

Yngve Larring

List of Publications by Year in descending order

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56
all docs

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docs citations

56
times ranked

1815
citing authors

#	ARTICLE	IF	CITATIONS
1	Hydrogen in oxides. Dalton Transactions, 2004, , 3012-3018.	1.6	342
2	Spinel and Perovskite Functional Layers Between Plansee Metallic Interconnect (Cr-5 wt % Fe-1 wt %) Tj ETQq0 0 0 rgBT /Overlock 10 TF Solid Oxide Fuel Cells. Journal of the Electrochemical Society, 2000, 147, 3251.	1.3	172
3	Concentration and transport of protons in oxides. Current Opinion in Solid State and Materials Science, 1997, 2, 593-599.	5.6	156
4	Use of $\text{CaMn}_{0.875}\text{Ti}_{0.125}\text{O}_3$ as Oxygen Carrier in Chemical-Looping with Oxygen Uncoupling. Energy & Fuels, 2009, 23, 5276-5283.	2.5	151
5	Mixed hydrogen ion&electronic conductors for hydrogen permeable membranes. Solid State Ionics, 2000, 136-137, 139-148.	1.3	125
6	$\text{La}_{0.8}\text{Sr}_{0.2}\text{Co}_{0.2}\text{Fe}_{0.8}\text{O}_3$ 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
7	Hydrogen ion conduction in iron-substituted strontium titanate, $\text{SrTi}_{1-x}\text{Fe}_x\text{O}_3$ ($0 \leq x \leq 0.8$). Solid State Ionics, 2001, 143, 103-116.	1.3	65
8	On the development of novel reactor concepts for chemical looping combustion. Energy Procedia, 2009, 1, 1513-1519.	1.8	54
9	Evaluation of a Mixed Fe&Mn Oxide System for Chemical Looping Combustion. Energy & Fuels, 2015, 29, 3438-3445.	2.5	52
10	The equilibrium between water vapour, protons, and oxygen vacancies in rare earth oxides. Solid State Ionics, 1997, 97, 523-528.	1.3	48
11	Protons in LaErO_3 . Solid State Ionics, 1994, 70-71, 305-310.	1.3	42
12	Fe&Mn based minerals with remarkable redox characteristics for chemical looping combustion. Fuel, 2015, 159, 169-178.	3.4	39
13	Negative CO ₂ Emissions with Chemical-Looping Combustion of Biomass & A Nordic Energy Research Flagship Project. Energy Procedia, 2017, 114, 6074-6082.	1.8	39
14	XPS surface analyses of LaPO_4 ceramics prepared by precipitation with or without excess of PO_4^{3-} . Surface and Interface Analysis, 2002, 34, 306-310.	0.8	37
15	HT Corrosion of a Cr-5 wt % Fe-1 wt % Y_{2}O_3 Alloy and Conductivity of the Oxide Scale. Journal of the Electrochemical Society, 2003, 150, B374.	1.3	33
16	Proton and apparent hydride ion conduction in Al-substituted SrTiO_3 . Solid State Ionics, 2002, 154-155, 669-677.	1.3	31
17	$\text{Ca}_{0.9}\text{Mn}_{0.5}\text{Ti}_{0.5}\text{O}_3$: 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
18	Oxygen and Hydrogen Separation Membranes Based on Dense Ceramic Conductors. Membrane Science and Technology, 2008, , 401-458.	0.5	29

#	ARTICLE	IF	CITATIONS
19	Hydrogen permeability of SrCe _{0.7} Zr _{0.25} Ln _{0.05} O _{3-δ} membranes (Ln=Tm and Yb). Journal of Membrane Science, 2015, 473, 327-332.	4.1	28
20	Materials challenges in hydrogen-fuelled gas turbines. International Materials Reviews, 2022, 67, 461-486.	9.4	26
21	Dense ceramic membranes based on ion conducting oxides. Annales De Chimie: Science Des Materiaux, 2007, 32, 197-212.	0.2	25
22	Integration of chemical looping oxygen production and chemical looping combustion in integrated gasification combined cycles. Fuel, 2018, 220, 725-743.	3.4	24
23	Investigation of La _{1-x} Sr _x CrO _{3-δ} (x ~ 0.1) as Membrane for Hydrogen Production. Membranes, 2012, 2, 665-686.	1.4	23
24	Performance of Perovskite-Type Oxides as Oxygen-Carrier Materials for Chemical Looping Combustion in the Presence of H ₂ S. Energy Technology, 2016, 4, 1305-1316.	1.8	23
25	Doping strategies for increased oxygen permeability of CaTiO ₃ based membranes. Journal of Membrane Science, 2015, 482, 137-143.	4.1	22
26	Asymmetric tubular CaTi _{0.6} Fe _{0.15} Mn _{0.25} O _{3-δ} membranes: Membrane architecture and long-term stability. Journal of Membrane Science, 2018, 548, 372-379.	4.1	22
27	Protonic conductivity in Ca-doped yttria. Solid State Ionics, 1991, 49, 73-77.	1.3	21
28	The EU-FP7 Project SUCCESS – Scale-up of Oxygen Carrier for Chemical Looping Combustion using Environmentally Sustainable Materials. Energy Procedia, 2017, 114, 395-406.	1.8	21
29	Oxygen non-stoichiometry and redox thermodynamics of LaMn _{1-x} CoxO _{3-δ} . Solid State Ionics, 2013, 231, 49-57.	1.3	20
30	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
31	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
32	Layered microstructures based on BaZr _{0.85} Y _{0.15} O _{3-δ} by pulsed laser deposition for metal-supported proton ceramic electrolyser cells. Journal of Materials Science, 2017, 52, 6486-6497.	1.7	17
33	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
34	Oxygen permeation and creep behavior of Ca _{1-x} Sr _x Ti _{0.6} Fe _{0.15} Mn _{0.25} O _{3-δ} (x=0, 0.5) membrane materials. Journal of Membrane Science, 2016, 499, 172-178.	4.1	13
35	Microstructural Stability of Tailored CaMn _{0.875-x} Fe _x Ti _{0.125} O _{3-δ} Perovskite Oxygen Carrier Materials for Chemical Looping Combustion. Energy Technology, 2017, 5, 1579-1587.	1.8	12
36	Regenerative Copper-Alumina H ₂ S Sorbent for Hot Gas Cleaning through Chemical Swing Adsorption. Industrial & Engineering Chemistry Research, 2016, 55, 1024-1032.	1.8	11

