John T S Irvine

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#	Paper	IF	Citations
492	Electroceramics: Characterization by Impedance Spectroscopy. <i>Advanced Materials</i> , 1990 , 2, 132-138	24	1700
491	Advanced anodes for high-temperature fuel cells. <i>Nature Materials</i> , 2004 , 3, 17-27	27	1203
490	A redox-stable efficient anode for solid-oxide fuel cells. <i>Nature Materials</i> , 2003 , 2, 320-3	27	986
489	Ammonia and related chemicals as potential indirect hydrogen storage materials. <i>International Journal of Hydrogen Energy</i> , 2012 , 37, 1482-1494	6.7	613
488	In situ growth of nanoparticles through control of non-stoichiometry. <i>Nature Chemistry</i> , 2013 , 5, 916-2	3 17.6	569
487	Layered oxygen-deficient double perovskite as an efficient and stable anode for direct hydrocarbon solid oxide fuel cells. <i>Nature Materials</i> , 2015 , 14, 205-9	27	475
486	Nano-socketed nickel particles with enhanced coking resistance grown in situ by redox exsolution. <i>Nature Communications</i> , 2015 , 6, 8120	17.4	438
485	Evolution of the electrochemical interface in high-temperature fuel cells and electrolysers. <i>Nature Energy</i> , 2016 , 1,	62.3	418
484	A red metallic oxide photocatalyst. <i>Nature Materials</i> , 2012 , 11, 595-8	27	370
483	Structural Investigation of Graphitic Carbon Nitride via XRD and Neutron Diffraction. <i>Chemistry of Materials</i> , 2015 , 27, 2612-2618	9.6	346
482	Synthesis and Characterization of (La[sub 0.75]Sr[sub 0.25])Cr[sub 0.5]Mn[sub 0.5]O[sub 3¶ a Redox-Stable, Efficient Perovskite Anode for SOFCs. <i>Journal of the Electrochemical Society</i> , 2004 , 151, A252	3.9	336
481	Disruption of extended defects in solid oxide fuel cell anodes for methane oxidation. <i>Nature</i> , 2006 , 439, 568-71	50.4	329
480	A symmetrical solid oxide fuel cell demonstrating redox stable perovskite electrodes. <i>Journal of Materials Chemistry</i> , 2006 , 16, 1603		319
479	Inorganic perovskite photocatalysts for solar energy utilization. Chemical Society Reviews, 2016, 45, 59	515 8.9 8	4318
478	Synthesis of ammonia directly from air and water at ambient temperature and pressure. <i>Scientific Reports</i> , 2013 , 3, 1145	4.9	277
477	Switching on electrocatalytic activity in solid oxide cells. <i>Nature</i> , 2016 , 537, 528-531	50.4	276
476	Recent Progress in the Development of Anode Materials for Solid Oxide Fuel Cells. <i>Advanced Energy Materials</i> , 2011 , 1, 314-332	21.8	276

475	A direct urea fuel cell power from fertiliser and waste. Energy and Environmental Science, 2010, 3, 438	35.4	248	
474	Conductivity studies of dense yttrium-doped BaZrO3 sintered at 1325LC. <i>Journal of Solid State Chemistry</i> , 2007 , 180, 3493-3503	3.3	236	
473	g-C3N4 coated SrTiO3 as an efficient photocatalyst for H2 production in aqueous solution under visible light irradiation. <i>International Journal of Hydrogen Energy</i> , 2011 , 36, 13501-13507	6.7	202	
472	Step-change in high temperature steam electrolysis performance of perovskite oxide cathodes with exsolution of B-site dopants. <i>Energy and Environmental Science</i> , 2013 , 6, 256-266	35.4	197	
471	Formation, structure, and stability of titanate nanotubes and their proton conductivity. <i>Journal of Physical Chemistry B</i> , 2005 , 109, 5439-44	3.4	188	
