

Zhen-Yu Tian

List of Publications by Year in descending order

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109
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times ranked

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#	ARTICLE	IF	CITATIONS
1	Oxidative Dehydrogenation of Propane to Olefins Promoted by Zr Modified ZSM-5. <i>Catalysis Letters</i> , 2023, 153, 285-299.	1.4	8
2	Pyrolysis study of N, N-dimethylformamide at low pressure. <i>Journal of Analytical and Applied Pyrolysis</i> , 2022, 162, 105426.	2.6	8
3	Investigation of the Laminar Premixed n-Propylamine Flame. <i>Journal of Thermal Science</i> , 2022, 31, 854-866.	0.9	2
4	Experimental and kinetic study of pyridine oxidation under the fuel-lean condition in a jet-stirred reactor. <i>Combustion and Flame</i> , 2022, 243, 112042.	2.8	6
5	Oxidative Dehydrogenation of Propane into Propene over Chromium Oxides. <i>Industrial & Engineering Chemistry Research</i> , 2022, 61, 4546-4560.	1.8	18
6	M-Emu: A Platform for Multicast Emulation. <i>Electronics (Switzerland)</i> , 2022, 11, 1152.	1.8	0
7	Effect of Thermal Radiation Heat Transfer on the Temperature Measurement by the Thermocouple in Premixed Laminar Flames. <i>Journal of Thermal Science</i> , 2022, 31, 541-551.	0.9	5
8	Pyrolysis of norbornadiene: An experimental and kinetic modeling study. <i>Combustion and Flame</i> , 2022, 242, 112155.	2.8	4
9	A comparative study on the laminar C ₁ –C ₄ n-alkane/NH ₃ premixed flame. <i>Fuel</i> , 2022, 324, 124732.	3.4	15
10	Pyrolysis study of iso-propylamine with SVUV-photoionization molecular-beam mass spectrometry. <i>Combustion and Flame</i> , 2022, 244, 112232.	2.8	6
11	Mechanistic study of the CO oxidation reaction on the CuO (111) surface during chemical looping combustion. <i>Proceedings of the Combustion Institute</i> , 2021, 38, 5289-5297.	2.4	18
12	Catalytic combustion of CO over Cu-doped iron oxides: CO ₂ effects on activity. <i>Fuel</i> , 2021, 289, 119760.	3.4	8
13	A merged kinetic mechanism study of two aviation surrogate fuels. <i>Fuel</i> , 2021, 289, 119767.	3.4	8
14	Understanding the effect of CaO on HCN conversion and NO _x formation during the circulating fluidized combustion process using DFT calculations. <i>Proceedings of the Combustion Institute</i> , 2021, 38, 5355-5362.	2.4	10
15	An experimental investigation of furfural oxidation and the development of a comprehensive combustion model. <i>Combustion and Flame</i> , 2021, 226, 200-210.	2.8	16
16	Influence of Co addition on Ni-Co mixed oxide catalysts toward the deep oxidation of low-rank unsaturated hydrocarbons. <i>Applied Catalysis A: General</i> , 2021, 612, 117990.	2.2	7
17	Insight into one-step synthesis of active amorphous La-Co thin films for catalytic oxidation of CO. <i>Applications in Energy and Combustion Science</i> , 2021, 5, 100021.	0.9	4
18	Pyrolysis study of a three-component surrogate jet fuel. <i>Combustion and Flame</i> , 2021, 226, 190-199.	2.8	13

