

Mohamed A M Habib

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

222
papers

4,397
citations

33
h-index

55
g-index

233
ext. papers

5,202
ext. citations

4.4
avg, IF

5.98
L-index

#	Paper	IF	Citations
222	Effects of adiabatic flame temperature on flames characteristics in a gas-turbine combustor. <i>Energy</i> , 2022 , 243, 123077	7.9	1
221	Experimental and Statistical ANOVA Analysis on Combustion Stability of CH ₄ /O ₂ /CO ₂ in a Partially Premixed Gas Turbine Combustor. <i>Journal of Energy Resources Technology, Transactions of the ASME</i> , 2022 , 144,	2.6	1
220	Azo-Linked Porous Organic Polymers for Selective Carbon Dioxide Capture and Metal Ion Removal. <i>ACS Omega</i> , 2022 , 7, 14535-14543	3.9	0
219	Computational chemistry methods for modelling non-covalent interactions and chemical reactivity: An overview. <i>Journal of the Indian Chemical Society</i> , 2021 , 98, 100208		4
218	Comprehensive parametric investigation of methane reforming and hydrogen separation using a CFD model. <i>Energy Conversion and Management</i> , 2021 , 249, 114838	10.6	1
217	Palladium-Alloy Membrane Reactors for Fuel Reforming and Hydrogen Production: A Review. <i>Energy & Fuels</i> , 2021 , 35, 5558-5593	4.1	12
216	On the quality of micromixing in an oxy-fuel micromixer burner for gas turbine applications: A numerical study. <i>Chemical Engineering and Processing: Process Intensification</i> , 2021 , 162, 108336	3.7	2
215	Numerical analysis supported with experimental measurements of premixed oxy-propane flames in a fuel-flex gas turbine combustor. <i>International Journal of Energy Research</i> , 2021 , 45, 16038-16061	4.5	0
214	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	6.7	4
213	Operability of a premixed combustor holding hydrogen-enriched oxy-methane flames: An experimental and numerical study. <i>International Journal of Energy Research</i> , 2021 , 45, 3049-3063	4.5	2
212	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
211	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	7.9	3
210	Thermodynamic Assessment of Membrane-Assisted Premixed and Non-Premixed Oxy-Fuel Combustion Power Cycles. <i>Journal of Energy Resources Technology, Transactions of the ASME</i> , 2021 , 143,	2.6	3
209	PREPARATION OF CELLULOSE NANOCRYSTALS FROM DATE PALM TREE LEAFLETS (PHOENIX DACTYLIFERA L.) VIA REPEATED CHEMICAL TREATMENTS. <i>Cellulose Chemistry and Technology</i> , 2021 , 55, 33-39	1.9	0
208	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	7.9	2
207	Numerical modeling of heat transfer characteristics in a two-pass oxygen transport reactor for fire tube boilers under oxy-fuel combustion. <i>Applied Thermal Engineering</i> , 2021 , 195, 117248	5.8	4
206	Operability of Fuel/Oxidizer-Flexible Combustor Holding Hydrogen-Enriched Partially Premixed Oxy-Flames Stabilized over a Perforated Plate Burner. <i>Energy & Fuels</i> , 2020 , 34, 8653-8665	4.1	3

205	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
204	Approaches for Clean Combustion in Gas Turbines. <i>Fluid Mechanics and Its Applications</i> , 2020 ,	0.2	3
203	Numerical Investigation of Oxygen Permeation Through a Ba _{0.5} Sr _{0.5} Co _{0.8} Fe _{0.2} O ₃ Ion Transport Membrane With Impingement Flow. <i>Journal of Energy Resources Technology, Transactions of the ASME</i> , 2020 , 142,	2.6	2
202	Gas Turbine Performance for Different Burner Technologies. <i>Fluid Mechanics and Its Applications</i> , 2020 , 165-257	0.2	
201	Neutral nickel(II) complex bearing hemilabile N,S-donor ligands structural, Hirshfeld surfaces and DFT studies. <i>Molecular Crystals and Liquid Crystals</i> , 2020 , 709, 98-110	0.5	2
200	Operability of Fuel/Oxidizer-Flexible Gas Turbine Combustors. <i>Fluid Mechanics and Its Applications</i> , 2020 , 259-319	0.2	
199	Burner Designs for Clean Power Generation in Gas Turbines. <i>Fluid Mechanics and Its Applications</i> , 2020 , 99-164	0.2	
198	Hybrid Membrane and Porous-Plates Reactors for Gas Turbine Applications. <i>Fluid Mechanics and Its Applications</i> , 2020 , 321-417	0.2	1
197	Premixed Combustion for Gas-Turbine Applications. <i>Fluid Mechanics and Its Applications</i> , 2020 , 13-97	0.2	
196	Global Warming and Emission Regulations. <i>Fluid Mechanics and Its Applications</i> , 2020 , 1-12	0.2	3
195	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
194	Energy, exergy and parametric analysis of a combined cycle power plant. <i>Thermal Science and Engineering Progress</i> , 2020 , 15, 100450	3.6	14
193	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
192	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
191	Heat flux and friction losses effects on natural circulation package boilers. <i>Thermal Science and Engineering Progress</i> , 2020 , 20, 100738	3.6	1
190	CFD modeling of hydrogen separation through Pd-based membrane. <i>International Journal of Hydrogen Energy</i> , 2020 , 45, 23006-23019	6.7	11
189	Review of Fuel/Oxidizer-Flexible Combustion in Gas Turbines. <i>Energy & Fuels</i> , 2020 , 34, 10459-10485	4.1	3
188	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

