

Mohamed A M Habib

List of Publications by Year in descending order

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times ranked

4877
citing authors

#	ARTICLE	IF	CITATIONS
1	Carbon capture by physical adsorption: Materials, experimental investigations and numerical modeling and simulations – A review. Applied Energy, 2016, 161, 225-255.	10.1	498
2	Fuel flexibility, stability and emissions in premixed hydrogen-rich gas turbine combustion: Technology, fundamentals, and numerical simulations. Applied Energy, 2015, 154, 1020-1047.	10.1	215
3	A review of recent developments in carbon capture utilizing oxy-fuel combustion in conventional and ion transport membrane systems. International Journal of Energy Research, 2011, 35, 741-764.	4.5	161
4	Flame macrostructures, combustion instability and extinction strain scaling in swirl-stabilized premixed CH ₄ /H ₂ combustion. Combustion and Flame, 2016, 163, 494-507.	5.2	155
5	An efficient CO ₂ adsorptive storage using MOF-5 and MOF-177. Applied Energy, 2018, 210, 317-326.	10.1	151
6	Acoustic Detection of Leaks in Water Pipelines Using Measurements inside Pipe. Journal of Pipeline Systems Engineering and Practice, 2012, 3, 47-54.	1.6	124
7	Optimization procedure of a hybrid photovoltaic wind energy system. Energy, 1999, 24, 919-929.	8.8	113
8	Experimental and numerical investigations of an atmospheric diffusion oxy-combustion flame in a gas turbine model combustor. Applied Energy, 2013, 111, 401-415.	10.1	108
9	A Comprehensive Review of Thermal Enhanced Oil Recovery: Techniques Evaluation. Journal of Energy Resources Technology, Transactions of the ASME, 2019, 141, .	2.3	97
10	Oxy-fuel combustion technology: current status, applications, and trends. International Journal of Energy Research, 2017, 41, 1670-1708.	4.5	93
11	A Review of Hybrid Solar – Fossil Fuel Power Generation Systems and Performance Metrics. Journal of Solar Energy Engineering, Transactions of the ASME, 2012, 134, .	1.8	89
12	Recent Development in Oxy-Combustion Technology and Its Applications to Gas Turbine Combustors and ITM Reactors. Energy & Fuels, 2013, 27, 2-19.	5.1	89
13	Techno-economic performance analysis of parabolic trough collector in Dhahran, Saudi Arabia. Energy Conversion and Management, 2014, 86, 622-633.	9.2	89
14	Computational fluid dynamic simulation of small leaks in water pipelines for direct leak pressure transduction. Computers and Fluids, 2012, 57, 110-123.	2.5	76
15	Soft sensor for and using dynamic neural networks. Computers and Electrical Engineering, 2009, 35, 578-586.	4.8	75
16	Tuning the Interplay between Selectivity and Permeability of ZIF-7 Mixed Matrix Membranes. ACS Applied Materials & Interfaces, 2017, 9, 33401-33407.	8.0	74
17	RBF neural network inferential sensor for process emission monitoring. Control Engineering Practice, 2013, 21, 962-970.	5.5	72
18	Influence of combustion parameters on NO _x production in an industrial boiler. Computers and Fluids, 2008, 37, 12-23.	2.5	71

