# Robert Prucka

## List of Publications by Year
## in descending order

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|---|---|---|---|
| **21**<br>papers | **171**<br>citations | 1937685<br>**4**<br>h-index | 2053705<br>**5**<br>g-index |
| **21**<br>all docs | **21**<br>docs citations | **21**<br>times ranked | **95**<br>citing authors |

| # | Article | IF | Citations |
|---|---------|----|-----------|
| 1 | Assessment of Cooled Low Pressure EGR in a Turbocharged Direct Injection Gasoline Engine. SAE International Journal of Engines, 0, 8, 1535-1543. | 0.4 | 35 |
| 2 | A Review of Spark-Ignition Engine Air Charge Estimation Methods. , 0, , . | | 18 |
| 3 | A Real-Time Model for Spark Ignition Engine Combustion Phasing Prediction. SAE International Journal of Engines, 0, 9, 1180-1190. | 0.4 | 16 |
| 4 | Control-oriented residual gas mass prediction for spark ignition engines. International Journal of Engine Research, 2015, 16, 897-907. | 2.3 | 13 |
| 5 | Pattern recognition technique based active set QP strategy applied to MPC for a driving cycle test. , 2015, , . | | 12 |
| 6 | Model-Based Control-Oriented Combustion Phasing Feedback for Fast CA50 Estimation. SAE International Journal of Engines, 0, 8, 997-1004. | 0.4 | 11 |
| 7 | Model-Based Optimal Combustion Phasing Control Strategy for Spark Ignition Engines. SAE International Journal of Engines, 0, 9, 1170-1179. | 0.4 | 10 |
| 8 | A Control Algorithm for Low Pressure - EGR Systems Using a Smith Predictor with Intake Oxygen Sensor Feedback. , 0, , . | | 9 |
| 9 | Input Adaptation for Control Oriented Physics-Based SI Engine Combustion Models Based on Cylinder Pressure Feedback. SAE International Journal of Engines, 2015, 8, 1463-1471. | 0.4 | 7 |
| 10 | A Nonlinear Model Predictive Control Strategy with a Disturbance Observer for Spark Ignition Engines with External EGR. SAE International Journal of Commercial Vehicles, 0, 10, 360-372. | 0.4 | 7 |
| 11 | Evaluation of autoignition models for production control of a spark-assisted compression ignition engine. International Journal of Engine Research, 2021, 22, 2732-2744. | 2.3 | 7 |
| 12 | Observer-Based Cylinder Air Charge Estimation for Spark-Ignition Engines. Journal of Engineering for Gas Turbines and Power, 2017, 139, . | 1.1 | 6 |
| 13 | Physics-Based Exhaust Pressure and Temperature Estimation for Low Pressure EGR Control in Turbocharged Gasoline Engines. , 0, , . | | 5 |
| 14 | Transient Hybrid Electric Vehicle Powertrain Control Based on Iterative Dynamic Programing. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2022, 144, . | 1.6 | 4 |
| 15 | Model Predictive Engine Speed Control for Transmissions With Dog Clutches. Journal of Engineering for Gas Turbines and Power, 2017, 139, . | 1.1 | 3 |
| 16 | Evaluation of control-oriented flame propagation models for production control of a spark-assisted compression ignition engine. Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering, 0, , 095440702110208. | 1.9 | 3 |
| 17 | Integrated Engine States Estimation Using Extended Kalman Filter and Disturbance Observer. SAE International Journal of Advances and Current Practices in Mobility, 0, 2, 929-938. | 2.0 | 3 |
| 18 | Short-term and long-term adaptation algorithm for low-pressure exhaust gas recirculation estimation in spark-ignition engines. International Journal of Engine Research, 2019, 20, 424-440. | 2.3 | 1 |

| # | Article | IF | Citations |
|---|---------|----|-----------| 
| 19 | Neural Network Design of Control-Oriented Autoignition Model for Spark Assisted Compression Ignition Engines. , 0, , . | | 1 |
| 20 | Online Spark Timing Optimization With Complex High-Fidelity Combustion Phasing, Knock, and Coefficient of Variation of IMEP Models. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2021, 143, . | 1.6 | 0 |
| 21 | A Quasi-Dimensional Fuel Distribution Model for a Radially Stratified Engine. Journal of Engineering for Gas Turbines and Power, 2021, 143, . | 1.1 | 0 |