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List of Publications by Year
in descending order

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53 papers	2,020 citations	279487 23 h-index	243296 44 g-index
56 all docs	56 docs citations	56 times ranked	1815 citing authors

#	Article	IF	Citations
1	Materials challenges in hydrogen-fuelled gas turbines. International Materials Reviews, 2022, 67, 461-486.	9.4	26
2	Industry-scale production of a perovskite oxide as oxygen carrier material in chemical looping. Chemical Engineering Journal, 2022, 431, 134006.	6.6	3
3	Heterogeneous reaction kinetics of a perovskite oxygen carrier for chemical looping combustion coupled with oxygen uncoupling. Chemical Engineering Journal, 2021, 417, 128054.	6.6	18
4	Increasing the thermal expansion of proton conducting Y-doped BaZrO3 by Sr and Ce substitution. Solid State Ionics, 2021, 359, 115534.	1.3	10
5	Fast redox kinetics of a perovskite oxygen carrier measured using micro-fluidized bed thermogravimetric analysis. Proceedings of the Combustion Institute, 2021, 38, 5259-5269.	2.4	19
6	3kW circulating fluidized bed chemical looping reactor - A thermochemical and chemomechanical investigation on the performance of Cu- impregnated Al2O3 as an oxygen carrier material. International Journal of Greenhouse Gas Control, 2021, 109, 103384.	2.3	7
7	Perovskite oxygen carrier with chemical memory under reversible chemical looping conditions with and without SO2 during reduction. Chemical Engineering Journal, 2021, 424, 130417.	6.6	10
8	Fabrication process parameters significantly affect the perovskite oxygen carriers materials (OCM) performance in chemical looping with oxygen uncoupling (CLOU). Journal of Thermal Analysis and Calorimetry, 2020, 140, 577-589.	2.0	11
9	Structure, electrical conductivity and oxygen transport properties of perovskite-type oxides CaMn1â^'xâ^'yTixFeyO3â^'Î´. Physical Chemistry Chemical Physics, 2019, 21, 21824-21835.	1.3	11
10	Integration of chemical looping oxygen production and chemical looping combustion in integrated gasification combined cycles. Fuel, 2018, 220, 725-743.	3.4	24
11	Fe2O3â€“Al2O3 oxygen carrier materials for chemical looping combustion, a redox thermodynamic and thermogravimetric evaluation in the presence of H2S. Journal of Thermal Analysis and Calorimetry, 2018, 134, 1739-1748.	2.0	8
12	Economic assessment of chemical looping oxygen production and chemical looping combustion in integrated gasification combined cycles. International Journal of Greenhouse Gas Control, 2018, 78, 354-363.	2.3	16
13	Asymmetric tubular CaTi0.6Fe0.15Mn0.25O3- membranes: Membrane architecture and long-term stability. Journal of Membrane Science, 2018, 548, 372-379.	4.1	22
14	Microstructural Stability of Tailored CaMn_{0.875â^'x}Fe_xTi_{0.125}O_{3â^'Î´} Perovskite Oxygen Carrier Materials for Chemical Looping Combustion. Energy Technology, 2017, 5, 1579-1587.	1.8	12
15	Layered microstructures based on BaZr0.85Y0.15O3â^'Î´ by pulsed laser deposition for metal-supported proton ceramic electrolyser cells. Journal of Materials Science, 2017, 52, 6486-6497.	1.7	17
16	The EU-FP7 Project SUCCESS â€“ Scale-up of Oxygen Carrier for Chemical Looping Combustion using Environmentally Sustainable Materials. Energy Procedia, 2017, 114, 395-406.	1.8	21
17	Simplified Model Description of a CLOP Reactor for System Simulation and Analysis. Energy Procedia, 2017, 114, 429-435.	1.8	1
18	COMPOSITE: A Concept for High Efficiency Power Production with Integrated CO2 Capture from Solid Fuels. Energy Procedia, 2017, 114, 539-550.	1.8	3