#	ARTICLE	IF	CITATIONS
19	Review of Novel Combustion Techniques for Clean Power Production in Gas Turbines. <i>Energy & Fuels</i> , 2018, 32, 979-1004.	5.1	71
20	First in situ determination of the ground thermal conductivity for borehole heat exchanger applications in Saudi Arabia. <i>Renewable Energy</i> , 2009, 34, 2218-2223.	8.9	67
21	Optimal integration of solar energy with fossil fuel gas turbine cogeneration plants using three different CSP technologies in Saudi Arabia. <i>Applied Energy</i> , 2017, 185, 1268-1280.	10.1	65
22	Review on Premixed Combustion Technology: Stability, Emission Control, Applications, and Numerical Case Study. <i>Energy & Fuels</i> , 2016, 30, 9981-10014.	5.1	64
23	Energy, exergy and uncertainty analyses of the thermal response test for a ground heat exchanger. <i>International Journal of Energy Research</i> , 2009, 33, 582-592.	4.5	62
24	Experimental investigation of partially premixed methane-air and methane-oxygen flames stabilized over a perforated-plate burner. <i>Applied Energy</i> , 2016, 169, 126-137.	10.1	59
25	Database for building energy prediction in Saudi Arabia. <i>Energy Conversion and Management</i> , 2003, 44, 191-201.	9.2	55
26	Storage stability and high-temperature performance of asphalt binder modified with recycled plastic. <i>Road Materials and Pavement Design</i> , 2017, 18, 1117-1134.	4.0	54
27	Second-law-based thermodynamic analysis of regenerative-reheat Rankine-cycle power plants. <i>Energy</i> , 1992, 17, 295-301.	8.8	53
28	Velocity characteristics of turbulent natural convection in symmetrically and asymmetrically heated vertical channels. <i>Experimental Thermal and Fluid Science</i> , 2002, 26, 77-87.	2.7	52
29	Evaluation of gas radiation models in CFD modeling of oxy-combustion. <i>Energy Conversion and Management</i> , 2014, 81, 83-97.	9.2	49
30	Combustion behavior and stability map of hydrogen-enriched oxy-methane premixed flames in a model gas turbine combustor. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 16652-16666.	7.1	49
31	Highly Efficient Permeation and Separation of Gases with Metal-Organic Frameworks Confined in Polymeric Nanochannels. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 49992-50001.	8.0	49
32	Palladium-Alloy Membrane Reactors for Fuel Reforming and Hydrogen Production: A Review. <i>Energy & Fuels</i> , 2021, 35, 5558-5593.	5.1	49
33	Strain Influence on the Oxygen Electrocatalysis of the (100)-Oriented Epitaxial $\text{La}_{2-x}\text{NiO}_{4+\delta}$ Thin Films at Elevated Temperatures. <i>Journal of Physical Chemistry C</i> , 2013, 117, 18789-18795.	3.1	48
34	Computational fluid dynamics study of hydrogen generation by low temperature methane reforming in a membrane reactor. <i>International Journal of Hydrogen Energy</i> , 2015, 40, 3158-3169.	7.1	47
35	Heat transfer characteristics and Nusselt number correlation of turbulent pulsating pipe air flows. <i>Heat and Mass Transfer</i> , 2004, 40, 307-318.	2.1	45
36	Numerical investigation of erosion threshold velocity in a pipe with sudden contraction. <i>Computers and Fluids</i> , 2005, 34, 721-742.	2.5	45

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37	Stability map and shape of premixed CH ₄ /O ₂ /CO ₂ flames in a model gas-turbine combustor. <i>Applied Energy</i> , 2018, 215, 63-74.	10.1	44
38	Characteristics of H ₂ -enriched CH ₄ /O ₂ diffusion flames in a swirl-stabilized gas turbine combustor: Experimental and numerical study. <i>International Journal of Hydrogen Energy</i> , 2016, 41, 20418-20432.	7.1	41
39	Erosion rate correlations of a pipe protruded in an abrupt pipe contraction. <i>International Journal of Impact Engineering</i> , 2007, 34, 1350-1369.	5.0	39
40	Evaluation of flow maldistribution in air-cooled heat exchangers. <i>Computers and Fluids</i> , 2009, 38, 677-690.	2.5	39
41	Experimental analysis of oxygen-methane combustion inside a gas turbine reactor under various operating conditions. <i>Energy</i> , 2015, 86, 105-114.	8.8	38
42	A New Study for Hybrid PV/Wind off-Grid Power Generation Systems with the Comparison of Results from Homer. <i>International Journal of Green Energy</i> , 2015, 12, 526-542.	3.8	37
43	Heat transfer characteristics and pressure drop of the concentric tube equipped with coiled wires for pulsating turbulent flow. <i>Experimental Thermal and Fluid Science</i> , 2015, 65, 41-51.	2.7	37
44	Heat Transfer Characteristics in a Double-Pipe Heat Exchanger Equipped with Coiled Circular Wires. <i>Experimental Heat Transfer</i> , 2015, 28, 531-545.	3.2	36
45	Experimental and computational study on stability characteristics of hydrogen-enriched oxy-methane premixed flames. <i>Applied Energy</i> , 2019, 250, 433-443.	10.1	36
46	Characteristics of Oxy-fuel Combustion in an Oxygen Transport Reactor. <i>Energy & Fuels</i> , 2012, 26, 4599-4606.	5.1	35
47	On the Modeling of Steam Methane Reforming. <i>Journal of Energy Resources Technology, Transactions of the ASME</i> , 2015, 137, .	2.3	35
48	Design of an ion transport membrane reactor for application in fire tube boilers. <i>Energy</i> , 2015, 81, 787-801.	8.8	35
49	Investigation of a turbulent premixed combustion flame in a backward-facing step combustor; effect of equivalence ratio. <i>Energy</i> , 2016, 95, 211-222.	8.8	35
50	Thermodynamic performance analysis of the Ghazlan power plant. <i>Energy</i> , 1995, 20, 1121-1130.	8.8	34
51	Heat transfer characteristics in a sudden expansion pipe equipped with swirl generators. <i>International Journal of Heat and Fluid Flow</i> , 2011, 32, 352-361.	2.4	34
52	Effects of oxidizer flexibility and bluff-body blockage ratio on flammability limits of diffusion flames. <i>Applied Energy</i> , 2016, 178, 19-28.	10.1	34
53	An experimental investigation of heat transfer to pulsating pipe air flow with different amplitudes. <i>Heat and Mass Transfer</i> , 2006, 42, 625-635.	2.1	33
54	Investigations of oxy-fuel combustion and oxygen permeation in an ITM reactor using a two-step oxy-combustion reaction kinetics model. <i>Journal of Membrane Science</i> , 2013, 432, 1-12.	8.2	33