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37	Structure, electrical conductivity and oxygen transport properties of perovskite-type oxides $\text{CaMn}_{1-x}\text{Ti}_x\text{Fe}_y\text{O}_3$. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 21824-21835.	1.3	11
38	Fabrication process parameters significantly affect the perovskite oxygen carriers materials (OCM) performance in chemical looping with oxygen uncoupling (CLOU). <i>Journal of Thermal Analysis and Calorimetry</i> , 2020, 140, 577-589.	2.0	11
39	Fabrication, sealing and high pressure testing of tubular La_2NiO_4 membranes for air separation. <i>Energy Procedia</i> , 2012, 23, 187-196.	1.8	10
40	Critical Issues of Metal-Supported Fuel Cell. <i>Green Energy and Technology</i> , 2013, , 71-93.	0.4	10
41	Increasing the thermal expansion of proton conducting Y-doped BaZrO_3 by Sr and Ce substitution. <i>Solid State Ionics</i> , 2021, 359, 115534.	1.3	10
42	Perovskite oxygen carrier with chemical memory under reversible chemical looping conditions with and without SO_2 during reduction. <i>Chemical Engineering Journal</i> , 2021, 424, 130417.	6.6	10
43	Development of a hydrogen membrane reformer based CO_2 emission free gas fired power plant. , 2005, , 83-91.		9
44	Redox energetics of perovskite-related $\text{La}(\text{B}_{1-x}\text{B}^{\prime}_x)\text{O}_3$ oxides where B^{\prime} is FeCo, MnCo, MnNi and CoCu. <i>Solid State Ionics</i> , 2011, 182, 19-23.	1.3	8
45	$\text{Fe}_2\text{O}_3\text{-Al}_2\text{O}_3$ oxygen carrier materials for chemical looping combustion, a redox thermodynamic and thermogravimetric evaluation in the presence of H_2S . <i>Journal of Thermal Analysis and Calorimetry</i> , 2018, 134, 1739-1748.	2.0	8
46	Development and testing of membrane materials and modules for high temperature air separation. <i>Energy Procedia</i> , 2011, 4, 1243-1251.	1.8	7
47	Enhanced O_2 Flux of $\text{CaTi}_{0.85}\text{Fe}_{0.15}\text{O}_{3-\delta}$ Based Membranes by Mn Doping. <i>Journal of the American Ceramic Society</i> , 2016, 99, 1071-1078.	1.9	7
48	3kW circulating fluidized bed chemical looping reactor - A thermochemical and chemomechanical investigation on the performance of Cu- impregnated Al_2O_3 as an oxygen carrier material. <i>International Journal of Greenhouse Gas Control</i> , 2021, 109, 103384.	2.3	7
49	Lifetime Issues for Solid Oxide Fuel Cell Interconnects. , 2017, , 121-144.		6
50	COMPOSITE: A Concept for High Efficiency Power Production with Integrated CO_2 Capture from Solid Fuels. <i>Energy Procedia</i> , 2017, 114, 539-550.	1.8	3
51	Manufacturing of Perovskite Oxygen Carriers by Spray Granulation for Chemical Looping Combustion. <i>Energy Technology</i> , 2017, 5, 2119-2127.	1.8	3
52	Industry-scale production of a perovskite oxide as oxygen carrier material in chemical looping. <i>Chemical Engineering Journal</i> , 2022, 431, 134006.	6.6	3
53	Simplified Model Description of a CLOP Reactor for System Simulation and Analysis. <i>Energy Procedia</i> , 2017, 114, 429-435.	1.8	1