Laurent Fulcheri

List of Publications by Year
in descending order

46	1,113	471509 17	395702 33
papers	citations	h-index	g-index

47	47	47	944
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Why turquoise hydrogen will Be a game changer for the energy transition. International Journal of Hydrogen Energy, 2022, 47, 25831-25848.	7.1	50
2	Triâ€fold process integration leveraging highâ€•and <scp>lowâ€ temperature</scp> plasmas: From biomass to fertilizers with local energy and for local use. Journal of Advanced Manufacturing and Processing, 2021, 3, e10081.	2.4	13
3	Direct conversion of CO2 and CH4 into liquid chemicals by plasma-catalysis. Applied Catalysis B: Environmental, 2020, 261, 118228.	20.2	75
4	Experimental study on plasma-catalytic synthesis of hydrocarbons from syngas. Applied Catalysis A: General, 2019, 588, 117269.	4.3	13
5	A Combined Finite-Element-Finite-Volume Method for Thermal Arc Numerical Simulation. Journal of Physics: Conference Series, 2019, 1243, 012011.	0.4	1
6	A Simple Theory for Cathode Jets in Plasma Arcs. Journal of Physics: Conference Series, 2019, 1243, 012016.	0.4	1
7	Analytical Solution for the Electric Arc Dynamics and Heat Transfer When Exposed to a Magnetic Cross-Field. Journal of Heat Transfer, 2018, 140, .	2.1	1
8	Applying chemical engineering concepts to non-thermal plasma reactors. Plasma Science and Technology, 2018, 20, 065512.	1.5	5
9	New perspectives on the dynamics of AC and DC plasma arcs exposed to cross-fields. Journal Physics D: Applied Physics, 2017, 50, 065203.	2.8	5
10	A New Plasma Electro-Burner Concept for Biomass and Waste Combustion. Waste and Biomass Valorization, 2017, 8, 2791-2805.	3.4	5
11	An optimal method for the computation of the parameterR_sof the net emission coefficient approximation approach for determining the electrical and thermal characteristics of plasma arcs. Journal Physics D: Applied Physics, 2017, 50, 445202.	2.8	3
12	Combination of VOC degradation and electro-hydrodynamic pumping actions in a surface dielectric barrier discharge reactor. Chemical Engineering Journal, 2017, 309, 471-479.	12.7	8
13	3-D Flow Modeling of a Three-Phase AC Plasma Torch Working With Air Using a Stationary Source Domain With Gas Radiation. IEEE Transactions on Plasma Science, 2016, 44, 996-1008.	1.3	10
14	Influence of temperature and pressure on carbon black size distribution during allothermal cracking of methane. Aerosol Science and Technology, 2016, 50, 26-40.	3.1	16
15	Dry reforming of methane in a tipâ€“tip arc discharge reactor at very high pressure. International Journal of Hydrogen Energy, 2015, 40, 3388-3401.	7.1	13
16	Three-Phase AC Arc Plasma Systems: A Review. Plasma Chemistry and Plasma Processing, 2015, 35, 565-585.	2.4	41
17	Hydrocarbons synthesis from syngas by very high pressure plasma. Chemical Engineering Journal, 2014, 241, 1-8.	12.7	21
18	A Comparison Between MHD Modeling and Experimental Results in a 3-Phase AC Arc Plasma Torch: Influence of the Electrode Tip Geometry. Plasma Chemistry and Plasma Processing, 2014, 34, 975-996.	2.4	19

