Ai-Min Zhu

List of Publications by Year
in descending order

158 papers	5,112 citations	66315 42 h-index	114418 63 g-index
159 all docs	159 docs citations	159 times ranked	4323 citing authors

#	Article	IF	Citations
1	Boosting low-temperature water gas shift reaction over Au/TiO2 nanocatalyst activated by oxygen plasma. Chemical Engineering Journal, 2022, 430, 133013.	6.6	17
2	Plasma catalytic removal of VOCs using cycled storage-discharge (CSD) mode: An assessment methodology based on toluene for reaction kinetics and intermediates. Chemical Engineering Journal, 2022, 433, 134338.	6.6	11
3	Realâ€time measurement of axial temperature in a coaxial dielectric barrier discharge reactor and synergistic effect evaluation for inâ€plasma catalytic CO₂ reduction. Plasma Processes and Polymers, 2022, 19, .	1.6	6
4	Semi-transparent nanofilms of plasmonic Au/TiO2 for visible-light photocatalysis. Materials Chemistry and Physics, 2022, 280, 125773.	2.0	7
5	TiO2-supported Au-Ag plasmonic nanocatalysts achieved by plasma restructuring and activation. Journal of Hazardous Materials, 2021, 402, 123508.	6.5	14
6	Caudal autotomy and regeneration of arc in a 3D gliding arc discharge plasma. Journal Physics D: Applied Physics, 2021, 54, 305203.	1.3	4
7	Mesoporous TiO₂ electrocatalysts synthesized by gliding arc plasma for oxygen evolution reaction. Journal Physics D: Applied Physics, 2021, 54, 484003.	1.3	2
8	Understanding arc behaviors and achieving the optimal mode in a magnetically-driven gliding arc plasma. Plasma Sources Science and Technology, 2020, 29, 015022.	1.3	5
9	Evaluation of plasma-derived heat and synergistic effect for in-plasma catalytic steam reforming of methanol. Journal Physics D: Applied Physics, 2020, 53, 104003.	1.3	6
10	Synergy between Î²-Mo2C Nanorods and Non-thermal Plasma for Selective CO2 Reduction to CO. CheM, 2020, 6, 3312-3328.	5.8	47
11	Disclosure of water roles in gliding arc plasma reforming of methanol for hydrogen production. Plasma Processes and Polymers, 2020, 17, 2000069.	1.6	12
12	CO₂ conversion, utilisation and valorisation in gliding arc plasma reactors. Journal Physics D: Applied Physics, 2020, 53, 253001.	1.3	28
13	Warm-plasma catalytic reduction of CO2 with CH4. Catalysis Today, 2019, 330, 54-60.	2.2	19
14	A promising visible-light photocatalyst: H2 plasma-activated amorphous-TiO2-supported Au nanoparticles. Journal of Catalysis, 2019, 375, 380-388.	3.1	25
15	Catalytic Materials for Low Concentration VOCs Removal through â€œStorageâ€Regenerationâ€•Cycling. ChemCatChem, 2019, 11, 3646-3661.	1.8	23
16	Plasma catalytic steam methane reforming for distributed hydrogen production. Catalysis Today, 2019, 337, 69-75.	2.2	21
17	Insight into gliding arc (GA) plasma reduction of CO₂ with H₂: GA characteristics and reaction mechanism. Journal Physics D: Applied Physics, 2019, 52, 284001.	1.3	9
18	Plasma chain catalytic reforming of methanol for on-board hydrogen production. Chemical Engineering Journal, 2019, 369, 245-252.	6.6	52

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19	Plasma-promoted Au/TiO2 nanocatalysts for photocatalytic formaldehyde oxidation under visible-light irradiation. Catalysis Today, 2019, 337, 132-138.	2.2	39
20	Methanol steam reforming by heat-insulated warm plasma catalysis for efficient hydrogen production. Catalysis Today, 2019, 337, 76-82.	2.2	22
