of Large Hydrocarbon Fuels. 2019 , 33, 7835-7851	1
292	Accounting for uncertainty in RCCE species selection. 2019 , 208, 219-234	3
291	Numerical and Experimental Assessment of a Novel Multinozzle Burner with CO ₂ Diluent to Improve the Emissions from a Swirling Flame in a Combustion Chamber. 2019 , 33, 7869-7885	3
290	Use of a convenient thermodynamic model to study the effects of operating parameters on nitrogen oxides emissions for a liquefied methane fueled spark-ignition engine. 2019 , 257, 116001	7
289	Effects of pilot diesel injection strategies on combustion and emission characteristics of dual-fuel engines at part load conditions. 2019 , 258, 116153	15
288	A numerical investigation of the effect of natural gas substitution ratio (NGSR) on the in-cylinder chemical reaction and emissions formation process in natural gas (NG)-diesel dual fuel engine. 2019 , 105, 85-95	8
287	Numerical study of further NO _x emission reduction for coal MILD combustion by combining fuel-rich/lean technology. 2019 , 43, 8492	1

286	High-temperature oxidation of methyl isopropyl ketone: A shock tube experiment and a kinetic model. 2019 , 209, 376-388	7
285	A numerical study on NO _x formation behavior in a lean-premixed gas turbine combustor using CFD-CRN method. 2019 , 33, 5051-5060	4
284	Kerosene-fueled supersonic combustion modeling based on skeletal mechanisms. 2019 , 35, 1155-1177	9
283	Global exploration of potential energy surfaces for radical generation in the initial stage of benzene oxidation.. 2019 , 9, 16900-16908	0
282	Reduced Kinetic Models for Methane Flame Simulations. 2019 , 55, 132-147	3
281	Detailed kinetics of fossil and renewable fuel combustion. 2019 , 363-443	7
280	Addressing the complexity of combustion kinetics: Data management and automatic model validation. 2019 , 45, 763-798	5
279	On the Numerical Simulation of Combustion in a Scramjet Combustor Using OpenFOAM. 2019 , 11, 266-276	0
278	Discerning complex reaction networks using automated generators. 2019 , 65, e16663	19
277	Experimental and numerical study of biomass fast pyrolysis oil spray combustion: Advanced laser diagnostics and emission spectrometry. 2019 , 252, 125-134	9
276	Experimental investigation on effects of CO ₂ additions on spontaneous ignition of high-pressure hydrogen during its sudden release into a tube. 2019 , 44, 7041-7048	15
275	Optimal design of washcoated monolith catalyst for compact, heat-integrated ethanol reformers. 2019 , 44, 11472-11487	7
274	Theoretical Study on Reactions of Alkylperoxy Radicals. 2019 , 123, 3949-3958	5
273	Initial Mechanism and Kinetics of Diesel Incomplete Combustion: ReaxFF Molecular Dynamics Based on a Multicomponent Fuel Model. 2019 , 123, 8512-8521	10
272	Exploring hydroperoxides in combustion: History, recent advances and perspectives. <i>Progress in Energy and Combustion Science</i> , 2019 , 73, 132-181	33.6 65
271	Reaction energy benchmarks of hydrocarbon combustion by Gaussian basis and plane wave basis approaches. 2019 , 40, 1866-1873	1
270	An extended hybrid chemistry framework for complex hydrocarbon fuels. 2019 , 251, 276-284	14
269	Numerical investigation of flame appearance and heat flux and in a deep-throttling variable thrust rocket engine. 2019 , 88, 457-467	13

