Hidetoshi Sekiguchi

List of Publications by Year
in descending order

52 papers	923 citations	516710 16 h-index	477307 29 g-index
52 all docs	52 docs citations	52 times ranked	884 citing authors

#	Article	IF	Citations
1	Behavior of Gliding Arc Discharge in a Supersonic Flow. IEEE Transactions on Plasma Science, 2021, 49, 98-103.	1.3	1
2	Transesterification Using Ultrasonic Spray of Triolein Containing CaO Particles into Methanol Vapor in a 3-Phase Reactor. Processes, 2021, 9, 181.	2.8	2
3	Preparation of Metal Nitride Particles Using Arc Discharge in Liquid Nitrogen. Nanomaterials, 2021, 11, 2214.	4.1	9
4	Hydrogen Production by Methane Pyrolysis in a Moltenâ€Metal Bubble Column. Chemical Engineering and Technology, 2021, 44, 1986-1993.	1.5	26
5	Syngas production with low tar content from cellulose pyrolysis in molten salt combined with Ni/Al2O3 catalyst. Journal of Analytical and Applied Pyrolysis, 2021, 158, 105243.	5.5	20
6	Effect of Alumina Particles on Simultaneous Lipid Extraction and Biodiesel Production from Microalgae under Ultrasonic Irradiation. Journal of Chemical Engineering of Japan, 2020, 53, 153-159.	0.6	4
7	Biomass pyrolysis in Sn-Bi molten metal for synthesis gas production. Journal of Analytical and Applied Pyrolysis, 2019, 137, 61-69.	5.5	9
8	Preparation of Catalyst with Microwave Induced Plasma Jet Combined with Spouted Bed. Journal of Nanoscience and Nanotechnology, 2019, 19, 6849-6855.	0.9	3
9	Facile fabrication of WO3/MWCNT hybrid materials for gas sensing application. Applied Surface Science, 2019, 487, 272-277.	6.1	10
10	Analysis of the interaction between particles and gliding arc discharge in a spouted bed reactor. MATEC Web of Conferences, 2019, 268, 04008.	0.2	2
11	Preparation of a Pd/Al2O3 Catalyst with Microwave-Induced Plasma Jet Irradiation under Atmospheric Pressure. Nanomaterials, 2019, 9, 1734.	4.1	8
12	Formation phenomena of iron oxide-silica composite in microwave plasma and DC thermal plasma. Advanced Powder Technology, 2018, 29, 168-179.	4.1	8
13	Torrefaction of Municipal Solid Waste (MSW) Pellets using Microwave Irradiation with the Assistance of the Char of Agricultural Residues. Energy Procedia, 2017, 138, 668-673.	1.8	10
14	Preparation of zinc coated PMMA using solid precursor by gliding arc discharge. Chemical Engineering Journal, 2015, 278, 301-308.	12.7	7
15	Combined molten saltâ€“Ni/Al2O3 as synergistic medium for high-quality syngas production. Chemical Engineering Journal, 2015, 278, 224-233.	12.7	29
16	CO 2 gasification of biomass wastes enhanced by Ni/Al 2 O 3 catalyst in molten eutectic carbonate salt. International Journal of Hydrogen Energy, 2015, 40, 11809-11822.	7.1	43
17	Mesoporous RF-Xerogels by Facile Hydrothermal Synthesis. Engineering Journal, 2015, 19, 95-104.	1.0	2
18	Preparation of indium oxide powders by microwave plasma dehydration of indium hydroxide powders. Advanced Powder Technology, 2014, 25, 261-266.	4.1	4