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19	Ab Initio Calculation of Surface Thermochemistry for Popular Solid Transition Metal-Based Species. ACS Omega, 2021, 6, 22525-22536.	1.6	2
20	Experimental and kinetic modeling study of benzyl alcohol pyrolysis. Combustion and Flame, 2021, 231, 111477.	2.8	4
21	Pyrolysis of 2-methylfuran/jet fuel surrogate blends: An experimental and kinetic modeling study. Combustion and Flame, 2021, 232, 111509.	2.8	3
22	Pyrolysis investigation of n-propylamine with synchrotron photoionization and molecular-beam mass spectrometry. Combustion and Flame, 2021, 232, 111511.	2.8	11
23	CO ₂ effect on catalytic abatement of VOC emissions over Cu-Co binary oxide films. Materials Research Bulletin, 2021, 143, 111456.	2.7	1
24	An experimental and modeling study of oxidation of real RP-3 aviation kerosene. Fuel, 2021, 305, 121476.	3.4	5
25	Role of copper grid mesh in the catalytic oxidation of CO over one-step synthesized Cu-Fe-Co ternary oxides thin film. Chinese Chemical Letters, 2020, 31, 1201-1206.	4.8	17
26	Influence of metakaolinization temperature on the structure and activity of metakaolin supported Ni catalyst in dry methane reforming. Journal of Environmental Chemical Engineering, 2020, 8, 103239.	3.3	9
27	Support effect on the catalytic activity and stability of non-crystal ternary oxides. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2020, 586, 124218.	2.3	6
28	Investigation on the co-combustion mechanism of coal and biomass on a fixed-bed reactor with advanced mass spectrometry. Renewable Energy, 2020, 149, 1068-1076.	4.3	9
29	Pyrolysis study of 1,2,4-trimethylcyclohexane with SVUV-photoionization molecular-beam mass spectrometry. Combustion and Flame, 2020, 219, 449-455.	2.8	4
30	Insights into the role of surface functional species in Cu-Mn-O thin film catalysts for N ₂ O decomposition. Applications in Energy and Combustion Science, 2020, 1-4, 100011.	0.9	1
31	Oxidation study of benzaldehyde with synchrotron photoionization and molecular beam mass spectrometry. Combustion and Flame, 2020, 220, 455-467.	2.8	9
32	Controlled synthesis of γ -Fe ₂ O ₃ @Fe ₃ O ₄ composite catalysts for exhaust gas purification. Proceedings of the Combustion Institute, 2019, 37, 5445-5453.	2.4	15
33	An experimental and modeling study of oxidation of 1,2,4-trimethylcyclohexane with JSR. Proceedings of the Combustion Institute, 2019, 37, 437-444.	2.4	9
34	Enhanced property of thin cuprous oxide film prepared through green synthetic route. Chinese Journal of Chemical Physics, 2019, 32, 365-372.	0.6	8
35	Pyrolysis study of iso-propylbenzene with photoionization and molecular beam mass spectrometry. Combustion and Flame, 2019, 209, 313-321.	2.8	20
36	Combustion study of a surrogate jet fuel. Combustion and Flame, 2019, 202, 252-261.	2.8	37

