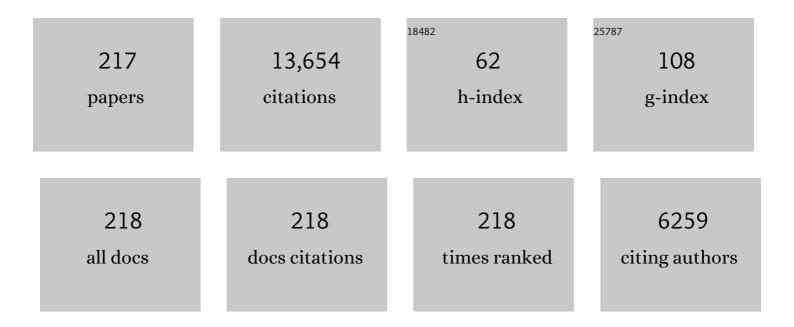
Tiziano Faravelli

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/1620552/publications.pdf Version: 2024-02-01



#	Article	IF	CITATIONS
1	On the radical behavior of large polycyclic aromatic hydrocarbons in soot formation and oxidation. Combustion and Flame, 2022, 235, 111692.	5.2	24
2	A new detailed kinetic model for surrogate fuels: C3MechV3.3. Applications in Energy and Combustion Science, 2022, 9, 100043.	1.5	15
3	Experimental and modeling investigation on pyrolysis of agricultural biomass residues: Khat stem and coffee husk for bio-oil application. Journal of Analytical and Applied Pyrolysis, 2022, 162, 105435.	5.5	7
4	Dimethyl ether oxidation analyzed in a given flow reactor: Experimental and modeling uncertainties. Combustion and Flame, 2022, 240, 111998.	5.2	13
5	Modeling soot particles as stable radicals: a chemical kinetic study on formation and oxidation. Part II. Soot oxidation in flow reactors and laminar flames. Combustion and Flame, 2022, 243, 112072.	5.2	7
6	Modeling soot particles as stable radicals: a chemical kinetic study on formation and oxidation. Part I. Soot formation in ethylene laminar premixed and counterflow diffusion flames. Combustion and Flame, 2022, 243, 112073.	5.2	6
7	Investigation of Oxy-Fuel Combustion through Reactor Network and Residence Time Data. Energies, 2022, 15, 252.	3.1	2
8	An experimental, theoretical and kinetic-modeling study of hydrogen sulfide pyrolysis and oxidation. Chemical Engineering Journal, 2022, 446, 136723.	12.7	6
9	Theoretical and kinetic modeling study of chloromethane (CH ₃ Cl) pyrolysis and oxidation. International Journal of Chemical Kinetics, 2021, 53, 403-418.	1.6	2
10	Ammonia–methane interaction in jet-stirred and flow reactors: An experimental and kinetic modeling study. Proceedings of the Combustion Institute, 2021, 38, 345-353.	3.9	47
11	Interface-resolved simulation of the evaporation and combustion of a fuel droplet suspended in normal gravity. Fuel, 2021, 287, 119413.	6.4	7
12	Calibration and validation of a comprehensive kinetic model of coal conversion in inert, air and oxy-fuel conditions using data from multiple test rigs. Fuel, 2021, 290, 119682.	6.4	7
13	Kinetic Modeling of the Ignition of Droplets of Fast Pyrolysis Bio-oil: Effect of Initial Diameter and Fuel Composition. Industrial & Engineering Chemistry Research, 2021, 60, 6719-6729.	3.7	2
14	Pyrolysis and Combustion Chemistry of Pyrrole, a Reference Component for Bio-oil Surrogates: Jet-Stirred Reactor Experiments and Kinetic Modeling. Energy & Fuels, 2021, 35, 7265-7284.	5.1	26
15	Systematic evaluation and kinetic modeling of low heating rate sulfur release in various atmospheres. Fuel, 2021, 289, 119739.	6.4	4
16	Carrier-phase DNS of detailed NOx formation in early-stage pulverized coal combustion with fuel-bound nitrogen. Fuel, 2021, 291, 119998.	6.4	13
17	The chemistry of chemical recycling of solid plastic waste via pyrolysis and gasification: State-of-the-art, challenges, and future directions. Progress in Energy and Combustion Science, 2021, 84, 100901.	31.2	297
18	Chemical Kinetics of Asphaltene Pyrolysis. Energy & amp; Fuels, 2021, 35, 8672-8684.	5.1	6

#	Article	IF	CITATIONS
19	OptiSMOKE++: A toolbox for optimization of chemical kinetic mechanisms. Computer Physics Communications, 2021, 264, 107940.	7.5	14
20	An evolutionary, data-driven approach for mechanism optimization: theory and application to ammonia combustion. Combustion and Flame, 2021, 229, 111366.	5.2	50
21	Assessment of a detailed biomass pyrolysis kinetic scheme in multiscale simulations of a single-particle pyrolyzer and a pilot-scale entrained flow pyrolyzer. Chemical Engineering Journal, 2021, 418, 129347.	12.7	38
22	Data Ecosystems for Scientific Experiments: Managing Combustion Experiments and Simulation Analyses in Chemical Engineering. Frontiers in Big Data, 2021, 4, 663410.	2.9	7
23	Advanced modeling approaches for CFD simulations of coal combustion and gasification. Progress in Energy and Combustion Science, 2021, 86, 100938.	31.2	45
24	A Predictive Physico-chemical Model of Biochar Oxidation. Energy & amp; Fuels, 2021, 35, 14894-14912.	5.1	7
