# Fernando Dorado FernÃ¡ndez

List of Publications by Year
in descending order



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|---|---|---|---|
| 113 papers | 3,125 citations | 126907 33 h-index | 206112 48 g-index |
| 113 all docs | 113 docs citations | 113 times ranked | 2387 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Electrochemical promotion of ethanol partial oxidation and reforming reactions for hydrogen production. Renewable Energy, 2022, 183, 515-523. | 8.9 | 12 |
| 2 | Gasification versus fast pyrolysis bio-oil production: A life cycle assessment. Journal of Cleaner Production, 2022, 336, 130373. | 9.3 | 22 |
| 3 | Boosting hydrogen and chemicals production through ethanol electro-reforming on Pt-transition metal anodes. Journal of Energy Chemistry, 2022, 70, 394-406. | 12.9 | 17 |
| 4 | Influence of Pt/Ru anodic ratio on the valorization of ethanol by PEM electrocatalytic reforming towards value-added products. Journal of Energy Chemistry, 2021, 56, 264-275. | 12.9 | 20 |
| 5 | Fast pyrolysis as an alternative to the valorization of olive mill wastes. Journal of the Science of Food and Agriculture, 2021, 101, 2650-2658. | 3.5 | 10 |
| 6 | Valorization of olive oil industry subproducts: ash and olive pomace fast pyrolysis. Food and Bioproducts Processing, 2021, 125, 37-45. | 3.6 | 25 |
| 7 | Membrane-Less Ethanol Electrooxidation over Pd-M (M: Sn, Mo and Re) Bimetallic Catalysts. Catalysts, 2021, 11, 541. | 3.5 | 3 |
| 8 | Catalytic effect of alkali and alkaline earth metals on fast pyrolysis preâ€treatment of agricultural waste. Biofuels, Bioproducts and Biorefining, 2021, 15, 1473-1484. | 3.7 | 13 |
| 9 | Fast pyrolysis of agroindustrial wastes blends: Hydrocarbon production enhancement. Journal of Analytical and Applied Pyrolysis, 2021, 157, 105242. | 5.5 | 11 |
| 10 | Additional pathways for the ethanol electro-reforming knowledge: The role of the initial concentration on the product yields. Fuel Processing Technology, 2021, 222, 106954. | 7.2 | 8 |
| 11 | Preliminary Design of a Self-Sufficient Electrical Storage System Based on Electrolytic Hydrogen for Power Supply in a Residential Application. Applied Sciences (Switzerland), 2021, 11, 9582. | 2.5 | 0 |
| 12 | Hydrogen storage for off-grid power supply based on solar PV and electrochemical reforming of ethanol-water solutions. Renewable Energy, 2020, 147, 639-649. | 8.9 | 31 |
| 13 | Electrochemical reforming of ethanol in a membrane-less reactor configuration. Chemical Engineering Journal, 2020, 379, 122289. | 12.7 | 32 |
| 14 | Process simulation and economic feasibility assessment of the methanol production via tri-reforming using experimental kinetic equations. International Journal of Hydrogen Energy, 2020, 45, 26623-26636. | 7.1 | 9 |
| 15 | Exergetic and Economic Improvement for a Steam Methane-Reforming Industrial Plant: Simulation Tool. Energies, 2020, 13, 3807. | 3.1 | 13 |
| 16 | Influence of the GDL and assembly mode of a PEM cell on the ethanol revalorization into chemicals. Chemical Engineering Journal, 2020, 402, 125298. | 12.7 | 20 |
| 17 | Over-faradaic hydrogen production in methanol electrolysis cells. Chemical Engineering Journal, 2020, 396, 125217. | 12.7 | 33 |
| 18 | Optimization of the catalytic support and membrane for the electrochemical reforming of ethanol in alkaline media. Journal of Chemical Technology and Biotechnology, 2019, 94, 3698-3705. | 3.2 | 9 |

