Leonid M Tartakovsky

List of Publications by Citations

47 papers	690 citations	16 h-index	25 g-index
54 ext. papers	901 ext. citations	5.7 avg, IF	4.98 L-index

#	Paper	IF	Citations
47	Fuel reforming in internal combustion engines. *Progress in Energy and Combustion Science*, **2018**, 67, 88-114	35.6	148
46	Energy efficiency of a direct-injection internal combustion engine with high-pressure methanol steam reforming. *Energy*, **2015**, 88, 506-514	7.9	50
45	In-vehicle particle air pollution and its mitigation. *Atmospheric Environment*, **2013**, 64, 320-328	5.3	46
44	Performance and emissions of a direct injection internal combustion engine devised for joint operation with a high-pressure thermochemical recuperation system. *Energy*, **2017**, 124, 214-226	7.9	41
43	Measurement of the laminar burning velocity using the confined and unconfined spherical flame methods – A comparative analysis. *Combustion and Flame*, **2016**, 168, 127-137	5.3	35
42	Influence of methanol reformate injection strategy on performance, available exhaust gas enthalpy and emissions of a direct-injection spark ignition engine. *International Journal of Hydrogen Energy*, **2017**, 42, 15652-15668	6.7	34
41	Direct injection internal combustion engine with high-pressure thermochemical recuperation – Experimental study of the first prototype. *International Journal of Hydrogen Energy*, **2018**, 43, 11969-11980	6.7	34
40	Energy analysis of ethanol steam reforming for hybrid electric vehicle. *International Journal of Energy Research*, **2013**, 37, 259-267	4.5	29
39	Modeling Internal Combustion Engine with Thermo-Chemical Recuperation of the Waste Heat by Methanol Steam Reforming. *SAE International Journal of Engines*, **2014**, 7, 234-242	2.4	26
38	Impact of various blends of linseed oil-derived biodiesel on combustion and particle emissions of a compression ignition engine – A comparison with diesel and soybean fuels. *Energy Conversion and Management*, **2018**, 178, 178-189	10.6	25
37	Ultrafine particle emissions by in-use diesel buses of various generations at low-load regimes. *Atmospheric Environment*, **2015**, 107, 273-280	5.3	21
36	Simulation of Wankel Engine Performance Using Commercial Software for Piston Engines **2012**,		20
35	Second-law analysis of the reforming-controlled compression ignition. *Applied Energy*, **2020**, 263, 114622	10.7	19
34	Particle emissions of direct injection internal combustion engine fed with a hydrogen-rich reformate. *International Journal of Hydrogen Energy*, **2019**, 44, 28342-28356	6.7	19
33	Buses retrofitting with diesel particle filters: Real-world fuel economy and roadworthiness test considerations. *Journal of Environmental Sciences*, **2018**, 67, 273-286	6.4	18
32	Comparative Performance Analysis of SI Engine Fed by Ethanol and Methanol Reforming Products **2013**,		17
31	Performance Analysis of SI Engine Fueled by Ethanol Steam Reforming Products **2011**,		16