21	Plasmochemical Approach to Templateâ€Free Synthesis of Highly Crystalline Mesoporous TiO₂ within Milliseconds. ChemNanoMat, 2019, 5, 403-406.	1.5	5
22	Enhanced effect of a plasmaâ€irradiated titanium substrate on the photocatalytic activity of a TiO₂ film. Plasma Processes and Polymers, 2018, 15, 1700223.	1.6	3
23	Novel power-to-syngas concept for plasma catalytic reforming coupled with water electrolysis. Chemical Engineering Journal, 2018, 353, 297-304.	6.6	34
24	Effect of ammoniaâ€derived species on visibleâ€light photocatalytic activity of Au supported on amorphous TiO₂ activated by plasma. Plasma Processes and Polymers, 2018, 15, 1800095.	1.6	9
25	Kinetic study on visible-light photocatalytic removal of formaldehyde from air over plasmonic Au/TiO 2. Catalysis Today, 2017, 281, 630-635.	2.2	48
26	High-efficiency non-thermal plasma-catalysis of cobalt incorporated mesoporous MCM-41 for toluene removal. Catalysis Today, 2017, 281, 527-533.	2.2	64
27	Enhanced effect of plasma on catalytic reduction of CO 2 to CO with hydrogen over Au/CeO 2 at low temperature. Journal of Energy Chemistry, 2017, 26, 488-493.	7.1	33
28	In Situ Regeneration of Au Nanocatalysts by Atmospheric-Pressure Air Plasma: Regeneration Characteristics of Square-Wave Pulsed Plasma. Topics in Catalysis, 2017, 60, 914-924.	1.3	17
29	Oxidative pyrolysis reforming of methanol in warm plasma for an on-board hydrogen production. International Journal of Hydrogen Energy, 2017, 42, 13617-13624.	3.8	30
30	A novel process of ozone catalytic oxidation for low concentration formaldehyde removal. Chinese Journal of Catalysis, 2017, 38, 1759-1769.	6.9	38
31	Photocatalytic Formaldehyde Oxidation over Plasmonic Au/TiO₂ under Visible Light: Moisture Indispensability and Light Enhancement. ACS Catalysis, 2017, 7, 6514-6524.	5.5	121
32	â€œStorage-oxidationâ€•cycling process for indoor benzene removal at room temperature. Catalysis Today, 2017, 297, 193-200.	2.2	10
33	Dimensionless factors for an alternating-current non-thermal arc plasma. Physics of Plasmas, 2016, 23, 120707.	0.7	5
34	Selective reduction of carbon dioxide to carbon monoxide over Au/CeO2 catalyst and identification of reaction intermediate. Chinese Journal of Catalysis, 2016, 37, 2053-2058.	6.9	17
35	Exceptional activity for photocatalytic mineralization of formaldehyde over amorphous titania nanofilms. Chemical Engineering Journal, 2016, 306, 1001-1009.	6.6	18
36	Gold stabilized on various oxide supports catalyzing formaldehyde oxidation at room temperature. Chinese Journal of Catalysis, 2016, 37, 1729-1737.	6.9	31

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37	In situ FT-IR study and evaluation of toluene abatement in different plasma catalytic systems over metal oxides loaded Î³-Al2O3. Catalysis Communications, 2016, 84, 61-66.	1.6	63
38	Warm plasma catalytic reforming of biogas in a heat-insulated reactor: Dramatic energy efficiency and catalyst auto-reduction. Chemical Engineering Journal, 2016, 288, 671-679.	6.6	57
39	Visible-light photocatalytic oxidation of CO over plasmonic Au/TiO 2 : Unusual features of oxygen plasma activation. Applied Catalysis B: Environmental, 2016, 188, 48-55.	10.8	75
