Moo Been Chang

List of Publications by Year
in descending order

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		81900	114465
136	4,846	39	63
papers	citations	h-index	g-index

136	136	136	3596
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Condensable and filterable particulate matter emission of coal fired boilers and characteristics of PM2.5-bound polycyclic aromatic hydrocarbons in the vicinity. Fuel, 2022, 308, 121833.	6.4	6
2	Transformation of mono- to octa- chlorinated dibenzo-p-dioxins and dibenzofurans in MWI fly ash during catalytic pyrolysis process. Chemical Engineering Journal, 2022, 427, 130907.	12.7	6
3	Characteristics of PM and PAHs emitted from a coal-fired boiler and the efficiencies of its air pollution control devices. Journal of the Air and Waste Management Association, 2022, 72, 85-97.	1.9	7
4	Characteristics of polycyclic aromatic hydrocarbons in ambient air of a tropical mega-area, Ho Chi Minh City, Vietnam: concentration, distribution, gas/particle partitioning, potential sources and cancer risk assessment. Environmental Science and Pollution Research, 2022, 29, 44054-44066.	5.3	4
5	Catalytic pyrolysis: New approach for destruction of POPs in MWIs fly ash. Chemical Engineering Journal, 2021, 405, 126718.	12.7	24
6	Characterization of PM, PAHs and Gaseous Pollutants Emitted from Sintering Process and Electric Arc Furnace. Aerosol and Air Quality Research, 2021, 21, 210140.	2.1	3
7	Characteristics of PCDD/Fs in PM2.5 from emission stacks and the nearby ambient air in Taiwan. Scientific Reports, 2021, 11, 8093.	3.3	3
8	Application of plasma catalysis system for C4F8 removal. Environmental Science and Pollution Research, 2021, 28, 57619-57628.	5.3	5
9	Application of thermal desorption for measuring PAHs on PM2.5. Environmental Science and Pollution Research, 2021, , 1.	5.3	1
10	Emissions of PAHs, PCDD/Fs, dl-PCBs, chlorophenols and chlorobenzenes from municipal waste incinerator cofiring industrial waste. Chemosphere, 2021, 280, 130645.	8.2	14
11	Evaluation of the effectiveness of nonthermal plasma disinfection. Environmental Technology (United Kingdom), 2020, 41, 2795-2805.	2.2	4
12	Catalytic reduction of NO by CO with Cu-based and Mn-based catalysts. Catalysis Today, 2020, 348, 15-25.	4.4	40
13	Characterization of PCN emission and removal from secondary copper metallurgical processes. Environmental Pollution, 2020, 258, 113759.	7.5	9
14	Efficacy of the novel continuous sampling system for PCDD/Fs and unintentional persistent organic pollutants. Chemosphere, 2020, 243, 125443.	8.2	4
15	Reduction of polychlorinated naphthalenes (PCNs) emission from municipal waste incinerators in Taiwan: Recommendation on control technology. Chemosphere, 2020, 252, 126541.	8.2	5
16	Synergistic effects of plasma Z-scheme photocatalysis process for biogas conversion. Journal of CO2 Utilization, 2020, 40, 101190.	6.8	4
17	Emission characteristics of dl-PCNs, PCDD/Fs, and dl-PCBs from secondary copper metallurgical plants: Control technology and policy. Chemosphere, 2020, 253, 126651.	8.2	12
18	Photocatalytic removal of trichloroethylene from water with LaFeO3. Environmental Science and Pollution Research, 2019, 26, 26276-26285.	5.3	15

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19	Characteristics of Fine Particulate Matter and Polycyclic Aromatic Hydrocarbons Emitted from Coal Combustion Processes. Energy & Fuels, 2019, 33, 10247-10254.	5.1	34
20	Detoxification of municipal solid waste incinerator (MSWI) fly ash by single-mode microwave (MW) irradiation: Addition of urea on the degradation of Dioxin and mechanism. Journal of Hazardous Materials, 2019, 369, 279-289.	12.4	31
