José M Herreros

List of Publications by Year in descending order

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IOSÃO M HEDDEDOS

| # | Article | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Emissions from a diesel–bioethanol blend in an automotive diesel engine. Fuel, 2008, 87, 25-31. | 6.4 | 287 |
| 2 | Combustion characteristics and emissions of 2-methylfuran compared to 2,5-dimethylfuran, gasoline and ethanol in a DISI engine. Fuel, 2013, 103, 200-211. | 6.4 | 254 |
| 3 | Effect of the alcohol type used in the production of waste cooking oil biodiesel on diesel performance and emissions. Fuel, 2008, 87, 3161-3169. | 6.4 | 226 |
| 4 | Impact of fuel and injection system on particle emissions from a GDI engine. Applied Energy, 2014, 132, 178-191. | 10.1 | 208 |
| 5 | Effect of engine operating conditions on the size of primary particles composing diesel soot agglomerates. Journal of Aerosol Science, 2007, 38, 455-466. | 3.8 | 194 |
| 6 | The effect of biodiesel fatty acid composition on combustion and diesel engine exhaust emissions. Fuel, 2013, 104, 170-182. | 6.4 | 169 |
| 7 | Ammonia as hydrogen carrier for transportation; investigation of the ammonia exhaust gas fuel reforming. International Journal of Hydrogen Energy, 2013, 38, 9907-9917. | 7.1 | 143 |
| 8 | Hydrogen assisted diesel combustion. International Journal of Hydrogen Energy, 2010, 35, 4382-4398. | 7.1 | 140 |
| 9 | The effect of the addition of individual methyl esters on the combustion and emissions of ethanol and butanol -diesel blends. Energy, 2012, 42, 364-374. | 8.8 | 124 |
| 10 | Diesel emissions improvements through the use of biodiesel or oxygenated blending components. Fuel, 2012, 95, 578-586. | 6.4 | 116 |
| 11 | Improving gasoline direct injection (GDI) engine efficiency and emissions with hydrogen from exhaust gas fuel reforming. International Journal of Hydrogen Energy, 2014, 39, 5153-5162. | 7.1 | 80 |
| 12 | Fuel Effect on Particulate Matter Composition and Soot Oxidation in a Direct-Injection Spark Ignition (DISI) Engine. Energy & Fuels, 2014, 28, 2003-2012. | 5.1 | 74 |
| 13 | Characteristics of LPG-diesel dual fuelled engine operated with rapeseed methyl ester and gas-to-liquid diesel fuels. Energy, 2012, 47, 620-629. | 8.8 | 66 |
| 14 | Enhancing the low temperature oxidation performance over a Pt and a Pt–Pd diesel oxidation catalyst. Applied Catalysis B: Environmental, 2014, 147, 835-841. | 20.2 | 66 |
| 15 | Investigation of two-stage split-injection strategies for a Dieseline fuelled PPCI engine. Fuel, 2013, 107, 299-308. | 6.4 | 65 |
| 16 | Effect of hydrogen on butanol–biodiesel blends in compression ignition engines. International Journal of Hydrogen Energy, 2013, 38, 1624-1635. | 7.1 | 61 |
| 17 | Finding Synergies in Fuels Properties for the Design of Renewable Fuels – Hydroxylated Biodiesel Effects on Butanol-Diesel Blends. Environmental Science & Technology, 2013, 47, 3535-3542. | 10.0 | 52 |
| 18 | Role of Alternative Fuels on Particulate Matter (PM) Characteristics and Influence of the Diesel Oxidation Catalyst. Environmental Science & Technology, 2015, 49, 11967-11973. | 10.0 | 51 |

