

Hai Wang

List of Publications by Year in Descending Order

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

183
papers

12,965
citations

61
h-index

110
g-index

195
ext. papers

14,438
ext. citations

5.2
avg, IF

6.77
L-index

#	Paper	IF	Citations
183	Morphology and electronic properties of incipient soot by scanning tunneling microscopy and spectroscopy. <i>Combustion and Flame</i> , 2022 , 111980	5.3	0
182	Synthesis of freestanding few-layer graphene in microwave plasma: The role of oxygen. <i>Carbon</i> , 2022 , 186, 560-573	10.4	4
181	Natural gas versus methane: Ignition kinetics and detonation limit behavior in small tubes. <i>Combustion and Flame</i> , 2022 , 237, 111719	5.3	2
180	A physics-based approach to modeling real-fuel combustion chemistry VII . Relationship between speciation measurement and reaction model accuracy. <i>Combustion and Flame</i> , 2021 , 224, 126-135	5.3	2
179	Detonation and its limit in small tubes with ozone sensitization. <i>Proceedings of the Combustion Institute</i> , 2021 , 38, 3547-3554	5.9	2
178	Geometric modeling and analysis of detonation cellular stability. <i>Proceedings of the Combustion Institute</i> , 2021 , 38, 3585-3593	5.9	1
177	Electronic band gap of flame-formed carbon nanoparticles by scanning tunneling spectroscopy. <i>Proceedings of the Combustion Institute</i> , 2021 , 38, 1805-1812	5.9	7
176	Impact of vitiation on flow reactor studies of jet fuel combustion chemistry. <i>Combustion and Flame</i> , 2021 , 224, 66-72	5.3	
175	Quantum confinement and size resolved modeling of electronic and optical properties of small soot particles. <i>Proceedings of the Combustion Institute</i> , 2021 , 38, 1517-1524	5.9	8
174	A physics-based approach to modeling real-fuel combustion chemistry IV . NO formation from a typical Jet A. <i>Combustion and Flame</i> , 2020 , 212, 270-278	5.3	10
173	A Review of Terminology Used to Describe Soot Formation and Evolution under Combustion and Pyrolytic Conditions. <i>ACS Nano</i> , 2020 , 14, 12470-12490	16.7	53
172	A physics-based approach to modeling real-fuel combustion chemistry VI . Predictive kinetic models of gasoline fuels. <i>Combustion and Flame</i> , 2020 , 220, 475-487	5.3	10
171	Flame-formed carbon nanoparticles exhibit quantum dot behaviors. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 12692-12697	11.5	24
170	Uncertainty quantification and minimization. <i>Computer Aided Chemical Engineering</i> , 2019 , 45, 723-762	0.6	1
169	Nanoparticles in dilute gases: Fundamental equivalence between momentum accommodation and surface adsorption. <i>Physical Review E</i> , 2019 , 99, 042127	2.4	4
168	The distillation curve and sooting propensity of a typical jet fuel. <i>Fuel</i> , 2019 , 235, 350-362	7.1	34
167	Principle of large component number in multicomponent fuel combustion I Monte Carlo study. <i>Proceedings of the Combustion Institute</i> , 2019 , 37, 613-620	5.9	12