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| 19 | Influence of the carbon support on the Ptâ€“Sn anodic catalyst for the electrochemical reforming of ethanol. International Journal of Hydrogen Energy, 2019, 44, 10616-10626. | 7.1 | 25 |
| 20 | Silica-Based Catalysts for Fuel Applications. , 2019, , 143-161. | | 2 |
| 21 | Taylor-made aerogels through a freeze-drying process: economic assessment. Journal of Sol-Gel Science and Technology, 2019, 89, 436-447. | 2.4 | 2 |
| 22 | Electrochemical promotion for hydrogen production via ethanol steam reforming reaction. Applied Catalysis B: Environmental, 2019, 243, 355-364. | 20.2 | 22 |
| 23 | Kinetics of the hydrogenation of CO 2 to methanol at atmospheric pressure using a Pd-Cu-Zn/SiC catalyst. Fuel Processing Technology, 2018, 173, 173-181. | 7.2 | 32 |
| 24 | Hydrogen from electrochemical reforming of ethanol assisted by sulfuric acid addition. Applied Catalysis B: Environmental, 2018, 231, 310-316. | 20.2 | 32 |
| 25 | Stability Testing of Pt x Sn1Ââ^'Âx /C Anodic Catalyst for Renewable Hydrogen Production Via Electrochemical Reforming of Ethanol. Electrocatalysis, 2018, 9, 293-301. | 3.0 | 14 |
| 26 | Hydrogenation of CO<sub>2</sub>to Methanol at Atmospheric Pressure over Cu/ZnO Catalysts: Influence of the Calcination, Reduction, and Metal Loading. Industrial & Engineering Chemistry Research, 2017, 56, 1979-1987. | 3.7 | 57 |
| 27 | Optimization of the Pd/Cu ratio in Pd-Cu-Zn/SiC catalysts for the CO 2 hydrogenation to methanol at atmospheric pressure. Journal of CO2 Utilization, 2017, 22, 71-80. | 6.8 | 54 |
| 28 | Effect of support nature on the cobalt-catalyzed CO2 hydrogenation. Journal of CO2 Utilization, 2017, 21, 562-571. | 6.8 | 91 |
| 29 | Enhancement of Ammonia Synthesis on a Co<sub>3</sub>Mo<sub>3</sub>N-Ag Electrocatalyst in a K-Î²Al<sub>2</sub>O<sub>3</sub> Solid Electrolyte Cell. ACS Sustainable Chemistry and Engineering, 2017, 5, 8844-8851. | 6.7 | 17 |
| 30 | Influence of Cobalt Precursor on Efficient Production of Commercial Fuels over FTS Co/SiC Catalyst. Catalysts, 2016, 6, 98. | 3.5 | 24 |
| 31 | Electrochemical promotion and characterization of PdZn alloy catalysts with K and Na ionic conductors for pure gaseous CO2 hydrogenation. Journal of CO2 Utilization, 2016, 16, 375-383. | 6.8 | 12 |
| 32 | Kinetic, energetic and exergetic approach to the methane tri-reforming process. International Journal of Hydrogen Energy, 2016, 41, 19339-19348. | 7.1 | 38 |
| 33 | Carbon Nanofiber-Based Palladium/Zinc Catalysts for the Hydrogenation of Carbon Dioxide to Methanol at Atmospheric Pressure. Industrial & Engineering Chemistry Research, 2016, 55, 3556-3567. | 3.7 | 38 |
| 34 | CO2 Hydrogenation to Methanol at Atmospheric Pressure: Influence of the Preparation Method of Pd/ZnO Catalysts. Catalysis Letters, 2016, 146, 373-382. | 2.6 | 48 |
| 35 | Catalytic and kinetic analysis of the methane tri-reforming over a Niâ€“Mg/Î²-SiC catalyst. International Journal of Hydrogen Energy, 2015, 40, 8677-8687. | 7.1 | 49 |
| 36 | Preparation of Niâ€“Mg/Î²-SiC catalysts for the methane tri-reforming: Effect of the order of metal impregnation. Applied Catalysis B: Environmental, 2015, 164, 316-323. | 20.2 | 50 |

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| 37 | Influence of alkaline and alkaline-earth cocations on the performance of Ni/Î²-SiC catalysts in the methane tri-reforming reaction. Applied Catalysis B: Environmental, 2014, 148-149, 322-329. | 20.2 | 34 |