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37	Cu-Promoted Cobalt Oxide Film Catalyst for Efficient Gas Emissions Abatement. <i>Journal of Thermal Science</i> , 2019, 28, 225-231.	0.9	11
38	A detailed kinetic study on oxidation of benzyl alcohol. <i>Combustion and Flame</i> , 2019, 207, 10-19.	2.8	11
39	Oxidation chemistry of four C ₉ H ₁₂ isomeric transportation fuels: Experimental and modeling studies. <i>Combustion and Flame</i> , 2019, 205, 165-179.	2.8	19
40	Experimental and kinetic investigation of pyrolysis and oxidation of nitromethane. <i>Combustion and Flame</i> , 2019, 203, 247-254.	2.8	31
41	An efficient and innovative catalytic reactor for VOCs emission control. <i>Science Bulletin</i> , 2019, 64, 625-633.	4.3	12
42	Experimental and kinetic study on the low-temperature oxidation of pyridine as a representative of fuel-N compounds. <i>Combustion and Flame</i> , 2019, 202, 394-404.	2.8	35
43	An experimental and modeling study on the low temperature oxidation of surrogate for JP-8 part II: Comparison between neat 1,3,5-trimethylbenzene and its mixture with n-decane. <i>Combustion and Flame</i> , 2018, 192, 517-529.	2.8	13
44	A wide-range experimental and modeling study of oxidation and combustion of n-propylbenzene. <i>Combustion and Flame</i> , 2018, 191, 53-65.	2.8	25
45	An experimental and modeling study on the low temperature oxidation of surrogate for JP-8 part I: Neat 1,3,5-trimethylbenzene. <i>Combustion and Flame</i> , 2018, 192, 507-516.	2.8	18
46	Mechanism of CO Oxidation on Cu ₂ O (111) Surface: A DFT and Microkinetic Study. <i>International Journal of Chemical Kinetics</i> , 2018, 50, 507-514.	1.0	22
47	Combustion characteristics of well-dispersed boron submicroparticles and plasma effect. <i>Combustion and Flame</i> , 2018, 188, 94-103.	2.8	12
48	Particle size-band gap energy-catalytic properties relationship of PSE-CVD-derived Fe ₃ O ₄ thin films. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2018, 93, 427-435.	2.7	42
49	DFT Study on CO Catalytic Oxidation Mechanism on the Defective Cu ₂ O(111) Surface. <i>Journal of Physical Chemistry C</i> , 2018, 122, 16733-16740.	1.5	32
50	Experimental and Modeling Study of Low Temperature Oxidation of Iso-propylbenzene with JSR. <i>Energy & Fuels</i> , 2018, 32, 8781-8788.	2.5	6
51	Experimental and theoretical study on acetone pyrolysis in a jet-stirred reactor. <i>Fuel</i> , 2018, 234, 1380-1387.	3.4	13
52	CVD synthesis of Cu-doped cobalt spinel thin film catalysts for kinetic study of propene oxidation. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2018, 556, 195-200.	2.3	20
53	Facile Synthesis of Efficient Cu-Co-Fe Ternary Oxides by Pulsed-spray Evaporation CVD for CO Oxidation. <i>ES Energy & Environments</i> , 2018, , .	0.5	4
54	Online study on the co-pyrolysis of coal and corn with vacuum ultraviolet photoionization mass spectrometry. <i>Bioresource Technology</i> , 2017, 244, 125-131.	4.8	13

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55	CVD synthesis of cobalt spinel for bio-butanol combustion. Surface and Coatings Technology, 2017, 326, 11-17.	2.2	9
56	Experimental and kinetic investigation of 1,2,4-trimethylbenzene oxidation at low temperature. Proceedings of the Combustion Institute, 2017, 36, 909-917.	2.4	31
57	New insights in the low-temperature oxidation of acetylene. Proceedings of the Combustion Institute, 2017, 36, 355-363.	2.4	43
58	Investigation on the structure stability and catalytic activity of Cu-Co binary oxides. Proceedings of the Combustion Institute, 2017, 36, 4375-4382.	2.4	19
59	<i>In situ</i> Fourier Transform Infrared Spectroscopy Diagnostic for Characterization and Performance Test of Catalysts. Chinese Journal of Chemical Physics, 2017, 30, 513-520.	0.6	3
60	CVD-Made Spinel: Synthesis, Characterization and Applications for Clean Energy. , 2017, , .		1
61	Stainless steel grid mesh-supported CVD made Co ₃ O ₄ thin films for catalytic oxidation of VOCs of olefins type at low temperature. Journal of Industrial and Engineering Chemistry, 2016, 35, 253-261.	2.9	28
62	Innovative CVD synthesis of Cu ₂ O catalysts for CO oxidation. Applied Catalysis B: Environmental, 2016, 186, 10-18.	10.8	67
63	CVD synthesis and catalytic combustion application of chromium oxide films. Physica Status Solidi C: Current Topics in Solid State Physics, 2015, 12, 1001-1005.	0.8	2
64	Cobalt-iron oxides made by CVD for low temperature catalytic application. Physica Status Solidi (A) Applications and Materials Science, 2015, 212, 1508-1513.	0.8	14
65	Tailored synthesis of CoO _X thin films for catalytic application. RSC Advances, 2015, 5, 97272-97278.	1.7	12
66	CVD synthesis of Cu ₂ O films for catalytic application. RSC Advances, 2015, 5, 42477-42481.	1.7	26
67	Low-temperature deep oxidation of olefins and DME over cobalt ferrite. Proceedings of the Combustion Institute, 2015, 35, 2207-2214.	2.4	49
68	Catalytic complete oxidation of acetylene and propene over clay versus cordierite honeycomb monoliths without and with chemical vapor deposited cobalt oxide. Chemical Engineering Journal, 2015, 262, 1252-1259.	6.6	31
69	In situ characterization of Cu-Co oxides for catalytic application. Faraday Discussions, 2015, 177, 249-262.	1.6	54
70	Structure-activity relation of spinel-type Co-Fe oxides for low-temperature CO oxidation. Catalysis Science and Technology, 2014, 4, 3359.	2.1	89
71	Pulsed-spray evaporation CVD synthesis of hematite thin films for catalytic conversion of CO. Surface and Coatings Technology, 2013, 230, 59-65.	2.2	24
72	Facile synthesis of catalytically active copper oxide from pulsed-spray evaporation CVD. Surface and Coatings Technology, 2013, 230, 33-38.	2.2	28