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55	Modeling of a combined ion transport and porous membrane reactor for oxy-combustion. <i>Journal of Membrane Science</i> , 2013, 446, 230-243.	8.2	32
56	Correspondence Between "Stable" Flame Macrostructure and Thermo-acoustic Instability in Premixed Swirl-Stabilized Turbulent Combustion. <i>Journal of Engineering for Gas Turbines and Power</i> , 2015, 137, .	1.1	32
57	Numerical investigation of syngas oxy-combustion inside a LSCF-6428 oxygen transport membrane reactor. <i>Energy</i> , 2016, 96, 654-665.	8.8	32
58	Turbulent natural convection between inclined isothermal plates. <i>Computers and Fluids</i> , 2005, 34, 1025-1039.	2.5	31
59	Computational fluid dynamic simulation of oxyfuel combustion in gas-fired water tube boilers. <i>Computers and Fluids</i> , 2012, 56, 152-165.	2.5	31
60	Development and assessment of integrating parabolic trough collectors with steam generation side of gas turbine cogeneration systems in Saudi Arabia. <i>Applied Energy</i> , 2015, 141, 131-142.	10.1	31
61	Experimental and numerical study of oxygen separation and oxy-combustion characteristics inside a button-cell LNO-ITM reactor. <i>Energy</i> , 2015, 84, 600-611.	8.8	31
62	Numerical predictions of flow boiling characteristics: Current status, model setup and CFD modeling for different non-uniform heating profiles. <i>Applied Thermal Engineering</i> , 2015, 75, 451-460.	6.0	31
63	High gas permselectivity in ZIF-302/polyimide self-consistent mixed matrix membrane. <i>Journal of Applied Polymer Science</i> , 2020, 137, 48513.	2.6	31
64	Design of an ion transport membrane reactor for gas turbine combustion application. <i>Journal of Membrane Science</i> , 2014, 450, 60-71.	8.2	30
65	Reducing the flow mal-distribution in a heat exchanger. <i>Computers and Fluids</i> , 2015, 107, 1-10.	2.5	30
66	Erosion and penetration rates of a pipe protruded in a sudden contraction. <i>Computers and Fluids</i> , 2008, 37, 146-160.	2.5	29
67	CFD (computational fluid dynamics) analysis of a novel reactor design using ion transport membranes for oxy-fuel combustion. <i>Energy</i> , 2014, 77, 932-944.	8.8	29
68	Experimental investigation of the stability of a turbulent diffusion flame in a gas turbine combustor. <i>Energy</i> , 2018, 157, 904-913.	8.8	29
69	Feasibility of using ground-coupled condensers in A/C systems. <i>Geothermics</i> , 2010, 39, 201-204.	3.4	28
70	Adiabatic Flame Temperature for Controlling the Macrostructures and Stabilization Modes of Premixed Methane Flames in a Model Gas-Turbine Combustor. <i>Energy & Fuels</i> , 2018, 32, 7868-7877.	5.1	28
71	Fluid flow and heat transfer characteristics in axisymmetric annular diffusers. <i>Computers and Fluids</i> , 1996, 25, 133-150.	2.5	27
72	Thermodynamic optimization of reheat regenerative thermal-power plants. <i>Applied Energy</i> , 1999, 63, 17-34.	10.1	27