25	Master equation lumping for multi-well potential energy surfaces: A bridge between ab initio based rate constant calculations and large kinetic mechanisms. Chemical Engineering Journal, 2021, 422, 129954.	12.7	12
26	Experimental and modeling assessment of sulfur release from coal under low and high heating rates. Proceedings of the Combustion Institute, 2021, 38, 4053-4061.	3.9	11
27	Development and Application of an Efficient Chemical Reactor Network Model for Oxy-fuel Combustion. Energy & amp; Fuels, 2021, 35, 7121-7132.	5.1	10
28	New Dynamic Scale Similarity Based Finite-Rate Combustion Models for LES and a priori DNS Assessment in Non-premixed Jet Flames with High Level of Local Extinction. Flow, Turbulence and Combustion, 2020, 104, 233-260.	2.6	5
29	Experimental and modeling study of benzaldehyde oxidation. Combustion and Flame, 2020, 211, 124-132.	5.2	24
30	The role of chemistry in the oscillating combustion of hydrocarbons: An experimental and theoretical study. Chemical Engineering Journal, 2020, 385, 123401.	12.7	21
31	Comprehensive kinetic study of combustion technologies for low environmental impact: MILD and OXY-fuel combustion of methane. Combustion and Flame, 2020, 212, 142-155.	5.2	139
32	Theoretical study of sensitive reactions in phenol decomposition. Reaction Chemistry and Engineering, 2020, 5, 452-472.	3.7	39
33	Combustion of <i>n</i> -C ₃ –C ₆ Linear Alcohols: An Experimental and Kinetic Modeling Study. Part I: Reaction Classes, Rate Rules, Model Lumping, and Validation. Energy & Fuels, 2020, 34, 14688-14707.	5.1	19
34	An experimental and numerical study on the combustion of lignites from different geographic origins. Fuel, 2020, 278, 118320.	6.4	7
35	Electronic structure-based rate rules for ᢠ <i>ipso</i> addition–elimination reactions on mono-aromatic hydrocarbons with single and double OH/CH ₃ /OCH ₃ /CHO/C ₂ H ₅ substituents: a systematic theoretical investigation. Physical Chemistry Chemical Physics. 2020. 22. 20368-20387.	2.8	14
36	Combustion of <i>n</i> -C ₃ –C ₆ Linear Alcohols: An Experimental and Kinetic Modeling Study. Part II: Speciation Measurements in a Jet-Stirred Reactor, Ignition Delay Time Measurements in a Rapid Compression Machine, Model Validation, and Kinetic Analysis. Energy & amp; Fuels, 2020, 34, 14708-14725.	5.1	20

#	Article	IF	CITATIONS
37	Can Small Polyaromatics Describe Their Larger Counterparts for Local Reactions? A Computational Study on the H-Abstraction Reaction by an H-Atom from Polyaromatics. Journal of Physical Chemistry A, 2020, 124, 9626-9637.	2.5	8
38	An experimental, theoretical and kinetic-modeling study of the gas-phase oxidation of ammonia. Reaction Chemistry and Engineering, 2020, 5, 696-711.	3.7	275
39	A forward approach for the validation of soot sizingÂmodels using laser-induced incandescence (LII). Applied Physics B: Lasers and Optics, 2020, 126, 1.	2.2	3
40	Kinetic Modeling of Solid, Liquid and Gas Biofuel Formation from Biomass Pyrolysis. Biofuels and Biorefineries, 2020, , 31-76.	0.5	4
41	An a priori DNS analysis of scale similarity based combustion models for LES of non-premixed jet flames. Flow, Turbulence and Combustion, 2020, 104, 605-624.	2.6	4
42	First-principles assessment of the analogy between gas-phase and gas-solid H-abstraction reactions at graphene edges. Chemical Engineering Journal, 2019, 377, 119691.	12.7	6
43	An experimental and kinetic modelling study of n-C4C6 aldehydes oxidation in a jet-stirred reactor. Proceedings of the Combustion Institute, 2019, 37, 389-397.	3.9	21
44	The sensitizing effects of NO2 and NO on methane low temperature oxidation in a jet stirred reactor. Proceedings of the Combustion Institute, 2019, 37, 667-675.	3.9	124
45	A post processing technique to predict primary particle size of sooting flames based on a chemical discrete sectional model: Application to diluted coflow flames. Combustion and Flame, 2019, 208, 122-138.	5.2	11
46	Numerical investigation of a porous media combustor in a small-scale diesel engine. Energy, 2019, 186, 115785.	8.8	11
47	An experimental and CFD modeling study of suspended droplets evaporation in buoyancy driven convection. Chemical Engineering Journal, 2019, 375, 122006.	12.7	16
48	Prediction of flammable range for pure fuels and mixtures using detailed kinetics. Combustion and Flame, 2019, 207, 120-133.	5.2	27
