List of Publications by Year in descending order

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		87888	106344
228	6,025	38	65
papers	citations	h-index	g-index
222	222	222	4077
233	233	233	4877
all docs	docs citations	times ranked	citing authors

#	Article	IF	CITATIONS
1	Shape and stability characteristics of hydrogen-enriched natural-gas oxy-flames in a micromixer burner. Combustion Science and Technology, 2023, 195, 1887-1909.	2.3	0
2	Experimental and Statistical ANOVA Analysis on Combustion Stability of CH4/O2/CO2 in a Partially Premixed Gas Turbine Combustor. Journal of Energy Resources Technology, Transactions of the ASME, 2022, 144, .	2.3	6
3	Stratified and Hydrogen Combustion Techniques for Higher Turndown and Lower Emissions in Gas Turbines. Journal of Energy Resources Technology, Transactions of the ASME, 2022, 144, .	2.3	11
4	Effects of adiabatic flame temperature on flames' characteristics in a gas-turbine combustor. Energy, 2022, 243, 123077.	8.8	7
5	Azo-Linked Porous Organic Polymers for Selective Carbon Dioxide Capture and Metal Ion Removal. ACS Omega, 2022, 7, 14535-14543.	3.5	13
6	Operability of a premixed combustor holding hydrogenâ€enriched oxyâ€methane flames: An experimental and numerical study. International Journal of Energy Research, 2021, 45, 3049-3063.	4.5	7
7	Structural and computational analyses of a 2-propanolammonium-chlorocadmate(II) assembly: Pivotal role of hydrogen bonding and H—H interactions. Journal of Molecular Structure, 2021, 1223, 128998.	3.6	14
8	Comparative analysis of the stability and structure of premixed C3H8/O2/CO2 and C3H8/O2/N2 flames for clean flexible energy production. Energy, 2021, 214, 118887.	8.8	9
9	Thermodynamic Assessment of Membrane-Assisted Premixed and Non-Premixed Oxy-Fuel Combustion Power Cycles. Journal of Energy Resources Technology, Transactions of the ASME, 2021, 143, .	2.3	6
10	PREPARATION OF CELLULOSE NANOCRYSTALS FROM DATE PALM TREE LEAFLETS (PHOENIX DACTYLIFERA L.) VIA REPEATED CHEMICAL TREATMENTS. Cellulose Chemistry and Technology, 2021, 55, 33-39.	1.2	7
11	Palladium-Alloy Membrane Reactors for Fuel Reforming and Hydrogen Production: A Review. Energy & Fuels, 2021, 35, 5558-5593.	5.1	49
12	On the quality of micromixing in an oxy-fuel micromixer burner for gas turbine applications: A numerical study. Chemical Engineering and Processing: Process Intensification, 2021, 162, 108336.	3.6	7
13	Numerical analysis supported with experimental measurements of premixed oxyâ€propane flames in a fuelâ€flex gas turbine combustor. International Journal of Energy Research, 2021, 45, 16038-16061.	4.5	6
14	Experimental and numerical investigation of stability and emissions of hydrogen-assisted oxy-methane flames in a multi-hole model gas-turbine burner. International Journal of Hydrogen Energy, 2021, 46, 20093-20106.	7.1	14
15	Effects of jet diameter and spacing in a micromixer-like burner for clean oxy-fuel combustion in gas turbines. Energy, 2021, 228, 120561.	8.8	12
16	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
17	Computational chemistry methods for modelling non-covalent interactions and chemical reactivity— An overview. Journal of the Indian Chemical Society, 2021, 98, 100208.	2.8	22
18	Comprehensive parametric investigation of methane reforming and hydrogen separation using a CFD model. Energy Conversion and Management, 2021, 249, 114838.	9.2	22

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19	High gas permselectivity in ZlFâ€302/polyimide selfâ€consistent mixedâ€matrix membrane. Journal of Applied Polymer Science, 2020, 137, 48513.	2.6	31
20	Energy, exergy and parametric analysis of a combined cycle power plant. Thermal Science and Engineering Progress, 2020, 15, 100450.	2.7	26
21	Second law analysis of premixed and non-premixed oxy-fuel combustion cycles utilizing oxygen separation membranes. Applied Energy, 2020, 259, 114213.	10.1	8