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|----|--|------|-----------|
| 19 | Blending lignin-derived oxygenate in enhanced multi-component diesel fuel for improved emissions. Applied Energy, 2014, 116, 58-65. | 10.1 | 39 |
| 20 | Investigation of compression ratio and fuel effect on combustion and PM emissions in a DISI engine. Fuel, 2016, 169, 68-78. | 6.4 | 36 |
| 21 | Machine learning regression based group contribution method for cetane and octane numbers prediction of pure fuel compounds and mixtures. Fuel, 2020, 280, 118589. | 6.4 | 33 |
| 22 | Extending the environmental benefits of ethanol–diesel blends through DGE incorporation. Applied Energy, 2015, 146, 335-343. | 10.1 | 31 |
| 23 | Thermochemical recovery technology for improved modern engine fuel economy – part 1: analysis of a prototype exhaust gas fuel reformer. RSC Advances, 2015, 5, 35252-35261. | 3.6 | 29 |
| 24 | Gasoline direct injection engine soot oxidation: Fundamentals and determination of kinetic parameters. Combustion and Flame, 2018, 190, 177-187. | 5.2 | 29 |
| 25 | Reduction of Low Temperature Engine Pollutants by Understanding the Exhaust Species Interactions in a Diesel Oxidation Catalyst. Environmental Science & Technology, 2014, 48, 2361-2367. | 10.0 | 27 |
| 26 | Machine learning-quantitative structure property relationship (ML-QSPR) method for fuel physicochemical properties prediction of multiple fuel types. Fuel, 2021, 304, 121437. | 6.4 | 27 |
| 27 | Influence of Three-Way Catalyst on Gaseous and Particulate Matter Emissions During Gasoline Direct Injection Engine Cold-start. Johnson Matthey Technology Review, 2017, 61, 329-341. | 1.0 | 26 |
| 28 | Increased NO2 concentration in the diesel engine exhaust for improved Ag/Al2O3 catalyst NH3-SCR activity. Chemical Engineering Journal, 2015, 270, 582-589. | 12.7 | 25 |
| 29 | GDI Engine Performance and Emissions with Reformed Exhaust Gas Recirculation (REGR). , 0, , . | | 23 |
| 30 | Uncertainties in the determination of particle size distributions using a mini tunnel–SMPS system during Diesel engine testing. Measurement Science and Technology, 2007, 18, 2121-2130. | 2.6 | 22 |
| 31 | Influence of the addition of LPG-reformate and H2 on an engine dually fuelled with LPG–diesel, –RME and –GTL Fuels. Fuel, 2014, 118, 73-82. | 6.4 | 22 |
| 32 | Simultaneous control of NOx, soot and fuel economy of a diesel engine with dual-loop EGR and VNT using economic MPC. Control Engineering Practice, 2021, 108, 104701. | 5.5 | 19 |
| 33 | Chemical kinetic study on ignition and flame characteristic of polyoxymethylene dimethyl ether 3 (PODE3). Fuel, 2020, 279, 118423. | 6.4 | 18 |
| 34 | Exergy evaluation and ORC use as an alternative for efficiency improvement in a CI-engine power plant. Sustainable Energy Technologies and Assessments, 2018, 30, 216-223. | 2.7 | 17 |
| 35 | Advanced Combustion Operation in a Compression Ignition Engine. Energy & amp; Fuels, 2009, 23, 143-150. | 5.1 | 16 |
| 36 | Synergies in renewable fuels and exhaust heat thermochemical recovery in low carbon vehicles. Applied Energy, 2021, 302, 117491. | 10.1 | 13 |

