

Albert Ratner

List of Publications by Year in descending order

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64
papers

1,245
citations

394421

19
h-index

377865

34
g-index

64
all docs

64
docs citations

64
times ranked

1037
citing authors

#	ARTICLE	IF	CITATIONS
1	Combustion dynamics of a low-swirl combustor. <i>Combustion and Flame</i> , 2007, 151, 412-425.	5.2	133
2	Refuse Derived Fuel (RDF) production and gasification in a pilot plant integrated with an Otto cycle ICE through Aspen plus, modelling: Thermodynamic and economic viability. <i>Waste Management</i> , 2017, 69, 187-201.	7.4	93
3	Life cycle assessment of power-generation systems based on biomass integrated gasification combined cycles. <i>Renewable Energy</i> , 2020, 149, 336-346.	8.9	73
4	Combustion characteristics of colloidal droplets of jet fuel and carbon based nanoparticles. <i>Fuel</i> , 2017, 188, 182-189.	6.4	71
5	Techno-economic comparative analysis of Biomass Integrated Gasification Combined Cycles with and without CO2 capture. <i>International Journal of Greenhouse Gas Control</i> , 2018, 78, 73-84.	4.6	69
6	Flame structure changes resulting from hydrogen-enrichment and pressurization for low-swirl premixed methane-air flames. <i>International Journal of Hydrogen Energy</i> , 2012, 37, 10397-10404.	7.1	67
7	Experimental investigation of thermoacoustic coupling using blended hydrogen-methane fuels in a low swirl burner. <i>International Journal of Hydrogen Energy</i> , 2010, 35, 329-336.	7.1	62
8	A comparative study of biomass integrated gasification combined cycle power systems: Performance analysis. <i>Bioresource Technology</i> , 2018, 255, 246-256.	9.6	57
9	Experimental Investigation of Thermoacoustic Coupling for Low-Swirl Lean Premixed Flames. <i>Journal of Propulsion and Power</i> , 2009, 25, 365-373.	2.2	56
10	Modeling and economic analysis of waste tire gasification in fluidized and fixed bed gasifiers. <i>Waste Management</i> , 2019, 89, 201-211.	7.4	55
11	CFD modeling of combustion of sugarcane bagasse in an industrial boiler. <i>Fuel</i> , 2017, 193, 31-38.	6.4	36
12	Nanosecond pulsed laser processing turns engineering metal alloys antireflective and superwicking. <i>Journal of Manufacturing Processes</i> , 2020, 54, 28-37.	5.9	33
13	Experimental study on the excitation of thermoacoustic instability of hydrogen-methane/air premixed flames under atmospheric and elevated pressure conditions. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 21324-21335.	7.1	30
14	The effect of acetylene black on droplet combustion and flame regime of petrodiesel and soy biodiesel. <i>Fuel</i> , 2019, 246, 108-116.	6.4	30
15	Combustion characteristics of diesel and Jet-A droplets blended with polymeric additive. <i>Fuel</i> , 2016, 178, 63-70.	6.4	29
16	Experimental study on applying biomass-derived syngas in a microturbine. <i>Applied Thermal Engineering</i> , 2019, 146, 328-337.	6.0	28
17	Effect of carbon-based nanoparticles on the ignition, combustion and flame characteristics of crude oil droplets. <i>Energy</i> , 2020, 197, 117227.	8.8	27
18	Bench-scale bubbling fluidized bed systems around the world - Bed agglomeration and collapse: A comprehensive review. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 18740-18766.	7.1	23

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19	Effect of chamber pressure on spreading and splashing of liquid drops upon impact on a dry smooth stationary surface. <i>Experiments in Fluids</i> , 2011, 51, 483-491.	2.4	22
20	Examination of thermo-acoustic instability in a low swirl burner. <i>International Journal of Hydrogen Energy</i> , 2015, 40, 13594-13603.	7.1	22
21	Enabling Superhydrophobicity-Guided Superwicking in Metal Alloys via a Nanosecond Laser-Based Surface Treatment Method. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 41209-41219.	8.0	19
22	Experimental study of the effects of hydrogen addition on the thermoacoustic instability in a variable-length combustor. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 16086-16100.	7.1	18
23	Effect of pressure variation on acoustically perturbed swirling flames. <i>Proceedings of the Combustion Institute</i> , 2017, 36, 3881-3888.	3.9	17
24	Effects of Pairwise, Self-Associating Functional Side Groups on Polymer Solubility, Solution Viscosity, and Mist Control. <i>Macromolecules</i> , 2009, 42, 1380-1391.	4.8	16
25	Combustion Efficiencies of Supersonic Flames. <i>Journal of Propulsion and Power</i> , 2001, 17, 301-307.	2.2	15
26	Biomass gasification using mixtures of air, saturated steam, and oxygen in a two-stage downdraft gasifier. Assessment using a CFD modeling approach. <i>Renewable Energy</i> , 2021, 177, 1014-1030.	8.9	15
27	An Experimental and Theoretical Study of the Gasification of Miscanthus Briquettes in a Double-Stage Downdraft Gasifier: Syngas, Tar, and Biochar Characterization. <i>Energies</i> , 2018, 11, 3225.	3.1	14
28	Measurements of fuel mixture fraction oscillations of a turbulent jet non-premixed flame. <i>Combustion and Flame</i> , 2009, 156, 214-220.	5.2	13
29	Numerical modeling of co-firing a light density biomass, oat (<i>Avena sativa</i>) hulls, and chunk coal in fluidized bed boiler. <i>Biomass and Bioenergy</i> , 2013, 56, 239-246.	5.7	13
30	Environmental and Energetic Evaluation of Refuse-Derived Fuel Gasification for Electricity Generation. <i>Processes</i> , 2021, 9, 2255.	2.8	11
31	Parameter variations and the effects of hydrogen: An experimental investigation in a lean premixed low swirl combustor. <i>International Journal of Hydrogen Energy</i> , 2013, 38, 5401-5409.	7.1	9
32	Experimental Study of the Global and Local Flame Responses to Acoustic Perturbation. <i>Journal of Propulsion and Power</i> , 2017, 33, 479-489.	2.2	9
33	A scalable approach of using biomass derived glycerol to synthesize cathode materials for lithium-ion batteries. <i>Journal of Cleaner Production</i> , 2020, 271, 122518.	9.3	9
34	Investigation of Combustion Properties and Soot Deposits of Various US Crude Oils. <i>Energies</i> , 2019, 12, 2368.	3.1	7
35	Phase-resolved no planar laser-induced fluorescence of a jet flame in an acoustic chamber with excitation at frequencies <60 Hz. <i>Proceedings of the Combustion Institute</i> , 2002, 29, 85-90.	3.9	5
36	Prediction of Postcontact Parameters of Fluid Droplet Impact on a Smooth Surface. <i>AIAA Journal</i> , 2007, 45, 1725-1733.	2.6	4