470	Symmetric and reversible solid oxide fuel cells. <i>RSC Advances</i> , 2011 , 1, 1403	3.7	187	
469	Preparation and characterisation of apatite-type lanthanum silicates by a sol-gel process. <i>Materials Research Bulletin</i> , 2001 , 36, 1245-1258	5.1	185	
468	Efficient Reduction of CO[sub 2] in a Solid Oxide Electrolyzer. <i>Electrochemical and Solid-State Letters</i> , 2008 , 11, B167		174	
467	Elaboration of CO2 tolerance limits of BaCe0.9Y0.1O3Delectrolytes for fuel cells and other applications. <i>Solid State Ionics</i> , 2005 , 176, 3019-3026	3.3	171	
466	Catalytic Properties of the Perovskite Oxide La0.75Sr0.25Cr0.5Fe0.5O3-lin Relation to Its Potential as a Solid Oxide Fuel Cell Anode Material. <i>Chemistry of Materials</i> , 2004 , 16, 4116-4121	9.6	163	
465	An Efficient Solid Oxide Fuel Cell Based upon Single-Phase Perovskites. <i>Advanced Materials</i> , 2005 , 17, 1734-1737	24	163	
464	Discovery and characterization of novel oxide anodes for solid oxide fuel cells. <i>Chemical Record</i> , 2004 , 4, 83-95	6.6	156	
463	Structure and Properties of La0.4Sr0.4TiO3 Ceramics for Use as Anode Materials in Solid Oxide Fuel Cells. <i>Chemistry of Materials</i> , 2010 , 22, 5042-5053	9.6	155	
462	(La0.75Sr0.25)0.95Mn0.5Cr0.5O3 as the cathode of solid oxide electrolysis cells for high temperature hydrogen production from steam. <i>Journal of Materials Chemistry</i> , 2008 , 18, 2349		153	
461	Enhanced Photocatalytic H2 Production in Core-Shell Engineered Rutile TiO2. <i>Advanced Materials</i> , 2016 , 28, 5850-6	24	152	
460	Enhancing CO electrolysis through synergistic control of non-stoichiometry and doping to tune cathode surface structures. <i>Nature Communications</i> , 2017 , 8, 14785	17.4	147	
459	Effect of alumina additions upon electrical properties of 8 mol.% yttria-stabilised zirconia. <i>Solid State Ionics</i> , 1999 , 121, 209-216	3.3	147	
458	Synthesis and electrical characterisation of doped perovskite titanates as potential anode materials for solid oxide fuel cells. <i>Journal of Materials Chemistry</i> , 1997 , 7, 2495-2498		143	

457	Direct synthesis of methane from CO2/H2O in an oxygen-ion conducting solid oxide electrolyser. Energy and Environmental Science, 2011 , 4, 2218	35.4	135
456	Advanced Electrochemical Properties of LnBa[sub 0.5]Sr[sub 0.5]Co[sub 2]O[sub 5+\$\Pi\$(Ln=Pr, Sm, and Gd) as Cathode Materials for IT-SOFC. <i>Journal of the Electrochemical Society</i> , 2009 , 156, B682	3.9	135
455	Electrochemical performance of ball-milled ZnOBnO2 systems as anodes in lithium-ion battery. Journal of Power Sources, 2001 , 97-98, 219-222	8.9	134
454	Investigation of the Structural and Catalytic Requirements for High-Performance SOFC Anodes Formed by Infiltration of LSCM. <i>Electrochemical and Solid-State Letters</i> , 2009 , 12, B48		132
453	Electrochemical oxidation of solid carbon in hybrid DCFC with solid oxide and molten carbonate binary electrolyte. <i>Energy and Environmental Science</i> , 2008 , 1, 148	35.4	130
452	Syntheses, Li Insertion, and Photoactivity of Mesoporous Crystalline TiO2. <i>Advanced Functional Materials</i> , 2009 , 19, 2826-2833	15.6	129
451	Synthesis, chemical stability and proton conductivity of the perovksites Ba(Ce,Zr)1⊠ Scx O3 Ⅲ <i>Solid State Ionics</i> , 2007 , 178, 635-640	3.3	124