| 38 | Influence of the support on the catalytic behaviour of Ni catalysts for the dry reforming reaction and the tri-reforming process. Journal of Molecular Catalysis A, 2014, 395, 108-116. | 4.8 | 54 |
| 39 | Electrochemical investigation of O2-exposed Pd electrodes supported on YSZ. Journal of Applied Electrochemistry, 2013, 43, 417-424. | 2.9 | 1 |
| 40 | Autothermal reforming and waterâ€"gas shift double bed reactor for H2 production from ethanol. Chemical Engineering and Processing: Process Intensification, 2013, 74, 14-18. | 3.6 | 19 |
| 41 | Experimental data and kinetic modeling of the catalytic and electrochemically promoted CH4 oxidation over Pd catalyst-electrodes. Chemical Engineering Journal, 2013, 225, 315-322. | 12.7 | 7 |
| 42 | Simultaneous production of H2 and C2 hydrocarbons by using a novel configuration solid-electrolyteÂ+Âfixed bed reactor. International Journal of Hydrogen Energy, 2013, 38, 3111-3122. | 7.1 | 13 |
| 43 | From biomass to pure hydrogen: Electrochemical reforming of bio-ethanol in a PEM electrolyser. Applied Catalysis B: Environmental, 2013, 134-135, 302-309. | 20.2 | 93 |
| 44 | Coupling catalysis and gas phase electrocatalysis for the simultaneous production and separation of pure H2 and C2 hydrocarbons from methane and natural gas. Applied Catalysis B: Environmental, 2013, 142-143, 298-306. | 20.2 | 10 |
| 45 | Enhanced electropromotion of methane combustion on palladium catalysts deposited on highly porous supports. Applied Catalysis B: Environmental, 2013, 132-133, 80-89. | 20.2 | 19 |
| 46 | Methane tri-reforming over a Ni/Î²-SiC-based catalyst: Optimizing the feedstock composition. International Journal of Hydrogen Energy, 2013, 38, 4524-4532. | 7.1 | 35 |
| 47 | Enhancing the combustion of natural gas by electrochemical promotion of catalysis. Electrochemistry Communications, 2012, 23, 9-12. | 4.7 | 6 |
| 48 | Precursor influence and catalytic behaviour of Ni/CeO2 and Ni/SiC catalysts for the tri-reforming process. Applied Catalysis A: General, 2012, 431-432, 49-56. | 4.3 | 68 |
| 49 | Electrochemical promotion of methane oxidation on Pd catalyst-electrodes deposited on Y2O3-stabilized-ZrO2. Applied Catalysis B: Environmental, 2012, 128, 48-54. | 20.2 | 19 |
| 50 | Electrochemical promotion of methane oxidation on impregnated and sputtered Pd catalyst-electrodes deposited on YSZ. Applied Catalysis B: Environmental, 2012, 127, 18-27. | 20.2 | 15 |
| 51 | Characterization of Pd catalyst-electrodes deposited on YSZ: Influence of the preparation technique and the presence of a ceria interlayer. Applied Surface Science, 2012, 261, 671-678. | 6.1 | 10 |
| 52 | Methane oxidation on Pd/YSZ by electrochemical promotion. Solid State Ionics, 2012, 225, 376-381. | 2.7 | 14 |
| 53 | Simultaneous production of H2 and C2 hydrocarbons by gas phase electrocatalysis. Applied Catalysis B: Environmental, 2012, 113-114, 192-200. | 20.2 | 13 |
| 54 | Oscillatory behavior of Rh/YSZ under electropromoted conditions. Chemical Physics Letters, 2012, 519-520, 89-92. | 2.6 | 2 |

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| 55 | Electrochemical reforming of ethanolâ€“water solutions for pure H2 production in a PEM electrolysis cell. International Journal of Hydrogen Energy, 2012, 37, 9504-9513. | 7.1 | 114 |
| 56 | Nickel supported carbon nanofibers as an active and selective catalyst for the gas-phase hydrogenation of 2-tert-butylphenol. Journal of Colloid and Interface Science, 2012, 380, 173-181. | 9.4 | 5 |