268	Extracting the mechanisms and kinetic models of complex reactions from atomistic simulation data. 2019 , 40, 1586-1592	11
267	Flameholding characteristics of ethylene-fueled model scramjet in shock tunnel. 2019 , 161, 446-464	6
266	Laminar flow reactor experiments for ignition delay time and species measurements at low temperatures: Linear alkanes and dimethyl ether. 2019 , 202, 347-361	7
265	Combustible Gas Cylinder Detonation upon Incident Shock Focusing. 2019 , 45, 1209-1211	1
264	The optimization of in-situ tar reduction and syngas production on a 60-kW three-staged biomass gasification system: theoretical and practical approach. 2019 , 11, 1835	4
263	Chemical, thermal and dilution effects of carbon dioxide in oxy-fuel combustion of wood in a fixed bed. 2019 , 33, 6063-6073	1
262	Coal and biomass cofiring. 2019 , 89-116	1
261	The effect of air/fuel ratio on the CO and NO _x emissions for a twin-spark motorcycle gasoline engine under wide range of operating conditions. 2019 , 169, 1202-1213	49
260	Syngas production from oil sludge gasification and its potential use in power generation systems: An energy and exergy analysis. 2019 , 169, 1175-1190	27
259	Experimental and modeling study of the pyrolysis and oxidation of an iso-paraffinic alcohol-to-jet fuel. 2019 , 201, 57-64	18
258	H ₂ /Air Autoignition Dynamics around the Third Explosion Limit. 2019 , 145, 04018074	13
257	Simplification and applicability studies of a hydrogen-air detailed reaction mechanism. 2019 , 44, 5538-5542	8
256	The Ultra-Lean Partially Stratified Charge Approach to Reducing Emissions in Natural Gas Spark-Ignited Engines. 2019 , 29-63	
255	The potential impact of unsaturation degree of the biodiesels obtained from beverage and food processing biomass streams on the performance, combustion and emission characteristics in a single-cylinder CI engine. 2019 , 26, 5008-5019	4
254	Modeling of Transverse Combustion Instability. 2019 ,	4
253	Performance analysis of a membrane-based reformer-combustor reactor for hydrogen generation. 2019 , 43, 189-203	9
252	Numerical study of chemical kinetics and radiation heat transfer characteristics on the temperature distribution in the oxy-fuel combustion. 2019 , 55, 2025-2036	7
251	Demonstration of non-absorbing interference rejection using wavelength modulation spectroscopy in high-pressure shock tubes. 2019 , 125, 1	12

250	Stochastic Numerical Simulation of a Turbulent Inverse Diffusion Flame Generated by a CAP-type Burner. 2020 , 192, 657-679	
249	Combustion performance of hydrogen-enriched fuels in a premixed burner. 2020 , 41, 2-13	7
248	Review of propane-air chemical kinetic mechanisms for a unique jet propulsion application. 2020 , 93, 857-877	3
247	Polymers in the Nuclear Power Industry. 2020 , 545-580	1
246	Process modelling of two-stage entrained-bed gasification composed of rapid pyrolysis and gasification processes. 2020 , 262, 116531	10
245	Confined spherically expanding flame method for measuring laminar flame speeds: Revisiting the assumptions and application to C1C4 hydrocarbon flames. 2020 , 212, 79-92	20
244	Comprehensive kinetic study of combustion technologies for low environmental impact: MILD and OXY-fuel combustion of methane. 2020 , 212, 142-155	55
243	Investigating the impacts of thermochemical group additivity values on kinetic model predictions through sensitivity and uncertainty analyses. 2020 , 213, 394-408	13
242	The influence of particle packing density on wood combustion in a fixed bed under oxy-fuel conditions. 2020 , 194, 116863	1
241	Sensitivity analysis of homogeneous reactions for thermochemical conversion of biomass in a downdraft gasifier. 2020 , 151, 332-341	12
240	Analytical Procedure for Proximate Analysis of Algal Biomass: Case Study for Spirulina platensis and Chlorella vulgaris. 2020 , 34, 474-482	12
239	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
238	Improvements on performance and emissions of a heavy duty diesel engine by throttling degree optimization: A steady-state and transient experimental study. 2020 , 157, 108132	7
237	The experimental study on transient emissions and engine behaviors of a sporting motorcycle under World Motorcycle Test Cycle. 2020 , 211, 118670	6
236	Numerical investigation of the local and global supersonic combustion characteristics of ethylene fuel. 2020 , 106, 106178	6
235	Experimental and kinetic study of laminar flame characteristics of H ₂ /O ₂ /diluent flame under elevated pressure. 2020 , 45, 32508-32520	5
234	Experimental and Kinetic Modeling Study of Laminar Flame Speed of Dimethoxymethane and Ammonia Blends. 2020 , 34, 14726-14740	19
233	Multichannel dynamics in the OH+ n-butane reaction revealed by crossed-beam slice imaging and quasiclassical trajectory calculations. 2020 , 153, 014302	1