450	Engineering Composite Oxide SOFC Anodes for Efficient Oxidation of Methane. <i>Electrochemical and Solid-State Letters</i> , 2008 , 11, B16		123
449	Challenges in developing direct carbon fuel cells. <i>Chemical Society Reviews</i> , 2017 , 46, 2889-2912	58.5	120
448	Alternative Cathode Material for CO2Reduction by High Temperature Solid Oxide Electrolysis Cells. Journal of the Electrochemical Society, 2012 , 159, F442-F448	3.9	120
447	Demonstration of high power, direct conversion of waste-derived carbon in a hybrid direct carbon fuel cell. <i>Energy and Environmental Science</i> , 2012 , 5, 6973	35.4	116
446	Heteroatom-Modulated Switching of Photocatalytic Hydrogen and Oxygen Evolution Preferences of Anatase TiO2 Microspheres. <i>Advanced Functional Materials</i> , 2012 , 22, 3233-3238	15.6	114
445	High-Temperature Powder Neutron Diffraction Study of the Oxide Ion Conductor La0.9Sr0.1Ga0.8Mg0.2O2.85. <i>Journal of Solid State Chemistry</i> , 1998 , 139, 135-143	3.3	110
444	Sinterability of commercial 8 mol% yttria-stabilized zirconia powders and the effect of sintered density on the ionic conductivity. <i>Journal of Materials Science</i> , 1998 , 33, 4297-4305	4.3	109
443	In Situ Growth of Nanoparticles in Layered Perovskite La0.8Sr1.2Fe0.9Co0.1O4las an Active and Stable Electrode for Symmetrical Solid Oxide Fuel Cells. <i>Chemistry of Materials</i> , 2016 , 28, 2981-2993	9.6	109
442	Mesoporous Monocrystalline TiO2 and Its Solid-State Electrochemical Properties. <i>Chemistry of Materials</i> , 2009 , 21, 2540-2546	9.6	107
441	Electrochemical Investigation of Composite Cathodes with SmBa0.5Sr0.5Co2O5+ICathodes for Intermediate Temperature-Operating Solid Oxide Fuel Cell <i>Chemistry of Materials</i> , 2010 , 22, 883-892	9.6	106
440	Evidence and Model for Strain-Driven Release of Metal Nanocatalysts from Perovskites during Exsolution. <i>Journal of Physical Chemistry Letters</i> , 2015 , 6, 5106-10	6.4	103

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439	Mixed conductivity and electrochemical behavior of (La0.75Sr0.25)0.95Cr0.5Mn0.5O3\(\textit{Solid State lonics}\), 2007, 178, 101-113	3.3	103
438	Novel tin oxide spinel-based anodes for Li-ion batteries. <i>Journal of Power Sources</i> , 2001 , 97-98, 223-225	8.9	98
437	Structural, thermal and electrochemical properties of layered perovskite SmBaCo2O5+d, a potential cathode material for intermediate-temperature solid oxide fuel cells. <i>Journal of Power Sources</i> , 2009 , 194, 704-711	8.9	96
436	Electrochemical reduction of CO2 in a proton conducting solid oxide electrolyser. <i>Journal of Materials Chemistry</i> , 2011 , 21, 195-198		94
435	Tailoring SOFC Electrode Microstructures for Improved Performance. <i>Advanced Energy Materials</i> , 2018 , 8, 1800120	21.8	92
434	Demonstration of chemistry at a point through restructuring and catalytic activation at anchored nanoparticles. <i>Nature Communications</i> , 2017 , 8, 1855	17.4	87
433	Methane oxidation at redox stable fuel cell electrode La0.75Sr0.25Cr0.5Mn0.5O(3-delta). <i>Journal of Physical Chemistry B</i> , 2006 , 110, 21771-6	3.4	86
432	Electrical conductivity and redox stability of La2Mo2\(\mathbb{R}\)WxO9 materials. <i>Electrochimica Acta</i> , 2005 , 50, 4385-4395	6.7	86
