

John T S Irvine

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

492
papers

25,056
citations

74
h-index

141
g-index

519
ext. papers

27,980
ext. citations

7.5
avg, IF

7.4
L-index

#	Paper	IF	Citations
492	High-performance and durable alcohol-fueled symmetrical solid oxide fuel cell based on ferrite perovskite electrode. <i>Applied Energy</i> , 2022 , 306, 118117	10.7	0
491	Iron-based electrode materials for solid oxide fuel cells and electrolyzers. <i>Energy and Environmental Science</i> , 2021 , 14, 6287-6319	35.4	1
490	Achieving Strong Coherency for a Composite Electrode via One-Pot Method with Enhanced Electrochemical Performance in Reversible Solid Oxide Cells. <i>ACS Catalysis</i> , 2021 , 11, 3704-3714	13.1	9
489	Non-stoichiometry, structure and properties of proton-conducting perovskite oxides. <i>Solid State Ionics</i> , 2021 , 361, 115571	3.3	8
488	Platinum incorporation into titanate perovskites to deliver emergent active and stable platinum nanoparticles. <i>Nature Chemistry</i> , 2021 , 13, 677-682	17.6	16
487	Enhancing Electrochemical CO ₂ Reduction using Ce(Mn,Fe)O ₂ with La(Sr)Cr(Mn)O ₃ Cathode for High-Temperature Solid Oxide Electrolysis Cells. <i>Advanced Energy Materials</i> , 2021 , 11, 2100339	21.8	10
486	Time-resolved in-situ x-ray diffraction study of CaO and CaO:Ca ₃ Al ₂ O ₆ composite catalysts for biodiesel production. <i>JPhys Energy</i> , 2021 , 3, 034014	4.9	
485	2021 roadmap for sodium-ion batteries. <i>JPhys Energy</i> , 2021 , 3, 031503	4.9	24
484	Pd and GDC Co-infiltrated LSCM cathode for high-temperature CO ₂ electrolysis using solid oxide electrolysis cells. <i>Chemical Engineering Journal</i> , 2021 , 420, 127706	14.7	1
483	Activation of anion redox in P3 structure cobalt-doped sodium manganese oxide via introduction of transition metal vacancies. <i>Journal of Power Sources</i> , 2021 , 481, 229010	8.9	6
482	Carrier extraction from metallic perovskite oxide nanoparticles. <i>Nanoscale</i> , 2021 , 13, 12271-12278	7.7	
481	Durability of La _{0.20} Sr _{0.25} Ca _{0.45} TiO ₃ -based SOFC anodes: identifying sources of degradation in Ni and Pt/ceria co-impregnated fuel electrode microstructures. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 10404-10418	13	1
480	Upscaling of Co-Impregnated La _{0.20} Sr _{0.25} Ca _{0.45} TiO ₃ Anodes for Solid Oxide Fuel Cells: A Progress Report on a Decade of Academic-Industrial Collaboration. <i>Advanced Energy Materials</i> , 2021 , 11, 2003951	21.8	3
479	Roadmap on inorganic perovskites for energy applications. <i>JPhys Energy</i> , 2021 , 3, 031502	4.9	13
478	Use of Interplay between A-Site Non-Stoichiometry and Hydroxide Doping to Deliver Novel Proton-Conducting Perovskite Oxides. <i>Advanced Energy Materials</i> , 2021 , 11, 2101337	21.8	1
477	Development of the Ca/FeS ₂ Chemistry for Thermal Batteries. <i>Chemistry of Materials</i> , 2021 , 33, 7367-7378	9.8	1
476	Improved mechanical strength, proton conductivity and power density in an 'all-protonic' ceramic fuel cell at intermediate temperature. <i>Scientific Reports</i> , 2021 , 11, 19382	4.9	6

475	Atomic Layer Fluorination of 5 V Class Positive Electrode Material LiCoPO ₄ for Enhanced Electrochemical Performance. <i>Batteries and Supercaps</i> , 2020 , 3, 1051-1058	5.6	1
474	Perovskites: Replacement of Ca by Ni in a Perovskite Titanate to Yield a Novel Perovskite Exsolution Architecture for Oxygen-Evolution Reactions (Adv. Energy Mater. 10/2020). <i>Advanced Energy Materials</i> , 2020 , 10, 2070044	21.8	4
473	High oxide ion and proton conductivity in a disordered hexagonal perovskite. <i>Nature Materials</i> , 2020 , 19, 752-757	27	52
472	Evaluating sulfur-tolerance of metal/Ce _{0.80} Gd _{0.20} O _{1.90} co-impregnated La _{0.20} Sr _{0.25} Ca _{0.45} TiO ₃ anodes for solid oxide fuel cells. <i>Solid State Ionics</i> , 2020 , 347, 115254	3.3	5
471	Controlling the Energy-Level Alignment of Silicon Carbide Nanocrystals by Combining Surface Chemistry with Quantum Confinement. <i>Journal of Physical Chemistry Letters</i> , 2020 , 11, 1721-1728	6.4	7
470	Bandgap bowing in a zero-dimensional hybrid halide perovskite derivative: spin-orbit coupling versus lattice strain. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 4416-4427	13	10
469	Gasification of Glycerol Over Ni/Al ₂ O ₃ For Hydrogen Production: Tailoring Catalytic Properties to Control Deactivation. <i>Catalysis for Sustainable Energy</i> , 2020 , 7, 65-74	0.6	0
468	2020 roadmap on solid-state batteries. <i>JPhys Energy</i> , 2020 , 2, 032008	4.9	31
467	Insight into graphite oxidation in a NiO-based hybrid direct carbon fuel cell. <i>International Journal of Hydrogen Energy</i> , 2020 , 45, 10559-10568	6.7	1
466	Synthesis and electrochemical characterization of La _{0.75} Sr _{0.25} Mn _{0.5} Cr _{0.5-x} Al _x O ₃ for IT- and HT-SOFCs. <i>International Journal of Applied Ceramic Technology</i> , 2020 , 17, 1276-1285	2	0
465	An FeNbO ₄ -based oxide anode for a solid oxide fuel cell (SOFC). <i>Electrochimica Acta</i> , 2020 , 335, 135692	6.7	5
464	All in one photo-reactor pod containing TiO ₂ coated glass beads and LEDs for continuous photocatalytic destruction of cyanotoxins in water. <i>Environmental Science: Water Research and Technology</i> , 2020 , 6, 945-950	4.2	6
463	Oxygen Redox Activity through a Reductive Coupling Mechanism in the P3-Type Nickel-Doped Sodium Manganese Oxide. <i>ACS Applied Energy Materials</i> , 2020 , 3, 184-191	6.1	26
462	Vacancy-Enhanced Oxygen Redox Reversibility in P3-Type Magnesium-Doped Sodium Manganese Oxide Na _{0.67} Mg _{0.2} Mn _{0.8} O ₂ . <i>ACS Applied Energy Materials</i> , 2020 , 3, 10423-10434	6.1	8
461	Photocatalytic removal of the cyanobacterium <i>Microcystis aeruginosa</i> PCC7813 and four microcystins by TiO ₂ coated porous glass beads with UV-LED irradiation. <i>Science of the Total Environment</i> , 2020 , 745, 141154	10.2	17
460	Boosting CO ₂ electrolysis performance via calcium-oxide-looping combined with in situ exsolved NiFe nanoparticles in a symmetrical solid oxide electrolysis cell. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 14895-14899	13	14
459	A New High-Performance Proton-Conducting Electrolyte for Next-Generation Solid Oxide Fuel Cells. <i>Energy Technology</i> , 2020 , 8, 2000486	3.5	6
458	A Ce/Ru Codoped SrFeO ₃ Perovskite for a Coke-Resistant Anode of a Symmetrical Solid Oxide Fuel Cell. <i>ACS Catalysis</i> , 2020 , 10, 14398-14409	13.1	21