166	A high pressure shock tube study of pyrolysis of real jet fuel Jet A. <i>Proceedings of the Combustion Institute</i> , 2019 , 37, 189-196	5.9	14
165	HOMO-LUMO energy splitting in polycyclic aromatic hydrocarbons and their derivatives. <i>Proceedings of the Combustion Institute</i> , 2019 , 37, 953-959	5.9	25
164	Sensitivities of direct numerical simulations to chemical kinetic uncertainties: spherical flame kernel evolution of a real jet fuel. <i>Combustion and Flame</i> , 2019 , 209, 117-132	5.3	4
163	Structure of strongly turbulent premixed n-dodecane-air flames: Direct numerical simulations and chemical explosive mode analysis. <i>Combustion and Flame</i> , 2019 , 209, 27-40	5.3	22
162	HOMO-LUMO Gaps of Homogeneous Polycyclic Aromatic Hydrocarbon Clusters. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 27785-27793	3.8	13
161	Kinetic analysis of distinct product generation in oxidative pyrolysis of four octane isomers. <i>Proceedings of the Combustion Institute</i> , 2019 , 37, 531-538	5.9	12
160	Spin-Forbidden Channels in Reactions of Unsaturated Hydrocarbons with O(P). <i>Journal of Physical Chemistry A</i> , 2019 , 123, 482-491	2.8	18
159	Isolating the effect of induction length on detonation structure: Hydrogen-oxygen detonation promoted by ozone. <i>Combustion and Flame</i> , 2019 , 200, 44-52	5.3	26
158	Joint probability distribution of Arrhenius parameters in reaction model optimization and uncertainty minimization. <i>Proceedings of the Combustion Institute</i> , 2019 , 37, 817-824	5.9	13
157	Critical kinetic uncertainties in modeling hydrogen/carbon monoxide, methane, methanol, formaldehyde, and ethylene combustion. <i>Combustion and Flame</i> , 2018 , 195, 18-29	5.3	27
156	A physics-based approach to modeling real-fuel combustion chemistry - I. Evidence from experiments, and thermodynamic, chemical kinetic and statistical considerations. <i>Combustion and Flame</i> , 2018 , 193, 502-519	5.3	174
155	A physics-based approach to modeling real-fuel combustion chemistry II. Reaction kinetic models of jet and rocket fuels. <i>Combustion and Flame</i> , 2018 , 193, 520-537	5.3	150
154	Effect of n-dodecane decomposition on its fundamental flame properties. <i>Combustion and Flame</i> , 2018 , 190, 65-73	5.3	18
153	Including real fuel chemistry in LES of turbulent spray combustion. <i>Combustion and Flame</i> , 2018 , 193, 397-416	5.3	30
152	Phase Equilibrium of TiO Nanocrystals in Flame-Assisted Chemical Vapor Deposition. <i>ChemPhysChem</i> , 2018 , 19, 180-186	3.2	18
151	Bottom-up modeling using the rate-controlled constrained-equilibrium theory: The n-butane combustion chemistry. <i>Combustion and Flame</i> , 2018 , 194, 223-232	5.3	1
150	A physics-based approach to modeling real-fuel combustion chemistry IV. HyChem modeling of combustion kinetics of a bio-derived jet fuel and its blends with a conventional Jet A. <i>Combustion and Flame</i> , 2018 , 198, 477-489	5.3	58
149	On imaging nascent soot by transmission electron microscopy. <i>Combustion and Flame</i> , 2018 , 198, 260-266	5.3	15

148	A Physics-based approach to modeling real-fuel combustion chemistry III. Reaction kinetic model of JP10. <i>Combustion and Flame</i> , 2018 , 198, 466-476	5.3	34
147	A Comparative Study of Combustion Chemistry of Conventional and Alternative Jet Fuels with Hybrid Chemistry Approach 2017 ,		5
146	Large-Eddy Simulations of Fuel Effect on Gas Turbine Lean Blow-out 2017 ,		8
145	Fuel effects on lean blow-out in a realistic gas turbine combustor. <i>Combustion and Flame</i> , 2017 , 181, 82-99	5.3	89
144	Violation of collision limit in recently published reaction models. <i>Combustion and Flame</i> , 2017 , 186, 208-219	5.3	27
143	Binary diffusion coefficients and non-premixed flames extinction of long-chain alkanes. <i>Proceedings of the Combustion Institute</i> , 2017 , 36, 1523-1530	5.9	15
142	Soot particle size distributions in premixed stretch-stabilized flat ethylene-oxygen-argon flames. <i>Proceedings of the Combustion Institute</i> , 2017 , 36, 1001-1009	5.9	30
141	Cation-Interactions between Flame Chemi-ions and Aromatic Compounds. <i>Energy & Fuels</i> , 2017 , 31, 2345-2352	4.1	10
140	Drag force and transport property of a small cylinder in free molecule flow: A gas-kinetic theory analysis. <i>Physical Review E</i> , 2016 , 94, 023102	2.4	12
139	Probe effects in soot sampling from a burner-stabilized stagnation flame. <i>Combustion and Flame</i> , 2016 , 167, 184-197	5.3	38
138	On lumped-reduced reaction model for combustion of liquid fuels. <i>Combustion and Flame</i> , 2016 , 163, 437-446	5.3	22
137	An experimental and kinetic modeling study of n-dodecane pyrolysis and oxidation. <i>Combustion and Flame</i> , 2016 , 163, 12-30	5.3	51
136	Particle size distribution of nascent soot in lightly and heavily sooting premixed ethylene flames. <i>Combustion and Flame</i> , 2016 , 165, 177-187	5.3	61
135	Theory and Experiment of Binary Diffusion Coefficient of n-Alkanes in Dilute Gases. <i>Journal of Physical Chemistry A</i> , 2016 , 120, 8065-8074	2.8	14
134	Mobility size distributions of soot in premixed propene flames. <i>Combustion and Flame</i> , 2016 , 172, 365-373	5.3	25
133	Chemical kinetic model uncertainty minimization through laminar flame speed measurements. <i>Combustion and Flame</i> , 2016 , 172, 136-152	5.3	30
132	In situ X-ray Scattering and Dynamical Modeling of Pd Catalyst Nanoparticles Formed in Flames. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 19073-19082	3.8	8
131	Numerical simulation and parametric sensitivity study of particle size distributions in a burner-stabilised stagnation flame. <i>Combustion and Flame</i> , 2015 , 162, 2569-2581	5.3	48