431	Influence of structure and composition upon performance of tin phosphate based negative electrodes for lithium batteries. <i>Electrochimica Acta</i> , 2002 , 47, 1727-1738	6.7	83
430	Investigation of Ramsdellite Titanates as Possible New Negative Electrode Materials for Li Batteries. <i>Journal of the Electrochemical Society</i> , 1999 , 146, 4348-4353	3.9	83
429	Synthesis and applications of nanoporous perovskite metal oxides. <i>Chemical Science</i> , 2018 , 9, 3623-363	7 9.4	82
428	The development of a carbonHir semi fuel cell. <i>Journal of Power Sources</i> , 2006 , 162, 750-756	8.9	82
427	Structural origins of the differing grain conductivity values in BaZr0.9Y0.1O2.95 and indication of novel approach to counter defect association. <i>Journal of Materials Chemistry</i> , 2008 , 18, 3414		79
426	(La,Sr)(Cr,Mn)O3/GDC cathode for high temperature steam electrolysis and steam-carbon dioxide co-electrolysis. <i>Solid State Ionics</i> , 2012 , 225, 131-135	3.3	78
425	Li1 + x Fe1 Bx Ti1 + 2x O 4 (0.0 1	3.9	78
424	Facile structure design based on C3N4 for mediator-free Z-scheme water splitting under visible light. <i>Catalysis Science and Technology</i> , 2015 , 5, 3416-3422	5.5	77
423	Photocatalytic H2 generation from spinels ZnFe2O4, ZnFeGaO4 and ZnGa2O4. <i>Catalysis Today</i> , 2013 , 199, 22-26	5.3	77
422	Reduction studies and evaluation of surface modified A-site deficient La-doped SrTiO3 as anode material for IT-SOFCs. <i>Journal of Materials Chemistry</i> , 2009 , 19, 8119		77

421	Solid state electrochemistry of direct carbon/air fuel cells. Solid State Ionics, 2008, 179, 1417-1421	3.3	77
420	Layered Intergrowth Phases Bi4MO8X (X=Cl, M=Ta and X=Br, M=Ta or Nb): Structural and Electrophysical Characterization. <i>Journal of Solid State Chemistry</i> , 2002 , 166, 148-157	3.3	76
419	La-doped SrTiO3 as anode material for IT-SOFC. Solid State Ionics, 2011, 192, 491-493	3.3	75
418	The role of defect chemistry in strontium titanates utilised for high temperature steam electrolysis. Journal of Materials Chemistry, 2011 , 21, 9367		74
417	LSCM[YSZIIGO) composites as improved symmetrical electrodes for solid oxide fuel cells. <i>Journal of the European Ceramic Society</i> , 2007 , 27, 4223-4227	6	73
416	Ni/C Slurries Based on Molten Carbonates as a Fuel for Hybrid Direct Carbon Fuel Cells. <i>Journal of the Electrochemical Society</i> , 2009 , 156, B716	3.9	70
415	Electronic transport in the novel SOFC anode material La1⊠SrxCr0.5Mn0.5O3⊞□ <i>Solid State Ionics</i> , 2006 , 177, 2005-2008	3.3	70
4 ¹ 4	Enhancing Electronic Conductivity in Strontium Titanates through Correlated A and B-Site Doping. <i>Chemistry of Materials</i> , 2011 , 23, 1607-1617	9.6	69
413	The effect of Pt NPs crystallinity and distribution on the photocatalytic activity of Pt-g-C3N4. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 13929-36	3.6	68
412	An efficient ceramic-based anode for solid oxide fuel cells. <i>Journal of Power Sources</i> , 2007 , 171, 663-669	18.9	68
411	Probing the energy levels of perovskite solar cells via Kelvin probe and UV ambient pressure photoemission spectroscopy. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 19738-45	3.6	67