457	Exsolution of Catalytically Active Iridium Nanoparticles from Strontium Titanate. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 37444-37453	9.5	9
456	Reversible, all-perovskite SOFCs based on La, Sr gallates. <i>International Journal of Hydrogen Energy</i> , 2020 , 45, 29155-29165	6.7	2
455	Effect of halide-mixing on tolerance factor and charge-carrier dynamics in (CH ₃ NH ₃ PbBr _{3-x} Cl _x) perovskites powders. <i>Journal of Materials Science: Materials in Electronics</i> , 2020 , 31, 19415-19428	2.1	1
454	Lithiation of V ₂ O ₃ (SO ₄) ₂ as flexible insertion host. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 19502-19512	2.3	1
453	Replacement of Ca by Ni in a Perovskite Titanate to Yield a Novel Perovskite Exsolution Architecture for Oxygen-Evolution Reactions. <i>Advanced Energy Materials</i> , 2020 , 10, 1903693	21.8	29
452	Enhanced CO ₂ Electrolysis at Redox Engineered Interfaces. <i>ECS Transactions</i> , 2019 , 91, 2565-2570	1	1
451	Recent Advances in Rh/CGO Co-Impregnated La _{0.20} Sr _{0.25} Ca _{0.45} TiO ₃ Anodes for Solid Oxide Fuel Cells: Evaluation of Upscaling and Durability. <i>ECS Transactions</i> , 2019 , 91, 1741-1750	1	2
450	Exsolution of Fe/Ni alloy nanoparticles from (La,Sr)(Cr,Fe,Ni)O ₃ perovskites as potential oxygen transport membrane catalysts for methane reforming. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 15812-15822	13	33
449	Simultaneous CO ₂ removal from biomass conversion product gas and carbon nanotube formation via catalytic chemical vapour deposition. <i>Sustainable Energy and Fuels</i> , 2019 , 3, 2604-2614	5.8	0
448	Room temperature demonstration of a sodium superionic conductor with grain conductivity in excess of 0.01 S cm ⁻¹ and its primary applications in symmetric battery cells. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 7766-7776	13	57
447	Electrical reduction of perovskite electrodes for accelerating exsolution of nanoparticles. <i>Electrochimica Acta</i> , 2019 , 306, 159-166	6.7	16
446	Boosting photocatalytic oxidation on graphitic carbon nitride for efficient photocatalysis by heterojunction with graphitic carbon units. <i>Chemical Engineering Journal</i> , 2019 , 370, 875-884	14.7	18
445	Preparation and Testing of Metal/Ce _{0.80} Gd _{0.20} O _{1.90} (Metal: Ni, Pd, Pt, Rh, Ru) Co-Impregnated La _{0.20} Sr _{0.25} Ca _{0.45} TiO ₃ Anode Microstructures for Solid Oxide Fuel Cells. <i>Journal of the Electrochemical Society</i> , 2019 , 166, F343-F349	3.9	8
444	Homogeneous Doping of Substitutional Nitrogen/Carbon in TiO ₂ Plates for Visible Light Photocatalytic Water Oxidation. <i>Advanced Functional Materials</i> , 2019 , 29, 1901943	15.6	44
443	Lattice strain-enhanced exsolution of nanoparticles in thin films. <i>Nature Communications</i> , 2019 , 10, 14711	17.4	66
442	Enhanced carbon dioxide electrolysis at redox manipulated interfaces. <i>Nature Communications</i> , 2019 , 10, 1550	17.4	36
441	Investigation of solid base catalysts for biodiesel production from fish oil. <i>Renewable Energy</i> , 2019 , 139, 661-669	8.1	26
440	Oxygen storage capacity and thermal stability of brownmillerite-type Ca ₂ (Al _{1-x} Ga _x)MnO _{5+δ} oxides. <i>Journal of Alloys and Compounds</i> , 2019 , 810, 151865	5.7	5

439	Evolution of Anodic Product from Molybdenum Metal in Absolute Ethanol and Humidity Sensing under Ambient Conditions. <i>Crystal Growth and Design</i> , 2019 , 19, 5249-5257	3.5	8
438	In Situ Thermal Battery Discharge Using CoS ₂ as a Cathode Material. <i>Journal of the Electrochemical Society</i> , 2019 , 166, A2660-A2664	3.9	9
437	Using cellulose polymorphs for enhanced hydrogen production from photocatalytic reforming. <i>Sustainable Energy and Fuels</i> , 2019 , 3, 1971-1975	5.8	9
436	Photo-catalytic hydrogen production over Au/g-CN: effect of gold particle dispersion and morphology. <i>Physical Chemistry Chemical Physics</i> , 2019 , 21, 15974-15987	3.6	13
435	Enhanced Cycling Performance of Magnesium-Doped Lithium Cobalt Phosphate. <i>ChemElectroChem</i> , 2019 , 6, 4885-4892	4.3	1
434	Nanostructured Perovskite Solar Cells. <i>Nanomaterials</i> , 2019 , 9,	5.4	9
433	Hexagonal perovskite related oxide ion conductor Ba ₃ NbMoO _{8.5} : phase transition, temperature evolution of the local structure and properties. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 25503-25510	13	15
432	Nanostructured carbons containing FeNi/NiFeO supported over N-doped carbon nanofibers for oxygen reduction and evolution reactions.. <i>RSC Advances</i> , 2019 , 9, 36586-36599	3.7	7
431	A B-site doped perovskite ferrate as an efficient anode of a solid oxide fuel cell with in situ metal exsolution. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 26944-26953	13	24
430	Layered lithium niobium (III) oxide LiNbO ₂ as a visible-light-driven photocatalyst for H ₂ evolution. <i>JPhys Energy</i> , 2019 , 1, 015001	4.9	3
429	Control of Spatially Homogeneous Distribution of Heteroatoms to Produce Red TiO Photocatalyst for Visible-Light Photocatalytic Water Splitting. <i>Chemistry - A European Journal</i> , 2019 , 25, 1787-1794	4.8	21
428	Sulfur-Tolerant, Exsolved FeNi Alloy Nanoparticles for CO Oxidation. <i>Topics in Catalysis</i> , 2019 , 62, 1149-1156	11.56	21
427	Mechanism of enhanced performance on a hybrid direct carbon fuel cell using sawdust biofuels. <i>Journal of Power Sources</i> , 2018 , 383, 10-16	8.9	17
426	Experimental and modeling study of high performance direct carbon solid oxide fuel cell with in situ catalytic steam-carbon gasification reaction. <i>Journal of Power Sources</i> , 2018 , 382, 135-143	8.9	31
425	Microstructure dependence of performance degradation for intermediate temperature solid oxide fuel cells based on the metallic catalyst infiltrated La- and Ca-doped SrTiO ₃ anode support. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 5398-5406	13	10
424	A novel in situ diffusion strategy to fabricate high performance cathodes for low temperature proton-conducting solid oxide fuel cells. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 10411-10420	13	27
423	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
422	Synthesis and applications of nanoporous perovskite metal oxides. <i>Chemical Science</i> , 2018 , 9, 3623-3637	9.4	82

