Alessandro Donazzi

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/5780676/publications.pdf

Version: 2024-02-01

45 papers	1,108 citations	394421 19 h-index	395702 33 g-index
46 all docs	46 docs citations	46 times ranked	946 citing authors

#	Article	IF	Citations
1	Catalytic partial oxidation of methane over a 4% Rh/Î±-Al2O3 catalystPart I: Kinetic study in annular reactor. Journal of Catalysis, 2008, 255, 241-258.	6.2	132
2	Catalytic partial oxidation of methane over a 4% Rh/Î±-Al2O3 catalyst Part II: Role of CO2 reforming. Journal of Catalysis, 2008, 255, 259-268.	6.2	95
3	Effects of H2O and CO2 addition in catalytic partial oxidation of methane on Rh. Journal of Catalysis, 2009, 265, 117-129.	6.2	85
4	Microkinetic modeling of spatially resolved autothermal CH4 catalytic partial oxidation experiments over Rh-coated foams. Journal of Catalysis, 2010, 275, 270-279.	6.2	79
5	Chemical and geometric effects of Ce and washcoat addition on catalytic partial oxidation of CH4 on Rh probed by spatially resolved measurements. Journal of Catalysis, 2008, 260, 270-275.	6.2	59
6	Catalytic partial oxidation of ethanol over Rh/Al2O3: Spatially resolved temperature and concentration profiles. Applied Catalysis A: General, 2013, 467, 530-541.	4.3	54
7	Evaluation of Ba deficient NdBaCo2O5+Î´ oxide as cathode material for IT-SOFC. Electrochimica Acta, 2015, 182, 573-587.	5.2	48
8	Synergy of Homogeneous and Heterogeneous Chemistry Probed by Inâ€…Situ Spatially Resolved Measurements of Temperature and Composition. Angewandte Chemie - International Edition, 2011, 50, 3943-3946.	13.8	47
9	Optimal design of a CH4 CPO-reformer with honeycomb catalyst: Combined effect of catalyst load and channel size on the surface temperature profile. Catalysis Today, 2011, 171, 79-83.	4.4	43
10	Testing in annular micro-reactor and characterization of supported Rh nanoparticles for the catalytic partial oxidation of methane: Effect of the preparation procedure. Applied Catalysis B: Environmental, 2008, 83, 96-109.	20.2	41
11	A kinetic analysis of the partial oxidation of C3H8 over a 2% Rh/Al2O3 catalyst in annular microreactor. Catalysis Today, 2012, 197, 265-280.	4.4	30
12	Surface temperature profiles in CH4 CPO over honeycomb supported Rh catalyst probed with in situ optical pyrometer. Applied Catalysis A: General, 2011, 402, 41-49.	4.3	29
13	Modification of LSF-YSZ Composite Cathodes by Atomic Layer Deposition. Journal of the Electrochemical Society, 2017, 164, F879-F884.	2.9	26
14	A detailed kinetic model for the reduction of oxygen on LSCF-GDC composite cathodes. Electrochimica Acta, 2020, 335, 135620.	5.2	25
15	Experimental and Modeling Analysis of the Thermal Behavior of an Autothermal C₃H₈Catalytic Partial Oxidation Reformer. Industrial & Engineering Chemistry Research, 2012, 51, 7573-7583.	3.7	22
16	Co-precipitation synthesis of SOFC electrode materials. International Journal of Hydrogen Energy, 2013, 38, 480-491.	7.1	21
17	Effect of pressure in the autothermal catalytic partial oxidation of CH4 and C3H8: Spatially resolved temperature and composition profiles. Applied Catalysis A: General, 2014, 469, 52-64.	4.3	21
18	A Distributed Charge Transfer Model for IT-SOFCs Based on Ceria Electrolytes. Journal of the Electrochemical Society, 2017, 164, F1249-F1264.	2.9	21