410	Lattice strain-enhanced exsolution of nanoparticles in thin films. <i>Nature Communications</i> , 2019 , 10, 1471	117.4	66
409	Simultaneous cellulose conversion and hydrogen production assisted by cellulose decomposition under UV-light photocatalysis. <i>Chemical Communications</i> , 2016 , 52, 1673-6	5.8	66
408	B-site doping of lanthanum strontium titanate for solid oxide fuel cell anodes. <i>Journal of Power Sources</i> , 2011 , 196, 7323-7327	8.9	66
407	Composite Oxygen Electrode Based on LSCM for Steam Electrolysis in a Proton Conducting Solid Oxide Electrolyzer. <i>Journal of the Electrochemical Society</i> , 2012 , 159, F763-F767	3.9	66
406	Phase Transition in Perovskite Oxide La0.75Sr0.25Cr0.5Mn0.5O3-£Observed by in Situ High-Temperature Neutron Powder Diffraction. <i>Chemistry of Materials</i> , 2006 , 18, 5453-5460	9.6	66
405	Electrical Properties of Polycrystalline Nickel Zinc Ferrites. <i>Journal of the American Ceramic Society</i> , 1990 , 73, 729-732	3.8	66
404	Modified strontium titanates: from defect chemistry to SOFC anodes. <i>RSC Advances</i> , 2015 , 5, 1168-1180	3.7	65

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403	On the existence of A-site deficiency in perovskites and its relation to the electrochemical performance. <i>Advanced Materials</i> , 2012 , 24, 528-32	24	65	
402	High H? ionic conductivity in barium hydride. <i>Nature Materials</i> , 2015 , 14, 95-100	27	64	
401	Electrodeposited NiCu bimetal on carbon paper as stable non-noble anode for efficient electrooxidation of ammonia. <i>Applied Catalysis B: Environmental</i> , 2018 , 237, 1101-1109	21.8	63	
400	Improved Oxidation of Hydrocarbons with New Electrodes in High Temperature Fuel Cells. <i>Fuel Cells</i> , 2001 , 1, 205-210	2.9	62	
399	Synthesis and lithium-storage properties of MnO/reduced graphene oxide composites derived from graphene oxide plus the transformation of Mn(VI) to Mn(II) by the reducing power of graphene oxide. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 297-303	13	61	
398	Characterization of layered perovskite oxides NdBa1\(\mathbb{B}\)SrxCo2O5+\(\mathbb{L}\)x\(\mathbb{L}\)D and 0.5) as cathode materials for IT-SOFC. <i>International Journal of Hydrogen Energy</i> , 2012 , 37, 5920-5929	6.7	61	
397	Investigation of proton conducting BaZr0.9Y0.1O2.95 : BaCe0.9Y0.1O2.95 coreBhell structures. <i>Journal of Materials Chemistry</i> , 2005 , 15, 598-604		61	
396	Structural studies on W6+ and Nd3+ substituted La2Mo2O9 materials. <i>Journal of Solid State Chemistry</i> , 2006 , 179, 278-288	3.3	61	
395	Formation of two-carbon acids from carbon dioxide by photoreduction on cadmium sulphide. Journal of the Chemical Society Chemical Communications, 1988 , 1123		61	
394	Comparative assessment of visible light and UV active photocatalysts by hydroxyl radical quantification. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2017 , 334, 13-19	4.7	60	
393	Structural Disorder in Doped Zirconias, Part I: The Zr0.8Sc0.2NYxO1.9 (0.0 /k /D.2) System. Chemistry of Materials, 2011 , 23, 1356-1364	9.6	60	
392	Impedance Studies on LSCMCDC Cathode for High Temperature CO2 Electrolysis. <i>Electrochemical and Solid-State Letters</i> , 2012 , 15, B31		59	
391	Catalysis and oxidation of carbon in a hybrid direct carbon fuel cell. <i>Journal of Power Sources</i> , 2011 , 196, 7318-7322	8.9	58	