187	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
186	CFD modeling of liquid film reversal of two-phase flow in vertical pipes. <i>Journal of Petroleum Exploration and Production</i> , 2019 , 9, 3039-3070	2.2	1
185	Experimental study on combustion characteristics and lean blow-out limits of non-premixed oxy-methane flames in a porous-plate reactor. <i>Heat and Mass Transfer</i> , 2019 , 55, 3265-3274	2.2	2
184	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
183	Application of Oxy-fuel Combustion Technology into Conventional Combustors. <i>Green Energy and Technology</i> , 2019 , 43-89	0.6	
182	Modeling of Combustion in Gas Turbines. <i>Green Energy and Technology</i> , 2019 , 193-274	0.6	
181	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
180	Oxyfuel Combustion for Clean Energy Applications. <i>Green Energy and Technology</i> , 2019 ,	0.6	4
179	Novel Approaches for Clean Combustion in Gas Turbines. <i>Green Energy and Technology</i> , 2019 , 133-192	0.6	
178	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
177	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	14
176	Characteristics of Oxyfuel Combustion in Lean-Premixed Multihole Burners. <i>Energy & Fuels</i> , 2019 , 33, 11948-11958	4.1	9
175	Experimental and numerical study of oxy-methane flames in a porous-plate reactor mimicking membrane reactor operation. <i>International Journal of Energy Research</i> , 2019 , 43, 7040	4.5	0
174	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
173	Numerical Investigation of Auto-Ignition Characteristics in Microstructured Catalytic Honeycomb Reactor for CH ₄ /Air and CH ₄ /H ₂ /Air Mixtures. <i>Journal of Energy Resources Technology, Transactions of the ASME</i> , 2019 , 141,	2.6	1
172	Applications of OTRs in Gas Turbines and Boilers. <i>Green Energy and Technology</i> , 2019 , 275-368	0.6	
171	Ion Transport Membranes (ITMs) for Oxygen Separation. <i>Green Energy and Technology</i> , 2019 , 91-132	0.6	
170	Static Stability and Combustion Characteristics of Oxy-Propane Flames in a Premixed Fuel-Flexible Swirl Combustor. <i>Energy & Fuels</i> , 2019 , 33, 11996-12007	4.1	3

169	A Thermo-Environmental Evaluation of a Modified Combustion Gas Turbine Plant. <i>Journal of Energy Resources Technology, Transactions of the ASME</i> , 2019 , 141,	2.6	4
168	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
167	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
166	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	4	12
165	Numerical investigation of a hybrid polymeric-ceramic membrane unit for carbon-free oxy-combustion applications. <i>Energy</i> , 2018 , 147, 362-376	7.9	1
164	Review of Novel Combustion Techniques for Clean Power Production in Gas Turbines. <i>Energy & Fuels</i> , 2018 , 32, 979-1004	4.1	46
163	Thin film membrane for CO ₂ separation with sweeping gas method. <i>Energy</i> , 2018 , 144, 619-626	7.9	12
162	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
161	Modeling Time Variations of Boiler Efficiency. <i>Journal of Energy Resources Technology, Transactions of the ASME</i> , 2018 , 140,	2.6	5
160	Numerical study of radiative heat transfer and effects of thermal boundary conditions on CLC fuel reactor. <i>Heat and Mass Transfer</i> , 2018 , 54, 571-590	2.2	0
159	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
158	Experimental and numerical investigation of flow field and oxy-methane combustion characteristics in a low-power porous-plate reactor. <i>Energy</i> , 2018 , 160, 783-795	7.9	2
157	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
156	Thermodynamics and emission analysis of a modified Brayton cycle subjected to air cooling and evaporative after cooling. <i>Energy Conversion and Management</i> , 2018 , 174, 322-335	10.6	4
155	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
154	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
153	An efficient CO ₂ adsorptive storage using MOF-5 and MOF-177. <i>Applied Energy</i> , 2018 , 210, 317-326	10.7	93
152	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

