

Mohamed A M Habib

List of Publications by Citations

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222
papers

4,397
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233
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5,202
ext. citations

4.4
avg, IF

5.98
L-index

#	Paper	IF	Citations
222	Carbon capture by physical adsorption: Materials, experimental investigations and numerical modeling and simulations [A review]. <i>Applied Energy</i> , 2016 , 161, 225-255	10.7	348
221	Fuel flexibility, stability and emissions in premixed hydrogen-rich gas turbine combustion: Technology, fundamentals, and numerical simulations. <i>Applied Energy</i> , 2015 , 154, 1020-1047	10.7	136
220	A review of recent developments in carbon capture utilizing oxy-fuel combustion in conventional and ion transport membrane systems. <i>International Journal of Energy Research</i> , 2011 , 35, 741-764	4.5	136
219	Flame macrostructures, combustion instability and extinction strain scaling in swirl-stabilized premixed CH ₄ /H ₂ combustion. <i>Combustion and Flame</i> , 2016 , 163, 494-507	5.3	105
218	Acoustic Detection of Leaks in Water Pipelines Using Measurements inside Pipe. <i>Journal of Pipeline Systems Engineering and Practice</i> , 2012 , 3, 47-54	1.5	100
217	An efficient CO ₂ adsorptive storage using MOF-5 and MOF-177. <i>Applied Energy</i> , 2018 , 210, 317-326	10.7	93
216	Optimization procedure of a hybrid photovoltaic wind energy system. <i>Energy</i> , 1999 , 24, 919-929	7.9	91
215	Experimental and numerical investigations of an atmospheric diffusion oxy-combustion flame in a gas turbine model combustor. <i>Applied Energy</i> , 2013 , 111, 401-415	10.7	90
214	Recent Development in Oxy-Combustion Technology and Its Applications to Gas Turbine Combustors and ITM Reactors. <i>Energy & Fuels</i> , 2013 , 27, 2-19	4.1	79
213	A Review of Hybrid Solar-Biosil Fuel Power Generation Systems and Performance Metrics. <i>Journal of Solar Energy Engineering, Transactions of the ASME</i> , 2012 , 134,	2.3	76
212	Techno-economic performance analysis of parabolic trough collector in Dhahran, Saudi Arabia. <i>Energy Conversion and Management</i> , 2014 , 86, 622-633	10.6	74
211	Influence of combustion parameters on NO _x production in an industrial boiler. <i>Computers and Fluids</i> , 2008 , 37, 12-23	2.8	60
210	Tuning the Interplay between Selectivity and Permeability of ZIF-7 Mixed Matrix Membranes. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 33401-33407	9.5	58
209	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	8.1	58
208	RBF neural network inferential sensor for process emission monitoring. <i>Control Engineering Practice</i> , 2013 , 21, 962-970	3.9	56
207	Oxy-fuel combustion technology: current status, applications, and trends. <i>International Journal of Energy Research</i> , 2017 , 41, 1670-1708	4.5	54
206	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	10.7	54