390	Room temperature demonstration of a sodium superionic conductor with grain conductivity in excess of 0.01 S cma and its primary applications in symmetric battery cells. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 7766-7776	13	57	
389	Oxide Ion Conductivity in the Hexagonal Perovskite Derivative BaMoNbO. <i>Journal of the American Chemical Society</i> , 2016 , 138, 16764-16769	16.4	57	
388	Oxygen deficient layered double perovskite as an active cathode for CO2 electrolysis using a solid oxide conductor. <i>Faraday Discussions</i> , 2015 , 182, 227-39	3.6	56	
387	Electrochemical performance of a hybrid direct carbon fuel cell powered by pyrolysed MDF. <i>Energy and Environmental Science</i> , 2009 , 2, 687	35.4	56	
386	High density and low temperature sintered proton conductor BaCe0.5Zr0.35Sc0.1Zn0.05O3 Solid State Ionics, 2008, 179, 678-682	3.3	56	

385	Anodic Performance and Intermediate Temperature Fuel Cell Testing of La0.75Sr0.25Cr0.5Mn0.5O3-lat Lanthanum Gallate Electrolytes. <i>Chemistry of Materials</i> , 2006 , 18, 1001-1	1006	54
384	Studies on the Reorganization of Extended Defects with Increasing n in the Perovskite-Based La4Srn@TinO3n+2 Series. <i>Advanced Functional Materials</i> , 2005 , 15, 1000-1008	15.6	54
383	Structural and Electrical Properties of the Perovskite Oxide Sr2FeNbO6. <i>Chemistry of Materials</i> , 2004 , 16, 2309-2316	9.6	53
382	Water incorporation studies on doped barium cerate perovskites. <i>Solid State Ionics</i> , 2003 , 162-163, 83-9	13.3	53
381	High oxide ion and proton conductivity in a disordered hexagonal perovskite. <i>Nature Materials</i> , 2020 , 19, 752-757	27	52
380	Investigation of electrical and mechanical properties of 3YSZ/8YSZ composite electrolytes. <i>Solid State Ionics</i> , 2009 , 180, 57-62	3.3	52
379	Microstructural optimisation of materials for SOFC applications using PMMA microspheres. <i>Journal of Materials Chemistry</i> , 2006 , 16, 540		52
378	Electrochemical Characterization of Ceramic SOFC Anodes. <i>Journal of the Electrochemical Society</i> , 2001 , 148, A923	3.9	52
377	Development of anode material based on La-substituted SrTiO3 perovskites doped with manganese and/or gallium for SOFC. <i>Journal of Power Sources</i> , 2009 , 192, 43-50	8.9	51
376	Activation and Ripening of Impregnated Manganese Containing Perovskite SOFC Electrodes under Redox Cycling. <i>Chemistry of Materials</i> , 2009 , 21, 1077-1084	9.6	51
375	Mn-substituted titanates as efficient anodes for direct methane SOFCs. <i>Solid State Ionics</i> , 2006 , 177, 1997-2003	3.3	51
374	Ionic conductivity of amorphous lithium lanthanum titanate thin film. Solid State Ionics, 2005, 176, 553-5	5583	51
373	Synthesis and electrical characterisation of the tetragonal tungsten bronze type phases, (Ba/Sr/Ca/La)0 6MxNb1⊠O3ŪM=Mg, Ni, Mn, Cr, Fe, In, Sn): evaluation as potential anode materials for solid oxide fuel cells. <i>Solid State Ionics</i> , 1999 , 124, 61-72	3.3	51
372	Impact of the annealing temperature on Pt/g-C3N4 structure, activity and selectivity between photodegradation and water splitting. <i>Catalysis Today</i> , 2017 , 287, 182-188	5.3	50