| 57 | Electrochemical activation of a non noble metal catalyst for the waterâ€“gas shift reaction. Catalysis Communications, 2011, 15, 6-9. | 3.3 | 22 |
| 58 | Nano-Scale Au Supported on Carbon Materials for the Low Temperature Water Gas Shift (WGS) Reaction. Catalysts, 2011, 1, 155-174. | 3.5 | 7 |
| 59 | Electrochemical Promotion of CH<sub>4</sub> Combustion over a Pd/CeO<sub>2</sub>â€“YSZ Catalyst. Fuel Cells, 2011, 11, 131-139. | 2.4 | 14 |
| 60 | Enhanced H2 formation by electrochemical promotion in a single chamber steam electrolysis cell. Applied Catalysis B: Environmental, 2011, , . | 20.2 | 4 |
| 61 | Development of a new electrochemical catalyst with an electrochemically assisted regeneration ability for H2 production at low temperatures. Journal of Catalysis, 2010, 274, 251-258. | 6.2 | 35 |
| 62 | Hydrocarbon selective catalytic reduction of NO over Cu/Fe-pillared clays: Diffuse reflectance infrared spectroscopy studies. Journal of Molecular Catalysis A, 2010, 332, 45-52. | 4.8 | 13 |
| 63 | Preferential CO oxidation in hydrogen-rich stream over an electrochemically promoted Pt catalyst. Applied Catalysis B: Environmental, 2010, 94, 281-287. | 20.2 | 22 |
| 64 | Pt/Kâ€“Î²Al2O3 solid electrolyte cell as a â€œsmart electrochemical catalystâ€•for the effective removal of NOx under wet reaction conditions. Catalysis Today, 2009, 146, 330-335. | 4.4 | 14 |
| 65 | Use of potassium conductors in the electrochemical promotion of environmental catalysis. Catalysis Today, 2009, 146, 293-298. | 4.4 | 8 |
| 66 | Complete oxidation of methane on Pd/YSZ and Pd/CeO2/YSZ by electrochemical promotion. Catalysis Today, 2009, 146, 326-329. | 4.4 | 31 |
| 67 | Preparation and characterization of a low particle size Pt/C catalyst electrode for the simultaneous electrochemical promotion of CO and C3H6 oxidation. Applied Catalysis A: General, 2009, 365, 274-280. | 4.3 | 16 |
| 68 | An electrochemically assisted NO storage/reduction catalyst operating under fixed lean burn conditions. Catalysis Communications, 2009, 11, 247-251. | 3.3 | 15 |
| 69 | Towards a new definition of EPOC parameters for anionic electrochemical catalysts: case of propene combustion. Journal of Applied Electrochemistry, 2008, 38, 1083-1088. | 2.9 | 9 |
| 70 | Electrochemical promotion of Pt impregnated catalyst for the treatment of automotive exhaust emissions. Journal of Applied Electrochemistry, 2008, 38, 1151-1157. | 2.9 | 19 |
| 71 | Influence of the reaction conditions on the electrochemical promotion by potassium for the selective catalytic reduction of N2O by C3H6 on platinum. Applied Catalysis B: Environmental, 2008, 78, 222-231. | 20.2 | 26 |
| 72 | A new improvement of catalysis by solid-state electrochemistry: An electrochemically assisted NOx storage/reduction catalyst. Journal of Catalysis, 2008, 259, 54-65. | 6.2 | 27 |

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| 73 | Electrochemical activation of Pt catalyst by potassium for low temperature CO deep oxidation. Catalysis Communications, 2008, 9, 17-20. | 3.3 | 33 |
| 74 | Selective catalytic reduction of NO by propene in the presence of oxygen and water over catalysts prepared by the modified solâ€“gel method. Catalysis Communications, 2007, 8, 736-740. | 3.3 | 3 |
| 75 | Influence of the reaction temperature on the electrochemical promoted catalytic behaviour of platinum impregnated catalysts for the reduction of nitrogen oxides under lean burn conditions. Applied Catalysis A: General, 2007, 321, 86-92. | 4.3 | 36 |