4 ²¹	Microplasma-assisted electrochemical synthesis of Co ₃ O ₄ nanoparticles in absolute ethanol for energy applications. <i>Green Chemistry</i> , 2018 , 20, 2101-2109	10	30
4 ²⁰	Maximizing the visible light photoelectrochemical activity of B/N-doped anatase TiO ₂ microspheres with exposed dominant {001} facets. <i>Science China Materials</i> , 2018 , 61, 831-838	7.1	11
4 ¹⁹	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
4 ¹⁸	Electrochemical properties of composite cathodes using Sm doped layered perovskite for intermediate temperature-operating solid oxide fuel cell. <i>Applied Surface Science</i> , 2018 , 432, 272-277	6.7	4
4 ¹⁷	Probing the structure-property-composition relationship in organic-inorganic tri-halide perovskites. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 20489-20496	3.6	2
4 ¹⁶	Image analysis of the porous yttria-stabilized zirconia (YSZ) structure for a lanthanum ferrite-impregnated solid oxide fuel cell (SOFC) electrode. <i>Journal of the European Ceramic Society</i> , 2018 , 38, 5463-5470	6	8
4 ¹⁵	Tailoring SOFC Electrode Microstructures for Improved Performance. <i>Advanced Energy Materials</i> , 2018 , 8, 1800120	21.8	92
4 ¹⁴	Role of lattice distortion and A site cation in the phase transitions of methylammonium lead halide perovskites. <i>Physical Review Materials</i> , 2018 , 2,	3.2	16
4 ¹³	Metal-oxide interactions for infiltrated Ni nanoparticles on A-site deficient La _x Sr _{1-x} B _x /2TiO ₃ . <i>Solid State Ionics</i> , 2018 , 315, 126-130	3.3	7
4 ¹²	Scaling up aqueous processing of A-site deficient strontium titanate for SOFC anode supports. <i>Journal of the European Ceramic Society</i> , 2018 , 38, 1663-1672	6	3
4 ¹¹	Transition Metal Chlorides NiCl ₂ , KNiCl ₃ , Li ₆ VCl ₈ and Li ₂ MnCl ₄ as Alternative Cathode Materials in Primary Li Thermal Batteries. <i>Journal of the Electrochemical Society</i> , 2018 , 165, A3510-A3516	3.9	13
4 ¹⁰	Improved electrochemical performance of LiCoPO ₄ using eco-friendly aqueous binders. <i>Journal of Power Sources</i> , 2018 , 403, 11-19	8.9	13
4 ⁰⁹	In-situ Studies of High Temperature Thermal Batteries: A Perspective. <i>Frontiers in Energy Research</i> , 2018 , 6,	3.8	5
4 ⁰⁸	Interface formation and Mn segregation of directly assembled La _{0.8} Sr _{0.2} MnO ₃ cathode on Y ₂ O ₃ -ZrO ₂ and Gd ₂ O ₃ -CeO ₂ electrolytes of solid oxide fuel cells. <i>Solid State Ionics</i> , 2018 , 325, 176-188	3.3	14
4 ⁰⁷	Corn-cob like nanofibres as cathode catalysts for an effective microstructure design in solid oxide fuel cells. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 3966-3973	13	22
4 ⁰⁶	Spinel-based coatings for metal supported solid oxide fuel cells. <i>Materials Research Bulletin</i> , 2017 , 89, 232-244	5.1	10
4 ⁰⁵	Wet chemical synthesis and characterisation of Ba _{0.5} Sr _{0.5} Ce _{0.6} Zr _{0.2} Gd _{0.1} Y _{0.1} O _{3-δ} proton conductor. <i>Solid State Ionics</i> , 2017 , 303, 52-57	3.3	17
4 ⁰⁴	Direct methane solid oxide fuel cells based on catalytic partial oxidation enabling complete coking tolerance of Ni-based anodes. <i>Journal of Power Sources</i> , 2017 , 345, 30-40	8.9	30

403	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
402	Robust doped BaCeO ₃ -electrolyte for IT-SOFCs. <i>Ionics</i> , 2017 , 23, 2387-2396	2.7	10
401	Investigation of the Relationship between the Structure and Conductivity of the Novel Oxide Ionic Conductor Ba ₃ MoNbO _{8.5} . <i>Chemistry of Materials</i> , 2017 , 29, 4146-4152	9.6	33
400	Challenges in developing direct carbon fuel cells. <i>Chemical Society Reviews</i> , 2017 , 46, 2889-2912	58.5	120
399	Development of Robust Metal-Supported SOFCs and Stack Components in EU METSAPP Consortium. <i>Fuel Cells</i> , 2017 , 17, 508-516	2.9	9
398	In-Situ Thermal Battery Discharge using NiS ₂ as a Cathode Material. <i>ChemElectroChem</i> , 2017 , 4, 1916-1923	1.3	15
397	Novel layered perovskite SmBaMn ₂ O ₅ for SOFCs anode material. <i>Materials Letters</i> , 2017 , 204, 129-133	3.3	12
396	Electrochemical performance of different carbon fuels on a hybrid direct carbon fuel cell. <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 16279-16287	6.7	19
395	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
394	Modification of LSCMDC cathodes to enhance performance for high temperature CO ₂ electrolysis using solid oxide electrolysis cells (SOECs). <i>Journal of Materials Chemistry A</i> , 2017 , 5, 7081-7090	13.0	45
393	Mixing regime simulation and cellulose particle tracing in a stacked frame photocatalytic reactor. <i>Chemical Engineering Journal</i> , 2017 , 313, 301-308	14.7	4
392	Fuel Cells and the Hydrogen Economy. <i>World Scientific Series in Current Energy Issues</i> , 2017 , 215-247	0.2	
391	Development and Testing of Impregnated La _{0.20} Sr _{0.25} Ca _{0.45} TiO ₃ Anode Microstructures for Solid Oxide Fuel Cells. <i>ECS Transactions</i> , 2017 , 78, 1385-1395	1	5
390	Charge carrier localised in zero-dimensional (CHNH)BiI clusters. <i>Nature Communications</i> , 2017 , 8, 170	17.4	48
389	La and Ca-Doped A-Site Deficient Strontium Titanates Anode for Electrolyte Supported Direct Methane Solid Oxide Fuel Cell. <i>Journal of the Electrochemical Society</i> , 2017 , 164, F1030-F1036	3.9	10
388	Promoting photocatalytic H ₂ evolution by tuning cation deficiency in La and Cr co-doped SrTiO ₃ . <i>Chemical Communications</i> , 2017 , 53, 10038-10041	5.8	22
387	Demonstration of chemistry at a point through restructuring and catalytic activation at anchored nanoparticles. <i>Nature Communications</i> , 2017 , 8, 1855	17.4	87
386	Zero-dimensional methylammonium iodo bismuthate solar cells and synergistic interactions with silicon nanocrystals. <i>Nanoscale</i> , 2017 , 9, 18759-18771	7.7	17