151	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
150	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
149	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
148	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
147	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
146	Oxy-Combustion of Hydrogen-Enriched Methane: Experimental Measurements and Analysis. <i>Energy & Fuels</i> , 2017 , 31, 2007-2016	4.1	17
145	Structure and Lean Extinction of Premixed Flames Stabilized on Conductive Perforated Plates. <i>Energy & Fuels</i> , 2017 , 31, 1980-1992	4.1	10
144	Oxy-fuel combustion technology: current status, applications, and trends. <i>International Journal of Energy Research</i> , 2017 , 41, 1670-1708	4.5	54
143	The Characteristics of Oxycombustion of Liquid Fuel in a Typical Water-Tube Boiler. <i>Energy & Fuels</i> , 2017 , 31, 6305-6313	4.1	11
142	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
141	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
140	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
139	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
138	Oxy-fuel Combustion in a 600 MW Gaseous Fuel Tangentially Fired Boiler. <i>Energy & Fuels</i> , 2017 , 31, 12540-12551	4.1	4
137	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
136	CFD analysis of CO ₂ adsorption in different adsorbents including activated carbon, zeolite and Mg-MOF-74. <i>International Journal of Global Warming</i> , 2017 , 13, 57	0.6	2
135	Boiler dynamic control with optimized nitric oxides and efficiency. <i>Proceedings of the Institution of Mechanical Engineers Part I: Journal of Systems and Control Engineering</i> , 2017 , 231, 778-796	1	1
134	Erosion of a multistage orifice due to liquid-solid flow. <i>Wear</i> , 2017 , 390-391, 270-282	3.5	6

133	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
132	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
131	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
130	Effect of Radiation Heat Transfer on Naturally Driven Flow Through Parallel-Plate Vertical Channel. <i>Arabian Journal for Science and Engineering</i> , 2017 , 42, 1817-1829	2.5	2
129	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
128	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
127	Simulation of CO ₂ adsorption-separation from an N ₂ /CO ₂ gas mixture in a fixed Mg-MOF-74 column. <i>International Journal of Global Warming</i> , 2017 , 11, 125	0.6	1
126	Effect of microstructure and thickness on oxygen permeation of La ₂ NiO ₄ + λ membranes. <i>Ceramics International</i> , 2016 , 42, 666-672	5.1	9
125	Review on Premixed Combustion Technology: Stability, Emission Control, Applications, and Numerical Case Study. <i>Energy & Fuels</i> , 2016 , 30, 9981-10014	4.1	47
124	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
123	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
122	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
121	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
120	Computational Fluid Dynamics (CFD) Investigation of the Oxy-combustion Characteristics of Diesel Oil, Kerosene, and Heavy Oil Liquid Fuels in a Model Furnace. <i>Energy & Fuels</i> , 2016 , 30, 2458-2473	4.1	3
119	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
118	Numerical investigation of syngas oxy-combustion inside a LSCF-6428 oxygen transport membrane reactor. <i>Energy</i> , 2016 , 96, 654-665	7.9	30
117	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
116	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

115	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
114	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}	6.7	33
113	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
112	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
111	On the Modeling of Steam Methane Reforming. <i>Journal of Energy Resources Technology, Transactions of the ASME</i> , 2015 , 137,	2.6	25
110	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
109	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
108	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
107	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
106	Design of an ion transport membrane reactor for application in fire tube boilers. <i>Energy</i> , 2015 , 81, 787-801	8.1	29
105	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
104	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
103	Reducing the flow mal-distribution in a heat exchanger. <i>Computers and Fluids</i> , 2015 , 107, 1-10	2.8	20
102	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
101	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
100	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
99	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
98	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

97	Solid Particle Erosion Downstream of an Orifice. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , 2015 , 137,	2.1	14
96	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
95	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
94	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
93	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
92	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
91	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
90	Evaluation of gas radiation models in CFD modeling of oxy-combustion. <i>Energy Conversion and Management</i> , 2014 , 81, 83-97	10.6	40
89	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
88	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
87	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
86	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
85	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
84	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
83	Experienced EFL teachers' professional practical knowledge, reasoning and classroom decision making in Egypt: views from the inside out. <i>Teacher Development</i> , 2014 , 18, 229-245	0.6	1
82	Boilers Optimal Control for Maximum Load Change Rate. <i>Journal of Energy Resources Technology, Transactions of the ASME</i> , 2014 , 136,	2.6	9
81	Experimental Investigation of the Flow Maldistribution Inside an Air-Cooled Heat Exchanger. <i>Arabian Journal for Science and Engineering</i> , 2014 , 39, 8187-8198		1
80	Numerical investigation of combustion characteristics in an oxygen transport reactor. <i>International Journal of Energy Research</i> , 2014 , 38, 638-651	4.5	10

79	Characteristics of Oxyfuel and AirFuel Combustion in an Industrial Water Tube Boiler. <i>Heat Transfer Engineering</i> , 2014 , 35, 1394-1404	1.7	9
78	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
77	Modeling of ion transport reactor for oxy-fuel combustion. <i>International Journal of Energy Research</i> , 2013 , 37, 1265-1279	4.5	15
76	RBF neural network inferential sensor for process emission monitoring. <i>Control Engineering Practice</i> , 2013 , 21, 962-970	3.9	56
75	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
74	Control of the Boiler Swing Rate for NO Emission Minimization. <i>Energy & Fuels</i> , 2013 , 27, 6079-6086	4.1	4
73	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
72	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
71	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
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