#	Article	IF	Citations
19	Ethylene Epoxidation in an AC Dielectric Barrier Discharge Jet System. Plasma Chemistry and Plasma Processing, 2014, 34, 187-205.	2.4	5
20	Comparison of the performance of a direct-contact bubble reactor and an indirectly heated tubular reactor for solar-aided methane dry reforming employing molten salt. Chemical Engineering and Processing: Process Intensification, 2014, 83, 56-63.	3.6	6
21	Synthesis Gas Production by Combined Reforming of CO₂-Containing Natural Gas with Steam and Partial Oxidation in a Multistage Gliding Arc Discharge System. Industrial & Engineering Chemistry Research, 2014, 53, 11891-11900.	3.7	12
22	Enhancement of Essential Oil Extraction for Steam Distillation by <scp>DBD</scp> Surface Treatment. Plasma Processes and Polymers, 2014, 11, 126-132.	3.0	38
23	Modeling and simulation of methane dry reforming in direct-contact bubble reactor. Solar Energy, 2014, 102, 45-55.	6.1	10
24	Process Evaluation of Carbon Dioxide Capture for Coal-Fired Power Plants. Energy and Environment Research, 2014, 4, .	0.2	1
25	Improvement of ethylene epoxidation in low-temperature corona discharge by separate ethylene/oxygen feed. Chemical Engineering and Processing: Process Intensification, 2013, 70, 222-232.	3.6	4
26	Development of ultra-high temperature SHS furnace using atmospheric-pressure microwave steam plasma. Applied Thermal Engineering, 2013, 52, 1-7.	6.0	10
27	Ethylene Epoxidation in Cylindrical Dielectric Barrier Discharge: Effects of Separate Ethylene/Oxygen Feed. Plasma Chemistry and Plasma Processing, 2012, 32, 1169-1188.	2.4	10
28	Synthesis Gas Production from CO2-Containing Natural Gas by Combined Steam Reforming and Partial Oxidation in an AC Gliding Arc Discharge. Plasma Chemistry and Plasma Processing, 2012, 32, 723-742.	2.4	26
29	Ethylene Epoxidation over Alumina- and Silica-Supported Silver Catalysts in Low-Temperature AC Dielectric Barrier Discharge. Plasma Chemistry and Plasma Processing, 2011, 31, 273-290.	2.4	17
30	Non-Oxidative Reforming of Methane in a Mini-Gliding Arc Discharge Reactor: Effects of Feed Methane Concentration, Feed Flow Rate, Electrode Gap Distance, Residence Time, and Catalyst Distance. Plasma Chemistry and Plasma Processing, 2011, 31, 517-534.	2.4	41
31	The Behavior of Microdischarges and Their Effects on Chemical Reactions in a Micro-DBD Plasma Reactor. Journal of Chemical Engineering of Japan, 2010, 43, 158-166.	0.6	4
32	Friction and wear characteristics of hydrogenated diamond-like carbon films formed on the roughened stainless steel surface. Wear, 2010, 269, 118-124.	3.1	27
33	The Effect of Catalytically Reactive Wall in a Micro-DBD Plasma Reactor on Ozone Decomposition. Journal of Chemical Engineering of Japan, 2010, 43, 167-173.	0.6	1
34	Plasma-catalytic reforming of methane in AC microsized gliding arc discharge: Effects of input power, reactor thickness, and catalyst existence. Chemical Engineering Journal, 2009, 155, 874-880.	12.7	59
35	Synthesis of ammonia using microwave discharge at atmospheric pressure. Thin Solid Films, 2008, 516, 4446-4451.	1.8	66
36	Non-catalytic Amination of Carbon Double Bond Using Atmospheric Pressure Non-thermal Plasma. Kagaku Kogaku Ronbunshu, 2008, 34, 152-155.	0.3	0

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37	The Effect of Electron Density and Electron Temperature on the Partial Oxidation of Benzene Using a Micro-Plasma Reactor. Journal of Chemical Engineering of Japan, 2007, 40, 749-754.	0.6	5
38	Epoxidation of carbon double bond using atmospheric non-equilibrium oxygen plasma. Thin Solid Films, 2006, 506-507, 427-431.	1.8	9
39	Estimation of point of zero charge for activated carbon treated with atmospheric pressure non-thermal oxygen plasmas. Thin Solid Films, 2006, 506-507, 327-330.	1.8	36
40	Introduction of Acidic Functional Groups onto the Surface of Activated Carbons by Atmospheric-Pressure Nonthermal Plasma. , 2005, , 129-142.		1
41	Comparison of Reforming Behaviors of Hexane and Isooctane in Microwave Steam Plasma. Journal of the Japan Petroleum Institute, 2005, 48, 22-28.	0.6	14
42	Effect of liquid film on decomposition of CFC-12 using dielectric barrier discharge. Thin Solid Films, 2004, 457, 34-38.	1.8	6
43	Gasification of polyethylene using steam plasma generated by microwave discharge. Thin Solid Films, 2004, 457, 44-47.	1.8	47
44	Direct Hydroxylation of Benzene Using Micro Plasma Reactor. Kagaku Kogaku Ronbunshu, 2004, 30, 183-185.	0.3	4
45	Steam plasma reforming using microwave discharge. Thin Solid Films, 2003, 435, 44-48.	1.8	101
46	Treatment of Polyvinyl Chloride Using Ultrasonic Irradiation. Japanese Journal of Applied Physics, 2003, 42, 2965-2966.	1.5	5
47	Surface modification of adsorbents by dielectric barrier discharge. Thin Solid Films, 2002, 407, 151-155.	1.8	61
48	Effect of Alumina Particles on Sonolysis Degradation of Chlorobenzene in Aqueous Solution.. Journal of Chemical Engineering of Japan, 2001, 34, 1045-1048.	0.6	37
49	Catalysis assisted plasma decomposition of benzene using dielectric barrier discharge. Canadian Journal of Chemical Engineering, 2001, 79, 512-516.	1.7	14
50	Generation System for Heat Sink at Low Temperature Using Chemical Heat Pump with Reaction of Isobutylene/Water/t-Butyl Alcohol.. Sekiyu Gakkaishi (Journal of the Japan Petroleum Institute), 2000, 43, 396-402.	0.1	0
51	Thermal plasma decomposition of chlorofluorocarbons. Plasma Chemistry and Plasma Processing, 1993, 13, 463-478.	2.4	34
52	Thermal quenching effects on plasma synthesis of NO and plasma decomposition of CO2. Plasma Chemistry and Plasma Processing, 1989, 9, 257-275.	2.4	15