22	A highly diluted oxy-fuel micromixer combustor with hydrogen enrichment for enhancing turndown in gas turbines. Applied Energy, 2020, 279, 115818.	10.1	20
23	Heat flux and friction losses effects on natural circulation package boilers. Thermal Science and Engineering Progress, 2020, 20, 100738.	2.7	2
24	CFD modeling of hydrogen separation through Pd-based membrane. International Journal of Hydrogen Energy, 2020, 45, 23006-23019.	7.1	25
25	Review of Fuel/Oxidizer-Flexible Combustion in Gas Turbines. Energy & amp; Fuels, 2020, 34, 10459-10485.	5.1	17
26	Numerical and experimental study of swirl premixed CH4/H2/O2/CO2 flames for controlled-emissions gas turbines. International Journal of Hydrogen Energy, 2020, 45, 29616-29629.	7.1	18
27	Highly Efficient Permeation and Separation of Gases with Metal–Organic Frameworks Confined in Polymeric Nanochannels. ACS Applied Materials & Interfaces, 2020, 12, 49992-50001.	8.0	49
28	Operability of Fuel/Oxidizer-Flexible Combustor Holding Hydrogen-Enriched Partially Premixed Oxy-Flames Stabilized over a Perforated Plate Burner. Energy & Fuels, 2020, 34, 8653-8665.	5.1	5
29	A newly synthesized nitrogenâ€rich derivative of bicyclic quinoxaline—Structural and conceptual DFT reactivity study. Journal of Physical Organic Chemistry, 2020, 33, e4055.	1.9	19
30	Approaches for Clean Combustion in Gas Turbines. Fluid Mechanics and Its Applications, 2020, , .	0.2	3
31	Global Warming and Emission Regulations. Fluid Mechanics and Its Applications, 2020, , 1-12.	0.2	3
32	Numerical Investigation of Oxygen Permeation Through a Ba0.5Sr0.5Co0.8Fe0.2O3â^'δ Ion Transport Membrane With Impingement Flow. Journal of Energy Resources Technology, Transactions of the ASME, 2020, 142, .	2.3	2
33	Operability of Fuel/Oxidizer-Flexible Gas Turbine Combustors. Fluid Mechanics and Its Applications, 2020, , 259-319.	0.2	0
34	Burner Designs for Clean Power Generation in Gas Turbines. Fluid Mechanics and Its Applications, 2020, , 99-164.	0.2	0
35	Micromixers and Hydrogen Enrichment: The Future Combustion Technology in Zero-Emission Power Plants. , 2020, , .		1
36	Hybrid Membrane and Porous-Plates Reactors for Gas Turbine Applications. Fluid Mechanics and Its Applications, 2020, , 321-417.	0.2	1

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37	Premixed Combustion for Gas-Turbine Applications. Fluid Mechanics and Its Applications, 2020, , 13-97.	0.2	0
38	Gas Turbine Performance for Different Burner Technologies. Fluid Mechanics and Its Applications, 2020, , 165-257.	0.2	0
39	Neutral nickel(II) complex bearing hemilabile N,S-donor ligands – structural, Hirshfeld surfaces and DFT studies. Molecular Crystals and Liquid Crystals, 2020, 709, 98-110.	0.9	5
40	A Comprehensive Review of Thermal Enhanced Oil Recovery: Techniques Evaluation. Journal of Energy Resources Technology, Transactions of the ASME, 2019, 141, .	2.3	97
41	Frontiers in combustion techniques and burner designs for emissions control and CO ₂ capture: A review. International Journal of Energy Research, 2019, 43, 7790.	4.5	22
42	Characteristics of Oxyfuel Combustion in Lean-Premixed Multihole Burners. Energy & Fuels, 2019, 33, 11948-11958.	5.1	15
43	Experimental and numerical study of oxyâ€methane flames in a porousâ€plate reactor mimicking membrane reactor operation. International Journal of Energy Research, 2019, 43, 7040.	4.5	3
44	CFD modeling of liquid film reversal of two-phase flow in vertical pipes. Journal of Petroleum Exploration and Production, 2019, 9, 3039-3070.	2.4	5
45	Experimental study on combustion characteristics and lean blow-out limits of non-premixed oxy-methane flames in a porous-plate reactor. Heat and Mass Transfer, 2019, 55, 3265-3274.	2.1	3
46	Experimental and computational study on stability characteristics of hydrogen-enriched oxy-methane premixed flames. Applied Energy, 2019, 250, 433-443.	10.1	36