205	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	52
204	Soft sensor for NOx and O2 using dynamic neural networks. <i>Computers and Electrical Engineering</i> , 2009 , 35, 578-586	4.3	52
203	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	10.7	51
202	Computational fluid dynamic simulation of small leaks in water pipelines for direct leak pressure transduction. <i>Computers and Fluids</i> , 2012 , 57, 110-123	2.8	51
201	Review on Premixed Combustion Technology: Stability, Emission Control, Applications, and Numerical Case Study. <i>Energy & Fuels</i> , 2016 , 30, 9981-10014	4.1	47
200	A Comprehensive Review of Thermal Enhanced Oil Recovery: Techniques Evaluation. <i>Journal of Energy Resources Technology, Transactions of the ASME</i> , 2019 , 141,	2.6	47
199	Database for building energy prediction in Saudi Arabia. <i>Energy Conversion and Management</i> , 2003 , 44, 191-201	10.6	47
198	Review of Novel Combustion Techniques for Clean Power Production in Gas Turbines. <i>Energy & Fuels</i> , 2018 , 32, 979-1004	4.1	46
197	Velocity characteristics of turbulent natural convection in symmetrically and asymmetrically heated vertical channels. <i>Experimental Thermal and Fluid Science</i> , 2002 , 26, 77-87	3	44
196	Evaluation of gas radiation models in CFD modeling of oxy-combustion. <i>Energy Conversion and Management</i> , 2014 , 81, 83-97	10.6	40
195	Second-law-based thermodynamic analysis of regenerative-reheat Rankine-cycle power plants. <i>Energy</i> , 1992 , 17, 295-301	7.9	40
194	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	6.7	37
193	Heat transfer characteristics and Nusselt number correlation of turbulent pulsating pipe air flows. <i>Heat and Mass Transfer</i> , 2004 , 40, 307-318	2.2	36
192	Strain Influence on the Oxygen Electrocatalysis of the (100)-Oriented Epitaxial La ₂ NiO ₄ + δ Thin Films at Elevated Temperatures. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 18789-18795	3.8	35
191	Storage stability and high-temperature performance of asphalt binder modified with recycled plastic. <i>Road Materials and Pavement Design</i> , 2017 , 18, 1117-1134	2.6	34
190	Numerical investigation of erosion threshold velocity in a pipe with sudden contraction. <i>Computers and Fluids</i> , 2005 , 34, 721-742	2.8	34
189	Characteristics of Oxy-fuel Combustion in an Oxygen Transport Reactor. <i>Energy & Fuels</i> , 2012 , 26, 4599-4606	4.1	33
188	Erosion rate correlations of a pipe protruded in an abrupt pipe contraction. <i>International Journal of Impact Engineering</i> , 2007 , 34, 1350-1369	4	33

187	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 ^{6,7}	33	33
186	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	3	31
185	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	9.6	31
184	Experimental analysis of oxygen-methane combustion inside a gas turbine reactor under various operating conditions. <i>Energy</i> , 2015 , 86, 105-114	7.9	31
183	Numerical investigation of syngas oxy-combustion inside a LSCF-6428 oxygen transport membrane reactor. <i>Energy</i> , 2016 , 96, 654-665	7.9	30
182	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	10.7	30
181	Design of an ion transport membrane reactor for application in fire tube boilers. <i>Energy</i> , 2015 , 81, 787-801	10.7	29
180	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	10.7	29
179	Effects of oxidizer flexibility and bluff-body blockage ratio on flammability limits of diffusion flames. <i>Applied Energy</i> , 2016 , 178, 19-28	10.7	29
178	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	6.7	29
177	Modeling of a combined ion transport and porous membrane reactor for oxy-combustion. <i>Journal of Membrane Science</i> , 2013 , 446, 230-243	9.6	29
176	Computational fluid dynamic simulation of oxyfuel combustion in gas-fired water tube boilers. <i>Computers and Fluids</i> , 2012 , 56, 152-165	2.8	29
175	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	7.9	28
174	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	28
173	Turbulent natural convection between inclined isothermal plates. <i>Computers and Fluids</i> , 2005 , 34, 1025-1039	10.8	28
172	Design of an ion transport membrane reactor for gas turbine combustion application. <i>Journal of Membrane Science</i> , 2014 , 450, 60-71	9.6	27
171	Heat Transfer Characteristics in a Double-Pipe Heat Exchanger Equipped with Coiled Circular Wires. <i>Experimental Heat Transfer</i> , 2015 , 28, 531-545	2.4	27
170	Evaluation of flow maldistribution in air-cooled heat exchangers. <i>Computers and Fluids</i> , 2009 , 38, 677-690	10.8	27

