Kent Kammer Hansen

List of Publications by Year
in descending order

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127	2,110	236612	288905
papers	citations	25 h-index	40 g-index

129	129	129	1702
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Conversion of Hydrocarbons in Solid Oxide Fuel Cells. Annual Review of Materials Research, 2003, 33, 321-331.	4.3	190
2	Defect and electrical transport properties of Nb-doped SrTiO3. Solid State Ionics, 2008, 179, 2047-2058.	1.3	153
3	A-site deficient (La0.6Sr0.4)1â^'sFe0.8Co0.2O3â^'Î´ perovskites as SOFC cathodes. Solid State Ionics, 2007, 178, 1379-1384.	1.3	96
4	Electrochemical characterization and redox behavior of Nb-doped SrTiO3. Solid State Ionics, 2009, 180, 63-70.	1.3	81
5	Electrochemical DeNOx in solid electrolyte cellsâ€"an overview. Applied Catalysis B: Environmental, 2005, 58, 33-39.	10.8	65
6	Mechanochemical Synthesis of Feâ€"S Materials. Journal of Solid State Chemistry, 1998, 138, 114-125.	1.4	60
7	Hybrid direct carbon fuel cells and their reaction mechanismsâ€"a review. Journal of Solid State Electrochemistry, 2014, 18, 861-882.	1.2	59
8	A study of Pr0.7Sr0.3Fe1â^'xNixO3â^'Î´ as a cathode material for SOFCs with intermediate operating temperature. Solid State Ionics, 2005, 176, 1013-1020.	1.3	56
9	Studies of Feâ€"Co based perovskite cathodes with different A-site cations. Solid State Ionics, 2006, 177, 1047-1051.	1.3	50
10	Effects of Sr/Ti-ratio in SrTiO3-based SOFC anodes investigated by the use of cone-shaped electrodes. Electrochimica Acta, 2006, 52, 1651-1661.	2.6	47
11	Perovskites as Cathodes for Nitric Oxide Reduction. Journal of the Electrochemical Society, 2000, 147, 2007.	1.3	46
12	Solid state electrochemical DeNOxâ€"An overview. Applied Catalysis B: Environmental, 2010, 100, 427-432.	10.8	38
13	Synthesis of Nb-doped SrTiO3 by a modified glycine-nitrate process. Journal of the European Ceramic Society, 2007, 27, 3609-3612.	2.8	33
14	Electrochemical removal of NOx with porous cell stacks. Materials Research Bulletin, 2010, 45, 1554-1561.	2.7	32
15	Enhancement of NO removal performance for (La0.85Sr0.15)0.99MnO3/Ce0.9Gd0.1O1.95 electrochemical cells by NO storage/reduction adsorption layers. Electrochimica Acta, 2013, 90, 482-491.	2.6	32
16	Enhancing Hybrid Direct Carbon Fuel Cell anode performance using Ag2O. Electrochimica Acta, 2015, 152, 222-239.	2.6	31
17	Electrochemical reduction of NO and O2 on Cu/CuO. Journal of Applied Electrochemistry, 2000, 30, 193-200.	1.5	30
18	Temperature dependence of the cation distribution in measured with high temperature neutron diffraction. Journal of Solid State Chemistry, 2008, 181, 2364-2369.	1.4	29

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19	Characterization of (La[sub 1â˜'x]Sr[sub x])[sub s]MnO[sub 3] and Doped Ceria Composite Electrodes in NO[sub x]-Containing Atmosphere with Impedance Spectroscopy. Journal of the Electrochemical Society, 2010, 157, P35.	1.3	28
20	Evaluation of LSF based SOFC cathodes using cone-shaped electrodes and EIS. Solid State Ionics, 2020, 344, 115096.	1.3	28
21	Perovskites as Catalysts for the Selective Catalytic Reduction of Nitric Oxide with Propene: Relationship between Solid State Properties and Catalytic Activity. Journal of Catalysis, 2001, 199, 132-140.	3.1	27