232	Transient combustion of a multi-component fuel droplet with gas radiation. 2020 , 117, 104729	1
231	Reduced Kinetic Schemes for Complex Reacting Flow Computations of Propane/Air Combustion. 2020 , 56, 23-35	3
230	Simulation of the ignition mechanisms of low and high octane number blended fuels in HCCI engine. 2020 , 788, 012058	
229	Hydrogenation of pyrrole: Infrared spectra of the 2,3-dihydropyrrol-2-yl and 2,3-dihydropyrrol-3-yl radicals isolated in solid para-hydrogen. 2020 , 153, 164302	2
228	Computational study of the effect of cavity geometry on the supersonic mixing and combustion of ethylene. 2020 , 47, 101243	1
227	Numerical study on the auto-ignition characteristics of methane oxy-fuel combustion highly diluted by CO ₂ . 2020 , 114, 176-185	3
226	Combustion Processes in Engines. 2020 , 273-315	
225	Visualization of Autoignition Kernels in a Jet-A Spray Using High-Speed OH PLIF. 2020 ,	
224	Structures of Ethanol Spray Flames under CO ₂ Dilution of the Oxidizer in the Counterflow Configuration under MILD Combustion Conditions. 2020 , 5, 194	1
223	Development and validation of a reduced chemical kinetic model for used vegetable oil biodiesel/1-Hexanol blend for engine application. 2020 , 273, 117780	13
222	Theoretical Study of Radical-Molecule Reactions with Negative Activation Energies in Combustion: Hydroxyl Radical Addition to Alkenes. 2020 , 5, 12777-12788	2
221	Kinetic Modeling Study of the Industrial Sulfur Recovery Process for Operating Condition Optimization. 2020 , 2020, 1-12	
220	Reaction kinetics of hydrogen shift isomerization of 1-hexyl radicals. 2020 , 278, 118221	0
219	Accurate Global Potential Energy Surfaces for the H + CHOH Reaction by Neural Network Fitting with Permutation Invariance. 2020 , 124, 5737-5745	23
218	Comprehensive Comparison of the Combustion Behavior for Low-Temperature Combustion of n-Nonane. 2020 , 5, 4924-4936	6
217	Ultraviolet photodissociation dynamics of the n-butyl, s-butyl, and t-butyl radicals. 2020 , 152, 244303	2
216	Estimation of NO _x and soot emission from a constant volume n-butanol/n-dodecane blended spray using unsteady flamelet model based on n-dodecane/n-butanol/NO _x /PAH chemistry. 2020 , 93, 1868-1882	5
215	Pyrolysis of Alkanes: A Computational Approach. 2020 , 124, 5700-5708	1

214	Numerical Investigations of a Fluidized Bed Biomass Gasifier Coupling Detailed Tar Generation and Conversion Kinetics with Particle-Scale Hydrodynamics. 2020 , 34, 8440-8451	6
213	A chemical kinetic investigation of laminar premixed burning characteristics for methane-hydrogen-air mixtures at elevated pressures. 2020 , 111, 141-154	3
212	Laminar burning velocity and pollutant emissions of the gasoline components and its surrogate fuels: A review. 2020 , 269, 117451	42
211	Chemical kinetic mechanism for diesel/biodiesel/ethanol surrogates using n-decane/methyl-decanoate/ethanol blends. 2020 , 42, 1	6
210	An extensive study on skeletal mechanism reduction for the oxidation of C ₁₀ H ₈ fuels. 2020 , 214, 184-198	5
209	A review of recent studies of the CFD modelling of coal gasification in entrained flow gasifiers, covering devolatilization, gas-phase reactions, surface reactions, models and kinetics. 2020 , 271, 117620	34
208	Phenomenological soot modeling with solution mapping optimization of biodiesel-diesel blends in diesel engines. 2020 , 18, 100544	2
207	Effect of hydrogen blending on the high temperature auto-ignition of ammonia at elevated pressure. 2021 , 287, 119563	28
206	Kinetics of isopropanol decomposition and reaction with H atoms from shock tube experiments and rate constant optimization using the method of uncertainty minimization using polynomial chaos expansions (MUM-PCE). 2021 , 53, 95-126	1
205	Interpreting the effect of hydrogen addition on the auto-ignition of branched alkane: A case study of iso-butane/hydrogen/O ₂ /Ar mixtures. 2021 , 284, 119019	1
204	Effects of equivalence ratio and blending ratio on the ignition delays of n-pentane/hydrogen mixtures under engine relevant pressure. 2021 , 288, 119669	3
203	Thermoacoustic instability analysis of a laminar lean premixed flame under autoignitive conditions. 2021 , 225, 513-523	4
202	Improvement of H ₂ /O ₂ chemical kinetic mechanism for high pressure combustion. 2021 , 46, 5799-5811	2
201	Mixing and combustion in a laminar shear layer with imposed counterflow. 2021 , 908,	2
200	Shock-tube spectroscopic water measurements and detailed kinetics modeling of 1-pentene and 3-methyl-1-butene. 2021 , 53, 67-83	3
199	Combustion with Multiple Flames under High Strain Rates. 2021 , 193, 1173-1202	5
198	Higher Alcohol and Ether Biofuels for Compression-Ignition Engine Application: A Review with Emphasis on Combustion Kinetics. 2021 , 35, 1890-1917	23
197	Rotating detonation waves in annular gap with variable stagnation pressure. 1	0

