

Anthony J Marchese

List of Publications by Year in descending order

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41
papers

2,405
citations

331670

21
h-index

315739

38
g-index

41
all docs

41
docs citations

41
times ranked

2431
citing authors

#	ARTICLE	IF	CITATIONS
1	Assessment of methane emissions from the U.S. oil and gas supply chain. <i>Science</i> , 2018, 361, 186-188.	12.6	519
2	Reconciling divergent estimates of oil and gas methane emissions. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 15597-15602.	7.1	209
3	Methane Emissions from the Natural Gas Transmission and Storage System in the United States. <i>Environmental Science & Technology</i> , 2015, 49, 9374-9383.	10.0	143
4	Measurements of Methane Emissions from Natural Gas Gathering Facilities and Processing Plants: Measurement Results. <i>Environmental Science & Technology</i> , 2015, 49, 3219-3227.	10.0	133
5	Constructing a Spatially Resolved Methane Emission Inventory for the Barnett Shale Region. <i>Environmental Science & Technology</i> , 2015, 49, 8147-8157.	10.0	133
6	Super-emitters in natural gas infrastructure are caused by abnormal process conditions. <i>Nature Communications</i> , 2017, 8, 14012.	12.8	118
7	Methane Emissions from United States Natural Gas Gathering and Processing. <i>Environmental Science & Technology</i> , 2015, 49, 10718-10727.	10.0	111
8	Numerical modeling of isolated n-alkane droplet flames: initial comparisons with ground and space-based microgravity experiments. <i>Combustion and Flame</i> , 1999, 116, 432-459.	5.2	99
9	The effect of liquid mass transport on the combustion and extinction of bicomponent droplets of methanol and water. <i>Combustion and Flame</i> , 1996, 105, 104-122.	5.2	81
10	Quantitative Measurement of Direct Nitrous Oxide Emissions from Microalgae Cultivation. <i>Environmental Science & Technology</i> , 2011, 45, 9449-9456.	10.0	78
11	The effects of fuel type and stove design on emissions and efficiency of natural-draft semi-gasifier biomass cookstoves. <i>Energy for Sustainable Development</i> , 2014, 23, 99-109.	4.5	71
12	The Effect of Non-Luminous Thermal Radiation in Microgravity Droplet Combustion. <i>Combustion Science and Technology</i> , 1997, 124, 371-402.	2.3	61
13	The Effects of Air Flow Rates, Secondary Air Inlet Geometry, Fuel Type, and Operating Mode on the Performance of Gasifier Cookstoves. <i>Environmental Science & Technology</i> , 2016, 50, 9754-9763.	10.0	56
14	Concurrent variation in oil and gas methane emissions and oil price during the COVID-19 pandemic. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 6605-6626.	4.9	55
15	Broadband dual-frequency comb spectroscopy in a rapid compression machine. <i>Optics Express</i> , 2019, 27, 10814.	3.4	54
16	Oxidative Stress and Aromatic Hydrocarbon Response of Human Bronchial Epithelial Cells Exposed to Petro- or Biodiesel Exhaust Treated with a Diesel Particulate Filter. <i>Toxicological Sciences</i> , 2014, 141, 505-514.	3.1	47
17	Chemical and physical properties of algal methyl ester biodiesel containing varying levels of methyl eicosapentaenoate and methyl docosahexaenoate. <i>Algal Research</i> , 2012, 1, 57-69.	4.6	46
18	Development and Validation of a Reduced Chemical Kinetic Mechanism for Computational Fluid Dynamics Simulations of Natural Gas/Diesel Dual-Fuel Engines. <i>Energy & Fuels</i> , 2016, 30, 2414-2427.	5.1	46