49	Detailed kinetics of substituted phenolic species in pyrolysis bio-oils. Reaction Chemistry and Engineering, 2019, 4, 490-506.	3.7	63
50	Addressing the complexity of combustion kinetics: Data management and automatic model validation. Computer Aided Chemical Engineering, 2019, 45, 763-798.	0.5	11
51	A first evaluation of butanoic and pentanoic acid oxidation kinetics. Chemical Engineering Journal, 2019, 373, 973-984.	12.7	27
52	Towards a scientific data framework to support scientific model development. Data Science, 2019, 2, 245-273.	0.9	6
53	Buoyancy effect in sooting laminar premixed ethylene flame. Combustion and Flame, 2019, 205, 135-146.	5.2	18
54	Examination of a soot model in premixed laminar flames at fuel-rich conditions. Proceedings of the Combustion Institute, 2019, 37, 1013-1021.	3.9	109

#	Article	IF	CITATIONS
55	Soot Modeling of Ethylene Counterflow Diffusion Flames. Combustion Science and Technology, 2019, 191, 1473-1483.	2.3	18
56	Fully-resolved simulations of coal particle combustion using a detailed multi-step approach for heterogeneous kinetics. Fuel, 2019, 240, 75-83.	6.4	40
57	DropletSMOKE++: A comprehensive multiphase CFD framework for the evaporation of multidimensional fuel droplets. International Journal of Heat and Mass Transfer, 2019, 131, 836-853.	4.8	20
58	Thermochemical oscillation of methane MILD combustion diluted with N ₂ /CO ₂ /H ₂ O. Combustion Science and Technology, 2019, 191, 68-80.	2.3	12
59	H-Abstraction reactions by OH, HO ₂ , O, O ₂ and benzyl radical addition to O ₂ and their implications for kinetic modelling of toluene oxidation. Physical Chemistry Chemical Physics, 2018, 20, 10607-10627.	2.8	80
60	<i>Ab initio</i> calculations and kinetic modeling of thermal conversion of methyl chloride: implications for gasification of biomass. Physical Chemistry Chemical Physics, 2018, 20, 10741-10752.	2.8	8
61	Numerical investigation of soot formation from microgravity droplet combustion using heterogeneous chemistry. Combustion and Flame, 2018, 189, 393-406.	5.2	19
62	A Model Investigation of Fuel and Operating Regime Impact on Homogeneous Charge Compression Ignition Engine Performance. Energy & Fuels, 2018, 32, 2282-2298.	5.1	4
63	The influence of low-temperature chemistry on partially-premixed counterflow n-heptane/air flames. Combustion and Flame, 2018, 188, 440-452.	5.2	10
64	Prediction of Combustion and Heat Release Rates in Non-Premixed Syngas Jet Flames Using Finite-Rate Scale Similarity Based Combustion Models. Energies, 2018, 11, 2464.	3.1	5
65	A predictive model of biochar formation and characterization. Journal of Analytical and Applied Pyrolysis, 2018, 134, 326-335.	5.5	69
66	Kinetic modeling of soot formation in premixed burner-stabilized stagnation ethylene flames at heavily sooting condition. Fuel, 2018, 234, 199-206.	6.4	32
67	Oscillatory Behavior in Methane Combustion: Influence of the Operating Parameters. Energy & Fuels, 2018, 32, 10088-10099.	5.1	22
68	Storing Combustion Data Experiments: New Requirements Emerging from a First Prototype. Lecture Notes in Computer Science, 2018, , 138-149.	1.3	5
69	A computational framework for the pyrolysis of anisotropic biomass particles. Chemical Engineering Journal, 2017, 321, 458-473.	12.7	55
70	Algae characterization and multistep pyrolysis mechanism. Journal of Analytical and Applied Pyrolysis, 2017, 128, 423-436.	5.5	80
71	Numerical investigation of soot-flame-vortex interaction. Proceedings of the Combustion Institute, 2017, 36, 753-761.	3.9	10
72	Flame extinction and low-temperature combustion of isolated fuel droplets of n-alkanes. Proceedings of the Combustion Institute, 2017, 36, 2531-2539.	3.9	21

#	Article	IF	CITATIONS
73	The role of preferential evaporation on the ignition of multicomponent fuels in a homogeneous spray/air mixture. Proceedings of the Combustion Institute, 2017, 36, 2483-2491.	3.9	48
74	Skeletal kinetic mechanism for diesel combustion. Combustion Theory and Modelling, 2017, 21, 79-92.	1.9	8
75	Alkyl radicals rule the low temperature oxidation of long chain aldehydes. Proceedings of the Combustion Institute, 2017, 36, 393-401.	3.9	28
76	Detailed kinetic mechanism of gas-phase reactions of volatiles released from biomass pyrolysis. Biomass and Bioenergy, 2016, 93, 60-71.	5.7	73