47	Application of Oxy-fuel Combustion Technology into Conventional Combustors. Green Energy and Technology, 2019, , 43-89.	0.6	0
48	Modeling of Combustion in Gas Turbines. Green Energy and Technology, 2019, , 193-274.	0.6	0
49	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. Energy & Fuels, 2019, 33, 2526-2537.	5.1	11
50	Oxyfuel Combustion for Clean Energy Applications. Green Energy and Technology, 2019, , .	0.6	5
51	Numerical Predictions of Three-Dimensional Unsteady Turbulent Film-Cooling for Trailing Edge of Gas-Turbine Blade Using Large Eddy Simulation. Journal of Energy Resources Technology, Transactions of the ASME, 2019, 141, .	2.3	10
52	Numerical Investigation of Auto-Ignition Characteristics in Microstructured Catalytic Honeycomb Reactor for CH4–Air and CH4–H2–Air Mixtures. Journal of Energy Resources Technology, Transactions of the ASME, 2019, 141, .	2.3	5
53	Applications of OTRs in Gas Turbines and Boilers. Green Energy and Technology, 2019, , 275-368.	0.6	0
54	Ion Transport Membranes (ITMs) for Oxygen Separation. Green Energy and Technology, 2019, , 91-132.	0.6	0

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55	Static Stability and Combustion Characteristics of Oxy-Propane Flames in a Premixed Fuel-Flexible Swirl Combustor. Energy & Fuels, 2019, 33, 11996-12007.	5.1	7
56	A Thermo-Environmental Evaluation of a Modified Combustion Gas Turbine Plant. Journal of Energy Resources Technology, Transactions of the ASME, 2019, 141, .	2.3	6
57	Well-Placement Optimization in Heavy Oil Reservoirs Using a Novel Method of In Situ Steam Generation. Journal of Energy Resources Technology, Transactions of the ASME, 2019, 141, .	2.3	17
58	Stability map and shape of premixed CH4/O2/CO2 flames in a model gas-turbine combustor. Applied Energy, 2018, 215, 63-74.	10.1	44
59	Adsorption characterization and CO2 breakthrough of MWCNT/Mg-MOF-74 and MWCNT/MIL-100(Fe) composites. International Journal of Energy and Environmental Engineering, 2018, 9, 169-185.	2.5	20
60	Numerical investigation of a hybrid polymeric-ceramic membrane unit for carbon-free oxy-combustion applications. Energy, 2018, 147, 362-376.	8.8	2
61	Review of Novel Combustion Techniques for Clean Power Production in Gas Turbines. Energy & Fuels, 2018, 32, 979-1004.	5.1	71
62	Thin film membrane for CO2 separation with sweeping gas method. Energy, 2018, 144, 619-626.	8.8	14
63	An Experimental Study on the Performance of Drag-Reducing Polymers in Single- and Multiphase Horizontal Flow Using Particle Image Velocimetry. Journal of Energy Resources Technology, Transactions of the ASME, 2018, 140, .	2.3	11
64	Modeling Time Variations of Boiler Efficiency. Journal of Energy Resources Technology, Transactions of the ASME, 2018, 140, .	2.3	6
65	Numerical study of radiative heat transfer and effects of thermal boundary conditions on CLC fuel reactor. Heat and Mass Transfer, 2018, 54, 571-590.	2.1	1
66	Oxy-combustion of liquid fuel in an ion transport membrane reactor. International Journal of Energy and Environmental Engineering, 2018, 9, 21-37.	2.5	7
67	An efficient CO2 adsorptive storage using MOF-5 and MOF-177. Applied Energy, 2018, 210, 317-326.	10.1	151
68	Oxy-fuel combustion in a two-pass oxygen transport reactor for fire tube boiler application. Applied Energy, 2018, 229, 828-840.	10.1	10
69	Experimental investigation of the stability of a turbulent diffusion flame in a gas turbine combustor. Energy, 2018, 157, 904-913.	8.8	29
70	Effect analysis on the macrostructure and static stability limits of oxy-methane flames in a premixed swirl combustor. Energy, 2018, 159, 86-96.	8.8	17
71	Combustion behavior and stability map of hydrogen-enriched oxy-methane premixed flames in a model gas turbine combustor. International Journal of Hydrogen Energy, 2018, 43, 16652-16666.	7.1	49