385	Infiltrated $\text{La}_{0.4}\text{Sr}_{0.4}\text{Fe}_{0.03}\text{Ni}_{0.03}\text{Ti}_{0.94}\text{O}_3$ based anodes for all ceramic and metal supported solid oxide fuel cells. <i>Journal of Power Sources</i> , 2017 , 372, 99-106	8.9	12
384	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
383	Electrocatalytic ammonia synthesis via a proton conducting oxide cell with $\text{BaCe}_{0.5}\text{Zr}_{0.3}\text{Y}_{0.16}\text{Zn}_{0.04}\text{O}_{3-\delta}$ electrolyte membrane. <i>Catalysis Today</i> , 2017 , 286, 41-50	5.3	17
382	Electrochemical properties and durability of in-situ composite cathodes with $\text{SmBa}_{0.5}\text{Sr}_{0.5}\text{Co}_2\text{O}_{5+\delta}$ for metal supported solid oxide fuel cells. <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 1212-1220	6.7	10
381	Impact of the annealing temperature on Pt/g-C ₃ N ₄ structure, activity and selectivity between photodegradation and water splitting. <i>Catalysis Today</i> , 2017 , 287, 182-188	5.3	50
380	Fuel Cells and the Hydrogen Economy. <i>World Scientific Series in Current Energy Issues</i> , 2017 , 215-247	0.2	
379	Switching on electrocatalytic activity in solid oxide cells. <i>Nature</i> , 2016 , 537, 528-531	50.4	276
378	Zirconium Trisulfide as a Promising Cathode Material for Li Primary Thermal Batteries. <i>Journal of the Electrochemical Society</i> , 2016 , 163, A3126-A3130	3.9	22
377	Improvements of energy conversion and storage: general discussion. <i>Faraday Discussions</i> , 2016 , 190, 291-306	3.6	4
376	Benefits to energy efficiency and environmental impact: general discussion. <i>Faraday Discussions</i> , 2016 , 190, 161-204	3.6	2
375	Advancement in knowledge of phenomena and processes: general discussion. <i>Faraday Discussions</i> , 2016 , 190, 525-49	3.6	
374	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
373	Evolution of the electrochemical interface in high-temperature fuel cells and electrolyzers. <i>Nature Energy</i> , 2016 , 1,	62.3	418
372	$\text{La}_{1.7}\text{Ca}_{0.3}\text{Ni}_{0.75}\text{Cu}_{0.25}\text{O}_4$ -Layered Perovskite as Cathode on $\text{La}_{0.9}\text{Sr}_{0.1}\text{Ga}_{0.8}\text{Mg}_{0.2}\text{O}_3$ or $\text{Ce}_{0.8}\text{Gd}_{0.2}\text{O}_2$ Electrolyte for Intermediate Temperature Solid Oxide Fuel Cells. <i>International Journal of Applied Ceramic Technology</i> , 2016 , 13, 269-273	2	7
371	Development of novel anode material for intermediate temperature SOFC (IT-SOFC). <i>Journal of Materials Chemistry A</i> , 2016 , 4, 11117-11123	13	26
370	Demonstration of high performance in a perovskite oxide supported solid oxide fuel cell based on La and Ca co-doped SrTiO_3 . <i>Journal of Materials Chemistry A</i> , 2016 , 4, 11708-11718	13	35
369	Enhanced Photocatalytic H ₂ Production in Core-Shell Engineered Rutile TiO ₂ . <i>Advanced Materials</i> , 2016 , 28, 5850-6	24	152
368	Flux investigations on composite $(\text{La}_{0.8}\text{Sr}_{0.2})_{0.95}\text{Cr}_{0.5}\text{Fe}_{0.5}\text{O}_3$ / $\text{Ba}_{0.198}\text{Ce}_{0.012}\text{Zr}_{0.789}\text{O}_{1.90}$ oxygen transport membranes. <i>Solid State Ionics</i> , 2016 , 288, 338-341	3.3	6

367	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
366	Wetting and interactions of Ag ₂ Ti and Ag ₂ Ni alloys with ceramic and steel substrates for use as sealing materials in a DCFC stack. <i>Journal of Materials Science</i> , 2016 , 51, 1766-1778	4.3	13
365	Nickel nanocatalyst exsolution from (La,Sr) (Cr,M,Ni)O ₃ (MMn,Fe) perovskites for the fuel oxidation layer of Oxygen Transport Membranes. <i>Solid State Ionics</i> , 2016 , 288, 120-123	3.3	38
364	Studies on the crystal structure, magnetic and conductivity properties of titanium oxycarbide solid solution (TiO _{1-x} C _x). <i>Journal of Materials Chemistry A</i> , 2016 , 4, 5730-5736	13	15
363	Energy band diagram of device-grade silicon nanocrystals. <i>Nanoscale</i> , 2016 , 8, 6623-8	7.7	18
362	Anodes 2016 , 133-160		5
361	Application of infiltrated LSCM-GDC oxide anode in direct carbon/coal fuel cells. <i>Faraday Discussions</i> , 2016 , 190, 269-89	3.6	18
360	Studies of current collection configurations and sealing for tubular hybrid-DCFC. <i>International Journal of Hydrogen Energy</i> , 2016 , 41, 18788-18796	6.7	7
359	The application of a novel fluidised photo reactor under UV/visible and natural solar irradiation in the photocatalytic generation of hydrogen. <i>Chemical Engineering Journal</i> , 2016 , 286, 610-621	14.7	29
358	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
357	Oxide Ion Conductivity in the Hexagonal Perovskite Derivative BaMoNbO. <i>Journal of the American Chemical Society</i> , 2016 , 138, 16764-16769	16.4	57
356	Modeling of CH ₄ -assisted SOEC for H ₂ O/CO ₂ co-electrolysis. <i>International Journal of Hydrogen Energy</i> , 2016 , 41, 21839-21849	6.7	42
355	Comparative study of durability of hybrid direct carbon fuel cells with anthracite coal and bituminous coal. <i>International Journal of Hydrogen Energy</i> , 2016 , 41, 18797-18806	6.7	15
354	In Situ Growth of Nanoparticles in Layered Perovskite La _{0.8} Sr _{1.2} Fe _{0.9} Co _{0.1} O _{4-δ} as an Active and Stable Electrode for Symmetrical Solid Oxide Fuel Cells. <i>Chemistry of Materials</i> , 2016 , 28, 2981-2993	9.6	109
353	Inorganic perovskite photocatalysts for solar energy utilization. <i>Chemical Society Reviews</i> , 2016 , 45, 5951-5984	15.3	318
352	Role of coal characteristics in the electrochemical behaviour of hybrid direct carbon fuel cells. <i>Energy and Environmental Science</i> , 2016 , 9, 2868-2880	35.4	36
351	A perspective on liquid salts for energy and materials. <i>Faraday Discussions</i> , 2016 , 190, 551-9	3.6	3
350	Study on Direct Flame Solid Oxide Fuel Cell Using Flat Burner and Ethylene Flame. <i>ECS Transactions</i> , 2015 , 68, 1989-1999	1	12