371	Phase Relations at 1500°C in the Ternary System ZrO2°I2O3°I1O2. <i>Journal of Solid State Chemistry</i> , 1999 , 143, 273-276	3.3	50
370	Effects of nanocrystallization upon the soft magnetic properties of Co-based amorphous alloys. <i>Journal of Applied Physics</i> , 1994 , 75, 6940-6942	2.5	49
369	Charge carrier localised in zero-dimensional (CHNH)BiI clusters. <i>Nature Communications</i> , 2017 , 8, 170	17.4	48
368	Evaluation of Ca Doped La0.2Sr0.7TiO3as an Alternative Material for Use in SOFC Anodes. <i>Journal of the Electrochemical Society</i> , 2012 , 159, F757-F762	3.9	48

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367	Improvement of the electrochemical properties of novel solid oxide fuel cell anodes, La0.75Sr0.25Cr0.5Mn0.5O3Iand La4Sr8Ti11Mn0.5Ga0.5O37.5[Jusing CulfSZ-based cermets. <i>Electrochimica Acta</i> , 2007 , 52, 7217-7225	6.7	48	
366	Ce-substituted LSCM as new anode material for SOFC operating in dry methane. <i>Solid State Ionics</i> , 2008 , 179, 1562-1566	3.3	48	
365	Optimization of Mixed Conducting Properties of Y2O3ØrO2ØiO2 and Sc2O3Ø2O3ØrO2ØiO2 Solid Solutions as Potential SOFC Anode Materials. <i>Journal of Solid State Chemistry</i> , 2002 , 165, 12-18	3.3	48	
364	Niobium based tetragonal tungsten bronzes as potential anodes for solid oxide fuel cells: synthesis and electrical characterisation. <i>Solid State Ionics</i> , 1999 , 120, 125-134	3.3	48	
363	The AC Impedance Response of the Physical Interface Between Yttria-Stabilized Zirconia and YBa2Cu3 O 7 lk. <i>Journal of the Electrochemical Society</i> , 1995 , 142, 2650-2654	3.9	48	
362	Synthesis, sinterability and ionic conductivity of nanocrystalline La2Mo2O9 powders. <i>Solid State Ionics</i> , 2005 , 176, 1807-1816	3.3	47	
361	Combined X-ray study of lithium (tin) cobalt oxide matrix negative electrodes for Li-ion batteries. <i>Electrochimica Acta</i> , 2002 , 47, 2885-2892	6.7	46	
360	Qualitative X-ray Diffraction Analysis of Metastable Tetragonal (t?) Zirconia. <i>Journal of the American Ceramic Society</i> , 2001 , 84, 615-618	3.8	46	
359	Modification of LSCMCDC cathodes to enhance performance for high temperature CO2 electrolysis using solid oxide electrolysis cells (SOECs). <i>Journal of Materials Chemistry A</i> , 2017 , 5, 7081-7	701930	45	
358	Ca-substituted, A-site deficient perovskite La0.2Sr0.7TiO3 as a potential anode material for SOFCs. Journal of Materials Chemistry A, 2013 , 1, 5868	13	45	
357	Homogeneous Doping of Substitutional Nitrogen/Carbon in TiO2 Plates for Visible Light Photocatalytic Water Oxidation. <i>Advanced Functional Materials</i> , 2019 , 29, 1901943	15.6	44	
356	Nature and extent of oxygen nonstoichiometry in Bi2Sr2CaCu2O8+\(\mathbb{I}\)Journal of Solid State Chemistry, 1990 , 87, 29-34	3.3	44	
355	Structural and electrical properties of calcium and strontium hydrides. <i>Journal of Materials Chemistry</i> , 2009 , 19, 2766		43	
354	Co-doping of scandia-zirconia electrolytes for SOFCs. <i>Faraday Discussions</i> , 2007 , 134, 41-9; discussion 103-18, 415-9	3.6	43	
353	Structural Chemistry and Conductivity of a Solid Solution of YBa1-xSrxCo2O5+\(\mathbb{I}\)Journal of Physical Chemistry C, 2007 , 111, 19120-19125	3.8	43	
352	Hydrogen titanates as potential proton conducting fuel cell electrolytes. <i>Solid State Ionics</i> , 2000 , 136-137, 297-303	3.3	43	