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73	Experimental study of atmospheric partially premixed oxy-combustion flames anchored over a perforated plate burner. <i>Energy</i> , 2017, 122, 159-167.	8.8	27
74	Energy, exergy and parametric analysis of a combined cycle power plant. <i>Thermal Science and Engineering Progress</i> , 2020, 15, 100450.	2.7	26
75	CFD modeling of hydrogen separation through Pd-based membrane. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 23006-23019.	7.1	25
76	Stability maps of non-premixed methane flames in different oxidizing environments of a gas turbine model combustor. <i>Applied Energy</i> , 2017, 189, 177-186.	10.1	24
77	Optimization of reheat pressures in thermal power plants. <i>Energy</i> , 1995, 20, 555-565.	8.8	23
78	Modeling of oxygen permeation through a LSCF ion transport membrane. <i>Computers and Fluids</i> , 2013, 76, 1-10.	2.5	23
79	Enhancing Oxygen Permeation of Electronically Short-Circuited Oxygen-Ion Conductors by Decorating with Mixed Ionic-Electronic Conducting Oxides. <i>ECS Electrochemistry Letters</i> , 2013, 2, F77-F81.	1.9	23
80	Evaluating the Effect of Hardness on Erosion Characteristics of Aluminum and Steels. <i>Journal of Materials Engineering and Performance</i> , 2014, 23, 2274-2282.	2.5	23
81	Oxy-Combustion of Hydrogen-Enriched Methane: Experimental Measurements and Analysis. <i>Energy & Fuels</i> , 2017, 31, 2007-2016.	5.1	23
82	Oxygen Permeation from Oxygen Ion-Conducting Membranes Coated with Porous Metals or Mixed Ionic and Electronic Conducting Oxides. <i>Journal of the Electrochemical Society</i> , 2013, 160, E148-E153.	2.9	22
83	Numerical investigations of combustion and emissions of syngas as compared to methane in a 200MW package boiler. <i>Energy Conversion and Management</i> , 2014, 83, 296-305.	9.2	22
84	Frontiers in combustion techniques and burner designs for emissions control and CO ₂ capture: A review. <i>International Journal of Energy Research</i> , 2019, 43, 7790.	4.5	22
85	Computational chemistry methods for modelling non-covalent interactions and chemical reactivity—An overview. <i>Journal of the Indian Chemical Society</i> , 2021, 98, 100208.	2.8	22
86	Comprehensive parametric investigation of methane reforming and hydrogen separation using a CFD model. <i>Energy Conversion and Management</i> , 2021, 249, 114838.	9.2	22
87	Numerical calculations of erosion in an abrupt pipe contraction of different contraction ratios. <i>International Journal for Numerical Methods in Fluids</i> , 2004, 46, 19-35.	1.6	21
88	Prediction of riser tubes temperature in water tube boilers. <i>Applied Mathematical Modelling</i> , 2009, 33, 1323-1336.	4.2	21
89	Numerical investigation of oxygen permeation and methane oxy-combustion in a stagnation flow ion transport membrane reactor. <i>Energy</i> , 2013, 54, 322-332.	8.8	21
90	Numerical study of hydrogen-enriched methane-air combustion under ultra-lean conditions. <i>International Journal of Energy Research</i> , 2016, 40, 743-762.	4.5	21