196	Numerical Investigation of the Impact of H ₂ Enrichment on Lean Biogas/Air Flames: An Analytical Modelling Approach. 2021 , 14, 369	3
195	NO _x reduction in calciner using air staging and raw meal split technology. 2021 , 45, 3091-3096	
194	Numerical Study on the Route of Flame-Induced Thermoacoustic Instability in a Rijke Burner. 2021 , 11, 1590	1
193	Nonpremixed MILD combustion in a laboratory-scale cylindrical furnace: Occurrence and identification. 2021 , 216, 119295	3
192	Novel Method for Quantitative Assessment of Reduced Chemical Mechanisms Based on the Inherent Similarity Evaluation: Case Study of n-Heptane. 2021 , 35, 4478-4492	1
191	On droplets that cluster and evaporate in reactive turbulence. 2021 , 33, 033322	1
190	NH ₃ vs. CH ₄ autoignition: A comparison of chemical dynamics. 1-22	5
189	(Non)Equilibrium of OH and Differential Transport in MILD Combustion: Measured and Computed OH Fractions in a Laminar Methane/Nitrogen Jet in Hot Coflow. 2021 , 35, 6798-6806	2
188	Numerical Investigation of the Pressure Effect on the NO _x Formation in a Lean-Premixed Gas Turbine Combustor. 2021 , 35, 6776-6784	0
187	Energy, Exergy and Exergo-Economic Characteristics of Hydrogen Enriched Hydrocarbon-Based Fuels in a Premixed Burner. 2021 , 43, 3119-3136	2
186	Gasification of Low-Grade SRF in Air-Blown Fluidized Bed: Permanent and Inorganic Gases Characterization. 2021 , 12, 6231	1
185	A Review of the Numerical Modeling of Pulverized Coal Combustion for High-Efficiency, Low-Emissions (HELE) Power Generation. 2021 , 35, 7434-7466	3
184	Combined effects of yaw and tilt angles of separated overfire air on the combustion characteristics in a 1,000 MW coal-fired boiler: A numerical study. 2021 , 38, 771-787	2
183	The Utilisation of Reduced Kinetics by Local Self-Similarity Tabulation Approach in 3D Turbulent Reactive Flow Simulation with LES and TPDF. 1	
182	Oxidation of an iso-paraffinic alcohol-to-jet fuel and n-heptane mixture: An experimental and modeling study. 2021 , 53, 1014-1035	2
181	Dissociative Photodetachment Dynamics of the OH(CH) Anion Complex. 2021 , 125, 4540-4547	1
180	Optimized single-step (OSS) chemistry for auto-ignition of heterogeneous mixtures. 2021 , 227, 11-26	2
179	Evaluation of Chemical Kinetic Mechanisms for Methane Combustion: A Review from a CFD Perspective. 2021 , 2, 210-240	3

178	A coupled CFD simulation approach for investigating the pyrolysis process in industrial naphtha thermal cracking furnaces. 2021 ,		4
177	Simulation of biomass gasification in bubbling fluidized bed reactor using aspen plus. 2021 , 235, 113981		18
176	The chemistry of chemical recycling of solid plastic waste via pyrolysis and gasification: State-of-the-art, challenges, and future directions. <i>Progress in Energy and Combustion Science</i> , 2021 , 84, 100901	33.6	78
175	Analyse der Partikelbildung aus der Elektrospray-Flammensprühpyrolyse mittels Scanning Mobility Particle Sizer. 2021 , 93, 1307-1315		
174	Experimental Investigation of Cool Flame Behavior of Isolated n-Decane/Ethanol Droplet under Microgravity. 2021 , 33, 1		0
173	Development of Natural Gas Chemical Kinetic Mechanisms and Application in Engines: A Review. 2021 , 6, 23643-23653		0
172	CFD modeling of pyrolysis oil combustion using finite rate chemistry. 2021 , 299, 120856		2
171	Influence of Residence Time on Syngas Composition in CaO Enhanced Air/Steam Gasification of Biomass. 1		1
170	Influence of functional groups on low-temperature combustion chemistry of biofuels. <i>Progress in Energy and Combustion Science</i> , 2021 , 86, 100925	33.6	14
169	Key Chemical Kinetic Steps in Reaction Mechanisms for Fuels from Biomass: A Perspective.		3
168	Effects of heat release on turbulence characteristics in a three-dimensional spatially developing supersonic droplet-laden mixing layer. 2021 , 301, 121030		1
167	Effects of a baffle and H ₂ injection on methane combustion in a turbulent fluidized bed. 2022 , 307, 121883		0
166	Investigation and Improvement of Reaction Mechanisms Using Sensitivity Analysis and Optimization. 2013 , 411-445		8
165	Pressure Effects on the Kinetics of High Speed Chemically Reacting Flows. 1992 , 309-338		9
164	Development of Chemical Reaction Models. 1991 , 197-221		2
163	Internal Combustion Engines, Developments in. 2020 , 133-184		1
162	Control of Mixing and Reactive Flow Processes. 2006 , 75-94		2
161	Discrepancies between shock tube and rapid compression machine ignition at low temperatures and high pressures. 2009 , 739-744		17