130	Energy and temperature dependent dissociation of the Na ⁽⁺⁾ (benzene) _{1,2} clusters: importance of anharmonicity. <i>Journal of Chemical Physics</i> , 2015 , 142, 044306	3.9	21
129	Kinetic modeling of particle size distribution of soot in a premixed burner-stabilized stagnation ethylene flame. <i>Combustion and Flame</i> , 2015 , 162, 3356-3369	5.3	128
128	Kinetics of nascent soot oxidation by molecular oxygen in a flow reactor. <i>Proceedings of the Combustion Institute</i> , 2015 , 35, 1887-1894	5.9	39
127	Combustion kinetic model uncertainty quantification, propagation and minimization. <i>Progress in Energy and Combustion Science</i> , 2015 , 47, 1-31	33.6	178
126	Analysis of segregation and bifurcation in turbulent spray flames: A 3D counterflow configuration. <i>Proceedings of the Combustion Institute</i> , 2015 , 35, 1675-1683	5.9	42
125	Mobility size and mass of nascent soot particles in a benchmark premixed ethylene flame. <i>Combustion and Flame</i> , 2015 , 162, 3810-3822	5.3	98
124	Morphology of nascent soot in ethylene flames. <i>Proceedings of the Combustion Institute</i> , 2015 , 35, 1879-1886	5.9	70
123	Kinetics of catalytic oxidation of ethylene over palladium oxide. <i>Proceedings of the Combustion Institute</i> , 2015 , 35, 2233-2240	5.9	6
122	On the Rational Interpretation of Data on Laminar Flame Speeds and Ignition Delay Times. <i>Combustion Science and Technology</i> , 2015 , 187, 27-36	1.5	13
121	Molecular characterization of organic content of soot along the centerline of a coflow diffusion flame. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 25862-75	3.6	49
120	Skeletal reaction model generation, uncertainty quantification and minimization: Combustion of butane. <i>Combustion and Flame</i> , 2014 , 161, 3031-3039	5.3	33
119	Properties of complexes formed by Na ⁽⁺⁾ , Mg ⁽²⁺⁾ , and Fe ⁽²⁺⁾ binding with benzene molecules. <i>Journal of Physical Chemistry A</i> , 2014 , 118, 9500-11	2.8	40
118	Kinetics of catalytic oxidation of methane, ethane and propane over palladium oxide. <i>Combustion and Flame</i> , 2014 , 161, 1048-1054	5.3	25
117	A Soot Chemistry Model That Captures Fuel Effects 2014 ,		3
116	Imaging nanocarbon materials: soot particles in flames are not structurally homogeneous. <i>ChemPhysChem</i> , 2013 , 14, 3248-54	3.2	57
115	Isomerization kinetics of benzylic and methylphenyl type radicals in single-ring aromatics. <i>Proceedings of the Combustion Institute</i> , 2013 , 34, 307-314	5.9	23
114	Evolution of size distribution of nascent soot in n- and i-butanol flames. <i>Proceedings of the Combustion Institute</i> , 2013 , 34, 1853-1860	5.9	74
113	Dye sensitized solar cells prepared by flames stabilized on a rotating surface. <i>Proceedings of the Combustion Institute</i> , 2013 , 34, 2171-2178	5.9	8