349	Macro-mesoporous resorcinol-formaldehyde polymer resins as amorphous metal-free visible light photocatalysts. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 15413-15419	13	33
348	Enhancement of redox stability and electrical conductivity by doping various metals on ceria, Ce _{1-x} MxO ₂ (M = Ni, Cu, Co, Mn, Ti, Zr). <i>International Journal of Hydrogen Energy</i> , 2015 , 40, 12003-12008	6.7	32
347	Structural Investigation of Graphitic Carbon Nitride via XRD and Neutron Diffraction. <i>Chemistry of Materials</i> , 2015 , 27, 2612-2618	9.6	346
346	Ce(Mn,Fe)O ₂ (La,Sr)(Fe,Mn)O ₃ composite as an active cathode for electrochemical reduction of CO ₂ in proton conducting solid oxide cells. <i>Solid State Ionics</i> , 2015 , 275, 106-109	3.3	15
345	Crystal structure of A-site deficient La _{0.2} Sr _{0.7-x} Ca _x TiO ₃ perovskite at ambient conditions and high temperatures: a neutron powder diffraction study. <i>Dalton Transactions</i> , 2015 , 44, 10828-33	4.3	1
344	Facile structure design based on C ₃ N ₄ for mediator-free Z-scheme water splitting under visible light. <i>Catalysis Science and Technology</i> , 2015 , 5, 3416-3422	5.5	77
343	The effect of Pt NPs crystallinity and distribution on the photocatalytic activity of Pt-g-C ₃ N ₄ . <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 13929-36	3.6	68
342	Oxygen deficient layered double perovskite as an active cathode for CO ₂ electrolysis using a solid oxide conductor. <i>Faraday Discussions</i> , 2015 , 182, 227-39	3.6	56
341	Calcium manganite as oxygen electrode materials for reversible solid oxide fuel cell. <i>Faraday Discussions</i> , 2015 , 182, 289-305	3.6	15
340	H ₂ FC SUPERGEN: An overview of the Hydrogen and Fuel Cell research across the UK. <i>International Journal of Hydrogen Energy</i> , 2015 , 40, 5534-5543	6.7	18
339	Nano-socketed nickel particles with enhanced coking resistance grown in situ by redox exsolution. <i>Nature Communications</i> , 2015 , 6, 8120	17.4	438
338	In Situ Tailored Nickel Nano-Catalyst Layer for Internal Reforming Hydrocarbon Fueled SOFCs. <i>ECS Transactions</i> , 2015 , 68, 1121-1128	1	2
337	Development of Tailored Porous Microstructures for Infiltrated Catalyst Electrodes by Aqueous Tape Casting Methods. <i>ECS Transactions</i> , 2015 , 68, 2047-2056	1	7
336	Highly efficient, coking-resistant SOFCs for energy conversion using biogas fuels. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 19068-19076	13	26
335	Electrochemical Impedance Spectroscopy Investigation of the Anodic Functionalities and Processes in LSCM-CGO-Ni Systems. <i>ECS Transactions</i> , 2015 , 68, 2011-2018	1	6
334	Application of Exsolved Structures as a Route to More Robust Anodes for Improved Biogas Utilisation in SOFCs. <i>ECS Transactions</i> , 2015 , 68, 2029-2036	1	6
333	Screen Printed Porous La _{0.20} Sr _{0.25} Ca _{0.45} TiO ₃ Fuel Electrode Scaffold Microstructures: Optimisation of Interaction with Impregnated Catalysts for More Durable Performance. <i>ECS Transactions</i> , 2015 , 68, 1499-1508	1	5
332	Understanding of CO ₂ Electrochemical Reduction Reaction Process via High Temperature Solid Oxide Electrolysers. <i>ECS Transactions</i> , 2015 , 68, 3535-3551	1	6

331	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
330	High H ⁺ ionic conductivity in barium hydride. <i>Nature Materials</i> , 2015 , 14, 95-100	27	64
329	Synthesis and characterization of B-site doped La _{0.20} Sr _{0.25} Ca _{0.45} TiO ₃ as SOFC anode materials. <i>International Journal of Hydrogen Energy</i> , 2015 , 40, 760-766	6.7	22
328	Modified strontium titanates: from defect chemistry to SOFC anodes. <i>RSC Advances</i> , 2015 , 5, 1168-1180	3.7	65
327	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
326	Short Stack and Full System Test Using a Ceramic A-Site Deficient Strontium Titanate Anode. <i>Fuel Cells</i> , 2015 , 15, 682-688	2.9	15
325	Image Analysis and Modeling of the Orientation of Pores in a Constrained Film on a Rigid Substrate. <i>Journal of the American Ceramic Society</i> , 2015 , 98, 2403-2410	3.8	4
324	Hierarchically nanoporous La _{1.7} Ca _{0.3} CuO ₄ and La _{1.7} Ca _{0.3} NixCu _{1-x} O ₄ (0.25 ≤ x ≤ 0.75) as potential cathode materials for IT-SOFCs. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 13468-13475	13	31
323	Nano-composite structural NiSn alloy anodes for high performance and durability of direct methane-fueled SOFCs. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 13801-13806	13	36
322	Oxygen storage capacity and thermal stability of the CuMnO ₂ /CeO ₂ composite system. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 12958-12964	13	31
321	Fine-tuning B-site of a Chromite based Perovskite Catalyst for Steam Reforming of Glycerol. <i>Materials Research Society Symposia Proceedings</i> , 2015 , 1735, 39		
320	Organic Semiconductor g-C ₃ N ₄ Modified TiO ₂ Nanotube Arrays for Enhanced Photoelectrochemical Performance in Wastewater Treatment. <i>Energy Technology</i> , 2015 , 3, 982-988	3.5	33
319	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
318	A 60-Second Microwave-Assisted Synthesis of Nickel Foam and Its Application to the Impregnation of Porous Scaffolds. <i>Journal of the Electrochemical Society</i> , 2015 , 162, F273-F279	3.9	7
317	Membrane reactors for ammonia production 2015 , 543-563		2
316	Structural, electrochemical and magnetic characterization of the layered-type PrBa _{0.5} Sr _{0.5} Co ₂ O _{5+δ} perovskite. <i>Journal of Solid State Chemistry</i> , 2014 , 213, 268-274	3.3	14
315	X-ray photoelectron spectroscopy of Sm-doped layered perovskite for intermediate temperature-operating solid oxide fuel cell. <i>Applied Surface Science</i> , 2014 , 288, 695-701	6.7	26
314	Influence of atmosphere on redox structure of BaCe _{0.9} Y _{0.1} O _{2.95} insight from neutron diffraction study. <i>International Journal of Hydrogen Energy</i> , 2014 , 39, 12804-12811	6.7	30

313	Structure and properties of $MgM_xCr_{2-x}O_4$ ($M = Li, Mg, Ti, Fe, Cu, Ga$) spinels for electrode supports in solid oxide fuel cells. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 18106-18114	13	9
312	Fabrication and characterisation of a large-area solid oxide fuel cell based on dual tape cast YSZ electrode skeleton supported YSZ electrolytes with vanadate and ferrite perovskite-impregnated anodes and cathodes. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 19150-19155	13	29
311	Uniformly dispersed CdS/CdSe quantum dots co-sensitized TiO ₂ nanotube arrays with high photocatalytic property under visible light. <i>Materials Letters</i> , 2014 , 132, 231-235	3-3	16
310	Performance of Direct Carbon Fuel Cells Operated on Coal and Effect of Operation Mode. <i>Journal of the Electrochemical Society</i> , 2014 , 161, F588-F593	3-9	30
309	Application of Ternary Carbonate in Hybrid Direct Coal Fuel Cells. <i>ECS Transactions</i> , 2014 , 59, 281-288	1	5
308	Hybrid Molten Carbonate/Solid Oxide Direct Carbon Fuel Cells 2013 , 403-414		2
307	Perovskite Defect Chemistry as Exemplified by Strontium Titanate 2013 , 397-415		6
306	Hybrid Direct Carbon Fuel Cells with Different Types of Mineral Coal. <i>ECS Transactions</i> , 2013 , 57, 3013-3021		13
305	Synthesis and Electrochemical Characterization of $T^*La_{0.84}Sm_{0.96}Sr_{0.2}CuO_4$ as a Cathode Material for IT-SOFC. <i>ECS Transactions</i> , 2013 , 58, 93-99	1	
304	In situ growth of nanoparticles through control of non-stoichiometry. <i>Nature Chemistry</i> , 2013 , 5, 916-23	17.6	569
303	Improving the Performance of SOFC Anodes by Decorating Perovskite with Ni Nanoparticles. <i>ECS Transactions</i> , 2013 , 57, 1211-1216	1	2
302	Controllable Impregnation Via Inkjet Printing for the Fabrication of Solid Oxide Cell Air Electrodes. <i>ECS Transactions</i> , 2013 , 57, 1851-1857	1	8
301	A Solid Oxide Fuel Cell with Lanthanum and Calcium Co-Doped Strontium Titanate as Support. <i>ECS Transactions</i> , 2013 , 57, 1415-1422	1	2
300	Calculation of a Standard Reformed Biogas Composition and Testing on SOFC Anode Powders. <i>ECS Transactions</i> , 2013 , 57, 1527-1532	1	2
299	An investigation of crystal structure, surface area and surface chemistry of strontium niobate and their influence on photocatalytic performance. <i>Dalton Transactions</i> , 2013 , 42, 7880-7	4-3	16
298	Development and performance of $MgFeCrO_4$ based electrodes for solid oxide fuel cells. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 8262	13	10
297	Preparation via a solution method of $La_{0.2}Sr_{0.25}Ca_{0.45}TiO_3$ and its characterization for anode supported solid oxide fuel cells. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 14189	13	26
296	Ca-substituted, A-site deficient perovskite $La_{0.2}Sr_{0.7}TiO_3$ as a potential anode material for SOFCs. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 5868	13	45