160	Chemical Kinetic Modelling of Hydrocarbon Ignition. 1996 , 279-290	1
159	Modeling of Large Reaction Systems. 1987 , 2-16	10
158	The Interpretation of Oscillatory Ignition During Hydrogen Oxidation in an Open System. 1987 , 150-159	2
157	Kinetic Modeling of Autoignition of Higher Hydrocarbons: n-Heptane, n-Octane, and iso-Octane. 1987 , 39-54	8
156	Formation of Aromatic Hydrocarbons in Decane and Kerosene Flames at Reduced Pressure. 1994 , 50-65	20
155	Schadstoffbildung. 2011 , 259-286	1
154	Solution of Two-Dimensional Axisymmetric Laminar Diffusion Flames by Adaptive Boundary Value Methods. 1988 , 261-300	6
153	Some Generic Problems Related to Combustion of Hydrogen and Air in Supersonic Flows. 1997 , 15-42	6
152	The Direct Conversion of Methane to Methanol (DMTM). 1992 , 403-425	13
151	Explosive and General Oxidative Characteristics of Fuels. 1987 , 51-106	1
150	Production of electricity and chemicals using gasification of municipal solid wastes. 2020 , 3-39	5
149	Chemical Kinetics in Combustion and Reactive Flows: Modeling Tools and Applications. 2019 ,	4
148	A Three-step Global Kinetic Mechanism for Predicting Extinction Strain Rate of Syngas-air Nonpremixed Flames. 1-24	3
147	A kinetic study of an advanced reburning process. 1997 , 1, 377-393	9
146	UTILIZATION OF BASIC MULTI-LAYER PERCEPTRON ARTIFICIAL NEURAL NETWORKS TO RESOLVE TURBULENT FINE STRUCTURE CHEMICAL KINETICS APPLIED TO A CFD MODEL OF A METHANE/AIR PILOTED JET FLAME. 1828-1846	7
145	Multicomponent spray computations in a modified centerbody combustor. 1988 ,	1
144	Investigation of low NOx staged combustor concept in high-speed civil transport engines. 1989 ,	6
143	Numerical simulations of the superdetonative ram accelerator combusting flow field. 1993 ,	4

- 142 Study of structure and emissions of partially-premixed methane flames in laminar counterflow. **1996**, 2
- 141 Numerical Research of the Modification of the Combustion System in the OP 650 Boiler. **2020**, 13, 725 3
- 140 NO Formation and Autoignition Dynamics during Combustion of H₂O-Diluted NH₃/H₂O₂ Mixtures with Air. **2021**, 14, 84 11
- 139 Oxy-Fuel and Flue Gas Recirculation Combustion Technology: A Review. **2008**, 32, 729-753 2
- 138 Numerical Simulation of Partial Combustion for Biomass Tar Elimination in Two-Stage Gasifier. **2013**, 03, 86-92 3
- 137 Numerical Research on Combustion Processes and Deposit Formation on the Deposition Probe in the Pulverized Drop Chamber.
- 136 Consideration of the interactions between the reaction zones in the new extended Eddy dissipation concept model. **2021**, 233, 105203
- 135 Spray Characteristics for Specified Regions of High Pressure Swirl Injcector in Gasoline Direct Injection Engine. **2003**, 27, 9-16 1
- 134 Prediction of Combustion Characteristics in a 3D Model Combustor with Swirling Flow. **2003**, 27, 95-104
- 133 Study on Vaporization and Combustion of Spray in High Pressure Environment. **2003**, 27, 1273-1281
- 132 A Study on Effects of Hydrogen Addition in Methane-Air Diffusion Flame. **2007**, 31, 384-391
- 131 A Study on Chemical Effecta Through Preferential Diffusion of H₂and H in CH₄-H₂Counterflow Diffusion Flames. **2007**, 31, 1009-1016 0
- 130 A Study on Oxy-Fuel Combustion System with Multi-Jet Burner-Numerical Simulation with PDF Combustion Model. **2008**, 32, 504-512 1
- 129 Schadstoffbildung. **2009**, 189-219 2
- 128 Chemical Kinetics. **2011**, 49-73
- 127 Detonation Initiation by Moving Borders. **2012**, 391-396
- 126 Detonation in Supersonic Flows in Channels with Obstacles. **2012**, 397-402
- 125 Schadstoffbildung. **2012**, 259-286