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| 37 | Filtered EGR – a step towards an improved NOX/soot trade-off for DPF regeneration. RSC Advances, 2012, 2, 10400. | 3.6 | 12 |
| 38 | Influence of Short Carbon-Chain Alcohol (Ethanol and 1-Propanol)/Diesel Fuel Blends over Diesel Engine Emissions. Energies, 2021, 14, 1309. | 3.1 | 12 |
| 39 | Chemical kinetic modeling of diethoxymethane oxidation: A carbon–neutral fuel. Fuel, 2021, 291, 120217. | 6.4 | 12 |
| 40 | Novel Functional Group Contribution Method for Surrogate Formulation with Accurate Fuel Compositions. Energy & amp; Fuels, 2020, 34, 2989-3012. | 5.1 | 11 |
| 41 | Influence of Fuel Properties, Hydrogen, and Reformate Additions on Diesel-Biogas Dual-Fueled Engine. Journal of Energy Engineering - ASCE, 2014, 140, . | 1.9 | 10 |
| 42 | Experimental investigation of particle emissions from a Dieseline fuelled compression ignition engine. Fuel, 2019, 251, 175-186. | 6.4 | 10 |
| 43 | Engine Thermal Efficiency Gain and Well-to-Wheel Greenhouse Gas Savings When Using Bioethanol as a Gasoline-Blending Component in Future Spark-Ignition Engines: A China Case Study. Energy & Fuels, 2018, 32, 1724-1732. | 5.1 | 9 |
| 44 | Integrated machine learning-quantitative structure property relationship (ML-QSPR) and chemical kinetics for high throughput fuel screening toward internal combustion engine. Fuel, 2022, 307, 121908. | 6.4 | 9 |
| 45 | Thermal Performance of Diesel Aftertreatment: Material and Insulation CFD Analysis. , 0, , . | | 8 |
| 46 | Improving Ethanol-Diesel Blend Through the Use of Hydroxylated Biodiesel. , 2014, , . | | 8 |
| 47 | Gasoline Particulate Filter Wall Permeability Testing. SAE International Journal of Engines, 0, 11, 571-584. | 0.4 | 8 |
| 48 | Sensitivity of pollutants abatement in oxidation catalysts to the use of alternative fuels. Fuel, 2021, 297, 120686. | 6.4 | 8 |
| 49 | A Comparative Study of Biofuels and Fischer–Tropsch Diesel Blends on the Engine Combustion Performance for Reducing Exhaust Gaseous and Particulate Emissions. Energies, 2021, 14, 1538. | 3.1 | 7 |
| 50 | The Use of a Partial Flow Filter to Assist the Diesel Particulate Filter and Reduce Active Regeneration Events. SAE International Journal of Engines, 0, 7, 1953-1960. | 0.4 | 5 |
| 51 | Effects of high octane additivated gasoline fuel on Three Way Catalysts performance under an accelerated catalyst ageing procedure. Fuel, 2022, 312, 122970. | 6.4 | 5 |
| 52 | Impact of Alternative Paraffinic Fuels on the Durability of a Modern Common Rail Injection System. Energies, 2020, 13, 4166. | 3.1 | 4 |
| 53 | Investigation of the effects of split-injection on particle emissions from a Dieseline CI engine. Applied Energy, 2020, 262, 114470. | 10.1 | 4 |
| 54 | Fischer-Tropsch Diesel and Biofuels Exergy and Energy Analysis for Low Emissions Vehicles. Applied Sciences (Switzerland), 2021, 11, 5958. | 2.5 | 4 |

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|----|--|-----|-----------|
| 55 | Using Catalytic Heat Recovery to Improve Efficiency of Gasoline Spark Ignition Engines. Johnson Matthey Technology Review, 2018, 62, 407-416. | 1.0 | 3 |
| 56 | Machine learning and deep learning enabled fuel sooting tendency prediction from molecular structure. Journal of Molecular Graphics and Modelling, 2022, 111, 108083. | 2.4 | 3 |
| 57 | Electrified Powertrain with Multiple Planetary Gears and Corresponding Energy Management Strategy. Vehicles, 2021, 3, 341-356. | 3.1 | 2 |
| 58 | Tribological Performance of Biomass-Derived Bio-Alcohol and Bio-Ketone Fuels. Energies, 2021, 14, 5331. | 3.1 | 2 |
| 59 | Influence of the cell geometry on the conversion efficiency of oxidation catalysts under real driving conditions. Energy Conversion and Management, 2021, 233, 113888. | 9.2 | 1 |