# Robert Gordon

List of Publications by Year
in descending order



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|---|---|---|---|
| 51 papers | 1,607 citations | 304743 22 h-index | 302126 39 g-index |
| 52 all docs | 52 docs citations | 52 times ranked | 1117 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Simultaneous Rayleigh temperature, OH- and CH2O-LIF imaging of methane jets in a vitiated coflow. Combustion and Flame, 2008, 155, 181-195. | 5.2 | 137 |
| 2 | Transport budgets in turbulent lifted flames of methane autoigniting in a vitiated co-flow. Combustion and Flame, 2007, 151, 495-511. | 5.2 | 113 |
| 3 | A numerical study of auto-ignition in turbulent lifted flames issuing into a vitiated co-flow. Combustion Theory and Modelling, 2007, 11, 351-376. | 1.9 | 110 |
| 4 | Visualization of blow-off events in bluff-body stabilized turbulent premixed flames. Proceedings of the Combustion Institute, 2011, 33, 1559-1566. | 3.9 | 81 |
| 5 | Experimental analysis of flashback in lean premixed swirling flames: upstream flame propagation. Experiments in Fluids, 2010, 49, 853-863. | 2.4 | 76 |
| 6 | Generalizing the behavior of flash-boiling, plume interaction and spray collapse for multi-hole, direct injection. Fuel, 2017, 200, 345-356. | 6.4 | 72 |
| 7 | Simultaneous three-component PIV/OH-PLIF measurements of a turbulent lifted, C3H8-Argon jet diffusion flame at 1.5kHz repetition rate. Proceedings of the Combustion Institute, 2009, 32, 905-912. | 3.9 | 70 |
| 8 | Heat release rate as represented by [OH] Ã— [CH<sub>2</sub>O] and its role in autoignition. Combustion Theory and Modelling, 2009, 13, 645-670. | 1.9 | 67 |
| 9 | New Perspectives on Turbulent Combustion: Multi-Parameter High-Speed Planar Laser Diagnostics. Flow, Turbulence and Combustion, 2011, 86, 313-341. | 2.6 | 67 |
| 10 | Influence of steam dilution on the ignition of hydrogen, syngas and natural gas blends at elevated pressures. Combustion and Flame, 2015, 162, 1126-1135. | 5.2 | 61 |
| 11 | On the importance of temporal context in interpretation of flame discontinuities. Combustion and Flame, 2009, 156, 269-271. | 5.2 | 58 |
| 12 | Pixel-based characterisation of CMOS high-speed camera systems. Applied Physics B: Lasers and Optics, 2011, 103, 421-433. | 2.2 | 56 |
| 13 | Influence of building envelopes, climates, and occupancy patterns on residential HVAC demand. Journal of Building Engineering, 2019, 22, 33-47. | 3.4 | 47 |
| 14 | Life cycle analysis (LCA) of low emission methanol and di-methyl ether (DME) derived from natural gas. Fuel, 2018, 220, 871-878. | 6.4 | 46 |
| 15 | Statistics of relative and absolute velocities of turbulent non-premixed edge flames following spark ignition. Proceedings of the Combustion Institute, 2009, 32, 2957-2964. | 3.9 | 45 |
| 16 | High-speed mixture fraction imaging. Applied Physics B: Lasers and Optics, 2009, 96, 745-748. | 2.2 | 44 |
| 17 | Measurements from flame chemiluminescence tomography of forced laminar premixed propane flames. Combustion and Flame, 2017, 183, 1-14. | 5.2 | 42 |
| 18 | Simulations of Autoignition and Laminar Premixed Flames in Methane/Air Mixtures Diluted with Hot Products. Combustion Science and Technology, 2014, 186, 453-465. | 2.3 | 40 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Unsteady flameâ€“wall interaction: Impact on CO emission and wall heat flux. Combustion and Flame, 2019, 207, 406-416. | 5.2 | 37 |
| 20 | Detailed Multi-dimensional Study of Pollutant Formation in a Methane Diffusion Flame. Energy & Fuels, 2012, 26, 1598-1611. | 5.1 | 33 |
| 21 | Baseline methodologies for small scale residential demand response. , 2016, , . | | 27 |
| 22 | On the Fuel Spray Transition to Dense Fluid Mixing at Reciprocating Engine Conditions. Energy & Fuels, 2017, 31, 6445-6454. | 5.1 | 27 |
| 23 | On the phase and structural variability of directly injected propane at spark ignition engine conditions. Fuel, 2018, 222, 294-306. | 6.4 | 27 |
| 24 | Head-on quenching of laminar premixed methane flames diluted with hot combustion products. Proceedings of the Combustion Institute, 2019, 37, 5095-5103. | 3.9 | 23 |
| 25 | Lifted Diffusion Flame Stabilisation: Conditional Analysis of Multi-Parameter High-Repetition Rate Diagnostics at the Flame Base. Flow, Turbulence and Combustion, 2012, 88, 503-527. | 2.6 | 22 |
| 26 | A Joint Electrical and Thermodynamic Approach to HVAC Load Control. IEEE Transactions on Smart Grid, 2020, 11, 15-25. | 9.0 | 19 |
| 27 | Detailed Emissions Prediction for a Turbulent Swirling Nonpremixed Flame. Energy & Fuels, 2014, 28, 1470-1488. | 5.1 | 17 |
| 28 | Flame-wall interaction of a forced laminar premixed propane flame: Flame dynamics and exhaust CO emissions. Proceedings of the Combustion Institute, 2019, 37, 5385-5392. | 3.9 | 16 |
| 29 | An investigation on the impact of small-scale models in gasoline direct injection sprays (ECN Spray G). International Journal of Engine Research, 2020, 21, 217-225. | 2.3 | 16 |
| 30 | Turbulent flame-wall interactions for flames diluted by hot combustion products. Combustion and Flame, 2021, 230, 111432. | 5.2 | 14 |
| 31 | Optical Characterization of Propane at Representative Spark Ignition, Gasoline Direct Injection Conditions. , 0, , . | | 12 |
| 32 | Measurement of Sauter mean diameter in diesel sprays using a scatteringâ€“absorption measurement ratio technique. International Journal of Engine Research, 2019, 20, 6-17. | 2.3 | 10 |
| 33 | Exhaust CO emissions of a laminar premixed propaneâ€“air flame interacting with cold gas jets. Combustion and Flame, 2019, 210, 374-388. | 5.2 | 9 |
| 34 | Autoignition of monodisperse biodiesel and diesel sprays in turbulent flows. Experimental Thermal and Fluid Science, 2012, 43, 40-46. | 2.7 | 8 |
| 35 | A multispectral, extinction-based diagnostic for drop sizing in optically dense diesel sprays. International Journal of Engine Research, 2020, 21, 15-25. | 2.3 | 6 |
| 36 | A comparative study of flame-wall interaction and flame-cooling air interaction. International Journal of Heat and Fluid Flow, 2021, 92, 108888. | 2.4 | 6 |

