

Kent Kammer Hansen

List of Publications by Citations

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116
papers

1,768
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h-index

36
g-index

129
ext. papers

1,907
ext. citations

3.8
avg, IF

5.2
L-index

#	Paper	IF	Citations
116	Conversion of Hydrocarbons in Solid Oxide Fuel Cells. <i>Annual Review of Materials Research</i> , 2003 , 33, 321-331	12.8	162
115	Defect and electrical transport properties of Nb-doped SrTiO ₃ . <i>Solid State Ionics</i> , 2008 , 179, 2047-2058	3.3	128
114	A-site deficient (La _{0.6} Sr _{0.4}) _{1-x} Fe _{0.8} Co _{0.2} O _{3-δ} perovskites as SOFC cathodes. <i>Solid State Ionics</i> , 2007 , 178, 1379-1384	3.3	82
113	Electrochemical characterization and redox behavior of Nb-doped SrTiO ₃ . <i>Solid State Ionics</i> , 2009 , 180, 63-70	3.3	73
112	Electrochemical DeNO _x in solid electrolyte cells – an overview. <i>Applied Catalysis B: Environmental</i> , 2005 , 58, 33-39	21.8	58
111	Mechanochemical Synthesis of Fe ₃ Materials. <i>Journal of Solid State Chemistry</i> , 1998 , 138, 114-125	3.3	54
110	Hybrid direct carbon fuel cells and their reaction mechanisms – a review. <i>Journal of Solid State Electrochemistry</i> , 2014 , 18, 861-882	2.6	52
109	A study of Pr _{0.7} Sr _{0.3} Fe _{1-x} Ni _x O _{3-δ} as a cathode material for SOFCs with intermediate operating temperature. <i>Solid State Ionics</i> , 2005 , 176, 1013-1020	3.3	49
108	Studies of Fe _{1-x} Co _x based perovskite cathodes with different A-site cations. <i>Solid State Ionics</i> , 2006 , 177, 1047-1051	3.3	45
107	Perovskites as Cathodes for Nitric Oxide Reduction. <i>Journal of the Electrochemical Society</i> , 2000 , 147, 2007	3.9	40
106	Effects of Sr/Ti-ratio in SrTiO ₃ -based SOFC anodes investigated by the use of cone-shaped electrodes. <i>Electrochimica Acta</i> , 2006 , 52, 1651-1661	6.7	38
105	Solid state electrochemical DeNO _x – an overview. <i>Applied Catalysis B: Environmental</i> , 2010 , 100, 427-432	21.8	34
104	Electrochemical removal of NO _x with porous cell stacks. <i>Materials Research Bulletin</i> , 2010 , 45, 1554-1561	5.1	28
103	Enhancing Hybrid Direct Carbon Fuel Cell anode performance using Ag ₂ O. <i>Electrochimica Acta</i> , 2015 , 152, 222-239	6.7	27
102	Enhancement of NO _x removal performance for (La _{0.85} Sr _{0.15}) _{0.99} MnO ₃ /Ce _{0.9} Gd _{0.1} O _{1.95} electrochemical cells by NO _x storage/reduction adsorption layers. <i>Electrochimica Acta</i> , 2013 , 90, 482-491	6.7	27
101	Characterization of (La _{1-x} Sr _x) _s MnO ₃ and Doped Ceria Composite Electrodes in NO _x -Containing Atmosphere with Impedance Spectroscopy. <i>Journal of the Electrochemical Society</i> , 2010 , 157, P35	3.9	27
100	Synthesis of Nb-doped SrTiO ₃ by a modified glycine-nitrate process. <i>Journal of the European Ceramic Society</i> , 2007 , 27, 3609-3612	6	26