112	On potential energy landscape and combustion chemistry modeling. <i>Combustion and Flame</i> , 2013 , 160, 222-223	5.3	7
111	Kinetics of Catalytic Oxidation of Methane over Palladium Oxide by Wire Microcalorimetry. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 19499-19507	3.8	14
110	Mesoporous Titania Films Prepared by Flame Stabilized on a Rotating Surface: Application in Dye Sensitized Solar Cells. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 5342-5351	3.8	16
109	Tunneling in hydrogen-transfer isomerization of n-alkyl radicals. <i>Journal of Physical Chemistry A</i> , 2012 , 116, 319-32	2.8	62
108	Propagation and extinction of benzene and alkylated benzene flames. <i>Combustion and Flame</i> , 2012 , 159, 1070-1081	5.3	69
107	The method of uncertainty quantification and minimization using polynomial chaos expansions. <i>Combustion and Flame</i> , 2011 , 158, 2358-2374	5.3	138
106	Properties of nanocrystalline TiO ₂ synthesized in premixed flames stabilized on a rotating surface. <i>Proceedings of the Combustion Institute</i> , 2011 , 33, 1917-1924	5.9	34
105	Temperature-dependent gas-surface chemical kinetic model for methane ignition catalyzed by in situ generated palladium nanoparticles. <i>Proceedings of the Combustion Institute</i> , 2011 , 33, 1859-1866	5.9	15
104	Internal structure, hygroscopic and reactive properties of mixed sodium methanesulfonate-sodium chloride particles. <i>Physical Chemistry Chemical Physics</i> , 2011 , 13, 11846-57	3.6	24
103	Nanoporous Titania Gas Sensing Films Prepared in a Premixed Stagnation Flame. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 21620-21628	3.8	29
102	Combustion kinetic modeling using multispecies time histories in shock-tube oxidation of heptane. <i>Combustion and Flame</i> , 2011 , 158, 645-656	5.3	71
101	An experimental and modeling study of the propagation of cyclohexane and mono-alkylated cyclohexane flames. <i>Proceedings of the Combustion Institute</i> , 2011 , 33, 971-978	5.9	76
100	Evidence of aliphatics in nascent soot particles in premixed ethylene flames. <i>Proceedings of the Combustion Institute</i> , 2011 , 33, 533-540	5.9	63
99	Formation of nascent soot and other condensed-phase materials in flames. <i>Proceedings of the Combustion Institute</i> , 2011 , 33, 41-67	5.9	74 ¹
98	Weakly bound carbon-carbon bonds in acenaphthene derivatives and hexaphenylethane. <i>Journal of Physical Chemistry A</i> , 2010 , 114, 1161-8	2.8	17
97	Products of the benzene + O(3P) reaction. <i>Journal of Physical Chemistry A</i> , 2010 , 114, 3355-70	2.8	75
96	Micro-FTIR study of soot chemical composition-evidence of aliphatic hydrocarbons on nascent soot surfaces. <i>Physical Chemistry Chemical Physics</i> , 2010 , 12, 5206-18	3.6	175
95	Propagation and extinction of premixed C ₅ -12 n-alkane flames. <i>Combustion and Flame</i> , 2010 , 157, 277-283	5.3	264