72	Experimental and numerical investigation of flow field and oxy-methane combustion characteristics in a low-power porous-plateÂreactor. Energy, 2018, 160, 783-795.	8.8	5

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73	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. Energy & Fuels, 2018, 32, 9916-9925.	5.1	20
74	Thermodynamics and emission analysis of a modified Brayton cycle subjected to air cooling and evaporative after cooling. Energy Conversion and Management, 2018, 174, 322-335.	9.2	5
75	Adiabatic Flame Temperature for Controlling the Macrostructures and Stabilization Modes of Premixed Methane Flames in a Model Gas-Turbine Combustor. Energy & Fuels, 2018, 32, 7868-7877.	5.1	28
76	Optimal integration of solar energy with fossil fuel gas turbine cogeneration plants using three different CSP technologies in Saudi Arabia. Applied Energy, 2017, 185, 1268-1280.	10.1	65
77	Experimental study of atmospheric partially premixed oxy-combustion flames anchored over a perforated plate burner. Energy, 2017, 122, 159-167.	8.8	27
78	Tuning the Interplay between Selectivity and Permeability of ZIF-7 Mixed Matrix Membranes. ACS Applied Materials & Interfaces, 2017, 9, 33401-33407.	8.0	74
79	Oxy-Combustion of Hydrogen-Enriched Methane: Experimental Measurements and Analysis. Energy & Fuels, 2017, 31, 2007-2016.	5.1	23
80	Structure and Lean Extinction of Premixed Flames Stabilized on Conductive Perforated Plates. Energy & Fuels, 2017, 31, 1980-1992.	5.1	12
81	Oxy-fuel combustion technology: current status, applications, and trends. International Journal of Energy Research, 2017, 41, 1670-1708.	4.5	93
82	The Characteristics of Oxycombustion of Liquid Fuel in a Typical Water-Tube Boiler. Energy & Fuels, 2017, 31, 6305-6313.	5.1	12
83	Hydrogen production, oxygen separation and syngas oxy-combustion inside a water splitting membrane reactor. Renewable Energy, 2017, 113, 221-234.	8.9	12
84	Stability maps of non-premixed methane flames in different oxidizing environments of a gas turbine model combustor. Applied Energy, 2017, 189, 177-186.	10.1	24
85	Investigation of oxygen permeation through disc-shaped BSCF ion transport membrane under reactive conditions. International Journal of Energy Research, 2017, 41, 1049-1062.	4.5	10
86	Characteristic of air separation in hollow-fiber polymeric membrane for oxygen enriched air clean combustion applications. Journal of Cleaner Production, 2017, 143, 960-972.	9.3	15
87	Oxy-fuel Combustion in a 600 MW Gaseous Fuel Tangentially Fired Boiler. Energy & Fuels, 2017, 31, 12540-12551.	5.1	5
88	Effects of oxygen carrier mole fraction, velocity distribution on conversion performance using an experimentally validated mathematical model of a CLC fuel reactor. Applied Energy, 2017, 208, 803-819.	10.1	7
89	CFD analysis of CO _{2 adsorption in different adsorbents including activated carbon, zeolite and Mg-MOF-74. International Journal of Global Warming, 2017, 13, 57.}	0.5	3
90	Boiler dynamic control with optimized nitric oxides and efficiency. Proceedings of the Institution of Mechanical Engineers Part I: Journal of Systems and Control Engineering, 2017, 231, 778-796.	1.0	1

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91	Erosion of a multistage orifice due to liquid-solid flow. Wear, 2017, 390-391, 270-282.	3.1	7
92	Thermo-economic analysis of integrated membrane-SMR ITM-oxy-combustion hydrogen and power production plant. Applied Energy, 2017, 204, 626-640.	10.1	11
93	Design of a multi-can carbon-free gas turbine combustor utilizing multiple shell-and-tube OTRs for ZEPP applications. Journal of Natural Gas Science and Engineering, 2017, 46, 172-187.	4.4	7
94	Enhancement of adsorption carbon capture capacity of 13X with optimal incorporation of carbon nanotubes. International Journal of Energy and Environmental Engineering, 2017, 8, 219-230.	2.5	11