22	Strontium Titanate-based Composite Anodes for Solid Oxide Fuel Cells. ECS Transactions, 2008, 13, 181-194.	0.3	26
23	The Effect of a CGO Barrier Layer on the Performance of LSM/YSZ SOFC Cathodes. Journal of the Electrochemical Society, 2010, 157, B309.	1.3	26
24	NOx conversion on LSM15-CGO10 cell stacks with BaO impregnation. Journal of Materials Chemistry, 2012, 22, 11792.	6.7	26
25	A-Site Deficient (Pr[sub 0.6]Sr[sub 0.4])[sub 1â˜'s]Fe[sub 0.8]Co[sub 0.2]O[sub 3â˜'Î'] Perovskites as Solid Oxide Fuel Cell Cathodes. Journal of the Electrochemical Society, 2009, 156, B1257.	1.3	25
26	LSFM perovskites as cathodes for the electrochemical reduction of NO. Solid State Ionics, 2005, 176, 915-920.	1.3	24
27	Effect of impregnation of La0.85Sr0.15MnO3/yttria stabilized zirconia solid oxide fuel cell cathodes with La0.85Sr0.15MnO3 or Al2O3 nano-particles. Electrochimica Acta, 2010, 55, 4606-4609.	2.6	24
28	NOx selective catalytic reduction (SCR) on self-supported Vâ€"W-doped TiO₂ nanofibers. New Journal of Chemistry, 2017, 41, 3466-3472.	1.4	24
29	Electrical and electro-chemical characterisation of La0.99Fe1â˜'x Ni x O3â˜'Î´ perovskites. Journal of Solid State Electrochemistry, 2006, 10, 934-940.	1.2	23
30	Spinels as cathodes for the electrochemical reduction of O2 and NO. Topics in Catalysis, 2007, 45, 143-148.	1.3	21
31	An EIS study of La2â€‰â˜'â€‰x Sr x NiO4â€‰+â€‰ Î´ SOFC cathodes. Ionics, 2009, 15, 325-328.	1.2	21
32	HDCFC Performance as a Function of Anode Atmosphere (N₂-CO₂). Journal of the Electrochemical Society, 2014, 161, F33-F46.	1.3	21
33	Catalytic Enhancement of Carbon Black and Coal-Fueled Hybrid Direct Carbon Fuel Cells. Journal of the Electrochemical Society, 2015, 162, F327-F339.	1.3	21
34	Conductivity and electrochemical characterization of PrFe1â˜'xNixO3â˜'Î´ at high temperature. Journal of Alloys and Compounds, 2007, 428, 256-261.	2.8	19
35	Electrochemical reduction of NO and O2 on oxide based electrodes. Ionics, 2000, 6, 340-345.	1.2	18
36	Processing and characterization of porous electrochemical cells for flue gas purification. Ionics, 2009, 15, 427-431.	1.2	17

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37	Silver Modified Cathodes for Solid Oxide Fuel Cells. Journal of the Electrochemical Society, 2019, 166, F79-F88.	1.3	16
38	Hybrid direct carbon fuel cell anode processes investigated using a 3-electrode half-cell setup. International Journal of Hydrogen Energy, 2015, 40, 1945-1958.	3.8	15
39	Effect of pore formers on properties of tape cast porous sheets for electrochemical flue gas purification. Journal of the European Ceramic Society, 2016, 36, 645-653.	2.8	15
40	Electrochemical reduction of O2 and NO on Ni, Pt and Au. Journal of Applied Electrochemistry, 2008, 38, 591-595.	1.5	14
41	Gd[sub 0.6]Sr[sub 0.4]Fe[sub 0.8]Co[sub 0.2]O[sub 3â^'Î´]: A Novel Type of SOFC Cathode. Electrochemical and Solid-State Letters, 2007, 10, B119.	2.2	13
42	NiCr x Fe2-x O4 as cathode materials for electrochemical reduction of NO x. Journal of Solid State Electrochemistry, 2010, 14, 157-166.	1.2	13
43	Electrochemical NOx reduction on an LSM/CGO symmetric cell modified by NOx adsorbents. Journal of Materials Chemistry A, 2013, 1, 7137.	5.2	13
44	In Situ Studies of Fe⁴⁺Stability inÎ²-Li₃Fe₂(PO₄)₃Cathodes for Li Ion Batteries. Journal of the Electrochemical Society, 2015, 162, A531-A537.	1.3	13