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37	Nanosecond Pulsed Laser Processing Turns Engineering Metal Alloys Antireflective and Superwicking. <i>Procedia Manufacturing</i> , 2019, 34, 260-268.	1.9	4
38	Experimental Investigation of the Settling Characteristics of Carbon and Metal Oxide Nanofuels. <i>Journal of Nanofluids</i> , 2019, 8, 1654-1660.	2.7	4
39	Effects of shock waves on combustion efficiency of supersonic flames. , 1998, , .		3
40	Coupling Between Combustor Pressure and Fuel/Oxidizer Mixing and the Consequences in Flame Behavior. <i>Combustion Science and Technology</i> , 2007, 180, 127-142.	2.3	3
41	A refillable hydrogel battery: Construction and characterization. <i>Journal of Energy Storage</i> , 2019, 23, 504-510.	8.1	3
42	Clean Poultry Energy System Design Based on Biomass Gasification Technology: Thermodynamic and Economic Analysis. <i>Energies</i> , 2019, 12, 4235.	3.1	3
43	Hydrogel Leclanché Cell: Construction and Characterization. <i>Energies</i> , 2020, 13, 594.	3.1	3
44	Analysis and Characterization of Metallic Nodules on Biochar from Single-Stage Downdraft Gasification. <i>Processes</i> , 2021, 9, 533.	2.8	3
45	Computational Modeling of the Combustion and Gasification Zones in a Downdraft Gasifier. , 2011, , .		2
46	Settling Characteristics of Polymeric Additives in Dodecane. , 2018, , .		2
47	Effect of Polymeric Additives on Ignition, Combustion and Flame Characteristics and Soot Deposits of Crude Oil Droplets. <i>Combustion Science and Technology</i> , 0, , 1-29.	2.3	2
48	Fuel Drop Spreading on a Flat Smooth Surface: Numerical Simulations With a VOF Method. , 2010, , .		1
49	Experimental Study of Combustion of Polymer Added n-Decane and n-Dodecane Droplets. , 2015, , .		1
50	Experimental Investigation of Combustion Behavior of Biodiesel-Water Emulsion. , 2019, , .		1
51	Prediction of Post-Contact Parameters of a Fluid Droplet Impact on a Smooth Surface. , 2007, , .		0
52	Numerical Study of Liquid Film Microstructure During Spin Coating of Ag Colloidal Suspension. , 2009, , .		0
53	Characterization of Real Time Producer Gas Generation From Paper Sludge Gasification. , 2013, , .		0
54	Experimental Study of the Local Response of a Low Swirl Flame to Acoustic Perturbation. , 2014, , .		0

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55	Biomass Gasification in a Pilot-Scale Gasifier. , 2014, , .		0
56	Analysis and Comparison of Biochar From Pilot Scale Downdraft Gasifier. , 2015, , .		0
57	Analysis of the Thermoacoustic Flame Instability With Proper Orthogonal Decomposition. , 2015, , .		0
58	Wireless Power Transfer Systems Based on LCC-Compensated Topology for Left Ventricular Assist Device (LVAD) Battery Charging Application. Journal of Low Power Electronics, 2019, 15, 144-159.	0.6	0
59	Commentary: Go with the flowâ€¦ dynamics!. Journal of Thoracic and Cardiovascular Surgery, 2020, 159, e211.	0.8	0
60	Gas Evolution of Corn Kernels and Paper Sludge From Biomass Gasification and Pyrolysis. , 2010, , .		0
61	Numerical Modeling of Co-Firing Chunk Coal and Oat Hulls in a Stoker Boiler. , 2011, , .		0
62	Steam Gasification of Miscanthus in a Double Stage Downdraft Gasifier. , 2016, , .		0
63	Experimental and Simulation Studies of Corn Kernel Gasification in a Double Air Stage Downdraft Reactor. , 2018, , .		0
64	An Innovative Laser Metasurface Fabrication Technique for Highly Flexible Optoelectronic Devices. Journal of Micro and Nano-Manufacturing, 2020, 8, .	0.7	0