295	Full Ceramic Fuel Cells Based on Strontium Titanate Anodes, an Approach towards More Robust SOFCs. <i>ECS Transactions</i> , 2013 , 57, 1175-1184	1	10
294	Photocatalytic H ₂ generation from spinels ZnFe ₂ O ₄ , ZnFeGaO ₄ and ZnGa ₂ O ₄ . <i>Catalysis Today</i> , 2013 , 199, 22-26	5.3	77
293	Spin-glass transition in La _{0.75} Sr _{0.25} Mn _{0.5} Cr _{0.5} Al _x O _{3-δ} perovskites. <i>Materials Research Bulletin</i> , 2013 , 48, 2482-2490	5.1	6
292	Pre-coating of LSCM perovskite with metal catalyst for scalable high performance anodes. <i>International Journal of Hydrogen Energy</i> , 2013 , 38, 9519-9524	6.7	28
291	Fabrication of anode-supported zirconia thin film electrolyte based core-shell particle structure for intermediate temperature solid oxide fuel cells. <i>Progress in Natural Science: Materials International</i> , 2013 , 23, 302-307	3.6	2
290	Synthesis of ammonia directly from air and water at ambient temperature and pressure. <i>Scientific Reports</i> , 2013 , 3, 1145	4.9	277
289	Alternative Materials for SOFCs, Opportunities and Limitations. <i>Green Energy and Technology</i> , 2013 , 163-180	1.80	3
288	Remarkable transition from rocksalt/perovskite layered structure to fluorite/rocksalt layered structure in rapidly cooled Ln ₂ UO ₇ . <i>Scientific Reports</i> , 2013 , 3, 1504	4.9	4
287	Electrolysis of CO ₂ in a proton conducting membrane. <i>Solid State Ionics</i> , 2013 , 252, 157-164	3.3	37
286	Scaling up of the hybrid direct carbon fuel cell technology. <i>International Journal of Hydrogen Energy</i> , 2013 , 38, 8497-8502	6.7	19
285	Development and Performance of MnFeCrO ₄ -Based Electrodes for Solid Oxide Fuel Cells. <i>Advanced Energy Materials</i> , 2013 , 3, 1454-1462	21.8	21
284	Scale Up and Anode Development for La-Doped SrTiO ₃ Anode-Supported SOFCs. <i>Journal of the American Ceramic Society</i> , 2013 , 96, 1718-1723	3.8	25
283	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
282	Fuel Cells and the Hydrogen Economy. <i>Materials and Energy</i> , 2013 , 427-454		
281	Ceramic proton conducting membranes for the electrochemical production of syngas. <i>Solid State Ionics</i> , 2012 , 216, 36-40	3.3	32
280	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
279	Syntheses and proton conductivity of mesoporous Nd ₂ O ₃ BiO ₂ and NdOClBiO ₂ composites. <i>Journal of Materials Science</i> , 2012 , 47, 2146-2154	4.3	10
278	Development of tubular hybrid direct carbon fuel cell. <i>International Journal of Hydrogen Energy</i> , 2012 , 37, 19337-19344	6.7	37

277	The catalytic effect of impregnated (La, Sr)(Ti, Mn)O _{3-δ} with CeO ₂ and Pd as potential anode materials in high temperature solid oxide fuel cells. <i>International Journal of Hydrogen Energy</i> , 2012 , 37, 14511-14517	6.7	13
276	(La,Sr)(Cr,Mn)O ₃ /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
275	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
274	A red metallic oxide photocatalyst. <i>Nature Materials</i> , 2012 , 11, 595-8	27	370
273	Modeling a Reversible Solid Oxide Fuel Cell as a Storage Device Within AC Power Networks. <i>Fuel Cells</i> , 2012 , 12, 773-786	2.9	14
272	Solid Oxide Fuel Cells 2012 , 261-276		3
271	Heteroatom-Modulated Switching of Photocatalytic Hydrogen and Oxygen Evolution Preferences of Anatase TiO ₂ Microspheres. <i>Advanced Functional Materials</i> , 2012 , 22, 3233-3238	15.6	114
270	Directly Imaging Interstitial Oxygen in Silicate Apatite. <i>Advanced Energy Materials</i> , 2012 , 2, 316-321	21.8	26
269	Ammonia and related chemicals as potential indirect hydrogen storage materials. <i>International Journal of Hydrogen Energy</i> , 2012 , 37, 1482-1494	6.7	613
268	Characterization of layered perovskite oxides NdBa _{1-x} Sr _x Co ₂ O _{5+δ} (x=0 and 0.5) as cathode materials for IT-SOFC. <i>International Journal of Hydrogen Energy</i> , 2012 , 37, 5920-5929	6.7	61
267	Evaluation of Ca Doped La _{0.2} Sr _{0.7} TiO ₃ as an Alternative Material for Use in SOFC Anodes. <i>Journal of the Electrochemical Society</i> , 2012 , 159, F757-F762	3.9	48
266	Impedance Studies on LSCM/GDC Cathode for High Temperature CO ₂ Electrolysis. <i>Electrochemical and Solid-State Letters</i> , 2012 , 15, B31		59
265	Impedance Studies on LSCM/GDC Composite Cathode for High Temperature CO ₂ Electrolysis. <i>ECS Transactions</i> , 2012 , 41, 87-95	1	7
264	Alternative Cathode Material for CO ₂ Reduction by High Temperature Solid Oxide Electrolysis Cells. <i>Journal of the Electrochemical Society</i> , 2012 , 159, F442-F448	3.9	120
263	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
262	Characterisation of conductivity of the (Ce _x Y _{0.2-x})Sc _{0.6} Zr _{3.2} O _{8-δ} Ceramics, 2012 , 58, 1-7	1	
261	The role of defect chemistry in strontium titanates utilised for high temperature steam electrolysis. <i>Journal of Materials Chemistry</i> , 2011 , 21, 9367		74
260	In Situ High-Temperature Neutron Diffraction Study of A-Site Deficient Perovskites with Transition Metals on the B-Sublattice and Structure-Conductivity Correlation. <i>Chemistry of Materials</i> , 2011 , 23, 1841-1850	9.6	16