40	Cycled storage-discharge (CSD) plasma catalytic removal of benzene over AgMn/HZSM-5 using air as discharge gas. Catalysis Science and Technology, 2016, 6, 3788-3796.	2.1	21
41	Gliding Arc Plasma Synthesis of Visibleâ€Light Active Câ€Doped Titania Photocatalysts. Plasma Processes and Polymers, 2015, 12, 422-430.	1.6	16
42	Ozone catalytic oxidation for ammonia removal from simulated air at room temperature. Catalysis Science and Technology, 2015, 5, 2227-2237.	2.1	5
43	Inherent rate constants and humidity impact factors of anatase TiO 2 film in photocatalytic removal of formaldehyde from air. Chemical Engineering Journal, 2015, 279, 897-903.	6.6	59
44	Atmospheric-pressure O2 plasma treatment of Au/TiO2 catalysts for CO oxidation. Catalysis Today, 2015, 256, 142-147.	2.2	49
45	An energy-efficient catalytic process for the tandem removal of formaldehyde and benzene by metal/HZSM-5 catalysts. Catalysis Science and Technology, 2015, 5, 4968-4972.	2.1	13
46	An investigation of Ar metastable state density in low pressure dual-frequency capacitively coupled argon and argon-diluted plasmas. Journal of Applied Physics, 2015, 117, .	1.1	5
47	Radio-frequency H2 plasma treatment of AuPd/TiO2 catalyst for selective hydrogenation of acetylene in excess ethylene. Catalysis Today, 2015, 256, 161-169.	2.2	44
48	In-situ regeneration of Au nanocatalysts by atmospheric-pressure air plasma: Significant contribution of water vapor. Applied Catalysis B: Environmental, 2015, 179, 69-77.	10.8	44
49	Post-plasma catalytic oxidative CO2 reforming of methane over Ni-based catalysts. Catalysis Today, 2015, 256, 96-101.	2.2	19
50	Kinetics study on carbon dioxide reforming of methane in kilohertz spark-discharge plasma. Chemical Engineering Journal, 2015, 264, 445-452.	6.6	45
51	Absolute CF2 density and gas temperature measurements by absorption spectroscopy in dual-frequency capacitively coupled CF4/Ar plasmas. Physics of Plasmas, 2014, 21, 103501.	0.7	10
52	Temporal evolution characteristics of an annular-mode gliding arc discharge in a vortex flow. Physics of Plasmas, 2014, 21, 053507.	0.7	30
53	Ozone catalytic oxidation of adsorbed benzene over AgMn/HZSM-5 catalysts at room temperature. Catalysis Science and Technology, 2014, 4, 2589-2598.	2.1	35
54	Dynamic Evolution of 50-Hz Rotating Gliding Arc Discharge in a Vortex Air Flow. IEEE Transactions on Plasma Science, 2014, 42, 2704-2705.	0.6	6

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55	Ozone catalytic oxidation of benzene over AgMn/HZSM-5 catalysts at room temperature: Effects of Mn loading and water content. Chinese Journal of Catalysis, 2014, 35, 1465-1474.	6.9	34
56	CO Oxidation Activity at Room Temperature over Au/CeO₂ Catalysts: Disclosure of Induction Period and Humidity Effect. ACS Catalysis, 2014, 4, 3481-3489.	5.5	125
57	Facile and Fast Deposition of Amorphous Ti<scp>O</scp>₂ Film under Atmospheric Pressure and at Room Temperature, and its High Photocatalytic Activity under <scp>UV</scp>â€<scp>C</scp> Light. Chemical Vapor Deposition, 2014, 20, 8-13.	1.4	22
58	Low-temperature steam reforming of methanol to produce hydrogen over various metal-doped molybdenum carbide catalysts. International Journal of Hydrogen Energy, 2014, 39, 258-266.	3.8	116