21	Photocatalytic oxidation of toluene and isopropanol by LaFeO3/black-TiO2. Environmental Science and Pollution Research, 2019, 26, 20908-20919.	5.3	20
22	Effective Removal of CF4 by Combining Nonthermal Plasma with Î³-Al2O3. Plasma Chemistry and Plasma Processing, 2019, 39, 877-896.	2.4	18
23	Plasma catalytic oxidation of toluene over double perovskite-type oxide via packed-bed DBD. Environmental Science and Pollution Research, 2019, 26, 12948-12962.	5.3	30
24	Characterization of PCDD/Fs and dl-PCBs emission from combustion of PCB-containing oil in a fluidized-bed incinerator. Chemosphere, 2019, 225, 35-42.	8.2	21
25	Measurement of PCNs in sediments collected from reservoir and river in northern Taiwan. Ecotoxicology and Environmental Safety, 2019, 174, 384-389.	6.0	17
26	Characterization of polybrominated diphenyl ethers (PBDEs) in various aqueous samples in Taiwan. Science of the Total Environment, 2019, 649, 388-395.	8.0	32
27	Oxidation of TCE by Combining Perovskite-Type Catalyst With DBD. IEEE Transactions on Plasma Science, 2019, 47, 1152-1163.	1.3	7
28	Catalytic oxidation of trichloroethylene from gas streams by perovskite-type catalysts. Environmental Science and Pollution Research, 2018, 25, 11584-11594.	5.3	21
29	Atmospheric concentrations and gas-particle partitioning of PCDD/Fs and dioxin-like PCBs around Hochiminh city. Chemosphere, 2018, 202, 246-254.	8.2	24
30	Review on occurrence and behavior of PCDD/Fs and dl-PCBs in atmosphere of East Asia. Atmospheric Environment, 2018, 180, 23-36.	4.1	26
31	Effect of reducing agent on catalytic hydrodechlorination of aqueous-phase OCDD/F. Chemosphere, 2018, 202, 322-329.	8.2	4
32	Novel plasma photocatalysis process for syngas generation via dry reforming of methane. Energy Conversion and Management, 2018, 164, 417-428.	9.2	41
33	Removal of VOCs from gas streams with double perovskite-type catalysts. Journal of Environmental Sciences, 2018, 69, 205-216.	6.1	56
34	Storage and reduction of NOx by combining Sr-based perovskite catalyst with nonthermal plasma. Environmental Science and Pollution Research, 2018, 25, 35582-35593.	5.3	5
35	Catalytic Conversion of Multipollutants (Hg⁰/NO/Dioxin) with V₂O₅â€“WO₃/TiO₂ Catalysts. Industrial & Engineering Chemistry Research, 2018, 57, 15195-15205.	3.7	12
36	CO2 Reforming with CH4 via Plasma Catalysis System. , 2018, , .		0

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37	PCDD/Fs and dl-PCBs concentrations in water samples of Taiwan. Chemosphere, 2017, 173, 603-611.	8.2	31
38	Removal of phenol from gas streams via combined plasma catalysis. Journal of Industrial and Engineering Chemistry, 2017, 52, 108-120.	5.8	23
39	Characterization of PCDD/Fs and dioxin-like PCBs emitted from two woodchip boilers in Taiwan. Chemosphere, 2017, 189, 284-290.	8.2	19
40	Review on characteristics of PAHs in atmosphere, anthropogenic sources and control technologies. Science of the Total Environment, 2017, 609, 682-693.	8.0	292
41	Combined fast selective reduction using Mn-based catalysts and nonthermal plasma for NOx removal. Environmental Science and Pollution Research, 2017, 24, 21496-21508.	5.3	17
42	Adsorption of mesitylene via mesoporous adsorbents. Journal of the Air and Waste Management Association, 2017, 67, 1319-1327.	1.9	13
43	Desorption of isopropyl alcohol from adsorbent with non-thermal plasma. Environmental Technology (United Kingdom), 2017, 38, 2314-2323.	2.2	7
44	Catalytic removal of phenol from gas streams by perovskite-type catalysts. Journal of Environmental Sciences, 2017, 56, 131-139.	6.1	22