169	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	9.5	27
168	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	7.9	26
167	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	26
166	Thermodynamic performance analysis of the Ghazlan power plant. <i>Energy</i> , 1995 , 20, 1121-1130	7.9	26
165	Experimental study of atmospheric partially premixed oxy-combustion flames anchored over a perforated plate burner. <i>Energy</i> , 2017 , 122, 159-167	7.9	25
164	On the Modeling of Steam Methane Reforming. <i>Journal of Energy Resources Technology, Transactions of the ASME</i> , 2015 , 137,	2.6	25
163	Feasibility of using ground-coupled condensers in A/C systems. <i>Geothermics</i> , 2010 , 39, 201-204	4.3	25
162	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,	1.7	24
161	An experimental investigation of heat transfer to pulsating pipe air flow with different amplitudes. <i>Heat and Mass Transfer</i> , 2006 , 42, 625-635	2.2	24
160	Investigation of a turbulent premixed combustion flame in a backward-facing step combustor; effect of equivalence ratio. <i>Energy</i> , 2016 , 95, 211-222	7.9	23
159	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	10.7	22
158	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	5.8	22
157	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		22
156	Erosion and penetration rates of a pipe protruded in a sudden contraction. <i>Computers and Fluids</i> , 2008 , 37, 146-160	2.8	22
155	Numerical investigation of oxygen permeation and methane oxy-combustion in a stagnation flow ion transport membrane reactor. <i>Energy</i> , 2013 , 54, 322-332	7.9	21
154	Fluid flow and heat transfer characteristics in axisymmetric annular diffusers. <i>Computers and Fluids</i> , 1996 , 25, 133-150	2.8	21
153	Reducing the flow mal-distribution in a heat exchanger. <i>Computers and Fluids</i> , 2015 , 107, 1-10	2.8	20
152	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	3.9	19

151	Modeling of oxygen permeation through a LSCF ion transport membrane. <i>Computers and Fluids</i> , 2013 , 76, 1-10	2.8	19
150	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	1.9	19
149	High gas permselectivity in ZIF-302/polyimide self-consistent mixed-matrix membrane. <i>Journal of Applied Polymer Science</i> , 2020 , 137, 48513	2.9	19
148	Experimental and computational study on stability characteristics of hydrogen-enriched oxy-methane premixed flames. <i>Applied Energy</i> , 2019 , 250, 433-443	10.7	18
147	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	18
146	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	10.6	18
145	Optimization of reheat pressures in thermal power plants. <i>Energy</i> , 1995 , 20, 555-565	7.9	18
144	Oxy-Combustion of Hydrogen-Enriched Methane: Experimental Measurements and Analysis. <i>Energy & Fuels</i> , 2017 , 31, 2007-2016	4.1	17
143	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	4.1	17
142	Thermodynamic optimization of reheat regenerative thermal-power plants. <i>Applied Energy</i> , 1999 , 63, 17-34	10.7	17
141	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	4.1	16
140	Evaluating the Effect of Hardness on Erosion Characteristics of Aluminum and Steels. <i>Journal of Materials Engineering and Performance</i> , 2014 , 23, 2274-2282	1.6	16
139	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	2.1	16
138	Experimental investigation of the stability of a turbulent diffusion flame in a gas turbine combustor. <i>Energy</i> , 2018 , 157, 904-913	7.9	16
137	Modeling of ion transport reactor for oxy-fuel combustion. <i>International Journal of Energy Research</i> , 2013 , 37, 1265-1279	4.5	15
136	Turbulent natural convection flow in a vertical channel with anti-symmetric heating. <i>Heat and Mass Transfer</i> , 2008 , 44, 1207-1216	2.2	15
135	Correlations of flow maldistribution parameters in an air cooled heat exchanger. <i>International Journal for Numerical Methods in Fluids</i> , 2008 , 56, 143-165	1.9	15
134	Numerical investigation of natural convection inside an inclined parallel-walled channel. <i>International Journal for Numerical Methods in Fluids</i> , 2005 , 49, 569-582	1.9	15

133	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	2.2	15
132	Thermodynamic analysis of the performance of cogeneration plants. <i>Energy</i> , 1992 , 17, 485-491	7.9	15
131	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	7.9	15
130	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,	2.6	14
129	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	2.1	14
128	Frontiers in combustion techniques and burner designs for emissions control and CO2 capture: A review. <i>International Journal of Energy Research</i> , 2019 , 43, 7790	4.5	14
127	Solid Particle Erosion Downstream of an Orifice. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , 2015 , 137,	2.1	14
126	Characteristics of Natural Convection Heat Transfer in an Array of Discrete Heat Sources. <i>Experimental Heat Transfer</i> , 2014 , 27, 91-111	2.4	14
125	Calculation of turbulent flow and heat transfer in periodically converging-diverging channels. <i>Computers and Fluids</i> , 1998 , 27, 95-120	2.8	14
124	Energy, exergy and parametric analysis of a combined cycle power plant. <i>Thermal Science and Engineering Progress</i> , 2020 , 15, 100450	3.6	14
123	Prediction of riser tubes temperature in water tube boilers. <i>Applied Mathematical Modelling</i> , 2009 , 33, 1323-1336	4.5	13
122	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, 924-9	1.7	13
121	Adsorption characterization and CO2 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	4	12
120	Thin film membrane for CO2 separation with sweeping gas method. <i>Energy</i> , 2018 , 144, 619-626	7.9	12
119	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	1.9	12
118	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, 426-9	1.7	12
117	Palladium-Alloy Membrane Reactors for Fuel Reforming and Hydrogen Production: A Review. <i>Energy & Fuels</i> , 2021 , 35, 5558-5593	4.1	12
116	The Characteristics of Oxycombustion of Liquid Fuel in a Typical Water-Tube Boiler. <i>Energy & Fuels</i> , 2017 , 31, 6305-6313	4.1	11