59	Effect of CO2/CH4 ratio on biogas reforming with added O2 through an unique spark-shade plasma. International Journal of Hydrogen Energy, 2014, 39, 13902-13908.	3.8	20
60	A comparative study of the catalytic oxidation of HCHO and CO over Mn0.75Co2.25O4 catalyst: The effect of moisture. Applied Catalysis B: Environmental, 2014, 160-161, 542-551.	10.8	85
61	Gliding Arc Plasma Synthesis of Crystalline TiO2 Nanopowders with High Photocatalytic Activity. Plasma Chemistry and Plasma Processing, 2013, 33, 827-838.	1.1	16
62	Improved Double-Probe Technique for Spatially Resolved Diagnosis of Dual-Frequency Capacitive Plasmas. Plasma Science and Technology, 2013, 15, 511-515.	0.7	7
63	Steam reforming of tar derived from lignin over pompom-like potassium-promoted iron-based catalysts formed on calcined scallop shell. Bioresource Technology, 2013, 139, 280-284.	4.8	25
64	Renewable and high-concentration syngas production from oxidative reforming of simulated biogas with low energy cost in a plasma shade. Chemical Engineering Journal, 2013, 234, 240-246.	6.6	29
65	Effect of O2/CH4 ratio on the optimal specific-energy-input (SEI) for oxidative reforming of biogas in a plasma-shade reactor. Journal of Energy Chemistry, 2013, 22, 681-684.	7.1	15
66	Determination of vibrational and rotational temperatures in a gliding arc discharge by using overlapped molecular emission spectra. Journal Physics D: Applied Physics, 2013, 46, 345201.	1.3	49
67	A study of the mechanism of low-temperature SCR of NO with NH3 on MnOx/CeO2. Journal of Molecular Catalysis A, 2013, 378, 82-90.	4.8	108
68	Non-thermal plasma-assisted NOx storage and reduction on a LaMn0.9Fe0.1O3 perovskite catalyst. Catalysis Today, 2013, 211, 96-103.	2.2	44
69	Catalytic removal of formaldehyde at room temperature over supported gold catalysts. Applied Catalysis B: Environmental, 2013, 132-133, 245-255.	10.8	212
70	Three-dimensional ordered mesoporous Coâ€“Mn oxide: A highly active catalyst for â€œstorageâ€“oxidationâ€•cycling for the removal of formaldehyde. Catalysis Communications, 2013, 36, 52-57.	1.6	71
71	Spectroscopy diagnostic of dual-frequency capacitively coupled CHF3/Ar plasma. Physics of Plasmas, 2013, 20, .	0.7	4
72	Tuning Effect of N₂on Atmospheric-Pressure Cold Plasma CVD of TiO₂Photocatalytic Films. Plasma Science and Technology, 2013, 15, 64-69.	0.7	10

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73	Determination of Plasma Parameters in a Dual-Frequency Capacitively Coupled CF₄Plasma Using Optical Emission Spectroscopy. Plasma Science and Technology, 2013, 15, 885-890.	0.7	2
74	Diagnosis of Emission Spectra on Chemical Vapor Deposition of TiO₂ System with Atmospheric-Pressure Radio Frequency Plasma. Wuli Huaxue Xuebao/ Acta Physico - Chimica Sinica, 2013, 29, 625-630.	2.2	1
75	Phase resolved optical emission spectroscopy of dual frequency capacitively coupled plasma. Wuli Xuebao/Acta Physica Sinica, 2013, 62, 205208.	0.2	1
76	Regeneration of deactivated Au/TiO<inf>2</inf> nanocatalysts during co oxidation by using in-situ O<inf>2</inf> and N<inf>2</inf>/O<inf>2</inf> plasma. , 2012, , .		0
77	Atmospheric-pressure cold plasma for one-step deposition of TiO<inf>2</inf> photocatalytic films. , 2012, , .		0
78	Uniformity, Structure, and Photocatalytic Activity of TiO₂ Films Deposited by Atmosphericâ€Pressure Linear Cold Plasma. Chemical Vapor Deposition, 2012, 18, 309-314.	1.4	13