45	PAH emissions from coal combustion and waste incineration. Journal of Hazardous Materials, 2016, 318, 32-40.	12.4	87
46	Combining nonthermal plasma with perovskite-like catalyst for NOx storage and reduction. Environmental Science and Pollution Research, 2016, 23, 19590-19601.	5.3	10
47	Catalytic decomposition of gaseous PCDD/Fs over V2O5/TiO2-CNTs catalyst: Effect of NO and NH3 addition. Chemosphere, 2016, 159, 132-137.	8.2	44
48	Enhancement of nitric oxide decomposition efficiency achieved with lanthanum-based perovskite-type catalyst. Journal of the Air and Waste Management Association, 2016, 66, 619-630.	1.9	9
49	High-Temperature Gaseous H₂S Removal by Znâ€“Mn-based Sorbent. Industrial & Engineering Chemistry Research, 2015, 54, 11040-11047.	3.7	26
50	Adsorptionâ€“desorption characteristics of methyl ethyl ketone with modified activated carbon and inhibition of 2,3-butanediol production. Journal of the Air and Waste Management Association, 2015, 65, 1317-1326.	1.9	6
51	Catalytic destruction vs. adsorption in controlling dioxin emission. Waste Management, 2015, 46, 257-264.	7.4	9
52	Characteristics of PCDD/F emissions from secondary copper smelting industry. Chemosphere, 2015, 118, 148-155.	8.2	16
53	Dry Reforming of CH₄ With CO₂ to Generate Syngas by Combined Plasma Catalysis. IEEE Transactions on Plasma Science, 2014, 42, 3809-3818.	1.3	28
54	Direct N₂O decomposition over La₂NiO₄-based perovskite-type oxides. Journal of the Air and Waste Management Association, 2014, 64, 1260-1269.	1.9	21

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55	Removal of formaldehyde over MnxCe1â^'xO2 catalysts: Thermal catalytic oxidation versus ozone catalytic oxidation. Journal of Environmental Sciences, 2014, 26, 2546-2553.	6.1	38
56	Pilot Tests on the Catalytic Filtration of Dioxins. Environmental Science & Technology, 2014, 48, 3995-4001.	10.0	35
57	Removal of Chlorinated Aromatic Organic Compounds from MWI with Catalytic Filtration. Aerosol and Air Quality Research, 2014, 14, 1215-1222.	2.1	9
58	Increase of Ambient PCDD/F Concentrations in Northern Taiwan during Asian Dust Storm and Winter Monsoon Episodes. Aerosol and Air Quality Research, 2014, 14, 1279-1291.	2.1	7
59	Health Risk from Exposure to PCDD/Fs from a Waelz Plant in Central Taiwan. Aerosol and Air Quality Research, 2014, 14, 1310-1319.	2.1	7
60	PCDD/PCDF behavior in low-temperature pyrolysis of PCP-contaminated sandy soil. Science of the Total Environment, 2013, 443, 590-596.	8.0	18
61	Pyrolysis of MWI fly ash â€“ Effect on dioxin-like congeners. Chemosphere, 2013, 92, 857-863.	8.2	24
62	Atmospheric PCDD/F measurement in Taiwan and Southeast Asia during Dongsha Experiment. Atmospheric Environment, 2013, 78, 195-202.	4.1	15
63	Investigation of the degradation of pentachlorophenol in sandy soil via low-temperature pyrolysis. Journal of Hazardous Materials, 2012, 229-230, 411-418.	12.4	28
64	Characteristics of dioxin emissions from a Waelz plant with acid and basic kiln mode. Journal of Hazardous Materials, 2012, 201-202, 229-235.	12.4	11
65	Low-Temperature Catalytic Oxidation of Monochlorobenzene by Ozone over Silica-Supported Manganese Oxide. Industrial & Engineering Chemistry Research, 2011, 50, 13322-13329.	3.7	23
66	Reduction of dioxin emission by a multi-layer reactor with bead-shaped activated carbon in simulated gas stream and real flue gas of a sinter plant. Chemosphere, 2011, 82, 72-77.	8.2	40
67	Evaluation of PCDD/F oxidation catalysts: Confronting studies on model molecules with tests on PCDD/F-containing gas stream. Chemosphere, 2011, 82, 1337-1342.	8.2	42
68	Analysis of polychlorinated dibenzo-p-dioxins and furans in various aqueous samples in Taiwan. Chemosphere, 2011, 83, 760-766.	8.2	14