94	Methane ignition catalyzed by in situ generated palladium nanoparticles. <i>Combustion and Flame</i> , 2010 , 157, 421-435	5.3	34
93	Sensitivity of propagation and extinction of large hydrocarbon flames to fuel diffusion. <i>Proceedings of the Combustion Institute</i> , 2009 , 32, 1157-1163	5.9	85
92	Transport properties of small spherical particles. <i>Annals of the New York Academy of Sciences</i> , 2009 , 1161, 484-93	6.5	8
91	Spectral uncertainty quantification, propagation and optimization of a detailed kinetic model for ethylene combustion. <i>Proceedings of the Combustion Institute</i> , 2009 , 32, 535-542	5.9	133
90	Detailed and simplified kinetic models of n-dodecane oxidation: The role of fuel cracking in aliphatic hydrocarbon combustion. <i>Proceedings of the Combustion Institute</i> , 2009 , 32, 403-410	5.9	154
89	Synthesis of nano-phase TiO ₂ crystalline films over premixed stagnation flames. <i>Proceedings of the Combustion Institute</i> , 2009 , 32, 1839-1845	5.9	48
88	Experimental and modeling study of laminar flame speed and non-premixed counterflow ignition of n-heptane. <i>Proceedings of the Combustion Institute</i> , 2009 , 32, 1245-1252	5.9	77
87	Size distribution and morphology of nascent soot in premixed ethylene flames with and without benzene doping. <i>Proceedings of the Combustion Institute</i> , 2009 , 32, 681-688	5.9	89
86	Quantitative measurement of soot particle size distribution in premixed flames □The burner-stabilized stagnation flame approach. <i>Combustion and Flame</i> , 2009 , 156, 1862-1870	5.3	122
85	Evolution of Soot Particle Size Distribution Function in Burner-Stabilized Stagnation n-Dodecane□oxygen□argon Flames. <i>Energy & Fuels</i> , 2009 , 23, 4286-4294	4.1	27
84	In Situ Generation of Pd/PdO Nanoparticle Methane Combustion Catalyst: Correlation of Particle Surface Chemistry with Ignition. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 20632-20639	3.8	34
83	Hygroscopic behavior of substrate-deposited particles studied by micro-FT-IR spectroscopy and complementary methods of particle analysis. <i>Analytical Chemistry</i> , 2008 , 80, 633-42	7.8	104
82	Kinetics of heterogeneous reaction of CaCO ₃ particles with gaseous HNO ₃ over a wide range of humidity. <i>Journal of Physical Chemistry A</i> , 2008 , 112, 1561-71	2.8	65
81	A Numerical and Analytical Study of Thermally Driven Combustion Oscillations in a Perfectly Stirred Reactor. <i>Journal of Heat Transfer</i> , 2008 , 130,	1.8	5
80	OH production by transient plasma and mechanism of flame ignition and propagation in quiescent methane□air mixtures. <i>Combustion and Flame</i> , 2008 , 154, 715-727	5.3	64
79	On evolution of particle size distribution functions of incipient soot in premixed ethylene□oxygen□argon flames. <i>Combustion and Flame</i> , 2008 , 154, 775-788	5.3	177
78	Kinetic study of heterogeneous reaction of deliquesced NaCl particles with gaseous HNO ₃ using particle-on-substrate stagnation flow reactor approach. <i>Journal of Physical Chemistry A</i> , 2007 , 111, 10026-43	2.8	61
77	Experimental characterization of premixed spherical ethylene/air flames under sooting conditions. <i>Proceedings of the Combustion Institute</i> , 2007 , 31, 1047-1054	5.9	3

