

Samveg Saxena

List of Publications by Year in descending order

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Version: 2024-02-01

41
papers

2,431
citations

331670

21
h-index

454955

30
g-index

42
all docs

42
docs citations

42
times ranked

2388
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Fundamental phenomena affecting low temperature combustion and HCCI engines, high load limits and strategies for extending these limits. <i>Progress in Energy and Combustion Science</i> , 2013, 39, 457-488. | 31.2 | 486 |
| 2 | Autonomous taxis could greatly reduce greenhouse-gas emissions of US light-duty vehicles. <i>Nature Climate Change</i> , 2015, 5, 860-863. | 18.8 | 303 |
| 3 | Quantifying EV battery end-of-life through analysis of travel needs with vehicle powertrain models. <i>Journal of Power Sources</i> , 2015, 282, 265-276. | 7.8 | 250 |
| 4 | Quantifying electric vehicle battery degradation from driving vs. vehicle-to-grid services. <i>Journal of Power Sources</i> , 2016, 332, 193-203. | 7.8 | 198 |
| 5 | Experimental study of biogas combustion in an HCCI engine for power generation with high indicated efficiency and ultra-low NO _x emissions. <i>Energy Conversion and Management</i> , 2012, 53, 154-162. | 9.2 | 87 |
| 6 | Wet ethanol in HCCI engines with exhaust heat recovery to improve the energy balance of ethanol fuels. <i>Applied Energy</i> , 2012, 98, 448-457. | 10.1 | 86 |
| 7 | Intermediate temperature heat release in an HCCI engine fueled by ethanol/n-heptane mixtures: An experimental and modeling study. <i>Combustion and Flame</i> , 2014, 161, 680-695. | 5.2 | 83 |
| 8 | Flexible grid-based electrolysis hydrogen production for fuel cell vehicles reduces costs and greenhouse gas emissions. <i>Applied Energy</i> , 2020, 278, 115651. | 10.1 | 74 |
| 9 | Electrical consumption of two-, three- and four-wheel light-duty electric vehicles in India. <i>Applied Energy</i> , 2014, 115, 582-590. | 10.1 | 66 |
| 10 | Modeling of plug-in electric vehicle travel patterns and charging load based on trip chain generation. <i>Journal of Power Sources</i> , 2017, 359, 468-479. | 7.8 | 65 |
| 11 | Understanding optimal engine operating strategies for gasoline-fueled HCCI engines using crank-angle resolved exergy analysis. <i>Applied Energy</i> , 2014, 114, 155-163. | 10.1 | 64 |
| 12 | Quantifying the flexibility of hydrogen production systems to support large-scale renewable energy integration. <i>Journal of Power Sources</i> , 2018, 399, 383-391. | 7.8 | 55 |
| 13 | Optimal operating conditions for wet ethanol in a HCCI engine using exhaust gas heat recovery. <i>Applied Energy</i> , 2014, 116, 269-277. | 10.1 | 53 |
| 14 | Experimental evaluation of strategies to increase the operating range of a biogas-fueled HCCI engine for power generation. <i>Applied Energy</i> , 2012, 97, 618-629. | 10.1 | 51 |
| 15 | Clean vehicles as an enabler for a clean electricity grid. <i>Environmental Research Letters</i> , 2018, 13, 054031. | 5.2 | 49 |
| 16 | Understanding the fuel savings potential from deploying hybrid cars in China. <i>Applied Energy</i> , 2014, 113, 1127-1133. | 10.1 | 42 |
| 17 | Quantifying the benefits of electric vehicles on the future electricity grid in the midwestern United States. <i>Applied Energy</i> , 2020, 270, 115174. | 10.1 | 42 |
| 18 | Charging ahead on the transition to electric vehicles with standard 120 V wall outlets. <i>Applied Energy</i> , 2015, 157, 720-728. | 10.1 | 41 |