45	Cathode-supported hybrid direct carbon fuel cells. International Journal of Hydrogen Energy, 2017, 42, 4311-4319.	3.8	13
46	EIS Measurements on La[sub 1â^'x]Sr[sub x]Co[sub 1â^'y]Fe[sub y]O[sub 3â^'Î´] Based Composite Electrodes in NO[sub x] Containing Atmosphere. Journal of the Electrochemical Society, 2010, 157, P107.	1.3	12
47	Electrochemical Reduction of Oxygen and Nitric Oxide at Low Temperature on La[sub 1â^'x]Sr[sub x]CoO[sub 3â^'Î´] Cathodes. Journal of the Electrochemical Society, 2010, 157, P79.	1.3	12
48	Electrochemical reduction of oxygen and nitric oxide at low temperature on Ce1â^'xPrxO2â^'Î´ cathodes. Electrochimica Acta, 2013, 114, 474-477.	2.6	12
49	Electrochemical reduction of oxygen and nitric oxide at low temperature on La1â^'xSrxMnO3+Î´ cathodes. Materials Research Bulletin, 2013, 48, 3274-3277.	2.7	12
50	Effect of the sol-gel conditions on the morphology and SCR performance of electrospun V-W-TiO 2 catalysts. Journal of Physics and Chemistry of Solids, 2018, 118, 255-261.	1.9	12
51	The NiFe2O4 - MgFe2O4 series as electrode materials for electrochemical reduction of NO x. Journal of Solid State Electrochemistry, 2009, 13, 1241-1250.	1.2	11
52	Influence of BaO in perovskite electrodes for the electrochemical reduction of NO x. Topics in Catalysis, 2007, 45, 131-135.	1.3	10
53	High-performance Feâ€“Co-based SOFC cathodes. Journal of Solid State Electrochemistry, 2010, 14, 2107-2112.	1.2	10
54	Diffuse Reflectance Infrared Fourier Transform Study of NO_x Adsorption on CGO10 Impregnated with K₂O or BaO. Journal of Physical Chemistry A, 2012, 116, 2497-2505.	1.1	10

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55	Effect of CeO2Addition on Hybrid Direct Carbon Fuel Cell Performance. Journal of the Electrochemical Society, 2017, 164, F328-F332.	1.3	10
56	Amorphous saturated ceriumâ€“tungstenâ€“titanium oxide nanofiber catalysts for NO_x selective catalytic reaction. New Journal of Chemistry, 2018, 42, 9501-9509.	1.4	10
57	Highly porous Ceâ€“Wâ€“TiO₂ free-standing electrospun catalytic membranes for efficient de-NO_x via ammonia selective catalytic reduction. Environmental Science: Nano, 2019, 6, 94-104.	2.2	10
58	Electrochemical reduction of NO and O2 on La2â^'x Sr x CuO4-based electrodes. Journal of Solid State Electrochemistry, 2008, 12, 1573-1577.	1.2	9
59	Characterization of MgMn x Fe2â^'x O4 as a possible cathode material for electrochemical reduction of NO x. Journal of Applied Electrochemistry, 2009, 39, 2369-2374.	1.5	9
60	Optimizing the performance of porous electrochemical cells for flue gas purification using the DOE method. Ceramics International, 2011, 37, 903-911.	2.3	9
61	Pore former induced porosity in LSM/CGO cathodes for electrochemical cells for flue gas purification. Ceramics International, 2012, 38, 1751-1754.	2.3	9
62	Electrochemical testing of composite electrodes of (La1â^'x Sr x) s MnO3 and doped ceria in NO-containing atmosphere. Journal of Solid State Electrochemistry, 2012, 16, 703-714.	1.2	9
63	Fabrication of highly porous LSM/CGO cell stacks for electrochemical flue gas purification. Ceramics International, 2013, 39, 2159-2163.	2.3	9
64	Electrochemical Reduction of Oxygen and Nitric Oxide at Low Temperature on La1â^'x Sr x FeO3â^'Î´ Cathodes. Electrocatalysis, 2014, 5, 256-261.	1.5	9