77	A new predictive multi-zone model for HCCI engine combustion. Applied Energy, 2016, 178, 826-843.	10.1	35
78	Pyrolysis, Gasification, and Combustion of Solid Fuels. Advances in Chemical Engineering, 2016, 49, 1-94.	0.9	31
79	Resolved flow simulation of pulverized coal particle devolatilization and ignition in air- and O 2 /CO 2 -atmospheres. Fuel, 2016, 186, 285-292.	6.4	59
80	Relative Reactivity of Oxygenated Fuels: Alcohols, Aldehydes, Ketones, and Methyl Esters. Energy & Fuels, 2016, 30, 8665-8679.	5.1	38
81	Probe effects in soot sampling from a burner-stabilized stagnation flame. Combustion and Flame, 2016, 167, 184-197.	5.2	45
82	Curve matching, a generalized framework for models/experiments comparison: An application to n- heptane combustion kinetic mechanisms. Combustion and Flame, 2016, 168, 186-203.	5.2	23
83	Laminar flame speeds of pentanol isomers: An experimental and modeling study. Combustion and Flame, 2016, 166, 1-18.	5.2	51
84	Experimental and modeling investigation of the effect of the unsaturation degree on the gas-phase oxidation of fatty acid methyl esters found in biodiesel fuels. Combustion and Flame, 2016, 164, 346-362.	5.2	42
85	Skeletal mechanism reduction through species-targeted sensitivity analysis. Combustion and Flame, 2016, 163, 382-393.	5.2	150
86	Numerical modeling of auto-ignition of isolated fuel droplets in microgravity. Proceedings of the Combustion Institute, 2015, 35, 1621-1627.	3.9	46
87	Kinetic modeling study of benzene and PAH formation in laminar methane flames. Combustion and Flame, 2015, 162, 1692-1711.	5.2	67
88	Experimental and kinetic modeling study of laminar coflow diffusion methane flames doped with 2-butanol. Proceedings of the Combustion Institute, 2015, 35, 863-871.	3.9	20
89	OpenSMOKE++: An object-oriented framework for the numerical modeling of reactive systems with detailed kinetic mechanisms. Computer Physics Communications, 2015, 192, 237-264.	7.5	324
90	Modeling soot formation in premixed flames using an Extended Conditional Quadrature Method of Moments. Combustion and Flame, 2015, 162, 2529-2543.	5.2	62

#	Article	IF	CITATIONS
91	New reaction classes in the kinetic modeling of low temperature oxidation of n-alkanes. Combustion and Flame, 2015, 162, 1679-1691.	5.2	214
92	High-temperature chemistry of HCl and Cl2. Combustion and Flame, 2015, 162, 2693-2704.	5.2	41
93	Extractives Extend the Applicability of Multistep Kinetic Scheme of Biomass Pyrolysis. Energy & Fuels, 2015, 29, 6544-6555.	5.1	118
94	Kinetic modeling of particle size distribution of soot in a premixed burner-stabilized stagnation ethylene flame. Combustion and Flame, 2015, 162, 3356-3369.	5.2	169
95	Reduced kinetic mechanisms of diesel fuel surrogate for engine CFD simulations. Combustion and Flame, 2015, 162, 3991-4007.	5.2	73
96	An experimental and kinetic modeling study of the pyrolysis and oxidation of n-C3C5 aldehydes in shock tubes. Combustion and Flame, 2015, 162, 265-286.	5.2	59
97	Detailed Emissions Prediction for a Turbulent Swirling Nonpremixed Flame. Energy & Fuels, 2014, 28, 1470-1488.	5.1	17
98	Reduced Kinetic Schemes of Complex Reaction Systems: Fossil and Biomassâ€Derived Transportation Fuels. International Journal of Chemical Kinetics, 2014, 46, 512-542.	1.6	401
99	Kinetic Modeling Study of Polycyclic Aromatic Hydrocarbons and Soot Formation in Acetylene Pyrolysis. Energy & Fuels, 2014, 28, 1489-1501.	5.1	70
100	Improved Kinetic Model of the Low-Temperature Oxidation of <i>n</i> -Heptane. Energy & Fuels, 2014, 28, 7178-7193.	5.1	102
101	Experimental and kinetic modeling study of PAH formation in methane coflow diffusion flames doped with n-butanol. Combustion and Flame, 2014, 161, 657-670.	5.2	40
102	A fully coupled, parallel approach for the post-processing of CFD data through reactor network analysis. Computers and Chemical Engineering, 2014, 60, 197-212.	3.8	21
103	Lumping and Reduction of Detailed Kinetic Schemes: an Effective Coupling. Industrial & Engineering Chemistry Research, 2014, 53, 9004-9016.	3.7	102
104	Experimental and modeling study of single coal particle combustion in O2/N2 and Oxy-fuel (O2/CO2) atmospheres. Combustion and Flame, 2013, 160, 2559-2572.	5.2	131
105	Extinction of laminar, premixed, counter-flow methane/air flames under unsteady conditions: Effect of H2 addition. Chemical Engineering Science, 2013, 93, 266-276.	3.8	18
