Eran Sher

List of Publications by Year
in descending order

32 papers	1,032 citations	759233 12 h-index	610901 24 g-index
32 all docs	32 docs citations	32 times ranked	716 citing authors

#	Article	IF	Citations
1	Cyclic Variability in Spark Ignition Engines A Literature Survey. , 0, , .		311
2	Flash-boiling atomization. Progress in Energy and Combustion Science, 2008, 34, 417-439.	31.2	278
3	The effect of an electric field on the shape of co-flowing and candle-type methaneâ€“air flames. Experimental Thermal and Fluid Science, 2000, 21, 124-133.	2.7	73
4	Spray Formation from Pressure Cans by Flashing. Industrial & Engineering Chemistry Process Design and Development, 1977, 16, 237-242.	0.6	50
5	Scavenging the two-stroke engine. Progress in Energy and Combustion Science, 1990, 16, 95-124.	31.2	42
6	Spark ignition of combustible gas mixtures. Combustion and Flame, 1986, 66, 17-25.	5.2	37
7	The elusive reality of efficacyâ€“performance cycles in basketball shooting: An analysis of playersâ€™ performance under invariant conditions. International Journal of Sport and Exercise Psychology, 2013, 11, 184-202.	2.1	32
8	SPRAY FORMATION BY FLASHING OF A BINARY MIXTURE: A PARAMETRIC STUDY. Atomization and Sprays, 1998, 8, 255-266.	0.8	22
9	Particle grouping, a new method for reducing emission of submicron particles from diesel engines. Fuel, 2010, 89, 2411-2416.	6.4	19
10	Modeling soot formation in diesel-biodiesel flames. Fuel, 2017, 206, 437-452.	6.4	19
11	Scaling-Down of Miniature Internal Combustion Engines: Limitations and Challenges. Heat Transfer Engineering, 2005, 26, 1-4.	1.9	18
12	Theoretical criteria for homogeneous flash boiling atomization. Chemical Engineering Science, 2019, 206, 471-475.	3.8	15
13	FLOW PATTERN OBSERVATIONS OF GASOLINE DISSOLVED CO2 INSIDE AN INJECTOR. , 2006, 16, 615-626.		15
14	Controlling nanoparticles emission with particle-grouping exhaust-pipe. Fuel, 2016, 166, 116-123.	6.4	14
15	A theoretical study of the combustion of liquids at a free surface. Combustion and Flame, 1982, 47, 109-128.	5.2	13
16	Prediction of the Gas Exchange Performance in a Two-Stroke Cycle Enginep. , 0, , .		11
17	Heat Transfer to the Electrodes a Possible Explanation of Misfire in SI-Engines. Combustion Science and Technology, 1992, 83, 323-325.	2.3	8
18	Flame Broadening and its Impact on the Apparent Lewis Number in Premixed Turbulent Reacting Flows. Combustion Science and Technology, 1996, 119, 1-11.	2.3	7

#	Article	IF	Citations
19	An Improved Gas Dynamic Model Simulating the Scavenging Process in a Two-Stroke Cycle Engine. , 1980, , .		6
20	SPRAY FORMATION BY FLASHING OF A BINARY MIXTURE: AN ENERGY BALANCE APPROACH. Atomization and Sprays, 1996, 6, 447-459.	0.8	6
21	Experimental and Numerical Study of the Effect of an Electric Field on a Bunsenâ€type Flame. Israel Journal of Chemistry, 1999, 39, 87-96.	2.3	5
22	EFFECT OF THE PROPELLANT MASS FRACTION IN A BINARY MIXTURE ON THE SPRAY CHARACTERISTICS AS GENERATED BY HOMOGENEOUS FLASH BOILING. Atomization and Sprays, 2016, 26, 1241-1257.	0.8	5
23	Flattening the Torque Curve of a Two-Stroke Engine with a Fluid Diode Installed at the Scavenge Port. , 1983, , .		4
24	Environmental and Health Risk Associated with Air pollution Emitted by Public Transportation, and a New Methodology for Reducing the Risk. Procedia, Social and Behavioral Sciences, 2011, 20, 687-692.	0.5	4
25	CHOKED FLOW OF A BUBBLY MIXTURE THROUGH AN EFFERVESCENT AND FLASH-BOILING ATOMIZER: A THEORETICAL APPROACH. , 2007, 17, 431-449.		4
26	Evaluation of various strategies for continuous regeneration of particulate filters. International Journal of Vehicle Design, 2006, 41, 326.	0.3	3
27	A Diesel Engine with a Catalytic Piston Surface to Propel Small Aircraft at High Altitudesâ€"A Theoretical Study. Energies, 2021, 14, 1905.	3.1	3
28	Flash boiling atomization triggered and driven by intensive radiation. Thermal Science and Engineering Progress, 2022, 32, 101334.	2.7	3
29	Phenomenological soot modeling with solution mapping optimization of biodiesel-diesel blends in diesel engines. Thermal Science and Engineering Progress, 2020, 18, 100544.	2.7	2
30	Energy Aspects in Spray Formation by Homogenous Flash Boiling Process. , 0, , .		2
31	Implementation of the Onsager Theorem to Evaluate the Speed of the Deflagration Wave. Entropy, 2020, 22, 1011.	2.2	1
32	Mathematical Models of the Scavenging Process. , 2017, , 121-154.		0