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73	Towards biofuel combustion with an easily extruded clay as a natural catalyst. <i>Applied Energy</i> , 2013, 107, 149-156.	5.1	11
74	Selective synthesis of γ -Fe ₂ O ₃ thin films and effect of the deposition temperature and lattice oxygen on the catalytic combustion of propene. <i>Journal of Materials Chemistry A</i> , 2013, 1, 10495.	5.2	41
75	Structure sensitivity of propene oxidation over Co-Mn spinels. <i>Proceedings of the Combustion Institute</i> , 2013, 34, 2261-2268.	2.4	38
76	Synthesis of the Catalytically Active Mn ₃ O ₄ Spinel and Its Thermal Properties. <i>Journal of Physical Chemistry C</i> , 2013, 117, 6218-6224.	1.5	149
77	Controlled synthesis of Co ₃ O ₄ spinel with Co(acac) ₃ as precursor. <i>RSC Advances</i> , 2012, 2, 10809.	1.7	32
78	Catalytic oxidation of VOCs over mixed Co-Mn oxides. <i>Applied Catalysis B: Environmental</i> , 2012, 117-118, 125-134.	10.8	220
79	An experimental and kinetic investigation of premixed furan/oxygen/argon flames. <i>Combustion and Flame</i> , 2011, 158, 756-773.	2.8	113
80	A detailed kinetic modeling study of toluene oxidation in a premixed laminar flame. <i>Proceedings of the Combustion Institute</i> , 2011, 33, 233-241.	2.4	79
81	A lean methane premixed laminar flame doped with components of diesel fuel part III: Indane and comparison between n-butylbenzene, n-propylcyclohexane and indane. <i>Combustion and Flame</i> , 2010, 157, 1236-1260.	2.8	30
82	Nickel and Nickel-Based Nanoalloy Thin Films from Alcohol-Assisted Chemical Vapor Deposition. <i>Chemistry of Materials</i> , 2010, 22, 92-100.	3.2	44
83	Study of Low-Pressure Premixed Dimethyl Ether/Hydrogen/Oxygen/Argon Laminar Flames with Photoionization Mass Spectrometry. <i>Energy & Fuels</i> , 2010, 24, 1628-1635.	2.5	21
84	An experimental study of the rich premixed ethylbenzene flame at low pressure. <i>Proceedings of the Combustion Institute</i> , 2009, 32, 647-655.	2.4	51
85	An experimental and kinetic modeling study of a premixed nitromethane flame at low pressure. <i>Proceedings of the Combustion Institute</i> , 2009, 32, 311-318.	2.4	70
86	Study of low-pressure premixed laminar n-heptane+propane/oxygen/nitrogen flames. <i>Science Bulletin</i> , 2009, 54, 1477-1486.	4.3	2
87	Study of combustion intermediates in fuel-rich methyl methacrylate flame with tunable synchrotron vacuum ultraviolet photoionization mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2009, 23, 85-92.	0.7	14
88	Identification of intermediates in an n-heptane/oxygen/argon low-pressure premixed laminar flame using synchrotron radiation. <i>Fuel</i> , 2009, 88, 1752-1757.	3.4	12
89	Experiment study of oxygenates impact on n-heptane flames with tunable synchrotron vacuum UV photoionization. <i>Fuel</i> , 2009, 88, 2297-2302.	3.4	19
90	Investigation of the rich premixed laminar acetylene/oxygen/argon flame: Comprehensive flame structure and special concerns of polyynes. <i>Proceedings of the Combustion Institute</i> , 2009, 32, 1293-1300.	2.4	66