106	Numerical Modeling of Laminar Flames with Detailed Kinetics Based on the Operator-Splitting Method. Energy & Fuels, 2013, 27, 7730-7753.	5.1	100
107	Experimental Study of Tetralin Oxidation and Kinetic Modeling of Its Pyrolysis and Oxidation. Energy & Fuels, 2013, 27, 1576-1585.	5.1	24
108	Experimental and detailed kinetic modeling study of PAH formation in laminar co-flow methane diffusion flames. Proceedings of the Combustion Institute, 2013, 34, 1811-1818.	3.9	32

#	Article	IF	CITATIONS
109	A lumped approach to the kinetic modeling of pyrolysis and combustion of biodiesel fuels. Proceedings of the Combustion Institute, 2013, 34, 427-434.	3.9	57
110	Experimental and semi-detailed kinetic modeling study of decalin oxidation and pyrolysis over a wide range of conditions. Proceedings of the Combustion Institute, 2013, 34, 289-296.	3.9	50
111	A wide range kinetic modeling study of pyrolysis and oxidation of benzene. Combustion and Flame, 2013, 160, 1168-1190.	5.2	111
112	Predictive one step kinetic model of coal pyrolysis for CFD applications. Proceedings of the Combustion Institute, 2013, 34, 2401-2410.	3.9	55
113	A computational tool for the detailed kinetic modeling of laminar flames: Application to C2H4/CH4 coflow flames. Combustion and Flame, 2013, 160, 870-886.	5.2	133
114	Numerical Modeling of NO _{<i>x</i>} Formation in Turbulent Flames Using a Kinetic Post-processing Technique. Energy & Fuels, 2013, 27, 1104-1122.	5.1	42
115	Multistep Kinetic Model of Biomass Pyrolysis. Green Energy and Technology, 2013, , 111-139.	0.6	6
116	Automatic Generation of Detailed Mechanisms. Green Energy and Technology, 2013, , 59-92.	0.6	18
117	Specificities Related to Detailed Kinetic Models for the Combustion of Oxygenated Fuels Components. Green Energy and Technology, 2013, , 93-109.	0.6	5
118	Reactor network analysis of Claus furnace with detailed kinetics. Computer Aided Chemical Engineering, 2012, 30, 1007-1012.	0.5	4
119	A predictive kinetic model of sulfur release from coal. Fuel, 2012, 91, 213-223.	6.4	36
120	A wide range kinetic modeling study of pyrolysis and oxidation of methyl butanoate and methyl decanoate. Note I: Lumped kinetic model of methyl butanoate and small methyl esters. Energy, 2012, 43, 124-139.	8.8	46
121	A Detailed Kinetic Study of Pyrolysis and Oxidation of Clycerol (Propane-1,2,3-triol). Combustion Science and Technology, 2012, 184, 1164-1178.	2.3	41
122	Detailed Multi-dimensional Study of Pollutant Formation in a Methane Diffusion Flame. Energy & Fuels, 2012, 26, 1598-1611.	5.1	33
123	Kinetic modelling of extinction and autoignition of condensed hydrocarbon fuels in non-premixed flows with comparison to experiment. Combustion and Flame, 2012, 159, 130-141.	5.2	14
124	Inhibition of hydrogen oxidation by HBr and Br2. Combustion and Flame, 2012, 159, 528-540.	5.2	31
125	A wide range kinetic modeling study of pyrolysis and oxidation of methyl butanoate and methyl decanoate – Note II: Lumped kinetic model of decomposition and combustion of methyl esters up to methyl decanoate. Combustion and Flame, 2012, 159, 2280-2294.	5.2	43
126	Detailed kinetic modeling of the combustion of the four butanol isomers in premixed low-pressure flames. Combustion and Flame, 2012, 159, 2295-2311.	5.2	100

#	Article	IF	CITATIONS
127	Hierarchical and comparative kinetic modeling of laminar flame speeds of hydrocarbon and oxygenated fuels. Progress in Energy and Combustion Science, 2012, 38, 468-501.	31.2	773
128	Experimental and kinetic modeling study of combustion of JP-8, its surrogates and components in laminar premixed flows. Combustion Theory and Modelling, 2011, 15, 569-583.	1.9	32
129	Kinetic modeling study of ethanol and dimethyl ether addition to premixed low-pressure propene–oxygen–argon flames. Combustion and Flame, 2011, 158, 1264-1276.	5.2	50
130	Fluid Dynamics and Detailed Kinetic Modeling of Pollutant Emissions From Lean Combustion Systems. , 2010, , .		0
131	Kinetic and fluid dynamics modeling of methane/hydrogen jet flames in diluted coflow. Applied Thermal Engineering, 2010, 30, 376-383.	6.0	125
132	A predictive multi-step kinetic model of coal devolatilization. Fuel, 2010, 89, 318-328.	6.4	109