259	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
258	Red-ox behaviour in the $\text{La}_{0.6}\text{Sr}_{0.4}\text{CoO}_{3-x}\text{CeO}_2$ system. <i>Journal of Materials Chemistry</i> , 2011 , 21, 15511		11
257	$\text{NbTi}_{0.5}\text{Ni}_{0.5}\text{O}_4$ as anode compound material for SOFCs. <i>Solid State Ionics</i> , 2011 , 197, 37-41	3.3	20
256	g-C ₃ N ₄ coated SrTiO ₃ as an efficient photocatalyst for H ₂ production in aqueous solution under visible light irradiation. <i>International Journal of Hydrogen Energy</i> , 2011 , 36, 13501-13507	6.7	202
255	Synthesis and characterization of chromium spinels as potential electrode support materials for intermediate temperature solid oxide fuel cells. <i>Journal of Materials Science</i> , 2011 , 46, 7191-7197	4.3	28
254	The $\text{La}_{0.95}\text{Ni}_{0.6}\text{Fe}_{0.4}\text{O}_{3-x}\text{CeO}_2$ system: Phase equilibria, crystal structure of components and transport properties. <i>Journal of Solid State Chemistry</i> , 2011 , 184, 1499-1504	3.3	6
253	La-doped SrTiO ₃ as anode material for IT-SOFC. <i>Solid State Ionics</i> , 2011 , 192, 491-493	3.3	75
252	Electrical properties of bulk and grain boundaries of scandia-stabilized zirconia co-doped with yttria and ceria. <i>Solid State Ionics</i> , 2011 , 192, 148-152	3.3	14
251	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
250	Structure, conductivity and redox reversibility of Ca-doped cerium metavanadate. <i>Journal of Materials Chemistry</i> , 2011 , 21, 8854		17
249	Novel redox reversible oxide, Sr-doped cerium orthovanadate to metavanadate. <i>Journal of Materials Chemistry</i> , 2011 , 21, 525-531		24
248	Direct synthesis of methane from CO ₂ /H ₂ O in an oxygen-ion conducting solid oxide electrolyser. <i>Energy and Environmental Science</i> , 2011 , 4, 2218	35.4	135
247	Electrochemical reduction of CO ₂ in a proton conducting solid oxide electrolyser. <i>Journal of Materials Chemistry</i> , 2011 , 21, 195-198		94
246	Symmetric and reversible solid oxide fuel cells. <i>RSC Advances</i> , 2011 , 1, 1403	3.7	187
245	Structural Disorder in Doped Zirconias, Part I: The $\text{Zr}_{0.8}\text{Sc}_{0.2-x}\text{Y}_x\text{O}_{1.9}$ (0.0 ≤ x ≤ 0.2) System. <i>Chemistry of Materials</i> , 2011 , 23, 1356-1364	9.6	60
244	Investigation of Microstructural and Electrochemical Properties of Impregnated (La,Sr)(Ti,Mn)O _{3-x} as a Potential Anode Material in High-Temperature Solid Oxide Fuel Cells. <i>Chemistry of Materials</i> , 2011 , 23, 3841-3847	9.6	34
243	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
242	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

241	Optimisation of the Solid Oxide Fuel Cell (SOFC) cathode material $\text{Ca}_3\text{Co}_4\text{O}_9$. <i>Journal of Power Sources</i> , 2011 , 196, 7328-7332	8.9	26
240	Structure-property relationship in layered perovskite cathode $\text{LnBa}_{0.5}\text{Sr}_{0.5}\text{Co}_2\text{O}_{5+\delta}$ (Ln = Pr, Nd) for solid oxide fuel cells. <i>Journal of Power Sources</i> , 2011 , 196, 7333-7337	8.9	36
239	Order and disorder in $\text{Ca}_2\text{Nd}_{0.90}\text{Hf}_{0.10}\text{A}$ structural and thermal study. <i>Journal of Solid State Chemistry</i> , 2011 , 184, 2088-2096	3.3	4
238	Transport properties of multi-cations doped cerium oxide. <i>Solid State Ionics</i> , 2011 , 184, 27-30	3.3	9
237	8YSZ/ $(\text{La}_{0.8}\text{Sr}_{0.2})_{0.95}\text{MnO}_3$ cathode performance at 1 bar oxygen pressures. <i>Solid State Ionics</i> , 2011 , 192, 394-397	3.3	8
236	Characterization of $\text{YSr}_2\text{Fe}_3\text{O}_8$ as electrode materials for SOFC. <i>Solid State Ionics</i> , 2011 , 192, 225-228	3.3	17
235	A structural study of the proton conducting B-site ordered perovskite $\text{Ba}_3\text{Ca}_{1.18}\text{Ta}_{1.82}\text{O}_{8.73}$. <i>Journal of Physics Condensed Matter</i> , 2011 , 23, 234111	1.8	7
234	Thermal Cycling Evaluation of Rolled Tubular Solid Oxide Fuel Cells. <i>Journal of Fuel Cell Science and Technology</i> , 2011 , 8,		4
233	Probing the superconducting ground state near the charge density wave phase transition in $\text{Cu}_{0.06}\text{TiSe}_2$. <i>Physical Review B</i> , 2010 , 81,	3.3	9
232	Crystal Structure, Oxygen Nonstoichiometry, and Conductivity of Mixed Ionic/Electronic Conducting Perovskite Composites with CeO_2 . <i>Journal of the Electrochemical Society</i> , 2010 , 157, B159	3.9	16
231	Design of Anode Materials for IT SOFC: Effect of Complex Oxide Promoters and Pt Group Metals on Activity and Stability in Methane Steam Reforming of Ni/YSZ (ScSZ) Cermets. <i>Journal of Fuel Cell Science and Technology</i> , 2010 , 7,		3
230	Electrochemical Investigation of Composite Cathodes with $\text{SmBa}_{0.5}\text{Sr}_{0.5}\text{Co}_2\text{O}_{5+\delta}$ Cathodes for Intermediate Temperature-Operating Solid Oxide Fuel Cell. <i>Chemistry of Materials</i> , 2010 , 22, 883-892	9.6	106
229	Conductivity Behavior of Composites in the $\text{La}_{0.6}\text{Sr}_{0.4}\text{CoO}_3$ - CeO_2 System: Function of Connectivity and Interfacial Interactions. <i>Chemistry of Materials</i> , 2010 , 22, 4700-4711	9.6	17
228	Intermediate temperature stable proton conductors based upon SnP_2O_7 , including additional H_3PO_4 . <i>Journal of Materials Chemistry</i> , 2010 , 20, 7827		32
227	A direct urea fuel cell power from fertiliser and waste. <i>Energy and Environmental Science</i> , 2010 , 3, 438	35.4	248
226	Characterisation of lower temperature sintered zinc-doped barium calcium niobate proton conducting electrolytes. <i>Journal of Materials Chemistry</i> , 2010 , 20, 8506		14
225	Structure and Properties of $\text{La}_{0.4}\text{Sr}_{0.4}\text{TiO}_3$ Ceramics for Use as Anode Materials in Solid Oxide Fuel Cells. <i>Chemistry of Materials</i> , 2010 , 22, 5042-5053	9.6	155
224	Synthesis and visible light photoactivity of a high temperature stable yellow TiO_2 photocatalyst. <i>Journal of Materials Chemistry</i> , 2010 , 20, 8700		27

223 A redox-stable efficient anode for solid-oxide fuel cells **2010**, 259-262

222 Advanced anodes for high-temperature fuel cells **2010**, 213-223

3

221 Electrochemical characteristics of cathodes based on perovskites modified by ceria. *Russian Journal of Electrochemistry*, **2010**, 46, 805-810

1.2 4

220 Synthesis and characterization of $(\text{Pr}_{0.75}\text{Sr}_{0.25})_{1-x}\text{Cr}_{0.5}\text{Mn}_{0.5}\text{O}_{3-x}$ as anode for SOFCs. *Solid State Ionics*, **2010**, 180, 1683-1689

3.3 14

219 Investigation of conductivity of $(\text{Ce}_x\text{Y}_{0.2-x})\text{Sc}_{0.6}\text{Zr}_{3.2}\text{O}_{8-x}$ Solid State Ionics, **2010**, 181, 1344-1348

3.3 7

218 Preparation and characterization of copper based cermet anodes for use in solid oxide fuel cells at intermediate temperatures. *Journal of Electroceramics*, **2010**, 24, 270-287