- 124 Numerical Simulations of a Large Scale Oxy-Coal Burner. **2013**, 971-974
- 123 Effect of Combustion Characteristics on Wall Radiative Heat Flux in a 100 MWe Oxy-Coal Combustion Plant. **2013**, 1275-1282
- 122 Developments in Internal Combustion Engines. **2013**, 149-219
- 121 Experimental studies on crystallographic preferred orientation of olivine: A review. **2013**, 42, 51-67 2
- 120 The Study on Synthesis Gas Characteristics Following Different Injection Condition of Oxidizing Agent Through Simulation of Underground Coal Gasification. **2013**, 17, 28-36
- 119 Effects of CO₂ Addition in Downstream Interaction between . **2013**, 18, 29-36
- 118 Schadstoffbildung und -reduktion. **2014**, 471-523
- 117 Chemical Kinetics. **1987**, 31-50 1
- 116 Flame Phenomena in Premixed Combustible Gases. **1987**, 107-196
- 115 Study of Methane Ignition in Reflected Shock Waves. **1988**, 28-36
- 114 An Algorithm for Allocation and Temperature, and Its Consequences for the Chemistry of H₂-O₂ Combustion. **1988**, 561-567
- 113 Role of flame generated flow in the formation of tulip flame. **1989**, 1
- 112 Combustion in Gasoline Engines. **1990**, 287-331 2
- 111 Analysis of the Structure of Counterflow Hydrogen-Air Diffusion Flames. **1991**, 89-110
- 110 Mechanisms and modeling of the effects of additives on the nitrogen oxides emission. **1991**,
- 109 Spray Combustion in Idealized Configurations: Parallel Drop Streams. **1991**, 585-613 2
- 108 Kinetic Models to Predict and Control Minor Constituents in Process Reactions. **1992**, 45-64
- 107 Modern Diagnostic Techniques for Combusting Flows: An Overview. **1992**, 1-45

- 106 Ignition Delay of Premixed Gases under Microgravity Conditions. **1992**, 355-362
- 105 Kinetics. **1993**, 137-160
- 104 Flame propagation in metal slurry sprays. **1993**,
- 103 Recent Developments in Theoretical Studies of Combustion. **1994**, 97, 188-191
- 102 Recent Advances in the Measurement of High-Temperature Bimolecular Rate Constants. **1996**, 177-189
- 101 Analysis of ram projectile acceleration and unstart using oblique detonation theory. **1996**,
- 100 Control of mixing and reactive flow processes. **1999**,
- 99 A Study on Flame Structure and NO Emission in FIR- and FGR-applied Methane-air Counterflow Diffusion Flames. **2016**, 21, 38-45
- 98 Galloping Detonation in a Fuel Mixture Jet. **2017**, 453-456
- 97 Cellular and Spin Detonation in 3D Channels. **2017**, 447-452 1
- 96 Introduction. **2018**, 1-26
- 95 Encyclopedia of Sustainability Science and Technology. **2018**, 1-53
- 94 Schadstoffbildung. **2018**, 941-975
- 93 Fluid Mechanics. **2019**, 1-8
- 92 Schadstoffbildung. **2019**, 943-977 0
- 91 A Two-Step Combustion Model of Iso-Octane for 3D CFD Combustion Simulation in SI Engines.
- 90 Diffusion-controlled premixed flames. **2021**, 25, 1019-1038 0
- 89 Reduced Reaction Mechanisms for Ethanol under Ultra-lean Conditions in Internal Combustion Engines. **2021**, 6, 206-216 1

88	Numerical optimization of separated overfire air distribution for air staged combustion in a 1000 MW coal-fired boiler considering the corrosion hazard to water walls. 2022 , 309, 122022	4
87	One zirconia-based ceramic coating strategy of combustion stabilization for fuel-rich flames in a small-scale burner. 2022 , 310, 122306	1
86	The effect of radial diffusion on nanoparticle formation in laminar flow reactors. 2022 , 236, 111757	1
85	Encyclopedia of Wildfires and Wildland-Urban Interface (WUI) Fires. 2020 , 483-490	
84	Simple Program for Step-by-Step Time Integration in Chemical Kinetics, Applied to Simple Model for Hydrogen Combustion. 2020 , 10, 99-116	
83	Syngas Production, Storage, Compression and Use in Gas Turbines. 2020 , 323-371	
82	Analytical Capabilities of FGM and EDM Combustion Models in Partially Premixed Burners for HVAC Applications. 2021 , 68, 856-864	0
81	Reaktionsmechanismen. 2006 , 151-197	
80	Zündprozesse. 2006 , 217-275	
79	2020 2020 , 310, 199-216	1
78	Investigation of Rotating Detonation Waves in an Annular Gap. 2020 , 310, 185-201	
77	Self-Accelerating Reactions. 2021 , 33-60	
76	Dissection of the Multichannel Reaction O(P) + CH: Differential Cross-Sections and Product Energy Distributions.. 2022 , 27,	0
75	H ₂ + H ₂ : High level theory and the role of singlet channels. 2022 , 111975	2
74	Numerical investigation of laminar burning velocity for methane-hydrogen-air mixtures at wider boundary conditions. 2022 , 121, 107393	0
73	Numerical research on combustion processes and deposit formation on the deposition probe in the pulverized drop chamber. 2022 , 187, 1-13	
72	Combustion chemistry of alkenes and alkadienes. <i>Progress in Energy and Combustion Science</i> , 2022 , 90, 100983	33.6 1
71	The characteristics of flame propagation in hydrogen/oxygen mixtures. 2022 , 47, 10069-10069	0