| # | Article | IF | Citations |
|---|---|---|---|
| 37 | Model Predictive Control of Residential Demand in Low Voltage Network using Ice Storage. , 2018, , . | | 5 |
| 38 | The feasibility of cost-effective gas through network interconnectivity: Possibility or pipe dream?. Energy, 2018, 165, 1370-1379. | 8.8 | 5 |
| 39 | Solar Curtailment Requirements in Low Voltage Networks: Impact of Climate and Building Wall Types in Australia. , 2018, , . | | 5 |
| 40 | The Direct Transition of Fuel Sprays to theDense-Fluid Mixing Regime in the Contextof Modern Compression Ignition Engines. , 0, , . | | 3 |
| 41 | Customer Selection for Residential Demand Response with Thermostatically Controlled Loads. , 2019, , . | | 3 |
| 42 | Reduced chemistry for sound generation by planar annihilation in premixed methane/hydrogen flames. Proceedings of the Combustion Institute, 2021, 38, 6125-6133. | 3.9 | 3 |
| 43 | Flash vaporization of propane in an optically accessible, directly injected engine. International Journal of Engine Research, 2021, 22, 685-696. | 2.3 | 3 |
| 44 | CO modelling of premixed head-on quenching flame in the context of Large-Eddy Simulation. International Journal of Heat and Fluid Flow, 2022, 93, 108895. | 2.4 | 3 |
| 45 | Ignition of dense, inhomogeneous fuel sprays at elevated pressures and temperatures. Fuel, 2022, 321, 123853. | 6.4 | 3 |
| 46 | A priori assessment of flame surface density modelling for large-eddy simulation of sound generation by turbulent premixed flames. Combustion and Flame, 2022, 241, 112143. | 5.2 | 3 |
| 47 | Analysis of Near-Wall CO due to Unsteady Flame-Cooling Air Interaction. Flow, Turbulence and Combustion, 2021, 107, 343-365. | 2.6 | 2 |
| 48 | Optimization of CO Turndown for an Axially Staged Gas Turbine Combustor. Journal of Engineering for Gas Turbines and Power, 2021, 143, . | 1.1 | 2 |
| 49 | Spectral Microscopy Imaging System for High-Resolution and High-Speed Imaging of Fuel Sprays. Journal of Engineering for Gas Turbines and Power, 2020, 142, . | 1.1 | 2 |
| 50 | Combustion Characteristics of a Reverse-Cross-Flow Combustor. Journal of the Energy Institute, 2022, , . | 5.3 | 2 |
| 51 | Autoignition of Liquid Fuel Droplets in a Turbulent Cross-Flow of Air. , 2011, , . | | 1 |