30	Ultrafine particle air pollution inside diesel-propelled passenger trains. *Environmental Pollution*, **2017**, 226, 288-296	9.3	12
29	Fuel Effects on Emissions **1998**, 547-651		10
28	Laminar Burning Velocity of Alcohol Reforming Products and Effects of Cellularity on Flame Propagation **2015**,		8
27	Thermo-Chemical Recuperation as an Efficient Way of Engine Waste Heat Recovery. *Applied Mechanics and Materials*, **2014**, 659, 256-261	0.3	6
26	Reforming Controlled Homogenous Charge Compression Ignition -Simulation Results **2016**,		6
25	Reforming-Controlled Compression Ignition - A Method Combining Benefits of Reactivity-Controlled Compression Ignition and High-Pressure Thermochemical Recuperation		5
24	Modeling of the Regeneration Processes in Diesel Particulate Filters. *Energy and Power*, **2012**, 2, 96-106	1	5
23	Efficiency at Maximum Power of the Low-Dissipation Hybrid Electrochemical Otto Cycle. *Energies*, **2020**, 13, 3961	3.1	5
22	Performance and pollutant emission of the reforming-controlled compression ignition engine Experimental study. *Energy Conversion and Management*, **2021**, 237, 114126	10.6	5
21	Flow field characteristics of a confined, underexpanded transient round jet. *Physics of Fluids*, **2021**, 33, 085104	4.4	4
20	Energy and Environmental Impacts of Urban Buses and Passenger Cars Comparative Analysis of Sensitivity to Driving Conditions. *Environment and Pollution*, **2013**, 2,	1	3
19	Effects of Fuel Injection Method on Energy Efficiency and Combustion Characteristics of SI Engine Fed with a Hydrogen-Rich Reformate		3
18	High-pressure thermo-chemical recuperation a way toward sustainable propulsion systems. *Procedia Manufacturing*, **2018**, 21, 37-44	1.5	3
17	Limitations of Two-Stage Turbocharging at High Flight Altitudes. *SAE International Journal of Engines*, **2018**, 11, 511-524	2.4	3
16	Experimental comparison of performance and emissions of a direct-injection engine fed with alternative gaseous fuels. *Energy Conversion and Management*, **2022**, 251, 114988	10.6	2
15	Effect of Flight Altitude on the Knock Tendency of SI Reciprocating Turbocharged Engines **2016**,		2
14	An Analytical Model of a Two-Phase Jet with Application to Fuel Sprays in Internal Combustion Engines. *SAE International Journal of Engines*, **2014**, 8, 151-164	2.4	1
13	Internal Combustion Engine Response to Presence of Combustion Inhibitors in Ambient Air. *SAE International Journal of Engines*, **2013**, 6, 1138-1144	2.4	1

12	Mileage Influence on Conversion Efficiency of Catalytic Converter from In-Use Vehicles. *SAE International Journal of Engines*, **2012**, 5, 1617-1623	2.4	1
11	Fuel Effects on Emissions from Heavy-Duty Diesel Engines Results of Recent Research Programs **2001**,		1
10	Development of a Screening Test for Evaluating Detergent/Dispersant Additives to Diesel Fuels **1996**,		1
9	MODELING ENVIRONMENTAL IMPACT OF CYBERNETIC TRANSPORTATION SYSTEM. *Environmental Engineering and Management Journal*, **2015**, 14, 1161-1169	0.6	1
8	A Diesel Engine with a Catalytic Piston Surface to Propel Small Aircraft at High Altitudes A Theoretical Study. *Energies*, **2021**, 14, 1905	3.1	1
7	Power and Efficiency Characteristics of a Hybrid Electrochemical-ICE Cycle		1
6	Internal combustion engine with thermochemical recuperation fed by ethanol steam reforming products - feasibility study. *IOP Conference Series: Materials Science and Engineering*, **2016**, 147, 012109	0.4	1
5	Numerical Investigation of the Combined Influence of Three-Plug Arrangement and Slot Positioning on Wankel Engine Performance. *Energies*, **2021**, 14, 1130	3.1	0
4	Numerical Study of a Direct Injection Internal Combustion Engine Burning a Blend of Hydrogen and Dimethyl Ether. *Drones*, **2018**, 2, 23	5.4	0
3	Finite-time energy conversion in a hybrid cycle combining electrochemical, combustion and thermochemical recuperation processes. *Energy Conversion and Management*, **2022**, 262, 115673	10.6	0
2	Heat release peculiarities of polyoxymethylene dimethyl ether 1 Part I: Effect of initial thermochemical conditions. *Fuel*, **2022**, 321, 124007	7.1	0
1	Suitability of the Reforming-Controlled Compression Ignition Concept for UAV Applications. *Drones* , **2020**, 4, 60	5.4	