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91	Adsorption characterization and CO ₂ breakthrough of MWCNT/Mg-MOF-74 and MWCNT/MIL-100(Fe) composites. <i>International Journal of Energy and Environmental Engineering</i> , 2018, 9, 169-185.	2.5	20
92	Effects of H ₂ Enrichment and Inlet Velocity on Stability Limits and Shape of CH ₄ /H ₂ /O ₂ /CO ₂ Flames in a Premixed Swirl Combustor. <i>Energy & Fuels</i> , 2018, 32, 9916-9925.	5.1	20
93	A highly diluted oxy-fuel micromixer combustor with hydrogen enrichment for enhancing turndown in gas turbines. <i>Applied Energy</i> , 2020, 279, 115818.	10.1	20
94	Flow field and thermal characteristics in a model of a tangentially fired furnace under different conditions of burner tripping. <i>Heat and Mass Transfer</i> , 2005, 41, 909-920.	2.1	19
95	A newly synthesized nitrogen-rich derivative of bicyclic quinoxaline—Structural and conceptual DFT reactivity study. <i>Journal of Physical Organic Chemistry</i> , 2020, 33, e4055.	1.9	19
96	DETECTION OF T LYMPHOCYTES AND T LYMPHOCYTE SUBSETS IN LICHEN PLANUS: IN SITU AND IN PERIPHERAL BLOOD. <i>International Journal of Dermatology</i> , 1996, 35, 426-429.	1.0	18
97	Solid Particle Erosion Downstream of an Orifice. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , 2015, 137, .	1.5	18
98	Experimental Study on the Effect of Hydrogen Enrichment of Methane on the Stability and Emission of Nonpremixed Swirl Stabilized Combustor. <i>Journal of Energy Resources Technology, Transactions of the ASME</i> , 2015, 137, .	2.3	18
99	Numerical and experimental study of swirl premixed CH ₄ /H ₂ /O ₂ /CO ₂ flames for controlled-emissions gas turbines. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 29616-29629.	7.1	18
100	Turbulent natural convection flow in a vertical channel with anti-symmetric heating. <i>Heat and Mass Transfer</i> , 2008, 44, 1207-1216.	2.1	17
101	Effect analysis on the macrostructure and static stability limits of oxy-methane flames in a premixed swirl combustor. <i>Energy</i> , 2018, 159, 86-96.	8.8	17
102	Well-Placement Optimization in Heavy Oil Reservoirs Using a Novel Method of In Situ Steam Generation. <i>Journal of Energy Resources Technology, Transactions of the ASME</i> , 2019, 141, .	2.3	17
103	Review of Fuel/Oxidizer-Flexible Combustion in Gas Turbines. <i>Energy & Fuels</i> , 2020, 34, 10459-10485.	5.1	17
104	Thermodynamic analysis of the performance of cogeneration plants. <i>Energy</i> , 1992, 17, 485-491.	8.8	16
105	Numerical investigation of natural convection inside an inclined parallel-walled channel. <i>International Journal for Numerical Methods in Fluids</i> , 2005, 49, 569-582.	1.6	16
106	Correlations of flow maldistribution parameters in an air cooled heat exchanger. <i>International Journal for Numerical Methods in Fluids</i> , 2008, 56, 143-165.	1.6	16
107	Kinetics and mechanism of periodate oxidation of two ternary nitrilotriacetatochromium(III) complexes involving histidine and aspartate co-ligands. <i>Transition Metal Chemistry</i> , 2010, 35, 73-80.	1.4	16
108	Experimental and numerical analysis of oxy-fuel combustion in a porous plate reactor. <i>International Journal of Energy Research</i> , 2015, 39, 1229-1240.	4.5	16