- 70 Multiheaded Rotating Detonation in an Annular Gap. **2022**, 67, 23-26
- 69 Analysis on Fire-Retardant Performance of non-Class 1E Cables Depending on the Ambient Temperature Condition Surrounding the Facilities for Flame Test of Cables. 1-13
- 68 Premixed flame heat release-based optimum global single-step chemistry for H₂, CH₄, and C₃H₈ mixtures with air. **2022**, 44, 1 0
- 67 Three-Dimensional CFD Model Development and Validation for Once-Through Steam Generator (OTSG): Coupling Combustion, Heat Transfer and Steam Generation. **2022**, 6, 23 1
- 66 Modeling of Wood Surface Ignition by Wildland Firebrands. **2022**, 5, 38 1
- 65 Three-stage modelling and parametric analysis of a downdraft biomass gasifier. **2022**, 1 1
- 64 Design and Qualification of a Bench-Scale Model for Municipal Waste-to-Energy Combustion.. **2022**, 1 1
- 63 Pyrolysis and combustion characterisation of HDPE/APP composites via molecular dynamics and CFD simulations. **2022**, 163, 105499 1
- 62 Ammonia/Methane combustion: Stability and NO_x emissions. **2022**, 241, 112071 2
- 61 Experimental and numerical study of flame structure and emissions in a micro gas turbine combustor. **2020**, 1 1
- 60 Prediction model of temperature field in dual-mode combustors based on wall pressure. **2022**, 196, 73-84 0
- 59 Combustion Simulation of 82-Injector Rocket Engine. 1-13
- 58 Numerical Research of Flue Gas Denitrification Using the SNCR Method in an OP 650 Boiler. **2022**, 15, 3427
- 57 Three-stage model-based evaluation of a downdraft biomass gasifier. **2022**, 1 0
- 56 Modelling and simulation of downdraft biomass gasifier: Issues and challenges. **2022**, 162, 106483 0
- 55 Effects of inhalation frequency on inhalation/exposure dose of hazardous nanoparticles and toxic gases during cigarette smoking. **2022**, 240, 113709
- 54 Fundamentals. **2022**, 11-30
- 53 Effects of fluctuations in concentration on detonation propagation. 0

- 52 An Oniom-Based Thermochemistry Study of Hydrogen Abstraction Reactions of N-Cnh_{2n+2}' + R (N = 1-16, R = H, Oh, Ho₂).
- 51 Ethanol as a renewable biofuel: Combustion characteristics and application in engines. **2022**, 124688 1
- 50 Transient CFD simulations of a biomass plancha-type cookstove using free software. **2022**, 44,
- 49 Methane Laminar Flame Speed Measurement at High Gas Temperature Using Rapid Compression Machine-Flame (RCM-Flame). 1
- 48 Stretched vortex layer flamelet. **2022**, 244, 112276 0
- 47 Simulation Study on the Performance and Emission Parameters of a Marine Diesel Engine. **2022**, 10, 985
- 46 Three-dimensional, rotational flamelet closure model with two-way coupling. **2022**, 945, 0
- 45 Inward swirling flamelet model. 1-27 0
- 44 Optimized two-step (OTS) chemistry model for the description of partially premixed combustion. **2022**, 245, 112287
- 43 Effects of Primary Air Ratio on Combustion Characteristics of a 1050 Mw Double-Tangential Circular Coal-Fired Boiler Under Ultra-Low Load.
- 42 Numerical Simulation on Critical Initiation Conditions of Air-Breathing Pulse Detonation Combustor. **2022**,
- 41 Simultaneous visualization of instantaneous unburnt and preheating zones in turbulent premixed flames under transverse acoustic excitations. 1
- 40 Sensitivity Analysis of Pollutants and Pattern Factor in a Gas Turbine Model Combustor due to Changes in Stabilizing Jets Characteristics. 0
- 39 Prediction of detonation initiation in an air-breathing pulse detonation combustor utilizing a simplified ethylene-air reaction mechanism. **2022**, 129, 107821 0
- 38 Further insights into the core mechanism of H₂/CO/NO_x reaction system. **2022**, 245, 112308
- 37 The dimensional design of a laboratory-scale fluidized bed gasifier using machine learning based on a kinetic method. **2022**, 269, 116183 0
- 36 The burning and pollutant formation processes during cigarette smoking under various inhalation frequency. **2022**, 717, 179348 0
- 35 Optimization of a gas turbine model combustor due to variations in geometrical characteristics of stabilizing air jets. **2022**, 217, 119206 0