79	MnxCo3â^'xO4 solid solution as high-efficient catalysts for low-temperature oxidation of formaldehyde. Catalysis Communications, 2012, 28, 18-22.	1.6	130
80	Copper Oxide Clusters Stabilized by Ceria for CO, C3H6, and NO Abatement. Chinese Journal of Catalysis, 2012, 33, 1455-1462.	6.9	9
81	Ni-modified Mo2C catalysts for methane dry reforming. Applied Catalysis A: General, 2012, 431-432, 164-170.	2.2	114
82	Catalytic formaldehyde removal by â€œstorage-oxidationâ€•cycling process over supported silver catalysts. Chemical Engineering Journal, 2012, 200-202, 729-737.	6.6	94
83	Ozone Catalytic Oxidation of HCHO in Air over MnOx at Room Temperature. Chinese Journal of Catalysis, 2012, 33, 396-401.	6.9	29
84	Optimized mixed reforming of biogas with O2 addition in spark-discharge plasma. International Journal of Hydrogen Energy, 2012, 37, 16916-16924.	3.8	24
85	Enhanced effect of water vapor on complete oxidation of formaldehyde in air with ozone over MnOx catalysts at room temperature. Journal of Hazardous Materials, 2012, 239-240, 362-369.	6.5	111
86	Nonâ€thermal Effect of Atmosphericâ€Pressure RF Cold Plasma on Photocatalytic Activity of Asâ€deposited TiO₂ Film. Chemical Vapor Deposition, 2012, 18, 121-125.	1.4	11
87	Pressurization effect on dry reforming of biogas in kilohertz spark-discharge plasma. International Journal of Hydrogen Energy, 2012, 37, 4945-4954.	3.8	60
88	In-situ plasma regeneration of deactivated Au/TiO2 nanocatalysts during CO oxidation and effect of N2 content. Applied Catalysis B: Environmental, 2012, 119-120, 49-55.	10.8	43
89	Plasma Uniformity in a Dual Frequency Capacitively Coupled Plasma Reactor Measured by Optical Emission Spectroscopy. Plasma Science and Technology, 2011, 13, 61-67.	0.7	8
90	In-situ synthesis of nickel modified molybdenum carbide catalyst for dry reforming of methane. Catalysis Communications, 2011, 12, 803-807.	1.6	78

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91	Enhanced Low-Temperature Activity of Ag-Promoted Co-ZSM-5 for the CH4-SCR of NO. Catalysis Letters, 2011, 141, 207-212.	1.4	7
92	Plasma Catalytic Oxidation of Stored Benzene in a Cycled Storage-Discharge (CSD) Process: Catalysts, Reactors and Operation Conditions. Plasma Chemistry and Plasma Processing, 2011, 31, 799-810.	1.1	26
93	Carbon dioxide reforming of methane in kilohertz sparkâ€discharge plasma at atmospheric pressure. AICHE Journal, 2011, 57, 2854-2860.	1.8	48
94	Low-concentration formaldehyde removal from air using a cycled storageâ€“discharge (CSD) plasma catalytic process. Chemical Engineering Science, 2011, 66, 3922-3929.	1.9	133
95	A Green Process for High-Concentration Ethylene and Hydrogen Production from Methane in a Plasma-Followed-by-Catalyst Reactor. Plasma Science and Technology, 2011, 13, 77-81.	0.7	10
96	Polysilicon Prepared from SiCl4by Atmospheric-Pressure Non-Thermal Plasma. Plasma Science and Technology, 2011, 13, 567-570.	0.7	1
97	The Role of Active Sites of CoH-ZSM-5 Catalysts for the C2H4-SCR of NO. Catalysis Letters, 2010, 135, 182-189.	1.4	4
98	Conversion of greenhouse gases into syngas via combined effects of discharge activation and catalysis. Chemical Engineering Journal, 2010, 156, 601-606.	6.6	131