95	Effect of Radiation Heat Transfer on Naturally Driven Flow Through Parallel-Plate Vertical Channel. Arabian Journal for Science and Engineering, 2017, 42, 1817-1829.	3.0	2
96	Numerical investigation of liquid methanol evaporation and oxy-combustion inside a button-cell ITM reactor. Applied Thermal Engineering, 2017, 112, 378-391.	6.0	6
97	Storage stability and high-temperature performance of asphalt binder modified with recycled plastic. Road Materials and Pavement Design, 2017, 18, 1117-1134.	4.0	54
98	Simulation of CO <sub align="right">2 adsorption-separation from an N<sub align="right">2/CO<sub align="right">2 gas mixture in a fixed Mg-MOF-74 column. International Journal of Global Warming, 2017, 11, 125.</sub </sub></sub>	0.5	2
99	Investigation of performance of fire-tube boilers integrated with ion transport membrane for oxy-fuel combustion. International Journal of Energy Research, 2016, 40, 1673-1687.	4.5	5
100	Characteristics of H 2 -enriched CH 4 O 2 diffusion flames in a swirl-stabilized gas turbine combustor: Experimental and numerical study. International Journal of Hydrogen Energy, 2016, 41, 20418-20432.	7.1	41
101	Review on Premixed Combustion Technology: Stability, Emission Control, Applications, and Numerical Case Study. Energy & Fuels, 2016, 30, 9981-10014.	5.1	64
102	Effects of oxidizer flexibility and bluff-body blockage ratio on flammability limits of diffusion flames. Applied Energy, 2016, 178, 19-28.	10.1	34
103	Numerical study of hydrogen-enriched methane-air combustion under ultra-lean conditions. International Journal of Energy Research, 2016, 40, 743-762.	4.5	21
104	Flame macrostructures, combustion instability and extinction strain scaling in swirl-stabilized premixed CH4/H2 combustion. Combustion and Flame, 2016, 163, 494-507.	5.2	155
105	Experimental investigation of partially premixed methane–air and methane–oxygen flames stabilized over a perforated-plate burner. Applied Energy, 2016, 169, 126-137.	10.1	59
106	Computational Fluid Dynamics (CFD) Investigation of the Oxy-combustion Characteristics of Diesel Oil, Kerosene, and Heavy Oil Liquid Fuels in a Model Furnace. Energy & Fuels, 2016, 30, 2458-2473.	5.1	4
107	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
108	Numerical investigation of syngas oxy-combustion inside a LSCF-6428 oxygen transport membrane reactor. Energy, 2016, 96, 654-665.	8.8	32

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109	Investigation of a turbulent premixed combustion flame in a backward-facing step combustor; effect of equivalence ratio. Energy, 2016, 95, 211-222.	8.8	35
110	Carbon capture by physical adsorption: Materials, experimental investigations and numerical modeling and simulations – A review. Applied Energy, 2016, 161, 225-255.	10.1	498
111	Effect of microstructure and thickness on oxygen permeation of La2NiO4+δ membranes. Ceramics International, 2016, 42, 666-672.	4.8	12
112	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
113	Experimental and numerical analysis of oxy-fuel combustion in a porous plate reactor. International Journal of Energy Research, 2015, 39, 1229-1240.	4.5	16
114	Experimental analysis of oxygen-methane combustion inside a gas turbine reactor under various operating conditions. Energy, 2015, 86, 105-114.	8.8	38
115	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
116	Solid Particle Erosion Downstream of an Orifice. Journal of Fluids Engineering, Transactions of the ASME, 2015, 137, .	1.5	18
117	Correspondence Between "Stable―Flame Macrostructure and Thermo-acoustic Instability in Premixed Swirl-Stabilized Turbulent Combustion. Journal of Engineering for Gas Turbines and Power, 2015, 137, .	1.1	32
118	Evaluation of the Accuracy of Selected Syngas Chemical Mechanisms. Journal of Energy Resources Technology, Transactions of the ASME, 2015, 137, .	2.3	14