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19	Autoignition Characterization of Primary Reference Fuels and <i>n</i> -Heptane/ <i>n</i> -Butanol Mixtures in a Constant Volume Combustion Device and Homogeneous Charge Compression Ignition Engine. <i>Energy & Fuels</i> , 2013, 27, 7778-7789.	5.1	38
20	Ignition delay of fatty acid methyl ester fuel droplets: Microgravity experiments and detailed numerical modeling. <i>Proceedings of the Combustion Institute</i> , 2011, 33, 2021-2030.	3.9	33
21	Measurement of Gaseous and Particulate Emissions from Algae-Based Fatty Acid Methyl Esters. <i>SAE International Journal of Fuels and Lubricants</i> , 0, 3, 292-321.	0.2	28
22	A study of laser induced ignition of methane-air mixtures inside a Rapid Compression Machine. <i>Proceedings of the Combustion Institute</i> , 2017, 36, 3431-3439.	3.9	26
23	Methane Emissions from Gathering Compressor Stations in the U.S.. <i>Environmental Science & Technology</i> , 2020, 54, 7552-7561.	10.0	24
24	Development of a Transfer Function for a Personal, Thermophoretic Nanoparticle Sampler. <i>Aerosol Science and Technology</i> , 2014, 48, 81-89.	3.1	23
25	Time course of bronchial cell inflammation following exposure to diesel particulate matter using a modified EAVES. <i>Toxicology in Vitro</i> , 2014, 28, 829-837.	2.4	20
26	Effects of operational mode on particle size and number emissions from a biomass gasifier cookstove. <i>Aerosol Science and Technology</i> , 2018, 52, 87-97.	3.1	18
27	Performance and Combustion Characteristics Analysis of Multi-Cylinder CI Engine Using Essential Oil Blends. <i>Energies</i> , 2018, 11, 738.	3.1	18
28	An ultrasonically enhanced inclined settler for microalgae harvesting. <i>Biotechnology Progress</i> , 2015, 31, 414-423.	2.6	17
29	Combustion of Lignocellulosic Biomass Based Oxygenated Components in a Compression Ignition Engine. <i>Energy & Fuels</i> , 2015, 29, 7317-7326.	5.1	16
30	A Venture Capital Fund for Undergraduate Engineering Students at Rowan University*. <i>Journal of Engineering Education</i> , 2001, 90, 589-596.	3.0	14
31	Multiday Measurements of Pneumatic Controller Emissions Reveal the Frequency of Abnormal Emissions Behavior at Natural Gas Gathering Stations. <i>Environmental Science and Technology Letters</i> , 2019, 6, 348-352.	8.7	13
32	Possible malfunction in widely used methane sampler deserves attention but poses limited implications for supply chain emission estimates. <i>Elementa</i> , 2016, 4, .	3.2	11
33	Measurement of acoustic properties of microalgae and implications for the performance of ultrasonic harvesting systems. <i>Algal Research</i> , 2018, 31, 77-86.	4.6	9
34	Investigation of the end-gas autoignition process in natural gas engines and evaluation of the methane number index. <i>Proceedings of the Combustion Institute</i> , 2021, 38, 5839-5847.	3.9	9
35	Effect of microalgae cell composition and size on responsiveness to ultrasonic harvesting. <i>Journal of Applied Phycology</i> , 2019, 31, 1637-1649.	2.8	6
36	Methane Exhaust Measurements at Gathering Compressor Stations in the United States. <i>Environmental Science & Technology</i> , 2021, 55, 1190-1196.	10.0	6

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37	Oxidative Stability of Algae Derived Methyl Esters. Journal of Engineering for Gas Turbines and Power, 2012, 134, .	1.1	5
38	End-gas autoignition fraction and flame propagation rate in laser-ignited primary reference fuel mixtures at elevated temperature and pressure. Combustion and Flame, 2021, 234, 111661.	5.2	5
39	A Study of Propane Combustion in a Spark-Ignited Cooperative Fuel Research (CFR) Engine. , 0, , .		5
40	Emissions from oil and gas operations in the United States and their air quality implications. Journal of the Air and Waste Management Association, 2016, 66, 1165-1170.	1.9	1
41	Natural gas/diesel RCCI CFD simulations using multi-component fuel surrogates. International Journal of Powertrains, 2017, 6, 76.	0.3	0