115	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	10.3	11
114	Erosion in the tube entrance region of an air-cooled heat exchanger. <i>International Journal of Impact Engineering</i> , 2006 , 32, 1440-1463	4	11
113	CFD modeling of hydrogen separation through Pd-based membrane. <i>International Journal of Hydrogen Energy</i> , 2020 , 45, 23006-23019	6.7	11
112	Structure and Lean Extinction of Premixed Flames Stabilized on Conductive Perforated Plates. <i>Energy & Fuels</i> , 2017 , 31, 1980-1992	4.1	10
111	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	1.7	10
110	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	4	10
109	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	10
108	Evaluation of the Accuracy of Selected Syngas Chemical Mechanisms. <i>Journal of Energy Resources Technology, Transactions of the ASME</i> , 2015 , 137,	2.6	10
107	Numerical investigation of combustion characteristics in an oxygen transport reactor. <i>International Journal of Energy Research</i> , 2014 , 38, 638-651	4.5	10
106	Thermal and emission characteristics in a tangentially fired boiler model furnace. <i>International Journal of Energy Research</i> , 2010 , 34, 1164-1182	4.5	10
105	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,	2.6	10
104	Effect of microstructure and thickness on oxygen permeation of La ₂ NiO ₄ + δ membranes. <i>Ceramics International</i> , 2016 , 42, 666-672	5.1	9
103	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,	2.6	9
102	Characteristics of Oxyfuel Combustion in Lean-Premixed Multihole Burners. <i>Energy & Fuels</i> , 2019 , 33, 11948-11958	4.1	9
101	Boilers Optimal Control for Maximum Load Change Rate. <i>Journal of Energy Resources Technology, Transactions of the ASME</i> , 2014 , 136,	2.6	9
100	Characteristics of Oxyfuel and AirFuel Combustion in an Industrial Water Tube Boiler. <i>Heat Transfer Engineering</i> , 2014 , 35, 1394-1404	1.7	9
99	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	9
98	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,	2.6	9