65	Highly selective NO x reduction for diesel engine exhaust via an electrochemical system. Electrochemistry Communications, 2016, 72, 36-40.	2.3	9
66	Electrochemical reduction of NO2 studied by the use of cone-shaped electrodes. Electrochemistry Communications, 2007, 9, 2721-2724.	2.3	8
67	Electrochemical reduction of NO on La2-x Sr x NiO4 based electrodes. Journal of Solid State Electrochemistry, 2009, 13, 1529-1534.	1.2	8
68	Electrochemical reduction of nitrous oxide on La1â^'xSrxFeO3 perovskites. Materials Research Bulletin, 2010, 45, 1334-1337.	2.7	8
69	NO x conversion on porous LSF15â€“CGO10 cell stacks with KNO3 or K2O impregnation. Journal of Solid State Electrochemistry, 2012, 16, 2651-2660.	1.2	8
70	High Performance Infiltrated Backbones for Cathode-Supported SOFC's. ECS Transactions, 2014, 64, 41-51.	0.3	8
71	Communicationâ€"Perovskite Electrochemical System for Highly Selective NOxReduction of Diesel Engine Exhaust. Journal of the Electrochemical Society, 2018, 165, H591-H593.	1.3	8
72	Facilitating oxygen reduction by silver nanoparticles on lanthanum strontium ferrite cathode. Journal of Solid State Electrochemistry, 2020, 24, 609-621.	1.2	8

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73	Electrochemical Reactor for Exhaust Gas Purification. , 1999, , .		7
74	Charge disproportionation in (X0.6Sr0.4)0.99Fe0.8Co0.2O3â^'Î´ perovskites (X=La, Pr, Sm, Gd). Solid State Ionics, 2005, 176, 1555-1561.	1.3	7
75	Evaluation of LSF based SOFC Cathodes using Cone-shaped Electrodes. ECS Transactions, 2008, 13, 153-160.	0.3	7
76	The effect of A-site deficiency on the performance of La1â^'sFe0.4Ni0.6O3â^'Î´ cathodes. Materials Research Bulletin, 2010, 45, 197-199.	2.7	7
77	Improvement of LSM15-CGO10 Electrodes for Electrochemical Removal of NOx by KNO3 and MnOx Impregnation. Journal of the Electrochemical Society, 2011, 158, P147.	1.3	7
78	A combined SEM, CV and EIS study of multi-layered porous ceramic reactors for flue gas purification. Ceramics International, 2013, 39, 847-851.	2.3	7
79	Removal of NOx with Porous Cell Stacks with La_{0.85}Sr_{0.15}Co_xMn_{1-x}O_{3+Î´}-Ce_{0.9}Gd_{0.1}O Infiltrated with BaO. Journal of the Electrochemical Society, 2014, 161, H663-H669.		7
80	Oxidation of Methane and Hydrogen on Ce[sub 1â^'x]Gd[sub x]O[sub 2â^'Î´] Flourrites. Electrochemical and Solid-State Letters, 2005, 8, A108.	2.2	6
81	Optimization of an electrochemical cell with an adsorption layer for NOx removal. Journal of Solid State Electrochemistry, 2012, 16, 3331-3340.	1.2	6
82	Characterization of LSM/CGO Symmetric Cells Modified by NO_xAdsorbents for Electrochemical NO_xRemoval with Impedance Spectroscopy. Journal of the Electrochemical Society, 2013, 160, H494-H501.	1.3	6
83	Electrochemical reduction of NO with propene in the presence of oxygen on LSCoM/CGO porous cell stacks impregnated with BaO. Journal of Solid State Electrochemistry, 2015, 19, 1611-1620.	1.2	6
84	Electrochemical Exhaust Gas Purification. , 2000, , .		5
85	Electrochemical Oxidation of Propene by Use of LSM₁₅/CGO₁₀Electrochemical Reactor. Journal of the Electrochemical Society, 2012, 159, P57-P64.	1.3	5
86	Effect of infiltration material on a LSM15/CGO10 electrochemical reactor in the electrochemical oxidation of propene. Journal of Solid State Electrochemistry, 2013, 17, 895-908.	1.2	5