34	Impact of PODE3 on soot oxidation reactivity at different stages in n-heptane/toluene diffusion flames. 2023 , 331, 125672	0
33	Chemical kinetics of flameless combustion. 2022 , 377-420	0
32	Theoretical study on the mechanism and kinetics of the oxidation of allyl radical with atomic and molecular oxygen. 2022 , 112388	1
31	A Critical Analysis of the Oxy-Combustion Process: From Mathematical Models to Combustion Product Analysis. 2022 , 15, 6514	0
30	Analysis of NO Formation and Entropy Generation in a Reactive Flow. 2022 , 9, 666	0
29	Analysis of discrepancies between 3-D coupled and uncoupled schemes based on CFD in full engine simulation. 2022 , 107978	0
28	Coke deposition and run length in industrial naphtha thermal cracking furnaces via a quasi-steady state coupled CFD model.	0
27	The Diverse Modes of Oxygen Reactivities in Life and Chemistry.	1
26	Gas Dynamic Air Distribution for Post-Reaction Gas Afterburning in a Metallurgical Furnace. 2022 , 369, 03001	0
25	Experimental and chemical kinetic study on the flame propagation characteristics of ammonia/hydrogen/air mixtures. 2023 , 334, 126509	0
24	Formation of Multiheaded Rotating Detonation. 2022 , 58, 577-584	0
23	Reacting and Non-reacting, Three-dimensional Shear Layers with Spanwise Stretching.	0
22	Effects of oxygen concentration on devolatilization and combustion behavior of coal particles: A multi-parameter study. 2023 , 248, 112557	0
21	Numerical study on the effects of primary air ratio on ultra-low-load combustion characteristics of a 1050 MW coal-fired boiler considering high-temperature corrosion. 2023 , 221, 119811	1
20	A Mathematical Model of Industrial Waste-Derived Fuel Droplet Combustion in High-Temperature Air. 2022 , 12, 12273	0
19	A Numerical Study of Turbulent Combustion of a Lignocellulosic Gas Mixture in an Updraft Fixed Bed Reactor. 2022 , 14, 16587	0
18	Simulation of biomass to syngas: Pyrolysis and gasification processes. 2023 , 159-196	0
17	Impacts of Condensed Carbon in Detonation of Selected Gaseous Hydrocarbon/Oxygen Mixtures. 2023 ,	0

- 16 Parametric non-intrusive reduced-order models via operator inference for large-scale rotating detonation engine simulations. **2023**,
- 15 A review on biomass ignition: Fundamental characteristics, measurements, and predictions. **2023**, 340, 127526
- 14 The critical role of swirl in high-specific-output diesel engines. **2023**, 341, 127636
- 13 Soot research: Relevance and priorities by mid-century. **2023**, 27-61
- 12 Investigation on the reaction mechanism of methane combustion near flammability limits at elevated pressures and temperatures. **2023**, 269, 126786
- 11 Simulation of the Impact of Firebrands on the Process of the Wood Layer Ignition. **2023**, 6, 148
- 10 Revisit flame chemistry of propene at elevated pressures: Insight into pressure effects on chemical structure and laminar flame propagation. **2023**, 251, 112725
- 9 A molecular investigation on the effects of OMEX addition on soot inception of diesel pyrolysis. **2023**, 346, 128357
- 8 Effects of alumina nanoparticles on evaporation and combustion characteristics of diesel fuel droplets. **2023**, 143, 104713
- 7 Modelling of acetaldehyde and acetic acid combustion. 1-22
- 6 Flammability Limits: A Comprehensive Review of Theory, Experiments, and Estimation Methods. **2023**, 37, 4151-4197
- 5 Sustainable bio-oxygenate fuels. **2023**, 91-115
- 4 Developing a Turbulence-Inspired Zonal Combustion Modeling Approach, Implementing the CRNs in Turbulent Diffusion Flames.
- 3 Combustion, Chemistry, and Carbon Neutrality.
- 2 Large Eddy Simulation of Combustion Systems. **2023**,
- 1 Characteristics of ethylene and methane combustion in a range of high temperature and low oxygen environments. **2023**, 110929