99	The Effect of a CGO Barrier Layer on the Performance of LSM/YSZ SOFC Cathodes. <i>Journal of the Electrochemical Society</i> , 2010 , 157, B309	3.9	24
98	Strontium Titanate-based Composite Anodes for Solid Oxide Fuel Cells. <i>ECS Transactions</i> , 2008 , 13, 181-194		24
97	Temperature dependence of the cation distribution in measured with high temperature neutron diffraction. <i>Journal of Solid State Chemistry</i> , 2008 , 181, 2364-2369	3.3	24
96	Perovskites as Catalysts for the Selective Catalytic Reduction of Nitric Oxide with Propene: Relationship between Solid State Properties and Catalytic Activity. <i>Journal of Catalysis</i> , 2001 , 199, 132-140	7.3	24
95	A-Site Deficient (Pr _{0.6} Sr _{0.4}) _{1-x} Fe _{0.8} Co _{0.2} O ₃ Perovskites as Solid Oxide Fuel Cell Cathodes. <i>Journal of the Electrochemical Society</i> , 2009 , 156, B1257	3.9	23
94	Electrochemical reduction of NO and O ₂ on Cu/CuO. <i>Journal of Applied Electrochemistry</i> , 2000 , 30, 193-200		23
93	NO _x selective catalytic reduction (SCR) on self-supported V ₂ O ₅ -doped TiO ₂ nanofibers. <i>New Journal of Chemistry</i> , 2017 , 41, 3466-3472	3.6	22
92	Effect of impregnation of La _{0.85} Sr _{0.15} MnO ₃ /yttria stabilized zirconia solid oxide fuel cell cathodes with La _{0.85} Sr _{0.15} MnO ₃ or Al ₂ O ₃ nano-particles. <i>Electrochimica Acta</i> , 2010 , 55, 4606-4609	6.7	22
91	LSFM perovskites as cathodes for the electrochemical reduction of NO. <i>Solid State Ionics</i> , 2005 , 176, 915-920	3.3	22
90	An EIS study of La _{2-x} Sr _x NiO ₄ + λ SOFC cathodes. <i>Ionics</i> , 2009 , 15, 325-328	2.7	20
89	HDCFC Performance as a Function of Anode Atmosphere (N ₂ -CO ₂). <i>Journal of the Electrochemical Society</i> , 2014 , 161, F33-F46	3.9	19
88	Electrical and electro-chemical characterisation of La _{0.99} Fe _{1-x} Ni _x O ₃ perovskites. <i>Journal of Solid State Electrochemistry</i> , 2006 , 10, 934-940	2.6	19
87	NO _x conversion on LSM15-CGO10 cell stacks with BaO impregnation. <i>Journal of Materials Chemistry</i> , 2012 , 22, 11792		17
86	Catalytic Enhancement of Carbon Black and Coal-Fueled Hybrid Direct Carbon Fuel Cells. <i>Journal of the Electrochemical Society</i> , 2015 , 162, F327-F339	3.9	16
85	Processing and characterization of porous electrochemical cells for flue gas purification. <i>Ionics</i> , 2009 , 15, 427-431	2.7	16
84	Electrochemical reduction of NO and O ₂ on oxide based electrodes. <i>Ionics</i> , 2000 , 6, 340-345	2.7	16
83	Spinel as cathodes for the electrochemical reduction of O ₂ and NO. <i>Topics in Catalysis</i> , 2007 , 45, 143-148	4.3	15
82	Conductivity and electrochemical characterization of PrFe _{1-x} Ni _x O ₃ at high temperature. <i>Journal of Alloys and Compounds</i> , 2007 , 428, 256-261	5.7	15