#	Article	IF	Citations
19	Study on Argon Plasma Jets at Atmospheric Pressure in Ambient Air Excited by Surface Waves. IEEE Transactions on Plasma Science, 2014, 42, 911-916.	1.3	15
20	Experimental study on the formation of higher fluorocarbons from CF4 by a tipâ€“tip electrical arc discharge at very high pressure. Journal of Fluorine Chemistry, 2014, 166, 96-103.	1.7	2
21	High Speed Video Camera and Electrical Signal Analyses of Arcs Behavior in a 3-Phase AC Arc Plasma Torch. Plasma Chemistry and Plasma Processing, 2013, 33, 779-796.	2.4	18
22	3D Unsteady State MHD Modeling of a 3-Phase AC Hot Graphite Electrodes Plasma Torch. Plasma Chemistry and Plasma Processing, 2013, 33, 491-515.	2.4	30
23	Waste Gasification by Thermal Plasma: A Review. Waste and Biomass Valorization, 2013, 4, 421-439.	3.4	207
24	Assessment of Carbon Dioxide Dissociation as a New Route for Syngas Production: A Comparative Review and Potential of Plasma-Based Technologies. Energy & Fuels, 2013, 27, 2712-2722.	5.1	103
25	2D Axisymmetric Coupled Computational Fluid Dynamicsâ€“Kinetics Modeling of a Nonthermal Arc Plasma Torch for Diesel Fuel Reforming. Energy & Fuels, 2011, 25, 2833-2840.	5.1	6
26	Exhaust Gas Fuel Reforming of Diesel Fuel by Nonthermal Arc Discharge for NOxTrap Regeneration Application. Energy & Fuels, 2011, 25, 1034-1044.	5.1	10
27	Three-Dimensional Unsteady MHD Modeling of a Low-Current High-Voltage Nontransferred DC Plasma Torch Operating With Air. IEEE Transactions on Plasma Science, 2011, 39, 1889-1899.	1.3	35
28	Experimental Study of Hydrocarbons Synthesis from Syngas by a Tipâ€“Tip Electrical Discharge at Very High Pressure. Plasma Chemistry and Plasma Processing, 2011, 31, 663-679.	2.4	15
29	Ethanol and E85 Reforming Assisted by a Non-thermal Arc Discharge. Energy & Fuels, 2010, 24, 2607-2613.	5.1	38
30	Three Stages Modeling of n-Octane Reforming Assisted by a Nonthermal Arc Discharge. Energy & Fuels, 2009, 23, 4931-4936.	5.1	18
31	Non-Equilibrium Nitrogen DC-Arc Plasma Treatment of TiO₂ Nanopowder. Journal of Nanoscience and Nanotechnology, 2009, 9, 256-260.	0.9	5
32	Experimental Study on Gasoline Reforming Assisted by Nonthermal Arc Discharge. Energy & Fuels, 2008, 22, 556-560.	5.1	48
33	Theoretical and experimental study of an argon free burning arc dicharge at very high-pressure and low-intensity. , 2008, , .		1
34	Thermodynamics and Kinetics Analysis of Gasoline Reforming Assisted by Arc Discharge. Energy & Fuels, 2008, 22, 1888-1893.	5.1	17
35	Synthesis of Titania Nanoparticles Using a Compact Nonequilibrium Plasma Torch. Japanese Journal of Applied Physics, 2008, 47, 7343.	1.5	7
36	Electrode sheath model for an argon free burning arc discharge at very high pressure and low intensity. , 2008, , .		2

#	Article	IF	Citations
37	Publisher's Note: â€œSynthesis of Titania Nanoparticles Using a Compact Nonequilibrium Plasma Torchâ€• Japanese Journal of Applied Physics, 2008, 47, 9019.	1.5	0
38	Development of a volumetric methodâ€"experimental test bench for hydrogen storage characterisation. International Journal of Hydrogen Energy, 2007, 32, 1846-1854.	7.1	7
39	Characterization of a 3-Phase a.c. Free Burning Arc Plasma. Plasma Science and Technology, 2006, 8, 156-163.	1.5	15
40	Tailorâ€Made Carbon Nanomaterials for Bulk Applications via Highâ€Intensity Arc Plasma. Fullerenes Nanotubes and Carbon Nanostructures, 2005, 13, 67-75.	2.1	5
41	Production of Carbon Nanotubes and Other Nanostructures Via Continuous 3â€Phase AC Plasma Processing. Fullerenes Nanotubes and Carbon Nanostructures, 2004, 12, 571-581.	2.1	15
42	Comparison of Simple Particle-Radiation Coupling Models Applied on a Plasma Black Process. Plasma Chemistry and Plasma Processing, 2004, 24, 603-623.	2.4	22
43	Synthesis of carbon nanotubes and nano-necklaces by thermal plasma process. Carbon, 2004, 42, 2543-2549.	10.3	61
44	STM and STS investigation of few-wall carbon nanotubes containing non-hexagonal rings. , 2003, , .		0
45	Carbon black processing by thermal plasma. Analysis of the particle formation mechanism. Chemical Engineering Science, 2001, 56, 2123-2132.	3.8	88
46	Title is missing!. Plasma Chemistry and Plasma Processing, 1999, 19, 69-89.	2.4	23