# Gautam Kalghatgi

List of Publications by Year
in descending order



| 27 | 2,435 | 567281 15 | 794594 19 |
|---|---|---|---|
| papers | citations | h-index | g-index |

| 28 | 28 | 28 | 1508 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Review of Life Cycle Analysis Studies of Less Processed Fuel for Gasoline Compression Ignition Engines. Energy, Environment, and Sustainability, 2022, , 245-273. | 1.0 | 1 |
| 2 | Introduction to Engines and Fuels for Future Transport. Energy, Environment, and Sustainability, 2022, , 1-5. | 1.0 | 2 |
| 3 | Electrifying passenger road transport in India requires near-term electricity grid decarbonisation. Nature Communications, 2022, 13, 2095. | 12.8 | 22 |
| 4 | The scope for improving the efficiency and environmental impact of internal combustion engines. Transportation Engineering, 2020, 1, 100005. | 4.2 | 229 |
| 5 | Development of Fuel/Engine Systemsâ€"The Way Forward to Sustainable Transport. Engineering, 2019, 5, 510-518. | 6.7 | 85 |
| 6 | Leveraging the benefits of ethanol in advanced engine-fuel systems. Energy Conversion and Management, 2018, 157, 480-497. | 9.2 | 36 |
| 7 | Gasoline compression ignition approach to efficient, clean and affordable future engines. Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering, 2018, 232, 118-138. | 1.9 | 92 |
| 8 | Knock onset, knock intensity, superknock and preignition in spark ignition engines. International Journal of Engine Research, 2018, 19, 7-20. | 2.3 | 65 |
| 9 | Future transportation fuels. Progress in Energy and Combustion Science, 2018, 69, 103-105. | 31.2 | 72 |
| 10 | Is it really the end of internal combustion engines and petroleum in transport?. Applied Energy, 2018, 225, 965-974. | 10.1 | 448 |
| 11 | SuperButolâ„¢ â€“ A novel high-octane gasoline blending component. Fuel, 2017, 195, 165-173. | 6.4 | 9 |
| 12 | Synergistic engine-fuel technologies for light-duty vehicles: Fuel economy and Greenhouse Gas Emissions. Applied Energy, 2017, 208, 1538-1561. | 10.1 | 44 |
| 13 | Autoignition characteristics of oxygenated gasolines. Combustion and Flame, 2017, 186, 114-128. | 5.2 | 63 |
| 14 | Maximizing the benefits of high octane fuels in spark-ignition engines. Fuel, 2017, 207, 470-487. | 6.4 | 30 |
| 15 | Relating the octane numbers of fuels to ignition delay times measured in an ignition quality tester (IQT). Fuel, 2017, 187, 117-127. | 6.4 | 77 |
| 16 | A methodology to relate octane numbers of binary and ternary n-heptane, iso-octane and toluene mixtures with simulated ignition delay times. Fuel, 2015, 160, 458-469. | 6.4 | 80 |
| 17 | Mapping surrogate gasoline compositions into RON/MON space. Combustion and Flame, 2010, 157, 1122-1131. | 5.2 | 231 |
| 18 | Co-oxidation in the auto-ignition of primary reference fuels and n-heptane/toluene blends. Combustion and Flame, 2005, 140, 267-286. | 5.2 | 130 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Fuel Octane Effects in the Partially Premixed Combustion Regime in Compression Ignition Engines. , 0, , . | | 143 |
| 20 | Investigation into Light Duty Dieseline Fuelled Partially-Premixed Compression Ignition Engine. SAE International Journal of Engines, 0, 4, 2124-2134. | 0.4 | 68 |
| 21 | Fuel Effects on Knock in a Highly Boosted Direct Injection Spark Ignition Engine. SAE International Journal of Fuels and Lubricants, 0, 5, 1048-1065. | 0.2 | 65 |
| 22 | Vehicle Demonstration of Naphtha Fuel Achieving Both High Efficiency and Drivability with EURO6 Engine-Out NOx Emission. SAE International Journal of Engines, 0, 6, 101-119. | 0.4 | 102 |
| 23 | Compression Ratio and Derived Cetane Number Effects on Gasoline Compression Ignition Engine Running with Naphtha Fuels. SAE International Journal of Fuels and Lubricants, 0, 7, 412-426. | 0.2 | 64 |
| 24 | An Alternative Method Based on Toluene/n-Heptane Surrogate Fuels for Rating the Anti-Knock Quality of Practical Gasolines. SAE International Journal of Fuels and Lubricants, 0, 7, 663-672. | 0.2 | 45 |
| 25 | A Simple Method to Predict Knock Using Toluene, N-Heptane and Iso-Octane Blends (TPRF) as Gasoline Surrogates. SAE International Journal of Engines, 0, 8, 505-519. | 0.4 | 136 |
| 26 | Improving the Efficiency of Conventional Spark-Ignition Engines Using Octane-on-Demand Combustion - Part II: Vehicle Studies and Life Cycle Assessment. , 0, , . | | 27 |
| 27 | On Knock Intensity and Superknock in SI Engines. SAE International Journal of Engines, 0, 10, 1051-1063. | 0.4 | 66 |