99	Measurement of OH Radicals in Dielectric Barrier Discharge Plasmas by Cavity Ring-Down Spectroscopy. Plasma Science and Technology, 2010, 12, 166-171.	0.7	11
100	A Carbide Catalyst Effective for the Dry Reforming of Methane at Atmospheric Pressure. ACS Symposium Series, 2010, , 181-196.	0.5	7
101	Experimental investigation of ion energy distributions in a dual frequency capacitively coupled Ar/CF4 plasma. Physics of Plasmas, 2010, 17, 033501.	0.7	18
102	EXPERIMENTAL STUDY OF SPATIAL NON-UNIFORMITIES IN A DUAL FREQUENCY CAPACITIVELY COUPLED PLASMA. Modern Physics Letters B, 2009, 23, 3409-3417.	1.0	10
103	Influence of the low-frequency source parameters on the plasma characteristics in a dual frequency capacitively coupled plasma reactor: Two dimensional simulations. Progress in Natural Science: Materials International, 2009, 19, 677-684.	1.8	14
104	The Nature of Active Sites of Co/Al2O3 for the Selective Catalytic Reduction of NO with C2H4. Catalysis Letters, 2009, 133, 134-141.	1.4	3
105	Redox Properties of Cobalt Nitrides for NO Dissociation and Reduction. Catalysis Letters, 2009, 130, 63-71.	1.4	17
106	Low-temperature NO x Selective Reduction by Hydrocarbons on H-Mordenite Catalysts in Dielectric Barrier Discharge Plasma. Plasma Chemistry and Plasma Processing, 2009, 29, 43-53.	1.1	13
107	Methane conversion in low-temperature plasma. High Energy Chemistry, 2009, 43, 156-162.	0.2	31
108	In situ DRIFTS study during C2H4-SCR of NO over Co-ZSM-5. Journal of Molecular Catalysis A, 2009, 312, 31-39.	4.8	19

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109	A combined DRIFTS and MS study on reaction mechanism of NO reduction by CO over NiO/CeO2 catalyst. Applied Catalysis B: Environmental, 2009, 90, 395-404.	10.8	47
110	High-efficiency plasma catalytic removal of dilute benzene from air. Journal Physics D: Applied Physics, 2009, 42, 225105.	1.3	49
111	In situ DRIFTS study on the partial oxidation of ethylene over Co-ZSM-5 catalyst. Catalysis Communications, 2009, 10, 428-432.	1.6	13
112	Atmospheric-pressure plasma CVD of TiO₂photocatalytic films using surface dielectric barrier discharge. Journal Physics D: Applied Physics, 2009, 42, 032001.	1.3	41
113	Catalytic reduction of NO by CO over NiO/CeO2 catalyst in stoichiometric NO/CO and NO/CO/O2 reaction. Applied Catalysis B: Environmental, 2008, 81, 141-149.	10.8	136
114	Diagnosis of negative hydrogen ions and rovibrational distribution of H2 molecule in non-thermal plasmas. European Physical Journal D, 2008, 46, 103-109.	0.6	3
115	Determination of the OH radical in atmospheric pressure dielectric barrier discharge plasmas using near infrared cavity ring-down spectroscopy. European Physical Journal D, 2008, 48, 365-373.	0.6	32
116	Stable kilohertz spark discharges for high-efficiency conversion of methane to hydrogen and acetylene. Journal Physics D: Applied Physics, 2008, 41, 175203.	1.3	28
117	Oxygen-Free Conversion of Methane to Ethylene in a Plasma-Followed-by-Catalyst (PFC) Reactor. Plasma Science and Technology, 2008, 10, 600-604.	0.7	6
118	Determination of the HO₂radical in dielectric barrier discharge plasmas using near-infrared cavity ring-down spectroscopy. Journal Physics D: Applied Physics, 2008, 41, 045203.	1.3	9
119	Modulating effects of the low-frequency source on ion energy distributions in a dual frequency capacitively coupled plasma. Applied Physics Letters, 2008, 93, 031504.	1.5	42