87	Fabrication and Characterization of Multi-Layer Ceramics for Electrochemical Flue Gas Purification. Journal of the Electrochemical Society, 2013, 160, E113-E119.	1.3	5
88	NOxReduction on Ag Electrochemical Cells with a K-Pt-Al2O3Adsorption Layer. Journal of the Electrochemical Society, 2013, 160, H294-H301.	1.3	5
89	Catalytic Enhancement of Solid Carbon Oxidation in HDCFCs. ECS Transactions, 2014, 61, 225-234.	0.3	5
90	Direct Coal Oxidation in Modified Solid Oxide Fuel Cells. ECS Transactions, 2015, 68, 2685-2694.	0.3	5

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91	Direct Coal Oxidation in Modified Solid Oxide Fuel Cells. Journal of the Electrochemical Society, 2017, 164, F333-F337.	1.3	5
92	Studies of Aâ€site Deficient (Gd_{0.6}Sr_{0.4})_{1â€“s}Fe_{0.8}Co_{0.2}O_{3â€“}i>_{Î´}</i> Cathodes in SOFCs. Fuel Cells, 2018, 18, 96-100.	1.5	
93	Electrochemical Removal of NOx Using Oxide-Based Electrodes â€“ A Review.. International Journal of Electrochemical Science, 0, , 9273-9280.	0.5	5
94	Electrochemical Reduction of Oxygen and Nitric oxide at low Temperature on La_{1-x}Sr_xCr_{0.97}V_{0.03}O_{3-Î´}Cathodes. Journal of the Electrochemical Society, 2013, 160, F1254-F1257.	1.3	4
95	Effect of CeO₂ Infiltration on the Hybrid Direct Carbon Fuel Cell Performance. ECS Transactions, 2014, 61, 255-267.	0.3	4
96	New Hypothesis for SOFC Ceramic Oxygen Electrode Mechanisms. ECS Transactions, 2016, 72, 93-103.	0.3	4
97	Influence of pore former on porosity and mechanical properties of Ce0.9Gd0.1O1.95 electrolytes for flue gas purification. Ceramics International, 2016, 42, 4546-4555.	2.3	4
98	Cone-Shaped Gd1-xSrxFe0.8Co0.2O3-Î´ Electrodes for SOFC Cathodes. International Journal of Electrochemical Science, 2017, 12, 11540-11545.	0.5	4
99	Activation/Deactivation Phenomena in the Electrochemical Reduction of Nitric oxide and Oxygen on LSM perovskites. International Journal of Electrochemical Science, 2018, 13, 4782-4791.	0.5	4
100	Low temperature reduction of NO and O2 on A-site deficient (Pr0.6Sr0.4)1â^'s Fe0.8Co0.2O3â^'Î´ perovskites. Journal of Materials Science, 2011, 46, 6457-6460.	1.7	3
101	Effect of cobalt on the activity of dual phase â€œ(Gd0.6Sr0.4)0.99Fe1-xCoxO3-Î´â€•SOFC cathodes. Journal of Solid State Electrochemistry, 2019, 23, 965-970.	1.2	3
102	Sintering Effect on Material Properties of Electrochemical Reactors Used for Removal of Nitrogen Oxides and Soot Particles Emitted from Diesel Engines. Fuel Cells, 2010, 10, 636-642.	1.5	2
103	A combined SEM and CV study of solid oxide fuel cell interconnect steels. Journal of Solid State Electrochemistry, 2012, 16, 1399-1404.	1.2	2
104	Production of a half cell with a LSM/CGO support for electrochemical flue gas purification. Ceramics International, 2013, 39, 8649-8655.	2.3	2
105	Hybrid Direct Carbon Fuel Cell Performance With Anode Current Collector Material. Journal of Fuel Cell Science and Technology, 2015, 12, .	0.8	2
106	Effect of Co3O4 and Co3O4/CeO2 Infiltration on the Catalytic and Electro-catalytic Activity of LSM15/CGO10 Porous Cells Stacks for Oxidation of Propene. Electrochimica Acta, 2015, 159, 23-28.	2.6	2
107	Permeability, strength and electrochemical studies on ceramic multilayers for solid-state electrochemical cells. Heliyon, 2017, 3, e00371.	1.4	2