69	Removal of C3F8 Via the Combination of Non-Thermal Plasma, Adsorption and Catalysis. Plasma Chemistry and Plasma Processing, 2011, 31, 585-594.	2.4	9
70	Chlorobenzene oxidation using ozone over iron oxide and manganese oxide catalysts. Journal of Hazardous Materials, 2011, 186, 1781-1787.	12.4	75
71	Degradation of gaseous dioxin-like compounds with dielectric barrier discharges. Journal of Hazardous Materials, 2010, 182, 246-251.	12.4	23
72	Electrostatic Charging and Precipitation of Diesel Soot. , 2009, , .		4

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73	Plasma-Pretreated Catalyst for Methanol Synthesis From Syngas. IEEE Transactions on Plasma Science, 2009, 37, 2213-2220.	1.3	8
74	Influence of pH on inactivation of aquatic microorganism with a gasâ€“liquid pulsed electrical discharge. Journal of Electrostatics, 2009, 67, 703-708.	1.9	35
75	Synergistic effect of transition metal oxides and ozone on PCDD/F destruction. Journal of Hazardous Materials, 2009, 164, 1452-1459.	12.4	42
76	Effect of Fly Ash on Catalytic Removal of Gaseous Dioxins over V₂O₅â^'WO₃ Catalyst of a Sinter Plant. Environmental Science & Technology, 2009, 43, 7523-7530.	10.0	27
77	Atmospheric deposition of PCDD/Fs measured via automated and traditional samplers in Northern Taiwan. Chemosphere, 2009, 77, 1184-1190.	8.2	17
78	Ultrasound-Assisted Plasma: A Novel Technique for Inactivation of Aquatic Microorganisms. Environmental Science & Technology, 2009, 43, 4493-4497.	10.0	26
79	Removal of Volatile Organic Compounds by Single-Stage and Two-Stage Plasma Catalysis Systems: A Review of the Performance Enhancement Mechanisms, Current Status, and Suitable Applications. Environmental Science & Technology, 2009, 43, 2216-2227.	10.0	372
80	Review of plasma catalysis on hydrocarbon reforming for hydrogen productionâ€”Interaction, integration, and prospects. Applied Catalysis B: Environmental, 2008, 85, 1-9.	20.2	319
81	Measurement of atmospheric PCDD/F and PCB distributions in the vicinity area of Waelz plant during different operating stages. Science of the Total Environment, 2008, 391, 114-123.	8.0	5
82	Increases in ambient PCDD/F and PCB concentrations in Northern Taiwan during an Asian dust storm episode. Science of the Total Environment, 2008, 401, 100-108.	8.0	40
83	Reduction of Dioxin-like Compound Emissions from a Waelz Plant with Adsorbent Injection and a Dual Baghouse Filter System. Environmental Science & Technology, 2008, 42, 2111-2117.	10.0	25
84	Catalytic oxidation of gaseous PCDD/Fs with ozone over iron oxide catalysts. Chemosphere, 2008, 71, 388-397.	8.2	57
85	Innovative PCDD/F-containing gas stream generating system applied in catalytic decomposition of gaseous dioxins over V2O5â€“WO3/TiO2-based catalysts. Chemosphere, 2008, 73, 890-895.	8.2	63
86	Inactivation of Aquatic Microorganisms by Low-Frequency AC Discharges. IEEE Transactions on Plasma Science, 2008, 36, 215-219.	1.3	61
87	Review of Packed-Bed Plasma Reactor for Ozone Generation and Air Pollution Control. Industrial & Engineering Chemistry Research, 2008, 47, 2122-2130.	3.7	168
88	Influence of Nonthermal Plasma Reactor Type on $ hbox{CF}_{4}$ and $hbox{SF}_{6}$ Abatements. IEEE Transactions on Plasma Science, 2008, 36, 509-515.	1.3	31
89	Formation and removal of PCDD/Fs in a municipal waste incinerator during different operating periods. Chemosphere, 2007, 67, S177-S184.	8.2	43
90	Destruction of PCDD/Fs by SCR from flue gases of municipal waste incinerator and metal smelting plant. Chemosphere, 2007, 66, 1114-1122.	8.2	41