120	Numerical Simulation ofÂ·OH and HO₂Â· Radicals in Dielectric Barrier Discharge Plasmas. Wuli Huaxue Xuebao/ Acta Physico - Chimica Sinica, 2008, 24, 1400-1404.	2.2	2
121	Determination of atomic hydrogen density in non-thermal hydrogen plasmas via emission actinometry. Journal Physics D: Applied Physics, 2007, 40, 4185-4191.	1.3	7
122	Observations of long-lived Hâ^'2and Dâ^'2ions from non-thermal plasmas. Journal of Physics B: Atomic, Molecular and Optical Physics, 2007, 40, 921-933.	0.6	4
123	Plasma oxidation for achieving supported TiO2photocatalysts derived from adsorbed TiCl4using dielectric barrier discharge. Journal Physics D: Applied Physics, 2007, 40, 1763-1768.	1.3	15
124	A process for a high yield of aromatics from the oxygen-free conversion of methane: combining plasma with Ni/HZSM-5 catalysts. Green Chemistry, 2007, 9, 647.	4.6	21
125	Catalytic performance of Agâ€“Co/CeO2 catalyst in NOâ€“CO and NOâ€“COâ€“O2 system. Catalysis Communications, 2007, 8, 612-618.	1.6	25
126	Crystalline, Uniform-Sized TiO2 Nanosphere Films by a Novel Plasma CVD Process at Atmospheric Pressure and Room Temperature. Chemical Vapor Deposition, 2007, 13, 141-144.	1.4	23

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127	Synthesis, characterization and activity of alumina-supported cobalt nitride for NO decomposition. Journal of Solid State Chemistry, 2007, 180, 2635-2640.	1.4	59
128	Pulsed Streamer Discharge Plasma over Ni/HZSM-5 Catalysts for Methane Conversion to Aromatics at Atmospheric Pressure. Plasma Processes and Polymers, 2007, 4, 15-18.	1.6	13
129	Atmospheric Cold Plasmas for Synthesizing Nanocrystalline Anatase TiO₂ using Dielectric Barrier Discharges. Plasma Processes and Polymers, 2007, 4, 574-582.	1.6	33
130	The reactions and composition of the surface intermediate species in the selective catalytic reduction of NO x with ethylene over Co-ZSM-5. Research on Chemical Intermediates, 2007, 33, 549-566.	1.3	5
131	Chemical Kinetics of the Removal of Formaldehyde in Dielectric Barrier Discharges. Wuli Huaxue Xuebao/ Acta Physico - Chimica Sinica, 2007, 23, 1425-1431.	2.2	3
132	Low-temperature plasma-catalytic oxidation of formaldehyde in atmospheric pressure gas streams. Journal Physics D: Applied Physics, 2006, 39, 3603-3608.	1.3	54
133	Plasma-assisted selective catalytic reduction of NO by C2H2 over Co-HZSM-5 catalyst. Catalysis Communications, 2006, 7, 297-301.	1.6	61
134	High yield of aromatics from CH4in a plasma-followed-by-catalyst (PFC) reactor. AICHE Journal, 2006, 52, 3321-3324.	1.8	6
135	Selective catalytic reduction of NOxin dielectric barrier discharge plasmas. EPJ Applied Physics, 2005, 30, 129-133.	0.3	6
136	Catalytic activities and surface properties of zeolite-supported molybdenum nitrides for NO reduction with H2. Applied Catalysis A: General, 2005, 293, 83-90.	2.2	21
137	Conversion of NO in NO/N2, NO/O2/N2, NO/C2H4/N2 and NO/C2H4/O2/N2 Systems by Dielectric Barrier Discharge Plasmas. Plasma Chemistry and Plasma Processing, 2005, 25, 371-386.	1.1	56
138	Determination of atomic hydrogen in non-thermal hydrogen plasmas by means of molecular beam threshold ionization mass spectrometry. Rapid Communications in Mass Spectrometry, 2005, 19, 1159-1166.	0.7	9