133	Detailed kinetic modeling of the thermal degradation of lignins. Biomass and Bioenergy, 2010, 34, 290-301.	5.7	290
134	An experimental and kinetic modeling study of n-propanol and iso-propanol combustion. Combustion and Flame, 2010, 157, 2-16.	5.2	157
135	An experimental and kinetic modeling study of combustion of isomers of butanol. Combustion and Flame, 2010, 157, 2137-2154.	5.2	224
136	Detailed kinetics in the mathematical model of fixed bed gasifiers. Computer Aided Chemical Engineering, 2010, , 829-834.	0.5	2
137	Kinetic Modeling of the Oxidation of Ethanol and Gasoline Surrogate Mixtures. Combustion Science and Technology, 2010, 182, 653-667.	2.3	62
138	Experimental and kinetic modeling study of sooting atmospheric-pressure cyclohexane flame. Proceedings of the Combustion Institute, 2009, 32, 585-591.	3.9	51
139	Formation of soot and nitrogen oxides in unsteady counterflow diffusion flames. Combustion and Flame, 2009, 156, 2010-2022.	5.2	80
140	Soot formation in unsteady counterflow diffusion flames. Proceedings of the Combustion Institute, 2009, 32, 1335-1342.	3.9	29
141	Experimental and kinetic modeling study of combustion of gasoline, its surrogates and components in laminar non-premixed flows. Proceedings of the Combustion Institute, 2009, 32, 493-500.	3.9	77
142	Experimental and kinetic modeling study of the effect of fuel composition in HCCI engines. Proceedings of the Combustion Institute, 2009, 32, 2843-2850.	3.9	27
143	Lumped Kinetic Modeling of the Oxidation of Isocetane (2,2,4,4,6,8,8-Heptamethylnonane) in a Jet-Stirred Reactor (JSR). Energy & Fuels, 2009, 23, 5287-5289.	5.1	15
144	Experimental and Modeling Study of a Low NO _x Combustor for Aero-Engine Turbofan. Combustion Science and Technology, 2009, 181, 483-495.	2.3	18

#	Article	IF	CITATIONS
145	Dynamic analysis of oscillating flames. Computer Aided Chemical Engineering, 2009, , 749-753.	0.5	Ο
146	Robust and efficient numerical methods for the prediction of pollutants using detailed kinetics and fluid dynamics. Computer Aided Chemical Engineering, 2009, , 707-711.	0.5	1
147	xmins:mml= http://www.w3.org/1998/Math/Math/Math/MathML_altimg= si150.gif_display= inline overflow="scroll"> <mml:msub><mml:miow><mml:mi mathvariant="normal">H<mml:mrow><mml:mn>2</mml:mn></mml:mrow>combustion over <mml:math <="" altimg="si151.gif" td="" xmlns:mml="http://www.w3.org/1998/Math/MathML"><td>b>≋/8nml:r</td><td>na4 2></td></mml:math></mml:mi </mml:miow></mml:msub>	b> ≋/8 nml:r	na 4 2 >
148	display= inline overflow="scroll"> cmml:mi>Rh cmml:mo>/c/mml:mo> cmml:msub> cmml:mro Chemical Kinetics of Biomass Pyrolysis. Energy & Fuels, 2008, 22, 4292-4300.	5.1	568
149	Frequency Response of Counter Flow Diffusion Flames to Strain Rate Harmonic Oscillations. Combustion Science and Technology, 2008, 180, 767-784.	2.3	32
150	Experimental and Numerical Investigation of n-Heptane/Air Counterflow Nonpremixed Flame Structure. Journal of Propulsion and Power, 2008, 24, 797-804.	2.2	10
151	Kinetic Modeling of Soot Formation in Turbulent Nonpremixed Flames. Environmental Engineering Science, 2008, 25, 1407-1422.	1.6	17
152	Modeling Homogeneous Combustion in Bubbling Beds Burning Liquid Fuels. Journal of Energy Resources Technology, Transactions of the ASME, 2007, 129, 33-41.	2.3	6
153	Kinetic Modelling of Pyrolysis Processes in Gas and Condensed Phase. Advances in Chemical Engineering, 2007, , 51-166.	0.9	50
154	The ignition, combustion and flame structure of carbon monoxide/hydrogen mixtures. Note 1: Detailed kinetic modeling of syngas combustion also in presence of nitrogen compounds. International Journal of Hydrogen Energy, 2007, 32, 3471-3485.	7.1	160
155	The ignition, combustion and flame structure of carbon monoxide/hydrogen mixtures. Note 2: Fluid dynamics and kinetic aspects of syngas combustion. International Journal of Hydrogen Energy, 2007, 32, 3486-3500.	7.1	74
156	Role of gas-phase chemistry in the rich combustion ofH2and CO over aRh/Al2O3catalyst in annular reactor. Chemical Engineering Science, 2007, 62, 4992-4997.	3.8	15
157	Ab initio evaluation of primary cyclo-hexane oxidation reaction rates. Proceedings of the Combustion Institute, 2007, 31, 201-209.	3.9	64
158	Experimental and kinetic modeling study of combustion of JP-8, its surrogates and reference components in laminar nonpremixed flows. Proceedings of the Combustion Institute, 2007, 31, 393-400.	3.9	185