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91	Historical trends of PCDD/Fs and dioxin-like PCBs in sediments buried in a reservoir in Northern Taiwan. Chemosphere, 2007, 68, 1733-1740.	8.2	36
92	PCDD/F Emissions and Distributions in Waelz Plant and Ambient Air during Different Operating Stages. Environmental Science & Technology, 2007, 41, 2515-2522.	10.0	15
93	Enhancement of Energy Yield for Ozone Production via Packed-Bed Reactors. Ozone: Science and Engineering, 2006, 28, 111-118.	2.5	47
94	Abatement of PFCs from Semiconductor Manufacturing Processes by Nonthermal Plasma Technologies:Â A Critical Review. Industrial & Engineering Chemistry Research, 2006, 45, 4101-4109.	3.7	89
95	Characteristics of PCDD/F Distributions in Vapor and Solid Phases and Emissions from the Waelz Process. Environmental Science & Technology, 2006, 40, 1770-1775.	10.0	18
96	Evaluation of the emission characteristics of PCDD/Fs from electric arc furnaces. Chemosphere, 2006, 62, 1761-1773.	8.2	44
97	Partitioning and removal of dioxin-like congeners in flue gases treated with activated carbon adsorption. Chemosphere, 2006, 64, 1489-1498.	8.2	59
98	Kinetic Modeling of the NF3 Decomposition via Dielectric Barrier Discharges in N2/NF3 Mixtures. Plasma Processes and Polymers, 2006, 3, 682-691.	3.0	12
99	Evaluation of PCDD/F partitioning between vapor and solid phases in MWI flue gases with temperature variation. Journal of Hazardous Materials, 2006, 138, 620-627.	12.4	16
100	Reducing PCDD/F formation by adding sulfur as inhibitor in waste incineration processes. Science of the Total Environment, 2006, 366, 456-465.	8.0	55
101	Influences of Reactor Geometry on Ozone Production with Dielectric Barrier Discharges: Experimental and Simulation Studies. Journal of Advanced Oxidation Technologies, 2005, 8, .	0.5	0
102	Evaluation of Four Kinds of Nonthermal Plasma Reactor for Abatement of Perfluorocompounds. Journal of Advanced Oxidation Technologies, 2005, 8, .	0.5	0
103	Characteristics of PCDD/F congener distributions in gas/particulate phases and emissions from two municipal solid waste incinerators in Taiwan. Science of the Total Environment, 2005, 347, 148-162.	8.0	57
104	Evaluation of PCDD/F Congener Partition in Vapor/Solid Phases of Waste Incinerator Flue Gases. Environmental Science & Technology, 2005, 39, 8023-8031.	10.0	41
105	Abatement of Perfluorocompounds by Tandem Packed-Bed Plasmas for Semiconductor Manufacturing Processes. Industrial & Engineering Chemistry Research, 2005, 44, 5526-5534.	3.7	9
106	Simultaneous Removal of Nitrogen Oxide/Nitrogen Dioxide/Sulfur Dioxide from Gas Streams by Combined Plasma Scrubbing Technology. Journal of the Air and Waste Management Association, 2004, 54, 941-949.	1.9	58
107	Dioxin emission factors for automobiles from tunnel air sampling in Northern Taiwan. Science of the Total Environment, 2004, 325, 129-138.	8.0	51
108	Measurement of PCDD/F congener distributions in MWI stack gas and ambient air in northern Taiwan. Atmospheric Environment, 2004, 38, 2535-2544.	4.1	28

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109	Abatement of perfluorocarbons with combined plasma catalysis in atmospheric-pressure environment. Catalysis Today, 2004, 89, 109-115.	4.4	73
110	Kinetic Modeling of Ozone Generation via Dielectric Barrier Discharges. Ozone: Science and Engineering, 2004, 26, 551-562.	2.5	21
111	Evaluation of PCDD/F congener distributions in MWI flue gas treated with SCR catalysts. Chemosphere, 2004, 55, 1457-1467.	8.2	36
112	Abatement of Sulfur Hexafluoride Emissions from the Semiconductor Manufacturing Process by Atmospheric-Pressure Plasmas. Journal of the Air and Waste Management Association, 2004, 54, 960-970.	1.9	65