| 76 | Hydroisomerization of a refinery naphtha stream over platinum zeolite-based catalysts. Chemical Engineering Journal, 2007, 126, 13-21. | 12.7 | 35 |
| 77 | Effect of the binder content on the catalytic performance of beta-based catalysts. Journal of Molecular Catalysis A, 2007, 273, 109-113. | 4.8 | 33 |
| 78 | Low-temperature propene combustion over Pt/K-Î²Al2O3 electrochemical catalyst: Characterization, catalytic activity measurements, and investigation of the NEMCA effect. Journal of Catalysis, 2007, 251, 474-484. | 6.2 | 59 |
| 79 | Electrochemical promotion of platinum impregnated catalyst for the selective catalytic reduction of NO by propene in presence of oxygen. Applied Catalysis B: Environmental, 2007, 73, 42-50. | 20.2 | 73 |
| 80 | Ti-pillared clays: synthesis and general characterization. Clays and Clay Minerals, 2006, 54, 737-747. | 1.3 | 34 |
| 81 | Kinetic Model of the n-Octane Hydroisomerization on PtBeta Agglomerated Catalyst:â€‰ Influence of the Reaction Conditions. Industrial & Engineering Chemistry Research, 2006, 45, 978-985. | 3.7 | 16 |
| 82 | Copper ion-exchanged and impregnated Fe-pillared claysStudy of the influence of the synthesis conditions on the activity for the selective catalytic reduction of NO with C3H6. Applied Catalysis A: General, 2006, 305, 189-196. | 4.3 | 33 |
| 83 | Hydroisomerization of C6â€“C8 n-alkanes, cyclohexane and benzene over palladium and platinum beta catalysts agglomerated with bentonite. Applied Catalysis A: General, 2006, 314, 248-255. | 4.3 | 30 |
| 84 | Preparation of Cu-ion-exchanged Fe-PILCs for the SCR of NO by propene. Applied Catalysis B: Environmental, 2006, 65, 175-184. | 20.2 | 18 |
| 85 | Influence of the ion exchanged metal (Cu, Co, Ni and Mn) on the selective catalytic reduction of NOX over mordenite and ZSM-5. Journal of Molecular Catalysis A, 2005, 225, 47-58. | 4.8 | 86 |
| 86 | Hydroisomerization of n-octane over platinum catalysts with or without binder. Applied Catalysis A: General, 2005, 282, 15-24. | 4.3 | 70 |
| 87 | Influence of the Si/Al ratio in the hydroisomerization of n-octane over platinum and palladium beta zeolite-based catalysts with or without binder. Applied Catalysis A: General, 2005, 289, 205-213. | 4.3 | 31 |
| 88 | Study by in situ FTIR of the SCR of NO by propene on Cu2+ ion-exchanged Ti-PILC. Journal of Molecular Catalysis A, 2005, 230, 23-28. | 4.8 | 30 |
| 89 | Effect of the metal loading in the hydroisomerization of n-octane over beta agglomerated zeolite based catalysts. Applied Catalysis A: General, 2005, 294, 215-225. | 4.3 | 70 |
| 90 | Hydroisomerization of a Refinery Naphtha Stream over Agglomerated Pd Zeolites. Industrial & Engineering Chemistry Research, 2005, 44, 9050-9058. | 3.7 | 15 |

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| 91 | Influence of the Operating Parameters on the Selective Catalytic Reduction of NO with Hydrocarbons Using Cu-Ion-Exchanged Titanium-Pillared Interlayer Clays (Ti-PILCs). Industrial & Engineering Chemistry Research, 2005, 44, 2955-2965. | 3.7 | 16 |
| 92 | SCR of NO by Propene on Monometallic (Co or Ni) and Bimetallic (Co/Ag or Ni/Ag) Mordenite-Based Catalysts. Industrial & Engineering Chemistry Research, 2005, 44, 8988-8996. | 3.7 | 18 |
| 93 | Influence of palladium incorporation technique on n-butane hydroisomerization over HZSM-5/bentonite catalysts. Applied Catalysis A: General, 2004, 274, 79-85. | 4.3 | 10 |