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109	Calculation of turbulent flow and heat transfer in periodically converging and diverging channels. <i>Computers and Fluids</i> , 1998, 27, 95-120.	2.5	15
110	Cutaneous mononuclear cells and eosinophils are significantly increased after warm water challenge in pruritic areas of polycythemia vera. <i>Journal of Cutaneous Pathology</i> , 2007, 34, 924-929.	1.3	15
111	Modeling of ion transport reactor for oxy-fuel combustion. <i>International Journal of Energy Research</i> , 2013, 37, 1265-1279.	4.5	15
112	Characteristics of Natural Convection Heat Transfer in an Array of Discrete Heat Sources. <i>Experimental Heat Transfer</i> , 2014, 27, 91-111.	3.2	15
113	Current status of CHF predictions using CFD modeling technique and review of other techniques especially for non-uniform axial and circumferential heating profiles. <i>Annals of Nuclear Energy</i> , 2014, 70, 188-207.	1.8	15
114	Characteristic of air separation in hollow-fiber polymeric membrane for oxygen enriched air clean combustion applications. <i>Journal of Cleaner Production</i> , 2017, 143, 960-972.	9.3	15
115	Characteristics of Oxyfuel Combustion in Lean-Premixed Multihole Burners. <i>Energy & Fuels</i> , 2019, 33, 11948-11958.	5.1	15
116	Evaluation of the Accuracy of Selected Syngas Chemical Mechanisms. <i>Journal of Energy Resources Technology</i> , Transactions of the ASME, 2015, 137, .	2.3	14
117	Thin film membrane for CO ₂ separation with sweeping gas method. <i>Energy</i> , 2018, 144, 619-626.	8.8	14
118	Structural and computational analyses of a 2-propanolammonium-chlorocadm(II) assembly: Pivotal role of hydrogen bonding and H ⁺ H interactions. <i>Journal of Molecular Structure</i> , 2021, 1223, 128998.	3.6	14
119	Experimental and numerical investigation of stability and emissions of hydrogen-assisted oxy-methane flames in a multi-hole model gas-turbine burner. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 20093-20106.	7.1	14
120	Solid-particle erosion in the tube end of the tube sheet of a shell-and-tube heat exchanger. <i>International Journal for Numerical Methods in Fluids</i> , 2006, 50, 885-909.	1.6	13
121	Azo-Linked Porous Organic Polymers for Selective Carbon Dioxide Capture and Metal Ion Removal. <i>ACS Omega</i> , 2022, 7, 14535-14543.	3.5	13
122	Erosion in the tube entrance region of an air-cooled heat exchanger. <i>International Journal of Impact Engineering</i> , 2006, 32, 1440-1463.	5.0	12
123	Effect of microstructure and thickness on oxygen permeation of La ₂ NiO ₄ + δ membranes. <i>Ceramics International</i> , 2016, 42, 666-672.	4.8	12
124	Structure and Lean Extinction of Premixed Flames Stabilized on Conductive Perforated Plates. <i>Energy & Fuels</i> , 2017, 31, 1980-1992.	5.1	12
125	The Characteristics of Oxycombustion of Liquid Fuel in a Typical Water-Tube Boiler. <i>Energy & Fuels</i> , 2017, 31, 6305-6313.	5.1	12
126	Hydrogen production, oxygen separation and syngas oxy-combustion inside a water splitting membrane reactor. <i>Renewable Energy</i> , 2017, 113, 221-234.	8.9	12