108	Cr- and Ti-Based Spinels as Materials for Anodic Catalyst Support in PEM Electrolysis Cells: Assessing Corrosion Stability and Support Role in Catalyst Activity of Corrosion Stable Ceramics. ECS Transactions, 2018, 85, 65-77.	0.3	2

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109	Electrochemical Reduction of Oxygen and Nitric Oxide on Mn-Based Perovskites with Different A-Site Cations. International Journal of Electrochemistry, 2020, 2020, 1-6.	2.4	2
110	Determination of the Resistance of Cone-Shaped Solid Electrodes. Journal of the Electrochemical Society, 2017, 164, E3035-E3039.	1.3	1
111	NOx conversion in La0.85Sr0.15Co0.03Mn0.97O3+d-Ce0.9Gd0.1O1.95 porous cell stacks infiltrated with Pt. Journal of Electroceramics, 2019, 42, 1-8.	0.8	1
112	EIS measurements on porous cell stacks with an La0.85Sr0.15CoxMn1-xO3 (x=0, 0.01, 0.03 and 0.05) - Ce0.9Gd0.1O1.95 backbone in an atmosphere containing NOx. International Journal of Electrochemical Science, 2020, , 3578-3592.	0.5	1
113	Thermal properties of (Gd0.6Sr0.4)0.99Fe1-xCoxO3-Î´ cathodes for intermediate temperature solid oxide fuel cells. Ceramics International, 2021, 47, 5407-5414.	2.3	1
114	Effect of Supplied CO-CO2 in the Presence of Carbon. Journal of Electrochemical Science and Engineering, 2015, 5, .	1.6	1
115	NOx Conversion of Porous LSF15-CGO10 Cell Stacks. Journal of New Materials for Electrochemical Systems, 2015, 18, 111-120.	0.3	1
116	Silver Exsolution-Enhanced Electrical Properties of Lanthanum-Based Perovskites. Journal of Materials Science and Engineering A, 2019, 9, .	0.0	1
117	Activation/Deactivation Phenomenaâ€™s in the Electrochemical Reduction of O₂ and NO on La_{1â^'}<i>_x</i>Sr<i>_x</i>FeO<sub>3â^' Electrochemistry, 2020, 88, 146-150.	0.6	1
118	A study of La1-xSrxCoO3-Î´ SOFC Cathodes using Cone-shaped Electrodes and EIS. International Journal of Electrochemical Science, 2020, 15, 12030-12040.	0.5	1
119	Electrochemical Removal of NOx-Gasses by Use of LSM-Cathodes Impregnated with a NOx Storage Compound. ECS Transactions, 2010, 28, 193-203.	0.3	0
120	Electrochemical Oxidation of Propene with a LSF₁₅/CGO₁₀Electrochemical Reactor. Journal of the Electrochemical Society, 2014, 161, F323-F331.	1.3	0
121	Impedance Spectroscopy and Catalytic Activity Characterization of a La0.85Sr0.15MnO3/Ce0.9Gd0.1O1.95 Electrochemical Reactor for the Oxidation of Propene. Electrocatalysis, 2014, 5, 419-425.	1.5	0
122	NOx and propene conversion on La0.85Sr0.15MnO3+d/Ce0.9Gd0.1O1.95 symmetrical cells. Journal of Electrochemical Science and Engineering, 2017, , .	1.6	0
123	Corrosion Study of Cr-Oxide Ceramics Using Rotating Ring Disk Electrode. Journal of the Electrochemical Society, 2019, 166, C3159-C3169.	1.3	0
124	Ce1-xPrxO2-d (x = 0.1, 0.2, 0.3 and 0.4) as Suspended Catalysts in a Hybrid Direct Carbon Fuel Cell. International Journal of Electrochemical Science, 2020, , 9294-9299.	0.5	0
125	Cathode Supported Hybrid Direct Carbon Fuel Cells with Different Anodes. International Journal of Electrochemical Science, 2020, , 6035-6040.	0.5	0
126	Electrochemical Flue Gas Purification: A Review. SAE International Journal of Engines, 0, 14, .	0.4	0

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127	Evaluation of strontium substituted lanthanum manganite-based solid oxide fuel cell cathodes using cone-shaped electrodes and electrochemical impedance spectroscopy. Journal of Electrochemical Science and Engineering, 0, , .	1.6	0