81	Effect of pore formers on properties of tape cast porous sheets for electrochemical flue gas purification. <i>Journal of the European Ceramic Society</i> , 2016 , 36, 645-653	6	13
80	Hybrid direct carbon fuel cell anode processes investigated using a 3-electrode half-cell setup. <i>International Journal of Hydrogen Energy</i> , 2015 , 40, 1945-1958	6.7	13
79	Silver Modified Cathodes for Solid Oxide Fuel Cells. <i>Journal of the Electrochemical Society</i> , 2019 , 166, F79-F88	3.9	12
78	In Situ Studies of Fe ⁴⁺ Stability in $\text{Li}_3\text{Fe}_2(\text{PO}_4)_3$ Cathodes for Li Ion Batteries. <i>Journal of the Electrochemical Society</i> , 2015 , 162, A531-A537	3.9	12
77	Electrochemical NO _x reduction on an LSM/CGO symmetric cell modified by NO _x adsorbents. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 7137	13	12
76	EIS Measurements on $\text{La}_{1-x}\text{Sr}_x\text{Co}_{1-y}\text{Fe}_y\text{O}_{3-\delta}$ Based Composite Electrodes in NO _x Containing Atmosphere. <i>Journal of the Electrochemical Society</i> , 2010 , 157, P107	3.9	12
75	$\text{Gd}_{0.6}\text{Sr}_{0.4}\text{Fe}_{0.8}\text{Co}_{0.2}\text{O}_{3-\delta}$: A Novel Type of SOFC Cathode. <i>Electrochemical and Solid-State Letters</i> , 2007 , 10, B119		12
74	Electrochemical reduction of O ₂ and NO on Ni, Pt and Au. <i>Journal of Applied Electrochemistry</i> , 2008 , 38, 591-595	2.6	12
73	Electrochemical Reduction of Oxygen and Nitric Oxide at Low Temperature on $\text{La}_{1-x}\text{Sr}_x\text{CoO}_3$ Cathodes. <i>Journal of the Electrochemical Society</i> , 2010 , 157, P79	3.9	10
72	$\text{NiCr}_x\text{Fe}_{2-x}\text{O}_4$ as cathode materials for electrochemical reduction of NO _x . <i>Journal of Solid State Electrochemistry</i> , 2010 , 14, 157-166	2.6	10
71	Fabrication of highly porous LSM/CGO cell stacks for electrochemical flue gas purification. <i>Ceramics International</i> , 2013 , 39, 2159-2163	5.1	9
70	Diffuse reflectance infrared Fourier transform study of NO(x) adsorption on CGO10 impregnated with K ₂ O or BaO. <i>Journal of Physical Chemistry A</i> , 2012 , 116, 2497-505	2.8	9
69	Pore former induced porosity in LSM/CGO cathodes for electrochemical cells for flue gas purification. <i>Ceramics International</i> , 2012 , 38, 1751-1754	5.1	9
68	The NiFe_2O_4 - MgFe_2O_4 series as electrode materials for electrochemical reduction of NO _x . <i>Journal of Solid State Electrochemistry</i> , 2009 , 13, 1241-1250	2.6	9
67	High-performance Fe ²⁺ -based SOFC cathodes. <i>Journal of Solid State Electrochemistry</i> , 2010 , 14, 2107-2112		9
66	Influence of BaO in perovskite electrodes for the electrochemical reduction of NO _x . <i>Topics in Catalysis</i> , 2007 , 45, 131-135	2.3	9
65	Highly porous Ce ³⁺ /TiO ₂ free-standing electrospun catalytic membranes for efficient de-NO _x via ammonia selective catalytic reduction. <i>Environmental Science: Nano</i> , 2019 , 6, 94-104	7.1	8
64	Effect of the sol-gel conditions on the morphology and SCR performance of electrospun V-W-TiO ₂ catalysts. <i>Journal of Physics and Chemistry of Solids</i> , 2018 , 118, 255-261	3.9	8