| 94 | Influence of the Binder on then-Octane Hydroisomerization over Palladium-Containing Zeolite Catalysts. Industrial & Engineering Chemistry Research, 2004, 43, 8217-8225. | 3.7 | 55 |
| 95 | Cation exchanged and impregnated Ti-pillared clays for selective catalytic reduction of NOx by propylene. Applied Catalysis B: Environmental, 2003, 43, 43-56. | 20.2 | 85 |
| 96 | Synthesis and Characterization of Cuâ˜TiPILCs for Selective Catalytic Reduction of NO by Propylene in the Presence of Oxygen and H2O:Â Influence of the Calcination Temperature, the Copper Content, and the Cation Promoter (Ce/Ag). Industrial & Engineering Chemistry Research, 2003, 42, 3871-3880. | 3.7 | 7 |
| 97 | Characterization and Catalytic Properties of Titanium-Pillared Clays Prepared at Laboratory and Pilot Scales:Â A Comparative Study. Industrial & Engineering Chemistry Research, 2003, 42, 2783-2790. | 3.7 | 11 |
| 98 | PREPARATION AND CHARACTERIZATION OF Ti-PILLARED CLAYS USING Ti ALKOXIDES. INFLUENCE OF THE SYNTHESIS PARAMETERS. Clays and Clay Minerals, 2003, 51, 41-51. | 1.3 | 27 |
| 99 | Hydroisomerization of n-Butane over Pd/HZSM-5 and Pd/Hmordenite with and without binder. Studies in Surface Science and Catalysis, 2002, 142, 707-714. | 1.5 | 5 |
| 100 | Metal loaded Ti-pillared clays for selective catalytic reduction of NO by propylene. Studies in Surface Science and Catalysis, 2002, , 723-730. | 1.5 | 6 |
| 101 | Influence of cocations on the activity of Co-MOR for NO/N2O SCR by propene. Studies in Surface Science and Catalysis, 2002, 142, 731-738. | 1.5 | 3 |
| 102 | Assembly of a Multiphase Bioreactor for Laboratory Demonstrations: Study of the Oxygen-Transfer Efficiency in Activated Sludge. The Chemical Educator, 2002, 7, 90-95. | 0.0 | 4 |
| 103 | Hydroisomerization of n-butane over Pd/HZSM-5 and Pd/HÎ² with and without binder. Applied Catalysis A: General, 2002, 236, 235-243. | 4.3 | 80 |
| 104 | Influence of the synthesis conditions on the preparation of titanium-pillared clays using hydrolyzed titanium ethoxide as the pillaring agent. Microporous and Mesoporous Materials, 2002, 54, 155-165. | 4.4 | 61 |
| 105 | Influence of Clay Binders on the Performance of Pd/HZSM-5 Catalysts for the Hydroisomerization ofn-Butane. Industrial & Engineering Chemistry Research, 2001, 40, 3428-3434. | 3.7 | 63 |
| 106 | n-Butane hydroisomerization over Pd/HZSM-5 catalysts. Palladium loaded by ion exchange. Microporous and Mesoporous Materials, 2001, 42, 245-254. | 4.4 | 15 |
| 107 | Hydroisomerization of n-butane over hybrid catalysts. Applied Catalysis A: General, 2001, 217, 69-78. | 4.3 | 6 |
| 108 | Effect of zeolite pore geometry on isomerization of n-butane. Applied Catalysis A: General, 2000, 190, 233-239. | 4.3 | 19 |

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| 109 | n-Butane isomerization over H-mordenite: role of the monomolecular mechanism. Applied Catalysis A: General, 2000, 196, 225-231. | 4.3 | 23 |
| 110 | The role of sodium montmorillonite on bounded zeolite-type catalysts. Applied Clay Science, 2000, 16, 273-287. | 5.2 | 35 |
| 111 | Characterization of Ni and Pd supported on H-mordenite catalysts: Influence of the metal loading method. Applied Catalysis A: General, 1998, 169, 137-150. | 4.3 | 88 |
| 112 | n-Butane Hydroisomerization over Pd/HZSM-5 Catalysts. 1. Palladium Loaded by Impregnation. Industrial & Engineering Chemistry Research, 1998, 37, 2592-2600. | 3.7 | 22 |
| 113 | n-Butane Hydroisomerization over Pt/HZSM-5 Catalysts. Industrial & Engineering Chemistry Research, 1997, 36, 4797-4808. | 3.7 | 33 |