119	Development and assessment of integrating parabolic trough collectors with steam generation side of gas turbine cogeneration systems in Saudi Arabia. Applied Energy, 2015, 141, 131-142.	10.1	31
120	A New Study for Hybrid PV/Wind off-Grid Power Generation Systems with the Comparison of Results from Homer. International Journal of Green Energy, 2015, 12, 526-542.	3.8	37
121	Heat Transfer Characteristics in a Double-Pipe Heat Exchanger Equipped with Coiled Circular Wires. Experimental Heat Transfer, 2015, 28, 531-545.	3.2	36
122	Computational fluid dynamics study of hydrogen generation by low temperature methane reforming in a membrane reactor. International Journal of Hydrogen Energy, 2015, 40, 3158-3169.	7.1	47
123	Experimental Study on the Effect of Hydrogen Enrichment of Methane on the Stability and Emission of Nonpremixed Swirl Stabilized Combustor. Journal of Energy Resources Technology, Transactions of the ASME, 2015, 137, .	2.3	18
124	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
125	On the Modeling of Steam Methane Reforming. Journal of Energy Resources Technology, Transactions of the ASME, 2015, 137, .	2.3	35
126	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

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127	Experimental and Numerical Investigation of La2NiO4 Membranes for Oxygen Separation: Geometry Optimization and Model Validation. Journal of Energy Resources Technology, Transactions of the ASME, 2015, 137, .	2.3	11
128	Study of Combustion Characteristics of Ethanol at Different Dilution With the Carrier Gas. Journal of Energy Resources Technology, Transactions of the ASME, 2015, 137, .	2.3	6
129	Experimental and numerical study of oxygen separation and oxy-combustion characteristics inside a button-cell LNO-ITM reactor. Energy, 2015, 84, 600-611.	8.8	31
130	Design of an ion transport membrane reactor for application in fire tube boilers. Energy, 2015, 81, 787-801.	8.8	35
131	Heat transfer characteristics and pressure drop of the concentric tube equipped with coiled wires for pulsating turbulent flow. Experimental Thermal and Fluid Science, 2015, 65, 41-51.	2.7	37
132	Performance Comparative Analysis of Three Different CSP Technologies Integrated with Gas Turbine Cogeneration Systems in Saudi Arabia. Energy Procedia, 2015, 75, 527-532.	1.8	4
133	Reducing the flow mal-distribution in a heat exchanger. Computers and Fluids, 2015, 107, 1-10.	2.5	30
134	Numerical predictions of flow boiling characteristics: Current status, model setup and CFD modeling for different non-uniform heatingÂprofiles. Applied Thermal Engineering, 2015, 75, 451-460.	6.0	31
135	Experienced EFL teachers' professional practical knowledge, reasoning and classroom decision making in Egypt: views from the inside out. Teacher Development, 2014, 18, 229-245.	0.7	2
136	Boilers Optimal Control for Maximum Load Change Rate. Journal of Energy Resources Technology, Transactions of the ASME, 2014, 136, .	2.3	10
137	Experimental Investigation of the Flow Maldistribution Inside an Air-Cooled Heat Exchanger. Arabian Journal for Science and Engineering, 2014, 39, 8187-8198.	1.1	2
138	Numerical investigation of combustion characteristics in an oxygen transport reactor. International Journal of Energy Research, 2014, 38, 638-651.	4.5	11
139	Characteristics of Oxyfuel and Air–Fuel Combustion in an Industrial Water Tube Boiler. Heat Transfer Engineering, 2014, 35, 1394-1404.	1.9	11
140	Characteristics of Natural Convection Heat Transfer in an Array of Discrete Heat Sources. Experimental Heat Transfer, 2014, 27, 91-111.	3.2	15
141	Evaluation of gas radiation models in CFD modeling of oxy-combustion. Energy Conversion and Management, 2014, 81, 83-97.	9.2	49
142	Numerical investigations of combustion and emissions of syngas as compared to methane in a 200MW package boiler. Energy Conversion and Management, 2014, 83, 296-305.	9.2	22