63	Electrochemical testing of composite electrodes of $(La_{1-x}Sr_x)MnO_3$ and doped ceria in NO-containing atmosphere. <i>Journal of Solid State Electrochemistry</i> , 2012 , 16, 703-714	2.6	8
62	Electrochemical reduction of oxygen and nitric oxide at low temperature on $Ce_{1-x}Pr_xO_2$ cathodes. <i>Electrochimica Acta</i> , 2013 , 114, 474-477	6.7	8
61	Electrochemical reduction of oxygen and nitric oxide at low temperature on $La_{1-x}Sr_xMnO_3$ cathodes. <i>Materials Research Bulletin</i> , 2013 , 48, 3274-3277	5.1	8
60	Evaluation of LSF based SOFC cathodes using cone-shaped electrodes and EIS. <i>Solid State Ionics</i> , 2020 , 344, 115096	3.3	8
59	Cathode-supported hybrid direct carbon fuel cells. <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 4311-4319	6.7	7
58	Amorphous saturated cerium-tungsten-titanium oxide nanofiber catalysts for NO _x selective catalytic reaction. <i>New Journal of Chemistry</i> , 2018 , 42, 9501-9509	3.6	7
57	Communication Perovskite Electrochemical System for Highly Selective NO _x Reduction of Diesel Engine Exhaust. <i>Journal of the Electrochemical Society</i> , 2018 , 165, H591-H593	3.9	7
56	High Performance Infiltrated Backbones for Cathode-Supported SOFC's. <i>ECS Transactions</i> , 2014 , 64, 41-51		7
55	Electrochemical Reduction of Oxygen and Nitric Oxide at Low Temperature on $La_{1-x}Sr_xFeO_3$ Cathodes. <i>Electrocatalysis</i> , 2014 , 5, 256-261	2.7	7
54	Optimizing the performance of porous electrochemical cells for flue gas purification using the DOE method. <i>Ceramics International</i> , 2011 , 37, 903-911	5.1	7
53	Characterization of $MgMn_xFe_{2-x}O_4$ as a possible cathode material for electrochemical reduction of NO _x . <i>Journal of Applied Electrochemistry</i> , 2009 , 39, 2369-2374	2.6	7
52	Electrochemical reduction of nitrous oxide on $La_{1-x}Sr_xFeO_3$ perovskites. <i>Materials Research Bulletin</i> , 2010 , 45, 1334-1337	5.1	7
51	Evaluation of LSF based SOFC Cathodes using Cone-shaped Electrodes. <i>ECS Transactions</i> , 2008 , 13, 153-160		7
50	Electrochemical reduction of NO and O ₂ on $La_{2-x}Sr_xCuO_4$ -based electrodes. <i>Journal of Solid State Electrochemistry</i> , 2008 , 12, 1573-1577	2.6	7
49	Optimization of an electrochemical cell with an adsorption layer for NO _x removal. <i>Journal of Solid State Electrochemistry</i> , 2012 , 16, 3331-3340	2.6	6
48	Electrochemical reduction of NO on $La_{2-x}Sr_xNiO_4$ based electrodes. <i>Journal of Solid State Electrochemistry</i> , 2009 , 13, 1529-1534	2.6	6
47	Improvement of LSM15-CGO10 Electrodes for Electrochemical Removal of NO _x by KNO ₃ and MnO _x Impregnation. <i>Journal of the Electrochemical Society</i> , 2011 , 158, P147	3.9	6
46	The effect of A-site deficiency on the performance of $La_{1-x}Fe_{0.4}Ni_{0.6}O_3$ cathodes. <i>Materials Research Bulletin</i> , 2010 , 45, 197-199	5.1	6