351	Equation of motion of domain walls and equivalent circuits in soft ferromagnetic materials. <i>Journal of Applied Physics</i> , 1994 , 75, 7000-7002	2.5	43	
350	Effects of thermal annealing on the magnetization dynamics of vitrovac amorphous ribbons. Journal of Applied Physics, 1992, 72, 1486-1489	2.5	42	

349	Modeling of CH4-assisted SOEC for H2O/CO2 co-electrolysis. <i>International Journal of Hydrogen Energy</i> , 2016 , 41, 21839-21849	6.7	42
348	Smart utilization of cobaltite-based double perovskite cathodes on barrier-layer-free zirconia electrolyte of solid oxide fuel cells. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 19019-19025	13	41
347	The cyclic voltammetry of some sulphonated transition metal phthalocyanines in dimethylsulphoxide and in water. <i>Journal of Electroanalytical Chemistry and Interfacial Electrochemistry</i> , 1989 , 271, 161-172		39
346	Cellulose II as bioethanol feedstock and its advantages over native cellulose. <i>Renewable and Sustainable Energy Reviews</i> , 2017 , 77, 182-192	16.2	38
345	Substitutional Carbon-Modified Anatase TiO Decahedral Plates Directly Derived from Titanium Oxalate Crystals via Topotactic Transition. <i>Advanced Materials</i> , 2018 , 30, e1705999	24	38
344	Nickel nanocatalyst exsolution from (La,Sr) (Cr,M,Ni)O3 (MMn,Fe) perovskites for the fuel oxidation layer of Oxygen Transport Membranes. <i>Solid State Ionics</i> , 2016 , 288, 120-123	3.3	38
343	Doped tin oxides as potential lithium ion battery negative electrodes. <i>Ionics</i> , 1999 , 5, 450-454	2.7	38
342	Development of tubular hybrid direct carbon fuel cell. <i>International Journal of Hydrogen Energy</i> , 2012 , 37, 19337-19344	6.7	37
341	Electrolysis of CO2 in a proton conducting membrane. Solid State Ionics, 2013, 252, 157-164	3.3	37
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46	Characterization of Cuprate based Cathode Structures by AC Impedance. <i>ECS Transactions</i> , 2009 , 25, 2689-2698	1	2
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40	A study of (Y1⊠Cax)Ba2Cu306+Iby 89Y NMR. <i>Physica C: Superconductivity and Its Applications</i> , 1994 , 235-240, 1585-1586	1.3	2
39	Impedance Spectroscopy of Ferromagnetic Materials. <i>Materials Research Society Symposia Proceedings</i> , 1995 , 411, 39		2
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37	Enhanced CO2 Electrolysis at Redox Engineered Interfaces. ECS Transactions, 2019, 91, 2565-2570	1	1
36	Crystal structure of A-site deficient La0.2Sr0.7-xCaxTiO3 perovskite at ambient conditions and high temperatures: a neutron powder diffraction study. <i>Dalton Transactions</i> , 2015 , 44, 10828-33	4.3	1
35	Atomic Layer Fluorination of 5 V Class Positive Electrode Material LiCoPO4 for Enhanced Electrochemical Performance. <i>Batteries and Supercaps</i> , 2020 , 3, 1051-1058	5.6	1
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27	Lithiation of V2O3(SO4)2 h flexible insertion host. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 19502-195	123	1
26	Pd and GDC Co-infiltrated LSCM cathode for high-temperature CO2 electrolysis using solid oxide electrolysis cells. <i>Chemical Engineering Journal</i> , 2021 , 420, 127706	14.7	1

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