#	Article	IF	Citations
19	Optimal Design of A CPO-Reformer of Light Hydrocarbons with Honeycomb Catalyst: Effect of Frontal Heat Dispersions on the Temperature Profiles. Topics in Catalysis, 2011, 54, 866-872.	2.8	20
20	Electrical characterization of co-precipitated LaBaCo2O5+Î´ and YBaCo2O5+Î´ oxides. Journal of the European Ceramic Society, 2014, 34, 4257-4272.	5.7	20
21	Parameter Optimization for the Electrospinning of La_{1â€“x}Sr_xCo_{1â€“y}Fe_yO_{3â€“}_{Î´} Fibers for ITâ€SOFC Electrodes. Fuel Cells, 2017, 17, 415-422.	2.4	14
22	Structural and Electrochemical Characterization of NdBa_{1-x}Co_{2-y}Fe_yO_{5+Î´} as Cathode for Intermediate Temperature Solid Oxide Fuel Cells. Journal of the Electrochemical Society, 2020, 167, 024502.	2.9	14
23	Microkinetic analysis of CH4 CPO tests with CO2-diluted feed streams. Applied Catalysis A: General, 2011, 391, 350-359.	4.3	13
24	Annular reactor testing and Raman surface characterization in the CPO of methane and propylene. Applied Catalysis A: General, 2014, 474, 149-158.	4.3	12
25	Annular reactor testing and Raman surface characterization of the CPO of i-octane and n-octane on Rh based catalyst. Chemical Engineering Journal, 2016, 294, 9-21.	12.7	12
26	Experimental and model analysis of the co-oxidative behavior of syngas feed in an Intermediate Temperature Solid Oxide Fuel Cell. Journal of Power Sources, 2016, 306, 467-480.	7.8	12
27	In situ near-ambient pressure X-ray photoelectron spectroscopy discloses the surface composition of operating NdBaCo2O5+Î´ solid oxide fuel cell cathodes. Journal of Power Sources, 2019, 436, 226815.	7.8	12
28	Development of a Multiscale SOFC Model and Application to Axiallyâ€Graded Electrode Design. Fuel Cells, 2019, 19, 125-140.	2.4	11
29	A Kinetic Investigation of the Catalytic Partial Oxidation of Propylene over a Rh/Al₂O₃ Catalyst. Industrial & Engineering Chemistry Research, 2014, 53, 1804-1815.	3.7	10
30	A quasi 2D model for the interpretation of impedance and polarization of a planar solid oxide fuel cell with interconnects. Electrochimica Acta, 2021, 365, 137346.	5.2	10
31	Gaining insight into the kinetics of partial oxidation of light hydrocarbons on Rh, through a multiscale methodology based on advanced experimental and modeling techniques. Catalysis, 2013, , 1-49.	1.0	8
32	A multistep model for the kinetic analysis of the impedance spectra of a novel mixed ionic and electronic conducting cathode. Electrochimica Acta, 2016, 222, 1029-1044.	5.2	7
33	A fast regression model for the interpretation of electrochemical impedance spectra of Intermediate Temperature Solid Oxide Fuel Cells. Journal of Electroanalytical Chemistry, 2018, 823, 697-712.	3.8	7
34	Model analysis of atmospheric non-thermal plasma for methane abatement in a gas phase dielectric barrier discharge reactor. Chemical Engineering Science, 2020, 212, 115340.	3.8	7
35	Catalytic partial oxidation of CH4 and C3H8: experimental and modeling study of the dynamic and steady state behavior of a pilot-scale reformer. Studies in Surface Science and Catalysis, 2007, 167, 319-324.	1.5	5
36	Design and testing of an operando-Raman annular reactor for kinetic studies in heterogeneous catalysis. Reaction Chemistry and Engineering, 2017, 2, 908-918.	3.7	5

#	Article	IF	Citations
37	Electrochemical characterization of PrBa2â^'xSrxCu3O6+Î´ layered oxides as innovative and efficient oxygen electrode for IT-SOFCs. Solid State Ionics, 2020, 348, 115286.	2.7	5
38	Preparation, Characterization, and Kinetic Testing of Infiltrated LSF-YSZ Electrodes for Symmetric Solid Oxide Cells. Industrial & Engineering Chemistry Research, 2021, 60, 6639-6652.	3.7	5
39	Electrochemical and Chemical Characterization of NdBa1-XCo2-YFeYO5+Î´Cathodes for IT-SOFCs. ECS Transactions, 2017, 78, 507-520.	0.5	4
40	Copper Doped La_{0.8}Sr_{1.2}FeO₄ Ruddlesdenâ€Popper SOFC Cathode: Synthesis, Characterization and Model Analysis. Fuel Cells, 2018, 18, 27-41.	2.4	4
41	A Multi-Scale Modelling Approach and Experimental Calibration Applied to Commercial SOFCs. ECS Transactions, 2017, 78, 2645-2658.	0.5	3
42	Electrochemical Characterization of NdBa0.9Co2O5+Î´ SOFC Cathodes Prepared by Infiltration into Gd Doped Ceria Scaffolds. Journal of the Electrochemical Society, 0, , .	2.9	2
43	Fuel Processing for Solid Oxide Fuel Cells. Green Energy and Technology, 2018, , 97-141.	0.6	1
44	Distributed-Charge Transfer Model Analysis of SDC-based IT-SOFCs for the Electrochemical Oxidation of Syngas and Biogas. ECS Transactions, 2017, 78, 1305-1318.	0.5	0
45	Analysis of the Impact of Gas-Phase Chemistry in Adiabatic CPO Reactors by Axially Resolved Measurements. Advances in Chemical Engineering, 2017, 50, 161-201.	0.9	0