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91	An experimental and kinetic modeling study of premixed NH ₃ /CH ₄ /O ₂ /Ar flames at low pressure. <i>Combustion and Flame</i> , 2009, 156, 1413-1426.	2.8	359
92	Effect of the pressure on the catalytic oxidation of volatile organic compounds over Ag/Al ₂ O ₃ catalyst. <i>Applied Catalysis B: Environmental</i> , 2009, 89, 659-664.	10.8	40
93	Experimental Study of a Fuel-Rich Premixed Toluene Flame at Low Pressure. <i>Energy & Fuels</i> , 2009, 23, 1473-1485.	2.5	184
94	The Effects of MTBE/Ethanol Additives on Toxic Species Concentration in Gasoline Flame. <i>Energy & Fuels</i> , 2009, 23, 3543-3548.	2.5	32
95	Catalytic oxidation of hydrocarbons over Co ₃ O ₄ catalyst prepared by CVD. <i>Catalysis Communications</i> , 2009, 11, 118-122.	1.6	53
96	An experimental study of premixed laminar methane/oxygen/argon flames doped with hydrogen at low pressure with synchrotron photoionization. <i>Science Bulletin</i> , 2008, 53, 1262-1269.	4.3	9
97	A comprehensive experimental study of low-pressure premixed C ₃ -oxygenated hydrocarbon flames with tunable synchrotron photoionization. <i>Combustion and Flame</i> , 2008, 152, 336-359.	2.8	87
98	Identification of Combustion Intermediates in Low-Pressure Premixed Pyridine/Oxygen/Argon Flames. <i>Journal of Physical Chemistry A</i> , 2008, 112, 13549-13555.	1.1	31
99	Interstellar Enols Are Formed in Plasma Discharges of Alcohols. <i>Astrophysical Journal</i> , 2008, 676, 416-419.	1.6	32
100	Low temperature plasma diagnostics with tunable synchrotron vacuum ultraviolet photoionization mass spectrometry. <i>Review of Scientific Instruments</i> , 2008, 79, 103504.	0.6	13
101	Identification and Chemistry of Phenylnitrene in Premixed Pyridine/Oxygen/Argon Flame with Tunable Synchrotron Photoionization. <i>Chinese Journal of Chemical Physics</i> , 2007, 20, 425-430.	0.6	8
102	Study on combustion of gasoline/MTBE in laminar flame with synchrotron radiation. <i>Chemosphere</i> , 2007, 67, 2065-2071.	4.2	11
103	An Experimental Study of Rich Premixed Gasoline/O ₂ /Ar Flame with Tunable Synchrotron Vacuum Ultraviolet Photoionization. <i>Energy & Fuels</i> , 2007, 21, 1931-1941.	2.5	25
104	An experimental study of low-pressure premixed pyrrole/oxygen/argon flames with tunable synchrotron photoionization. <i>Combustion and Flame</i> , 2007, 151, 347-365.	2.8	52
105	The tunable VUV single-photon ionization mass spectrometry for the analysis of individual components in gasoline. <i>International Journal of Mass Spectrometry</i> , 2007, 263, 30-37.	0.7	36
106	An experimental study of the premixed benzene/oxygen/argon flame with tunable synchrotron photoionization. <i>Proceedings of the Combustion Institute</i> , 2007, 31, 555-563.	2.4	131
107	Identifying combustion intermediates in premixed MTBE/gasoline/oxygen flame probed via synchrotron radiation. <i>Frontiers of Energy and Power Engineering in China</i> , 2007, 1, 79-84.	0.4	0
108	Identification of combustion intermediates in isomeric fuel-rich premixed butanol-oxygen flames at low pressure. <i>Combustion and Flame</i> , 2007, 148, 198-209.	2.8	189

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109	Experimental Study of Premixed Stoichiometric Ethylene/Oxygen/Argon Flame. Chinese Journal of Chemical Physics, 2006, 19, 379-385.	0.6	5