

Alessandro Donazzi

List of Publications by Year in descending order

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45
papers

1,108
citations

394421

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33
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all docs

46
docs citations

46
times ranked

946
citing authors

#	ARTICLE	IF	CITATIONS
1	A quasi 2D model for the interpretation of impedance and polarization of a planar solid oxide fuel cell with interconnects. <i>Electrochimica Acta</i> , 2021, 365, 137346.	5.2	10
2	Preparation, Characterization, and Kinetic Testing of Infiltrated LSF-YSZ Electrodes for Symmetric Solid Oxide Cells. <i>Industrial & Engineering Chemistry Research</i> , 2021, 60, 6639-6652.	3.7	5
3	Model analysis of atmospheric non-thermal plasma for methane abatement in a gas phase dielectric barrier discharge reactor. <i>Chemical Engineering Science</i> , 2020, 212, 115340.	3.8	7
4	A detailed kinetic model for the reduction of oxygen on LSCF-GDC composite cathodes. <i>Electrochimica Acta</i> , 2020, 335, 135620.	5.2	25
5	Structural and Electrochemical Characterization of $\text{NdBa}_{1-x}\text{Co}_{2-y}\text{Fe}_y\text{O}_{5+\delta}$ as Cathode for Intermediate Temperature Solid Oxide Fuel Cells. <i>Journal of the Electrochemical Society</i> , 2020, 167, 024502.	2.9	14
6	Electrochemical characterization of $\text{PrBa}_{2-x}\text{Sr}_x\text{Cu}_3\text{O}_{6+\delta}$ layered oxides as innovative and efficient oxygen electrode for IT-SOFCs. <i>Solid State Ionics</i> , 2020, 348, 115286.	2.7	5
7	In situ near-ambient pressure X-ray photoelectron spectroscopy discloses the surface composition of operating $\text{NdBaCo}_2\text{O}_{5+\delta}$ solid oxide fuel cell cathodes. <i>Journal of Power Sources</i> , 2019, 436, 226815.	7.8	12
8	Development of a Multiscale SOFC Model and Application to Axially Graded Electrode Design. <i>Fuel Cells</i> , 2019, 19, 125-140.	2.4	11
9	Copper Doped $\text{La}_{0.8}\text{Sr}_{1.2}\text{FeO}_4$ Ruddlesden-Popper SOFC Cathode: Synthesis, Characterization and Model Analysis. <i>Fuel Cells</i> , 2018, 18, 27-41.	2.4	4
10	Fuel Processing for Solid Oxide Fuel Cells. <i>Green Energy and Technology</i> , 2018, , 97-141.	0.6	1
11	A fast regression model for the interpretation of electrochemical impedance spectra of Intermediate Temperature Solid Oxide Fuel Cells. <i>Journal of Electroanalytical Chemistry</i> , 2018, 823, 697-712.	3.8	7
12	Parameter Optimization for the Electrospinning of $\text{La}_{1-x}\text{Sr}_x\text{Co}_{1-y}\text{Fe}_y\text{O}_{3+\delta}$ Fibers for IT-SOFC Electrodes. <i>Fuel Cells</i> , 2017, 17, 415-422.	2.4	14
13	Modification of LSF-YSZ Composite Cathodes by Atomic Layer Deposition. <i>Journal of the Electrochemical Society</i> , 2017, 164, F879-F884.	2.9	26
14	A Distributed Charge Transfer Model for IT-SOFCs Based on Ceria Electrolytes. <i>Journal of the Electrochemical Society</i> , 2017, 164, F1249-F1264.	2.9	21
15	Electrochemical and Chemical Characterization of $\text{NdBa}_{1-x}\text{Co}_{2-y}\text{Fe}_y\text{O}_{5+\delta}$ Cathodes for IT-SOFCs. <i>ECS Transactions</i> , 2017, 78, 507-520.	0.5	4
16	A Multi-Scale Modelling Approach and Experimental Calibration Applied to Commercial SOFCs. <i>ECS Transactions</i> , 2017, 78, 2645-2658.	0.5	3
17	Distributed-Charge Transfer Model Analysis of SDC-based IT-SOFCs for the Electrochemical Oxidation of Syngas and Biogas. <i>ECS Transactions</i> , 2017, 78, 1305-1318.	0.5	0
18	Design and testing of an operando-Raman annular reactor for kinetic studies in heterogeneous catalysis. <i>Reaction Chemistry and Engineering</i> , 2017, 2, 908-918.	3.7	5