113	Abatement of Gas-phase p-Xylene via Dielectric Barrier Discharges. Plasma Chemistry and Plasma Processing, 2003, 23, 541-558.	2.4	77
114	Plasma-Assisted Process for Removing NO/NOx from Gas Streams with C2H4 as Additive. Journal of Environmental Engineering, ASCE, 2003, 129, 800-810.	1.4	11
115	Sampling and analysis of ambient dioxins in northern Taiwan. Chemosphere, 2003, 51, 1103-1110.	8.2	34
116	Investigation on the emission factors and removal efficiencies of heavy metals from MSW incinerators in Taiwan. Waste Management and Research, 2003, 21, 218-224.	3.9	11
117	Removal of Gaseous Acetaldehyde via a Silent Discharge Reactor Packed with Al2O3 Beads. Journal of Advanced Oxidation Technologies, 2003, 6, .	0.5	1
118	Characterization of dioxin emissions from two municipal solid waste incinerators in Taiwan. Atmospheric Environment, 2002, 36, 279-286.	4.1	45
119	Memory effect on the dioxin emissions from municipal waste incinerator in Taiwan. Chemosphere, 2001, 45, 1151-1157.	8.2	77
120	An Atmospheric-Pressure Plasma Process for C2F6 Removal. Environmental Science & Technology, 2001, 35, 1587-1592.	10.0	52
121	NO/NOx removal with C2 H2 as additive via dielectric barrier discharges. AICHE Journal, 2001, 47, 1226-1233.	3.6	21
122	Gas-Phase Removal of Acetaldehyde via Packed-Bed Dielectric Barrier Discharge Reactor. Plasma Chemistry and Plasma Processing, 2001, 21, 329-343.	2.4	56
123	Oxidative Conversion of PFC via Plasma Processing with Dielectric Barrier Discharges. Plasma Chemistry and Plasma Processing, 2001, 21, 311-327.	2.4	48
124	Evaluation on speciation and removal efficiencies of mercury from municipal solid waste incinerators in Taiwan. Science of the Total Environment, 2000, 246, 165-173.	8.0	22
125	Destruction of VOCs via Silent Discharge Plasmas. Chemical Engineering and Technology, 1998, 21, 987-989.	1.5	7
126	Fates and partitioning of heavy metals in municipal solid waste incineration process. Toxicological and Environmental Chemistry, 1998, 67, 161-169.	1.2	14

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127	Experimental Study on Ozone Synthesis via Dielectric Barrier Discharges. Ozone: Science and Engineering, 1997, 19, 241-254.	2.5	37
128	Rainwater contamination and sources in Taoyuan County, Taiwan. Journal of Environmental Science and Health Part A: Environmental Science and Engineering, 1997, 32, 1641-1653.	0.1	0
129	Effects of ash physical properties on leaching behavior of heavy metals from MSW incineration. Toxicological and Environmental Chemistry, 1997, 60, 13-25.	1.2	2
130	Low temperature SNCR process for NOx control. Science of the Total Environment, 1997, 198, 73-78.	8.0	15
131	Destruction and removal of toluene and MEK from gas streams with silent discharge plasmas. AICHE Journal, 1997, 43, 1325-1330.	3.6	43
132	Destruction of Formaldehyde with Dielectric Barrier Discharge Plasmas. Environmental Science & Technology, 1995, 29, 181-186.	10.0	107
133	Removal of SO2 and NO from Gas Streams with Combined Plasma Photolysis. Journal of Environmental Engineering, ASCE, 1993, 119, 414-423.	1.4	24
134	Gas-phase removal of nitric oxide from gas streams via dielectric barrier discharges. Environmental Science & Technology, 1992, 26, 777-781.	10.0	54
135	Removal of SO2 and the simultaneous removal of SO2 and NO from simulated flue gas streams using dielectric barrier discharge plasmas. Plasma Chemistry and Plasma Processing, 1992, 12, 565-580.	2.4	64
136	Removal of SO2from gas streams using a dielectric barrier discharge and combined plasma photolysis. Journal of Applied Physics, 1991, 69, 4409-4417.	2.5	147