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19	Negative CO2 Emissions with Chemical-Looping Combustion of Biomass â€“ A Nordic Energy Research Flagship Project. Energy Procedia, 2017, 114, 6074-6082.	1.8	39
20	Manufacturing of Perovskite Oxygen Carriers by Spray Granulation for Chemical Looping Combustion. Energy Technology, 2017, 5, 2119-2127.	1.8	3
21	Lifetime Issues for Solid Oxide Fuel Cell Interconnects. , 2017, , 121-144.		6
22	Performance of Perovskiteâ€Type Oxides as Oxygenâ€Carrier Materials for Chemical Looping Combustion in the Presence of H₂S. Energy Technology, 2016, 4, 1305-1316.	1.8	23
23	Enhanced O 2 Flux of CaTi 0.85 Fe 0.15 O 3â^Î´ Based Membranes by Mn Doping. Journal of the American Ceramic Society, 2016, 99, 1071-1078.	1.9	7
24	Regenerative Copperâ€“Alumina H₂S Sorbent for Hot Gas Cleaning through Chemical Swing Adsorption. Industrial & Engineering Chemistry Research, 2016, 55, 1024-1032.	1.8	11
25	Oxygen permeation and creep behavior of Ca1â^'Sr Ti0.6Fe0.15Mn0.25O3â^' (x=0, 0.5) membrane materials. Journal of Membrane Science, 2016, 499, 172-178.	4.1	13
26	Hydrogen permeability of SrCe0.7Zr0.25Ln0.05O3â^' membranes (Ln=Tm and Yb). Journal of Membrane Science, 2015, 473, 327-332.	4.1	28
27	Doping strategies for increased oxygen permeability of CaTiO3 based membranes. Journal of Membrane Science, 2015, 482, 137-143.	4.1	22
28	Evaluation of a Mixed Feâ€“Mn Oxide System for Chemical Looping Combustion. Energy & Fuels, 2015, 29, 3438-3445.	2.5	52
29	Feâ€“Mn based minerals with remarkable redox characteristics for chemical looping combustion. Fuel, 2015, 159, 169-178.	3.4	39
30	Ca_{0.9}Mn_{0.5}Ti_{0.5}O_{3â^Î´}: A Suitable Oxygen Carrier Material for Fixed-Bed Chemical Looping Combustion under Syngas Conditions. Industrial & Engineering Chemistry Research, 2014, 53, 10549-10556.	1.8	31
31	Oxygen non-stoichiometry and redox thermodynamics of LaMn1â^'xCoxO3â^'Î´. Solid State Ionics, 2013, 231, 49-57.	1.3	20
32	Critical Issues of Metal-Supported Fuel Cell. Green Energy and Technology, 2013, , 71-93.	0.4	10
33	Investigation of La1â^'xSrxCrO3â^'â^, (x ~ 0.1) as Membrane for Hydrogen Production. Membranes, 2012, 2, 665-686.	1.4	23
34	Fabrication, sealing and high pressure testing of tubular La2NiO4+Î´ membranes for air separation. Energy Procedia, 2012, 23, 187-196.	1.8	10
35	Development and testing of membrane materials and modules for high temperature air separation. Energy Procedia, 2011, 4, 1243-1251.	1.8	7
36	Redox energetics of perovskite-related La(B1â^'xBâ€²x)O3â^'Î´ oxides where Bâ€² is FeCo, MnCo, MnNi and CoCu. Solid State Ionics, 2011, 182, 19-23.	1.3	8

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37	On the development of novel reactor concepts for chemical looping combustion. Energy Procedia, 2009, 1, 1513-1519.	1.8	54
38	Use of CaMn_{0.875}Ti_{0.125}O₃as Oxygen Carrier in Chemical-Looping with Oxygen Uncoupling. Energy & Fuels, 2009, 23, 5276-5283.	2.5	151
39	Oxygen and Hydrogen Separation Membranes Based on Dense Ceramic Conductors. Membrane Science and Technology, 2008, , 401-458.	0.5	29
40	Dense ceramic membranes based on ion conducting oxides. Annales De Chimie: Science Des Materiaux, 2007, 32, 197-212.	0.2	25
41	La0.8Sr0.2Co0.2Fe0.8O3â€“Î´ as a potential oxygen carrier in a chemical looping type reactor, an in-situ powder X-ray diffraction study. Journal of Materials Chemistry, 2005, 15, 1931.	6.7	87
42	Development of a hydrogen membrane reformer based CO2 emission free gas fired power plant. , 2005, , 83-91.		9
43	Hydrogen in oxides. Dalton Transactions, 2004, , 3012-3018.	1.6	342
44	HT Corrosion of a Cr-5 wt % Fe-1 wt % Y[sub 2]O[sub 3] Alloy and Conductivity of the Oxide Scale. Journal of the Electrochemical Society, 2003, 150, B374.	1.3	33
45	XPS surface analyses of LaPO4ceramics prepared by precipitation with or without excess of PO43â¯. Surface and Interface Analysis, 2002, 34, 306-310.	0.8	37
46	Proton and apparent hydride ion conduction in Al-substituted SrTiO3. Solid State Ionics, 2002, 154-155, 669-677.	1.3	31
47	Hydrogen ion conduction in iron-substituted strontium titanate, SrTi1â¯xFexO3â¯x/2 (0â‰¤xâ‰¤0.8). Solid State Ionics, 2001, 143, 103-116.	1.3	65
48	Mixed hydrogen ionâ€“electronic conductors for hydrogen permeable membranes. Solid State Ionics, 2000, 136-137, 139-148.	1.3	125
49	Spinel and Perovskite Functional Layers Between Plansee Metallic Interconnect (Cr-5 wt % Fe-1 wt %) Tj ETQq1 1 0.784314 rgBT /Ove Solid Oxide Fuel Cells. Journal of the Electrochemical Society, 2000, 147, 3251.	1.3	172
50	Concentration and transport of protons in oxides. Current Opinion in Solid State and Materials Science, 1997, 2, 593-599.	5.6	156
51	The equilibrium between water vapour, protons, and oxygen vacancies in rare earth oxides. Solid State Ionics, 1997, 97, 523-528.	1.3	48
52	Protons in LaErO3. Solid State Ionics, 1994, 70-71, 305-310.	1.3	42
53	Protonic conductivity in Ca-doped yttria. Solid State Ionics, 1991, 49, 73-77.	1.3	21