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|----|---|------|-----------|
| 19 | Analysis of benefits of using internal exhaust gas recirculation in biogas-fueled HCCI engines. Energy Conversion and Management, 2014, 87, 1186-1194. | 9.2 | 38 |
| 20 | Extending the Lean Stability Limits of Gasoline Using a Microwave-Assisted Spark Plug. , 0, , . | | 35 |
| 21 | Experimental and numerical analysis of the performance and exhaust gas emissions of a biogas/n-heptane fueled HCCI engine. Energy, 2016, 115, 180-193. | 8.8 | 33 |
| 22 | Maximizing Power Output in an Automotive Scale Multi-Cylinder Homogeneous Charge Compression Ignition (HCCI) Engine. , 0, , . | | 27 |
| 23 | Extending Lean Operating Limit and Reducing Emissions of Methane Spark-Ignited Engines Using a Microwave-Assisted Spark Plug. Journal of Combustion, 2012, 2012, 1-8. | 1.0 | 24 |
| 24 | Understanding Loss Mechanisms and Identifying Areas of Improvement for HCCI Engines Using Detailed Exergy Analysis. Journal of Engineering for Gas Turbines and Power, 2013, 135, . | 1.1 | 24 |
| 25 | Exploring Strategies for Reducing High Intake Temperature Requirements and Allowing Optimal Operational Conditions in a Biogas Fueled HCCI Engine for Power Generation. Journal of Engineering for Gas Turbines and Power, 2012, 134, . | 1.1 | 20 |
| 26 | Distributed optimal charging of electric vehicles for demand response and load shaping. , 2015, , . | | 19 |
| 27 | Experimental and Theoretical Study of the Energy Savings from Wet Ethanol Production and Utilization. Energy Technology, 2014, 2, 440-445. | 3.8 | 17 |
| 28 | Using CPE Function to Size Capacitor Storage for Electric Vehicles and Quantifying Battery Degradation during Different Driving Cycles. Energies, 2016, 9, 903. | 3.1 | 15 |
| 29 | Numerical Analysis of Biogas Composition Effects on Combustion Parameters and Emissions in Biogas Fueled HCCI Engines for Power Generation. Journal of Engineering for Gas Turbines and Power, 2013, 135, . | 1.1 | 14 |
| 30 | Increasing the signal-to-noise ratio of sparkplug ion sensors through the addition of a potassium acetate fuel additive. Proceedings of the Combustion Institute, 2011, 33, 3081-3088. | 3.9 | 13 |
| 31 | Quantifying the Flexibility for Electric Vehicles to Offer Demand Response to Reduce Grid Impacts without Compromising Individual Driver Mobility Needs. , 2015, , . | | 10 |
| 32 | A Sequential Chemical Kinetics-CFD-Chemical Kinetics Methodology to Predict HCCI Combustion and Main Emissions. , 2012, , . | | 9 |
| 33 | Characterization of Ion Signals under Ringing Conditions in an HCCI Engine. , 0, , . | | 8 |
| 34 | Multi-level computational exploration of advanced combustion engine operating strategies. Applied Energy, 2016, 184, 1273-1283. | 10.1 | 8 |
| 35 | Simulating a Complete Performance Map of an Ethanol-Fueled Boosted HCCI Engine. , 0, , . | | 7 |
| 36 | The Influence of Intake Pressure and Ethanol Addition to Gasoline on Single- and Dual-Stage Autoignition in an HCCI Engine. Energy & Fuels, 2018, 32, 9822-9837. | 5.1 | 5 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 37 | Understanding Loss Mechanisms and Identifying Areas of Improvement for HCCI Engines Using Detailed Exergy Analysis. , 2012, , . | | 3 |
| 38 | Understanding fuel savings mechanisms from hybrid vehicles to guide optimal battery sizing for India. International Journal of Powertrains, 2014, 3, 259. | 0.3 | 3 |
| 39 | Numerical Analysis of Biogas Composition Effects on Combustion Parameters and Emissions in Biogas Fueled HCCI Engines for Power Generation. , 2011, , . | | 2 |
| 40 | Quantifying electric vehicle battery degradation from driving vs. V2G services. , 2016, , . | | 1 |
| 41 | Optimal bidding strategy for V2G regulation services under uncertainty. , 2017, , . | | 1 |