76	On existence of nanoparticles below the sooting threshold. <i>Proceedings of the Combustion Institute</i> , 2007 , 31, 639-647	5.9	33
75	Combustion of CO/H ₂ mixtures at elevated pressures. <i>Proceedings of the Combustion Institute</i> , 2007 , 31, 429-437	5.9	67
74	A comparative study of nanoparticles in premixed flames by scanning mobility particle sizer, small angle neutron scattering, and transmission electron microscopy. <i>Proceedings of the Combustion Institute</i> , 2007 , 31, 851-860	5.9	102
73	Reaction kinetics of CO + HO(2) → products: ab initio transition state theory study with master equation modeling. <i>Journal of Physical Chemistry A</i> , 2007 , 111, 4031-42	2.8	82
72	Master equation modeling of wide range temperature and pressure dependence of CO + OH → products. <i>International Journal of Chemical Kinetics</i> , 2006 , 38, 57-73	1.4	98
71	A new approach to determining gas-particle reaction probabilities and application to the heterogeneous reaction of deliquesced sodium chloride particles with gas-phase hydroxyl radicals. <i>Journal of Physical Chemistry A</i> , 2006 , 110, 10619-27	2.8	55
70	Comment on Phenomenological description of mobility of nm- and sub-nm-sized charged aerosol particles in electric field by Shandakov, S. D., Nasibulin, A. G. and Kauppinen, E. I.. <i>Journal of Aerosol Science</i> , 2006 , 37, 111-114	4.3	14
69	Numerical simulation and sensitivity analysis of detailed soot particle size distribution in laminar premixed ethylene flames. <i>Combustion and Flame</i> , 2006 , 145, 117-127	5.3	124
68	First-principle calculation for the high-temperature diffusion coefficients of small pairs: the H ₂ /Ar Case. <i>Combustion Theory and Modelling</i> , 2005 , 9, 353-363	1.5	29
67	Thermal decomposition of ethylene oxide: potential energy surface, master equation analysis, and detailed kinetic modeling. <i>Journal of Physical Chemistry A</i> , 2005 , 109, 8016-27	2.8	33
66	Particle size distribution function of incipient soot in laminar premixed ethylene flames: effect of flame temperature. <i>Proceedings of the Combustion Institute</i> , 2005 , 30, 1441-1448	5.9	133
65	Ultrafine anatase TiO ₂ nanoparticles produced in premixed ethylene stagnation flame at 1atm. <i>Proceedings of the Combustion Institute</i> , 2005 , 30, 2569-2576	5.9	43
64	Burning velocity measurements of microgravity spherical sooting premixed flames using rainbow Schlieren deflectometry. <i>Combustion and Flame</i> , 2005 , 140, 93-102	5.3	9
63	Extinction of premixed H ₂ /air flames: Chemical kinetics and molecular diffusion effects. <i>Combustion and Flame</i> , 2005 , 142, 374-387	5.3	82
62	Chemical species associated with the early stage of soot growth in a laminar premixed ethylene-oxygen-argon flame. <i>Combustion and Flame</i> , 2005 , 142, 364-373	5.3	155
61	An optimized kinetic model of H ₂ /CO combustion. <i>Proceedings of the Combustion Institute</i> , 2005 , 30, 1283-1292	5.9	493
60	Gas-nanoparticle scattering: a molecular view of momentum accommodation function. <i>Physical Review Letters</i> , 2005 , 95, 014502	7.4	56
59	Effect of ferrocene addition on sooting limits in laminar premixed ethylene-oxygen-argon flames. <i>Combustion and Flame</i> , 2004 , 139, 288-299	5.3	52

58	Thermal Stability of Flame-Synthesized Anatase TiO ₂ Nanoparticles. <i>Journal of Physical Chemistry B</i> , 2004 , 108, 17398-17402	3.4	46
57	Thermophoretic force and velocity of nanoparticles in the free molecule regime. <i>Physical Review E</i> , 2004 , 70, 021205	2.4	46
56	A new approach to response surface development for detailed gas-phase and surface reaction kinetic model optimization. <i>International Journal of Chemical Kinetics</i> , 2003 , 36, 94-106	1.4	45
55	Measurement and numerical simulation of soot particle size distribution functions in a laminar premixed ethylene-oxygen-argon flame. <i>Combustion and Flame</i> , 2003 , 133, 173-188	5.3	208
54	Thermodynamic Consistency in Microkinetic Development of Surface Reaction Mechanisms. <i>Journal of Physical Chemistry B</i> , 2003 , 107, 12721-12733	3.4	124
53	Drag force, diffusion coefficient, and electric mobility of small particles. II. Application. <i>Physical Review E</i> , 2003 , 68, 061207	2.4	70
52	Drag force, diffusion coefficient, and electric mobility of small particles. I. Theory applicable to the free-molecule regime. <i>Physical Review E</i> , 2003 , 68, 061206	2.4	97
51	Development of Comprehensive Detailed and Reduced Reaction Mechanisms for Combustion Modeling. <i>AIAA Journal</i> , 2003 , 41, 1629-1646	2.1	95
50	Analysis of Soot Nanoparticles in a Laminar Premixed Ethylene Flame by Scanning Mobility Particle Sizer. <i>Aerosol Science and Technology</i> , 2003 , 37, 611-620	3.4	154
49	A first-principle calculation of the binary diffusion coefficients pertinent to kinetic modeling of hydrogen/oxygen/helium flames. <i>Proceedings of the Combustion Institute</i> , 2002 , 29, 1361-1369	5.9	44
48	Small-angle neutron scattering of soot formed in laminar premixed ethylene flames. <i>Proceedings of the Combustion Institute</i> , 2002 , 29, 2749-2757	5.9	29
47	A computational study of the thermal ionization of soot particles and its effect on their growth in laminar premixed flames. <i>Combustion and Flame</i> , 2002 , 129, 204-216	5.3	48
46	Thermodynamic functions for the cyclopentadienyl radical: The effect of Jahn-Teller distortion. <i>International Journal of Chemical Kinetics</i> , 2001 , 33, 834-845	1.4	35
45	A new mechanism for initiation of free-radical chain reactions during high-temperature, homogeneous oxidation of unsaturated hydrocarbons: Ethylene, propyne, and allene. <i>International Journal of Chemical Kinetics</i> , 2001 , 33, 698-706	1.4	26
44	Particulate Formation and Analysis 2001 , 257-308		
43	Detailed kinetic modeling of 1,3-butadiene oxidation at high temperatures. <i>International Journal of Chemical Kinetics</i> , 2000 , 32, 589-614	1.4	120
42	Effect of transiently bound collision on binary diffusion coefficients of free radical species. <i>Chemical Physics Letters</i> , 2000 , 325, 661-667	2.5	12
41	On unimolecular decomposition of phenyl radical. <i>Proceedings of the Combustion Institute</i> , 2000 , 28, 1545-1553	5.3	38