97	Hydrogen production, oxygen separation and syngas oxy-combustion inside a water splitting membrane reactor. <i>Renewable Energy</i> , 2017 , 113, 221-234	8.1	8
96	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	8
95	Thermo-economic analysis of integrated membrane-SMR ITM-oxy-combustion hydrogen and power production plant. <i>Applied Energy</i> , 2017 , 204, 626-640	10.7	8
94	Evaluation of Mg-MOF-74 for post-combustion carbon dioxide capture through pressure swing adsorption. <i>International Journal of Energy Research</i> , 2015 , 39, 1994-2007	4.5	7
93	Investigation of liquid ethanol evaporation and combustion in air and oxygen environments inside a 25 kW vertical reactor. <i>Proceedings of the Institution of Mechanical Engineers, Part A: Journal of Power and Energy</i> , 2015 , 229, 647-661	1.6	7
92	Investigations of an Ion Transport Membrane Reactor Specially Designed for a Power Cycle. <i>Applied Mechanics and Materials</i> , 2013 , 302, 440-446	0.3	7
91	A thermal nonlinear dynamic model for water tube drum boilers. <i>International Journal of Energy Research</i> , 2010 , 34, 20-35	4.5	7
90	Effect of geometry on flow field and oil/water separation in vertical deadlegs. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , 2005 , 15, 348-362	4.5	7
89	Stability limits and temperature measurements in a tangentially-fired model furnace. <i>Energy</i> , 1992 , 17, 283-294	7.9	7
88	Second law analysis of premixed and non-premixed oxy-fuel combustion cycles utilizing oxygen separation membranes. <i>Applied Energy</i> , 2020 , 259, 114213	10.7	7
87	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	6.7	7
86	Simulation of OxyFuel Combustion of Heavy Oil Fuel in a Model Furnace. <i>Journal of Energy Resources Technology, Transactions of the ASME</i> , 2015 , 137,	2.6	6
85	Study of Combustion Characteristics of Ethanol at Different Dilution With the Carrier Gas. <i>Journal of Energy Resources Technology, Transactions of the ASME</i> , 2015 , 137,	2.6	6
84	Erosion of a multistage orifice due to liquid-solid flow. <i>Wear</i> , 2017 , 390-391, 270-282	3.5	6
83	Design of a multi-can carbon-free gas turbine combustor utilizing multiple shell-and-tube OTRs for ZEPP applications. <i>Journal of Natural Gas Science and Engineering</i> , 2017 , 46, 172-187	4.6	6
82	UWB binomial curved monopole with binomial curved ground plane. <i>Microwave and Optical Technology Letters</i> , 2009 , 51, 2308-2313	1.2	6
81	Use of Nanofluids for Improved Natural Cooling of Discretely Heated Cavities. <i>Advances in Mechanical Engineering</i> , 2013 , 5, 383267	1.2	6
80	Oxy-combustion of liquid fuel in an ion transport membrane reactor. <i>International Journal of Energy and Environmental Engineering</i> , 2018 , 9, 21-37	4	6

79	Oxy-fuel combustion in a two-pass oxygen transport reactor for fire tube boiler application. <i>Applied Energy</i> , 2018 , 229, 828-840	10.7	6
78	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,	2.6	5
77	Modeling Time Variations of Boiler Efficiency. <i>Journal of Energy Resources Technology, Transactions of the ASME</i> , 2018 , 140,	2.6	5
76	Soft Analyzer for Monitoring NO _x Emissions From a Gas Turbine Combustor. <i>Journal of Energy Resources Technology, Transactions of the ASME</i> , 2016 , 138,	2.6	5
75	Numerical investigation of liquid methanol evaporation and oxy-combustion inside a button-cell ITM reactor. <i>Applied Thermal Engineering</i> , 2017 , 112, 378-391	5.8	5
74	Application of the Critical Heat Flux Look-Up Table to Large Diameter Tubes. <i>Science and Technology of Nuclear Installations</i> , 2013 , 2013, 1-10	0.6	5
73	Turbulent natural convection flow in partitioned enclosure. <i>Computers and Fluids</i> , 1997 , 26, 547-563	2.8	5
72	A highly diluted oxy-fuel micromixer combustor with hydrogen enrichment for enhancing turndown in gas turbines. <i>Applied Energy</i> , 2020 , 279, 115818	10.7	5
71	Investigation of performance of fire-tube boilers integrated with ion transport membrane for oxy-fuel combustion. <i>International Journal of Energy Research</i> , 2016 , 40, 1673-1687	4.5	5
70	Structural and computational analyses of a 2-propanolammonium-chlorocadmate(II) assembly: Pivotal role of hydrogen bonding and H π interactions. <i>Journal of Molecular Structure</i> , 2021 , 1223, 128998	3.4	5
69	Oxy-fuel Combustion in a 600 MW Gaseous Fuel Tangentially Fired Boiler. <i>Energy & Fuels</i> , 2017 , 31, 12540-12551	4.1	4
68	Effects of oxygen carrier mole fraction, velocity distribution on conversion performance using an experimentally validated mathematical model of a CLC fuel reactor. <i>Applied Energy</i> , 2017 , 208, 803-819	10.7	4
67	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	4.1	4
66	Oxyfuel Combustion for Clean Energy Applications. <i>Green Energy and Technology</i> , 2019 ,	0.6	4
65	Performance Comparative Analysis of Three Different CSP Technologies Integrated with Gas Turbine Cogeneration Systems in Saudi Arabia. <i>Energy Procedia</i> , 2015 , 75, 527-532	2.3	4
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