45	Electrochemical reduction of NO ₂ studied by the use of cone-shaped electrodes. <i>Electrochemistry Communications</i> , 2007 , 9, 2721-2724	5.1	6
44	Oxidation of Methane and Hydrogen on Ce _{1-x} Gd _x O ₂ Fluorrites. <i>Electrochemical and Solid-State Letters</i> , 2005 , 8, A108		6
43	Charge disproportionation in (X _{0.6} Sr _{0.4}) _{0.99} Fe _{0.8} Co _{0.2} O ₃ Perovskites (X=La, Pr, Sm, Gd). <i>Solid State Ionics</i> , 2005 , 176, 1555-1561	3.3	6
42	Effect of CeO ₂ Addition on Hybrid Direct Carbon Fuel Cell Performance. <i>Journal of the Electrochemical Society</i> , 2017 , 164, F328-F332	3.9	5
41	Electrochemical reduction of NO with propene in the presence of oxygen on LSCoM/CGO porous cell stacks impregnated with BaO. <i>Journal of Solid State Electrochemistry</i> , 2015 , 19, 1611-1620	2.6	5
40	Direct Coal Oxidation in Modified Solid Oxide Fuel Cells. <i>ECS Transactions</i> , 2015 , 68, 2685-2694	1	5
39	Highly selective NO _x reduction for diesel engine exhaust via an electrochemical system. <i>Electrochemistry Communications</i> , 2016 , 72, 36-40	5.1	5
38	Removal of NO _x with Porous Cell Stacks with La _{0.85} Sr _{0.15} Co _x Mn _{1-x} O ₃ +Ce _{0.9} Gd _{0.1} O _{1.95} Electrodes Infiltrated with BaO. <i>Journal of the Electrochemical Society</i> , 2014 , 161, H663-H669	3.9	5
37	NO _x conversion on porous LSM15/CGO10 cell stacks with KNO ₃ or K ₂ O impregnation. <i>Journal of Solid State Electrochemistry</i> , 2012 , 16, 2651-2660	2.6	5
36	Fabrication and Characterization of Multi-Layer Ceramics for Electrochemical Flue Gas Purification. <i>Journal of the Electrochemical Society</i> , 2013 , 160, E113-E119	3.9	5
35	NO _x Reduction on Ag Electrochemical Cells with a K-Pt-Al ₂ O ₃ Adsorption Layer. <i>Journal of the Electrochemical Society</i> , 2013 , 160, H294-H301	3.9	5
34	Characterization of LSM/CGO Symmetric Cells Modified by NO _x Adsorbents for Electrochemical NO _x Removal with Impedance Spectroscopy. <i>Journal of the Electrochemical Society</i> , 2013 , 160, H494-H501	3.9	5
33	Electrochemical Oxidation of Propene by Use of LSM15/CGO10 Electrochemical Reactor. <i>Journal of the Electrochemical Society</i> , 2012 , 159, P57-P64	3.9	5
32	Electrochemical Reactor for Exhaust Gas Purification 1999 ,		5
31	Direct Coal Oxidation in Modified Solid Oxide Fuel Cells. <i>Journal of the Electrochemical Society</i> , 2017 , 164, F333-F337	3.9	4
30	Studies of A-site Deficient (Gd _{0.6} Sr _{0.4}) _{1-x} Fe _{0.8} Co _{0.2} O ₃ Cathodes in SOFCs. <i>Fuel Cells</i> , 2018 , 18, 96-100	2.9	4
29	Catalytic Enhancement of Solid Carbon Oxidation in HDCFCs. <i>ECS Transactions</i> , 2014 , 61, 225-234	1	4
28	Effect of infiltration material on a LSM15/CGO10 electrochemical reactor in the electrochemical oxidation of propene. <i>Journal of Solid State Electrochemistry</i> , 2013 , 17, 895-908	2.6	4

27	A combined SEM, CV and EIS study of multi-layered porous ceramic reactors for flue gas purification. <i>Ceramics International</i> , 2013 , 39, 847-851	5.1	4
26	Effect of CeO ₂ Infiltration on the Hybrid Direct Carbon Fuel Cell Performance. <i>ECS Transactions</i> , 2014 , 61, 255-267	1	4
25	Electrochemical Exhaust Gas Purification 2000 ,		4
24	Facilitating oxygen reduction by silver nanoparticles on lanthanum strontium ferrite cathode. <i>Journal of Solid State Electrochemistry</i> , 2020 , 24, 609-621	2.6	4
23	Effect of cobalt on the activity of dual phase (Gd _{0.6} Sr _{0.4}) _{0.99} Fe _{1-x} Co _x O _{3-δ} SOFC cathodes. <i>Journal of Solid State Electrochemistry</i> , 2019 , 23, 965-970	2.6	3
22	New Hypothesis for SOFC Ceramic Oxygen Electrode Mechanisms. <i>ECS Transactions</i> , 2016 , 72, 93-103	1	3
21	Influence of pore former on porosity and mechanical properties of Ce _{0.9} Gd _{0.1} O _{1.95} electrolytes for flue gas purification. <i>Ceramics International</i> , 2016 , 42, 4546-4555	5.1	3
20	Electrochemical Removal of NO _x Using Oxide-Based Electrodes [A Review]. <i>International Journal of Electrochemical Science</i> , 9273-9280	2.2	3
19	Electrochemical Reduction of Oxygen and Nitric Oxide on Mn-Based Perovskites with Different A-Site Cations. <i>International Journal of Electrochemistry</i> , 2020 , 2020, 1-6	2.4	2
18	Cone-Shaped Gd _{1-x} Sr _x Fe _{0.8} Co _{0.2} O _{3-δ} Electrodes for SOFC Cathodes. <i>International Journal of Electrochemical Science</i> , 2017 , 11540-11545	2.2	2
17	Production of a half cell with a LSM/CGO support for electrochemical flue gas purification. <i>Ceramics International</i> , 2013 , 39, 8649-8655	5.1	2
16	Hybrid Direct Carbon Fuel Cell Performance With Anode Current Collector Material. <i>Journal of Fuel Cell Science and Technology</i> , 2015 , 12,		2
15	A combined SEM and CV study of solid oxide fuel cell interconnect steels. <i>Journal of Solid State Electrochemistry</i> , 2012 , 16, 1399-1404	2.6	2
14	Electrochemical Reduction of Oxygen and Nitric oxide at low Temperature on La _{1-x} Sr _x Cr _{0.97} V _{0.03} O _{3-δ} Cathodes. <i>Journal of the Electrochemical Society</i> , 2013 , 160, F1254-F1257	3.9	2
13	Low temperature reduction of NO and O ₂ on A-site deficient (Pr _{0.6} Sr _{0.4}) _{1-δ} Fe _{0.8} Co _{0.2} O ₃ perovskites. <i>Journal of Materials Science</i> , 2011 , 46, 6457-6460	4.3	2
12	Sintering Effect on Material Properties of Electrochemical Reactors Used for Removal of Nitrogen Oxides and Soot Particles Emitted from Diesel Engines. <i>Fuel Cells</i> , 2010 , 10, 636-642	2.9	2
11	Cr- and Ti-Based Spinel as Materials for Anodic Catalyst Support in PEM Electrolysis Cells: Assessing Corrosion Stability and Support Role in Catalyst Activity of Corrosion Stable Ceramics. <i>ECS Transactions</i> , 2018 , 85, 65-77	1	2
10	Determination of the Resistance of Cone-Shaped Solid Electrodes. <i>Journal of the Electrochemical Society</i> , 2017 , 164, E3035-E3039	3.9	1