40	Combustion chemistry of propane: A case study of detailed reaction mechanism optimization. <i>Proceedings of the Combustion Institute</i> , 2000 , 28, 1663-1669	5.9	261
39	On initiation reactions of acetylene oxidation in shock tubes. <i>Chemical Physics Letters</i> , 1999 , 303, 43-49	2.5	65
38	Ignition of ethane, propane, and butane in counterflow jets of cold fuel versus hot air under variable pressures. <i>Combustion and Flame</i> , 1999 , 117, 777-794	5.3	48
37	Binary CF ₃ Br- and CHF ₃ -inert flame suppressants: effect of temperature on the flame inhibition effectiveness of CF ₃ Br and CHF ₃ . <i>Combustion and Flame</i> , 1999 , 118, 489-499	5.3	26
36	Propene pyrolysis and oxidation kinetics in a flow reactor and laminar flames. <i>Combustion and Flame</i> , 1999 , 119, 375-399	5.3	170
35	Propyne Pyrolysis in a Flow Reactor: An Experimental, RRKM, and Detailed Kinetic Modeling Study. <i>Journal of Physical Chemistry A</i> , 1999 , 103, 5889-5899	2.8	108
34	Soot Formation in Counterflow Ethylene Diffusion Flames from 1 to 2.5 Atmospheres. <i>Combustion and Flame</i> , 1998 , 113, 264-270	5.3	18
33	Laminar Burning Velocities of Trifluoromethane-Methane Mixtures: Experiment and Numerical Simulation. <i>Combustion and Flame</i> , 1998 , 114, 457-468	5.3	26
32	Experiments and Numerical Simulation on the Laminar Flame Speeds of Dichloromethane and Trichloromethane. <i>Combustion and Flame</i> , 1998 , 114, 285-293	5.3	25
31	Computational Study on the Thermochemistry of Cyclopentadiene Derivatives and Kinetics of Cyclopentadienone Thermal Decomposition. <i>Journal of Physical Chemistry A</i> , 1998 , 102, 1530-1541	2.8	66
30	Thermochemistry of Benzvalene, Dihydrobenzvalene, and Cubane: A High-Level Computational Study. <i>Journal of Physical Chemistry B</i> , 1997 , 101, 3400-3403	3.4	19
29	On mild and vigorous oxidation of mixtures of chlorinated hydrocarbons in droplet burning. <i>Combustion and Flame</i> , 1997 , 110, 222-238	5.3	10
28	A detailed kinetic modeling study of aromatics formation in laminar premixed acetylene and ethylene flames. <i>Combustion and Flame</i> , 1997 , 110, 173-221	5.3	940
27	Silicon Particle Formation in Pyrolysis of Silane and Disilane. <i>Israel Journal of Chemistry</i> , 1996 , 36, 293-303	3.4	34
26	Ethane oxidation at elevated pressures in the intermediate temperature regime: Experiments and modeling. <i>Combustion and Flame</i> , 1996 , 104, 505-523	5.3	28
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