139	Removal of formaldehyde from gas streams via packed-bed dielectric barrier discharge plasmas. Journal Physics D: Applied Physics, 2005, 38, 4160-4167.	1.3	76
140	Diagnosis of hydrogen anions (Hâ^',H3â^') from the near-electrode region of dielectric-barrier-discharge plasmas. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2005, 23, 142-145.	0.9	0
141	Atomic hydrogen determination in medium-pressure microwave discharge hydrogen plasmas via emission actinometry. Plasma Sources Science and Technology, 2005, 14, 76-82.	1.3	21
142	Optical Emission Spectroscopy Diagnosis on Decomposition of NO in NO/N2 Mixtures in Dielectric Barrier Discharge Plasma. Wuli Huaxue Xuebao/ Acta Physico - Chimica Sinica, 2005, 21, 1352-1356.	2.2	8
143	Plasma-induced Conversion of Nitrogen Oxides in a Dielectric Barrier Discharge Reactor. Wuli Huaxue Xuebao/ Acta Physico - Chimica Sinica, 2005, 21, 192-196.	2.2	1
144	Diagnosis of hydrogen ions (H+, , , HÂ) from the near-electrode region of dielectric barrier discharge plasmas. Journal Physics D: Applied Physics, 2004, 37, 1185-1189.	1.3	8

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145	NO Reduction with Hydrogen over Cobalt Molybdenum Nitride and Molybdenum Nitride: A Comparison Study. Catalysis Letters, 2004, 97, 9-16.	1.4	27
146	On the catalytic nature of VN, Mo2N, and W2N nitrides for NO reduction with hydrogen. Applied Catalysis A: General, 2004, 276, 223-230.	2.2	70
147	Oxidative dehydrogenation of ethane with CO2 over catalyst under pulse corona plasma. Catalysis Today, 2004, 89, 97-102.	2.2	31
148	Catalytic activities of tungsten nitride for NO dissociation and reduction with hydrogen. Catalysis Today, 2004, 93-95, 819-826.	2.2	25
149	Methane conversion to C2 hydrocarbons and hydrogen in atmospheric non-thermal plasmas generated by different electric discharge techniques. Catalysis Today, 2004, 98, 617-624.	2.2	113
150	Observations of H3â^' and D3â^' from dielectric barrier discharge plasmas. Chemical Physics Letters, 2003, 377, 512-518.	1.2	42
151	Formation of NOx from N2 and O2 in catalyst-pellet filled dielectric barrier discharges at atmospheric pressure. Chemical Communications, 2003, , 1418.	2.2	42
152	Diagnosis of dielectric barrier discharge CH4 plasmas for diamond-like carbon film deposition. Diamond and Related Materials, 2002, 11, 1491-1495.	1.8	35
153	?Beyond-thermal-equilibrium? conversion of methane to acetylene and hydrogen under pulsed corona discharge. Science in China Series B: Chemistry, 2002, 45, 426.	0.8	15
154	The simultaneous activation of methane and carbon dioxide to C2 hydrocarbons under pulse corona plasma over La2O3/Î³-Al2O3 catalyst. Catalysis Today, 2002, 72, 223-227.	2.2	62
155	Combination of CH4 oxidative coupling reaction with C2H6 oxidative dehydrogenation by CO2 to C2H4. Fuel, 2002, 81, 1593-1597.	3.4	7
156	Coupling of methane under pulse corona plasma (I). Science in China Series B: Chemistry, 2000, 43, 208-214.	0.8	28
157	Study on Coupling of Methane under Pulse Corona Plasma in the Presence of Oxygen. Wuli Huaxue Xuebao/ Acta Physico - Chimica Sinica, 2000, 16, 839-843.	2.2	1
158	Preparation of TiO_x/Î³-Al₂O₃Catalyst on Powdery Î³-Al₂O₃by Using Reactive Sputtering Deposition. Chinese Physics Letters, 1999, 16, 426-427.	1.3	0