159	Detailed kinetic modeling of pyrolysis of tetrabromobisphenol A. Journal of Analytical and Applied Pyrolysis, 2007, 80, 325-345.	5.5	43
160	Detailed kinetic modeling of the thermal degradation of vinyl polymers. Journal of Analytical and Applied Pyrolysis, 2007, 78, 343-362.	5.5	59
161	Detailed Chemistry Promotes Understanding of Octane Numbers and Gasoline Sensitivity. Energy & Fuels, 2006, 20, 2391-2398.	5.1	105
162	A wide range modeling study of NOxNOx formation and nitrogen chemistry in hydrogen combustion. International Journal of Hydrogen Energy, 2006, 31, 2310-2328.	7.1	93

#	Article	IF	CITATIONS
163	Computational and experimental study of JP-8, a surrogate, and its components in counterflow diffusion flames. Proceedings of the Combustion Institute, 2005, 30, 439-446.	3.9	119
164	Analysis of process parameters for steady operations in methane mild combustion technology. Proceedings of the Combustion Institute, 2005, 30, 2605-2612.	3.9	102
165	xmins:xocs= http://www.elsevier.com/xmi/xocs/dtd_xmins:xs= http://www.w3.org/2001/XWLSchema xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns="http://www.elsevier.com/xml/ja/dtd" xmlns:ja="http://www.elsevier.com/xml/ja/dtd" xmlns:mml="http://www.w3.org/1998/Math/MathML" xmlns:tb="http://www.elsevier.com/xml/common/table/dtd"	3.8	76
166	Autoignition and burning rates of fuel droplets under microgravity. Combustion and Flame, 2005, 143, 211-226.	5.2	96
167	Wide-Range Kinetic Modeling Study of the Pyrolysis, Partial Oxidation, and Combustion of Heavyn-Alkanes. Industrial & Engineering Chemistry Research, 2005, 44, 5170-5183.	3.7	253
168	A kinetic modeling study of the thermal degradation of halogenated polymers. Journal of Analytical and Applied Pyrolysis, 2004, 72, 253-272.	5.5	42
169	Reference components of jet fuels: kinetic modeling and experimental results. Experimental Thermal and Fluid Science, 2004, 28, 701-708.	2.7	154
170	Kinetic modeling of the interactions between NO and hydrocarbons in the oxidation of hydrocarbons at low temperatures. Combustion and Flame, 2003, 132, 188-207.	5.2	243
171	A wide range kinetic modeling study of the pyrolysis and combustion of naphthenes. Combustion and Flame, 2003, 132, 533-544.	5.2	108
172	Kinetic modeling of the interactions between NO and hydrocarbons at high temperature. Combustion and Flame, 2003, 135, 97-112.	5.2	141
173	Thermal degradation of poly(vinyl chloride). Journal of Analytical and Applied Pyrolysis, 2003, 70, 519-553.	5.5	164
174	Kinetic modeling of the thermal degradation of polyethylene and polystyrene mixtures. Journal of Analytical and Applied Pyrolysis, 2003, 70, 761-777.	5.5	92
175	Modeling Homogeneous Combustion in Bubbling Beds Burning Liquid Fuels. , 2003, , .		1
176	Experimental formulation and kinetic model for JP-8 surrogate mixtures. Combustion Science and Technology, 2002, 174, 399-417.	2.3	415
177	Fouling phenomena in pyrolysis and combustion processes. Applied Thermal Engineering, 2002, 22, 919-927.	6.0	27
178	Kinetic modeling of counterflow diffusion flames of butadiene. Combustion and Flame, 2002, 131, 273-284.	5.2	47
179	Numerical problems in the solution of oxidation and combustion models. Combustion Theory and Modelling, 2001, 5, 185-199.	1.9	33
180	Thermal degradation of polystyrene. Journal of Analytical and Applied Pyrolysis, 2001, 60, 103-121.	5.5	254

#	Article	IF	CITATIONS
181	Lumping procedures in detailed kinetic modeling of gasification, pyrolysis, partial oxidation and combustion of hydrocarbon mixtures. Progress in Energy and Combustion Science, 2001, 27, 99-139.	31.2	383
182	A new procedure for predicting NOx emissions from furnaces. Computers and Chemical Engineering, 2001, 25, 613-618.	3.8	63
183	A new procedure for predicting NOx emissions from furnaces. Computer Aided Chemical Engineering, 2000, 8, 859-864.	0.5	5
184	The kinetic modeling of soot precursors in a butadiene flame. Combustion and Flame, 2000, 122, 350-358.	5.2	63
185	An experimental and kinetic modeling study of propyne and allene oxidation. Proceedings of the Combustion Institute, 2000, 28, 2601-2608.	3.9	31
186	Pyrolysis and oxidation of unsaturated and species. Experimental Thermal and Fluid Science, 2000, 21, 71-78.	2.7	7