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127	Effects of jet diameter and spacing in a micromixer-like burner for clean oxy-fuel combustion in gas turbines. <i>Energy</i> , 2021, 228, 120561.	8.8	12
128	Thermal and emission characteristics in a tangentially fired boiler model furnace. <i>International Journal of Energy Research</i> , 2010, 34, 1164-1182.	4.5	11
129	Numerical investigation of combustion characteristics in an oxygen transport reactor. <i>International Journal of Energy Research</i> , 2014, 38, 638-651.	4.5	11
130	Characteristics of Oxyfuel and Air-Fuel Combustion in an Industrial Water Tube Boiler. <i>Heat Transfer Engineering</i> , 2014, 35, 1394-1404.	1.9	11
131	Experimental and Numerical Investigation of La ₂ NiO ₄ Membranes for Oxygen Separation: Geometry Optimization and Model Validation. <i>Journal of Energy Resources Technology, Transactions of the ASME</i> , 2015, 137, .	2.3	11
132	Thermo-economic analysis of integrated membrane-SMR ITM-oxy-combustion hydrogen and power production plant. <i>Applied Energy</i> , 2017, 204, 626-640.	10.1	11
133	Enhancement of adsorption carbon capture capacity of 13X with optimal incorporation of carbon nanotubes. <i>International Journal of Energy and Environmental Engineering</i> , 2017, 8, 219-230.	2.5	11
134	An Experimental Study on the Performance of Drag-Reducing Polymers in Single- and Multiphase Horizontal Flow Using Particle Image Velocimetry. <i>Journal of Energy Resources Technology, Transactions of the ASME</i> , 2018, 140, .	2.3	11
135	Experimental and Numerical Investigations of Structure and Stability of Premixed Swirl-Stabilized CH ₄ /O ₂ /CO ₂ Flames in a Model Gas Turbine Combustor. <i>Energy & Fuels</i> , 2019, 33, 2526-2537.	5.1	11
136	Stratified and Hydrogen Combustion Techniques for Higher Turndown and Lower Emissions in Gas Turbines. <i>Journal of Energy Resources Technology, Transactions of the ASME</i> , 2022, 144, .	2.3	11
137	Enhanced heat transfer in channels with staggered fins of different spacings. <i>International Journal of Heat and Fluid Flow</i> , 1993, 14, 185-190.	2.4	10
138	Boilers Optimal Control for Maximum Load Change Rate. <i>Journal of Energy Resources Technology, Transactions of the ASME</i> , 2014, 136, .	2.3	10
139	Investigation of oxygen permeation through disc-shaped BSCF ion transport membrane under reactive conditions. <i>International Journal of Energy Research</i> , 2017, 41, 1049-1062.	4.5	10
140	Oxy-fuel combustion in a two-pass oxygen transport reactor for fire tube boiler application. <i>Applied Energy</i> , 2018, 229, 828-840.	10.1	10
141	Numerical Predictions of Three-Dimensional Unsteady Turbulent Film-Cooling for Trailing Edge of Gas-Turbine Blade Using Large Eddy Simulation. <i>Journal of Energy Resources Technology, Transactions of the ASME</i> , 2019, 141, .	2.3	10
142	Comparative analysis of the stability and structure of premixed C ₃ H ₈ /O ₂ /CO ₂ and C ₃ H ₈ /O ₂ /N ₂ flames for clean flexible energy production. <i>Energy</i> , 2021, 214, 118887.	8.8	9
143	Stability limits and temperature measurements in a tangentially-fired model furnace. <i>Energy</i> , 1992, 17, 283-294.	8.8	8
144	UWB binomial curved monopole with binomial curved ground plane. <i>Microwave and Optical Technology Letters</i> , 2009, 51, 2308-2313.	1.4	8

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145	A thermal nonlinear dynamic model for water tube drum boilers. International Journal of Energy Research, 2010, 34, 20-35.	4.5	8
146	Evaluation of Mg-MOF-74 for post-combustion carbon dioxide capture through pressure swing adsorption. International Journal of Energy Research, 2015, 39, 1994-2007.	4.5	8
147	Investigation of liquid ethanol evaporation and combustion in air and oxygen environments inside a 25 kW vertical reactor. Proceedings of the Institution of Mechanical Engineers, Part A: Journal of Power and Energy, 2015, 229, 647-661.	1.4	8
148	Second law analysis of premixed and non-premixed oxy-fuel combustion cycles utilizing oxygen separation membranes. Applied Energy, 2020, 259, 114213.	10.1	8
149	Numerical modeling of heat transfer characteristics in a two-pass oxygen transport reactor for fire tube boilers under oxy-fuel combustion. Applied Thermal Engineering, 2021, 195, 117248.	6.0	8
150	Use of Nanofluids for Improved Natural Cooling of Discretely Heated Cavities. Advances in Mechanical Engineering, 2013, 5, 383267.	1.6	8
151	Effect of geometry on flow field and oil/water separation in vertical deadlegs. International Journal of Numerical Methods for Heat and Fluid Flow, 2005, 15, 348-362.	2.8	7
152	Investigations of an Ion Transport Membrane Reactor Specially Designed for a Power Cycle. Applied Mechanics and Materials, 2013, 302, 440-446.	0.2	7
153	Simulation of Oxy-Fuel Combustion of Heavy Oil Fuel in a Model Furnace. Journal of Energy Resources Technology, Transactions of the ASME, 2015, 137, .	2.3	7
154	Soft Analyzer for Monitoring NOx Emissions From a Gas Turbine Combustor. Journal of Energy Resources Technology, Transactions of the ASME, 2016, 138, .	2.3	7
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