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19	Analysis of the Impact of Gas-Phase Chemistry in Adiabatic CPO Reactors by Axially Resolved Measurements. <i>Advances in Chemical Engineering</i> , 2017, 50, 161-201.	0.9	0
20	A multistep model for the kinetic analysis of the impedance spectra of a novel mixed ionic and electronic conducting cathode. <i>Electrochimica Acta</i> , 2016, 222, 1029-1044.	5.2	7
21	Annular reactor testing and Raman surface characterization of the CPO of i-octane and n-octane on Rh based catalyst. <i>Chemical Engineering Journal</i> , 2016, 294, 9-21.	12.7	12
22	Experimental and model analysis of the co-oxidative behavior of syngas feed in an Intermediate Temperature Solid Oxide Fuel Cell. <i>Journal of Power Sources</i> , 2016, 306, 467-480.	7.8	12
23	Evaluation of Ba deficient NdBaCo ₂ O _{5+δ} oxide as cathode material for IT-SOFC. <i>Electrochimica Acta</i> , 2015, 182, 573-587.	5.2	48
24	Electrical characterization of co-precipitated LaBaCo ₂ O _{5+δ} and YBaCo ₂ O _{5+δ} oxides. <i>Journal of the European Ceramic Society</i> , 2014, 34, 4257-4272.	5.7	20
25	A Kinetic Investigation of the Catalytic Partial Oxidation of Propylene over a Rh/Al ₂ O ₃ Catalyst. <i>Industrial & Engineering Chemistry Research</i> , 2014, 53, 1804-1815.	3.7	10
26	Annular reactor testing and Raman surface characterization in the CPO of methane and propylene. <i>Applied Catalysis A: General</i> , 2014, 474, 149-158.	4.3	12
27	Effect of pressure in the autothermal catalytic partial oxidation of CH ₄ and C ₃ H ₈ : Spatially resolved temperature and composition profiles. <i>Applied Catalysis A: General</i> , 2014, 469, 52-64.	4.3	21
28	Gaining insight into the kinetics of partial oxidation of light hydrocarbons on Rh, through a multiscale methodology based on advanced experimental and modeling techniques. <i>Catalysis</i> , 2013, , 1-49.	1.0	8
29	Co-precipitation synthesis of SOFC electrode materials. <i>International Journal of Hydrogen Energy</i> , 2013, 38, 480-491.	7.1	21
30	Catalytic partial oxidation of ethanol over Rh/Al ₂ O ₃ : Spatially resolved temperature and concentration profiles. <i>Applied Catalysis A: General</i> , 2013, 467, 530-541.	4.3	54
31	A kinetic analysis of the partial oxidation of C ₃ H ₈ over a 2% Rh/Al ₂ O ₃ catalyst in annular microreactor. <i>Catalysis Today</i> , 2012, 197, 265-280.	4.4	30
32	Experimental and Modeling Analysis of the Thermal Behavior of an Autothermal C ₃ H ₈ Catalytic Partial Oxidation Reformer. <i>Industrial & Engineering Chemistry Research</i> , 2012, 51, 7573-7583.	3.7	22
33	Optimal Design of A CPO-Reformer of Light Hydrocarbons with Honeycomb Catalyst: Effect of Frontal Heat Dispersions on the Temperature Profiles. <i>Topics in Catalysis</i> , 2011, 54, 866-872.	2.8	20
34	Synergy of Homogeneous and Heterogeneous Chemistry Probed by In-situ Spatially Resolved Measurements of Temperature and Composition. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 3943-3946.	13.8	47
35	Optimal design of a CH ₄ CPO-reformer with honeycomb catalyst: Combined effect of catalyst load and channel size on the surface temperature profile. <i>Catalysis Today</i> , 2011, 171, 79-83.	4.4	43
36	Surface temperature profiles in CH ₄ CPO over honeycomb supported Rh catalyst probed with in situ optical pyrometer. <i>Applied Catalysis A: General</i> , 2011, 402, 41-49.	4.3	29

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37	Microkinetic analysis of CH ₄ CPO tests with CO ₂ -diluted feed streams. Applied Catalysis A: General, 2011, 391, 350-359.	4.3	13
38	Microkinetic modeling of spatially resolved autothermal CH ₄ catalytic partial oxidation experiments over Rh-coated foams. Journal of Catalysis, 2010, 275, 270-279.	6.2	79
39	Effects of H ₂ O and CO ₂ addition in catalytic partial oxidation of methane on Rh. Journal of Catalysis, 2009, 265, 117-129.	6.2	85
40	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
41	Catalytic partial oxidation of methane over a 4% Rh/Al ₂ O ₃ catalyst Part I: Kinetic study in annular reactor. Journal of Catalysis, 2008, 255, 241-258.	6.2	132
42	Catalytic partial oxidation of methane over a 4% Rh/Al ₂ O ₃ catalyst Part II: Role of CO ₂ reforming. Journal of Catalysis, 2008, 255, 259-268.	6.2	95
43	Chemical and geometric effects of Ce and washcoat addition on catalytic partial oxidation of CH ₄ on Rh probed by spatially resolved measurements. Journal of Catalysis, 2008, 260, 270-275.	6.2	59
44	Catalytic partial oxidation of CH ₄ and C ₃ H ₈ : 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
45	Electrochemical Characterization of NdBa _{0.9} Co ₂ O _{5+δ} SOFC Cathodes Prepared by Infiltration into Gd Doped Ceria Scaffolds. Journal of the Electrochemical Society, 0, , .	2.9	2