143	Design of an ion transport membrane reactor for gas turbine combustion application. Journal of Membrane Science, 2014, 450, 60-71.	8.2	30
144	CFD (computational fluid dynamics) analysis of a novel reactor design using ion transport membranes for oxy-fuel combustion. Energy, 2014, 77, 932-944.	8.8	29

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145	Techno-economic performance analysis of parabolic trough collector in Dhahran, Saudi Arabia. Energy Conversion and Management, 2014, 86, 622-633.	9.2	89
146	Evaluating the Effect of Hardness on Erosion Characteristics of Aluminum and Steels. Journal of Materials Engineering and Performance, 2014, 23, 2274-2282.	2.5	23
147	Current status of CHF predictions using CFD modeling technique and review of other techniques especially for non-uniform axial and circumferential heating profiles. Annals of Nuclear Energy, 2014, 70, 188-207.	1.8	15
148	Study of Combustion Characteristics of Ethanol at Different Dilution With the Carrier Gas. , 2014, , .		0
149	Modeling of ion transport reactor for oxy-fuel combustion. International Journal of Energy Research, 2013, 37, 1265-1279.	4.5	15
150	RBF neural network inferential sensor for process emission monitoring. Control Engineering Practice, 2013, 21, 962-970.	5.5	72
151	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
152	Control of the Boiler Swing Rate for NO Emission Minimization. Energy & amp; Fuels, 2013, 27, 6079-6086.	5.1	5
153	Numerical investigation of oxygen permeation and methane oxy-combustion in a stagnation flow ion transport membrane reactor. Energy, 2013, 54, 322-332.	8.8	21
154	Modeling of a combined ion transport and porous membrane reactor for oxy-combustion. Journal of Membrane Science, 2013, 446, 230-243.	8.2	32
155	Strain Influence on the Oxygen Electrocatalysis of the (100)-Oriented Epitaxial La ₂ NiO _{4+Î} Thin Films at Elevated Temperatures. Journal of Physical Chemistry C, 2013, 117, 18789-18795.	3.1	48
156	Oxygen Permeation from Oxygen Ion-Conducting Membranes Coated with Porous Metals or Mixed Ionic and Electronic Conducting Oxides. Journal of the Electrochemical Society, 2013, 160, E148-E153.	2.9	22
157	Modeling of oxygen permeation through a LSCF ion transport membrane. Computers and Fluids, 2013, 76, 1-10.	2.5	23
158	Investigations of oxy-fuel combustion and oxygen permeation in an ITM reactor using a two-step oxy-combustion reaction kinetics model. Journal of Membrane Science, 2013, 432, 1-12.	8.2	33
159	Recent Development in Oxy-Combustion Technology and Its Applications to Gas Turbine Combustors and ITM Reactors. Energy & amp; Fuels, 2013, 27, 2-19.	5.1	89
160	Influence of Boiler Load Swing Rates on Response of Drum Water Level. Journal of Energy Resources Technology, Transactions of the ASME, 2013, 135, .	2.3	5
161	Investigations of an Ion Transport Membrane Reactor Specially Designed for a Power Cycle. Applied Mechanics and Materials, 2013, 302, 440-446.	0.2	7
162	Application of the Critical Heat Flux Look-Up Table to Large Diameter Tubes. Science and Technology of Nuclear Installations, 2013, 2013, 1-10.	0.8	6

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163	Investigations of Oxy-Fuel Combustion Characteristics and Oxygen Permeation Process in a Stagnation Flow ITM Reactor. Applied Mechanics and Materials, 2013, 302, 35-41.	0.2	0
164	Softsensor for estimation of steam quality in riser tubes of boilers. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2013, 227, 2337-2347.	2.1	4
165	Enhancing Oxygen Permeation of Electronically Short-Circuited Oxygen-Ion Conductors by Decorating with Mixed Ionic-Electronic Conducting Oxides. ECS Electrochemistry Letters, 2013, 2, F77-F81.	1.9	23
166	Use of Nanofluids for Improved Natural Cooling of Discretely Heated Cavities. Advances in Mechanical Engineering, 2013, 5, 383267.	1.6	8
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