9	Effect of Co ₃ O ₄ and Co ₃ O ₄ /CeO ₂ Infiltration on the Catalytic and Electro-catalytic Activity of LSM15/CGO10 Porous Cells Stacks for Oxidation of Propene. <i>Electrochimica Acta</i> , 2015 , 159, 23-28	6.7	1
8	NO _x conversion in La _{0.85} Sr _{0.15} Co _{0.03} Mn _{0.97} O _{3+d} -Ce _{0.9} Gd _{0.1} O _{1.95} porous cell stacks infiltrated with Pt. <i>Journal of Electroceramics</i> , 2019 , 42, 1-8	1.5	1
7	Thermal properties of (Gd _{0.6} Sr _{0.4}) _{0.99} Fe _{1-x} Co _x O _{3-δ} Cathodes for intermediate temperature solid oxide fuel cells. <i>Ceramics International</i> , 2021 , 47, 5407-5414	5.1	1
6	Permeability, strength and electrochemical studies on ceramic multilayers for solid-state electrochemical cells. <i>Heliyon</i> , 2017 , 3, e00371	3.6	0
5	Corrosion Study of Cr-Oxide Ceramics Using Rotating Ring Disk Electrode. <i>Journal of the Electrochemical Society</i> , 2019 , 166, C3159-C3169	3.9	
4	Impedance Spectroscopy and Catalytic Activity Characterization of a La _{0.85} Sr _{0.15} MnO ₃ /Ce _{0.9} Gd _{0.1} O _{1.95} Electrochemical Reactor for the Oxidation of Propene. <i>Electrocatalysis</i> , 2014 , 5, 419-425	2.7	
3	Electrochemical Oxidation of Propene with a LSF15/CGO10 Electrochemical Reactor. <i>Journal of the Electrochemical Society</i> , 2014 , 161, F323-F331	3.9	
2	Electrochemical Removal of NO _x -Gasses by Use of LSM-Cathodes Impregnated with a NO _x Storage Compound. <i>ECS Transactions</i> , 2010 , 28, 193-203	1	
1	Activation/Deactivation Phenomena in the Electrochemical Reduction of O ₂ and NO on La _{1-x} Sr _x FeO ₃ <i>Electrochemistry</i> , 2020 , 88, 146-150	1.2	