187	Gas product distribution from polyethylene pyrolysis. Journal of Analytical and Applied Pyrolysis, 1999, 52, 87-103.	5.5	85
188	Detailed thermokinetic modelling of alkane autoignition as a tool for the optimization of performance of internal combustion engines. Fuel, 1998, 77, 147-155.	6.4	32
189	Oxidation of oxygenated octane improvers: MTBE, ETBE, DIPE, and TAME. Proceedings of the Combustion Institute, 1998, 27, 353-360.	0.3	40
190	The kinetic modeling of soot precursors in ethylene flames. Proceedings of the Combustion Institute, 1998, 27, 1489-1495.	0.3	19
191	Partial Oxidation of Hydrocarbons: an Experimental and Kinetic Modeling Study. Studies in Surface Science and Catalysis, 1998, 119, 575-580.	1.5	13
192	Primary Pyrolysis and Oxidation Reactions of Linear and Branched Alkanes. Industrial & Engineering Chemistry Research, 1997, 36, 3336-3344.	3.7	49
193	Kinetic modeling of polyethylene and polypropylene thermal degradation. Journal of Analytical and Applied Pyrolysis, 1997, 40-41, 305-319.	5.5	110
194	Comprehensive kinetic model for the low temperature oxidation of hydrocarbons. AICHE Journal, 1997, 43, 1278-1286.	3.6	45
195	A wide-range modeling study of iso-octane oxidation. Combustion and Flame, 1997, 108, 24-42.	5.2	133
196	A kinetic study of an advanced reburning process. Combustion Theory and Modelling, 1997, 1, 377-393.	1.9	10
197	Experimental data and kinetic modeling of primary reference fuel mixtures. Proceedings of the Combustion Institute, 1996, 26, 739-746.	0.3	84
198	Low-temperature combustion: Automatic generation of primary oxidation reactions and lumping procedures. Combustion and Flame, 1995, 102, 179-192.	5.2	157

#	Article	IF	CITATIONS
199	Application of data-reconciliation and optimisation procedure to hydrogen plant. Computers and Chemical Engineering, 1995, 19, 299-304.	3.8	6
200	Controllability and operability of azeotropic heterogeneous distillation systems. Computers and Chemical Engineering, 1995, 19, 525-530.	3.8	4
201	A project for on-line reconciliation and optimization of an olefin plant. Computers and Chemical Engineering, 1994, 18, S241-S246.	3.8	8
202	A Wide Range Modeling Study of Methane Oxidation. Combustion Science and Technology, 1994, 96, 279-325.	2.3	73
203	A Wide Range Modeling Study of Propane and n-Butane Oxidation. Combustion Science and Technology, 1994, 100, 299-330.	2.3	34
204	The key role of entrainer inventory for operation and control of heterogeneous azeotropic distillation towers. Computers and Chemical Engineering, 1993, 17, 535-547.	3.8	28
205	Prediction of Kinetic Parameters for Hydrogen Abstraction Reactions. Combustion Science and Technology, 1993, 95, 1-50.	2.3	72
206	PYROLYSIS AND CHLORINATION OF SMALL HYDROCARBONS. Chemical Engineering Communications, 1992, 117, 17-39.	2.6	20
207	Rigorous namics and ntrol of continuous stillation ystems—simulation and experimental results. Computers and Chemical Engineering, 1990, 14, 871-887.	3.8	16
208	Role of energy balances in dynamic simulation of multicomponent distillation columns. Computers and Chemical Engineering, 1988, 12, 783-786.	3.8	16
209	Kinetic Modelling Study of Octane Number and Sensitivity of Hydrocarbon Mixtures in CFR Engines. , 0, , .		8
210	Kinetic Modeling of Knock Properties in Internal Combustion Engines. , 0, , .		14
211	Development and Experimental Validation of a Combustion Model with Detailed Chemistry for Knock Predictions. , 0, , .		16
212	A Multizone approach to the detailed kinetic modeling of HCCI combustion. , 0, , .		10
213	Reduced Kinetic Mechanisms for Diesel Spray Combustion Simulations. , 0, , .		10
214	Detailed Kinetic Analysis of HCCI Combustion Using a New Multi-Zone Model and CFD Simulations. SAE International Journal of Engines, 0, 6, 1594-1609.	0.4	15
215	A Kinetic Modelling Study of Alcohols Operating Regimes in a HCCI Engine. SAE International Journal of Engines, 0, 10, 2354-2370.	0.4	20
216	Polycyclic Aromatic Hydrocarbons Evolution and Interactions with Soot Particles During Fuel Surrogate Combustion: A Rate Rule-Based Kinetic Model. , 0, , .		2

#	Article	IF	CITATIONS
217	Computational Chemistry Consortium: Surrogate Fuel Mechanism Development, Pollutants Sub-Mechanisms and Components Library. , 0, , .		6