1.5 13

217 Adhesion and Percolation Parameters in Two Dimensional Pd/LSCM Composites for SOFC Anode Current Collection. *Advanced Functional Materials*, **2010**, 20, 861-866

15.6 13

216 A fuel cell operating between room temperature and 250 °C based on a new phosphoric acid based composite electrolyte. *Journal of Power Sources*, **2010**, 195, 6983-6987

8.9 11

215 Proton conductivity of potassium doped barium zirconates. *Journal of Solid State Chemistry*, **2010**, 183, 93-98

3.3 27

214 Investigation of electrical and mechanical properties of tetragonal/cubic zirconia composite electrolytes prepared through stabilizer coating method. *International Journal of Hydrogen Energy*, **2010**, 35, 9427-9433

6.7 14

213 Modeling of IT-SOFC with indirect internal reforming operation fueled by methane: Effect of oxygen adding as autothermal reforming. *International Journal of Hydrogen Energy*, **2010**, 35, 13271-13279

23

212 Fabrication and electrochemical characterization of tape cast $\text{BaCe}_{0.5}\text{Zr}_{0.3}\text{Y}_{0.16}\text{Zn}_{0.04}\text{O}_{3-x}$ electrode/electrolyte structures. *Solid State Ionics*, **2010**, 181, 168-172

3.3 8

211 Disruption of extended defects in solid oxide fuel cell anodes for methane oxidation **2010**, 251-254

210 Investigation of the Structural and Catalytic Requirements for High-Performance SOFC Anodes Formed by Infiltration of LSCM. *Electrochemical and Solid-State Letters*, **2009**, 12, B48

132

209 Intermediate Temperature SOFC Anode Component based on A-site Deficient La-doped SrTiO_3 . *ECS Transactions*, **2009**, 25, 2213-2222

1 5

208 Characterization of Cuprate based Cathode Structures by AC Impedance. *ECS Transactions*, **2009**, 25, 2689-2698

1 2

207 Bulk and Grain Boundary Conductivities as Function of Temperature and Oxygen Partial Pressure of Scandia-Stabilized Zirconia Co-Doped with Ytria and Ceria. *ECS Transactions*, **2009**, 25, 1635-1642

1 5

206 Ni/C Slurries Based on Molten Carbonates as a Fuel for Hybrid Direct Carbon Fuel Cells. *Journal of the Electrochemical Society*, **2009**, 156, B716

3.9 70

205	SmBaCo ₂ O _{5+d} and LnBa _{0.5} Sr _{0.5} Co ₂ O _{5+d} Potential Cathode Materials for IT-SOFC. <i>ECS Transactions</i> , 2009 , 25, 2707-2715	1	8
204	Structural, magnetic and electrochemical characterization of La _{0.83} A _{0.17} Fe _{0.5} Cr _{0.5} O ₃ (A=Ba, Ca) perovskites. <i>Materials Research Bulletin</i> , 2009 , 44, 1451-1457	5.1	8
203	Synthesis, structure and magnetic properties of Sr ₂ Fe _{1-x} GaxMoO ₆ (0 ≤ x ≤ 0.6) double perovskites. <i>Materials Research Bulletin</i> , 2009 , 44, 2181-2185	5.1	3
202	Syntheses, Li Insertion, and Photoactivity of Mesoporous Crystalline TiO ₂ . <i>Advanced Functional Materials</i> , 2009 , 19, 2826-2833	15.6	129
201	Investigation of electrical and mechanical properties of 3YSZ/8YSZ composite electrolytes. <i>Solid State Ionics</i> , 2009 , 180, 57-62	3.3	52
200	Proton conductivity of Al(H ₂ PO ₄) ₃ ·H ₃ PO ₄ composites at intermediate temperature. <i>Solid State Ionics</i> , 2009 , 180, 343-350	3.3	17
199	Crystal structure, thermochemical stability, electrical and magnetic properties of the two-phase composites in the La _{0.8} Sr _{0.2} MnO ₃ · TiO ₂ system. <i>Solid State Ionics</i> , 2009 , 180, 778-783	3.3	21
198	Investigation of electrical and mechanical properties of 3Y-TZP/Cubic zirconia solid electrolytes with composite structure prepared by near net shape forming. <i>Solid State Ionics</i> , 2009 , 180, 904-909	3.3	2
197	Development of anode material based on La-substituted SrTiO ₃ perovskites doped with manganese and/or gallium for SOFC. <i>Journal of Power Sources</i> , 2009 , 192, 43-50	8.9	51
196	Electronic conductivity of modified La _{0.95} Ni _{0.6} Fe _{0.4} O ₃ perovskites. <i>Journal of Power Sources</i> , 2009 , 193, 175-179	8.9	13
195	Structural, thermal and electrochemical properties of layered perovskite SmBaCo ₂ O _{5+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
194	Preparation of stabilized Gd-doped BaPrO ₃ materials by Zr substitution. <i>Ceramics International</i> , 2009 , 35, 1819-1827	5.1	11
193	Perovskite Oxide Anodes for SOFCs. <i>Fuel Cells and Hydrogen Energy</i> , 2009 , 167-182		11
192	Structure, Conductivity, and Thermal Expansion Studies of Redox Stable Rutile Niobium Chromium Titanates in Oxidizing and Reducing Conditions. <i>Chemistry of Materials</i> , 2009 , 21, 3549-3561	9.6	24
191	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
190	Thermochemical and Structural Stability of A- and B-Site-Substituted Perovskites in Hydrogen-Containing Atmosphere. <i>Chemistry of Materials</i> , 2009 , 21, 1514-1523	9.6	29
189	Reduction studies and evaluation of surface modified A-site deficient La-doped SrTiO ₃ as anode material for IT-SOFCs. <i>Journal of Materials Chemistry</i> , 2009 , 19, 8119		77
188	Mesoporous Monocrystalline TiO ₂ and Its Solid-State Electrochemical Properties. <i>Chemistry of Materials</i> , 2009 , 21, 2540-2546	9.6	107

187	Advanced Electrochemical Properties of $\text{LnBa}_{0.5}\text{Sr}_{0.5}\text{Co}_2\text{O}_{5+\delta}$ (Ln=Pr, Sm, and Gd) as Cathode Materials for IT-SOFC. <i>Journal of the Electrochemical Society</i> , 2009 , 156, B682	3.9	135
186	Location of Deuterium Positions in the Proton-Conducting Perovskite $\text{BaCe}_{0.4}\text{Zr}_{0.4}\text{Sc}_{0.2}\text{O}_{2.90}\text{D}_2\text{O}$ by Neutron Powder Diffraction. <i>Chemistry of Materials</i> , 2009 , 21, 215-222	9.6	31
185	Effect of Oxygen Non Stoichiometry and Oxidation State of Transition Elements on High-Temperature Phase Transition in A-Site Deficient $\text{La}_{0.95}\text{Ni}_{0.6}\text{Fe}_{0.4}\text{O}_3$ Perovskite. <i>Chemistry of Materials</i> , 2009 , 21, 5307-5318	9.6	22
184	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
183	Structural and electrical properties of calcium and strontium hydrides. <i>Journal of Materials Chemistry</i> , 2009 , 19, 2766		43
182	The Integrated Project SOFC600 Development of Low-temperature SOFC. <i>ECS Transactions</i> , 2009 , 25, 29-34	1	6
181	Structural origins of the differing grain conductivity values in $\text{BaZr}_{0.9}\text{Y}_{0.1}\text{O}_{2.95}$ and indication of novel approach to counter defect association. <i>Journal of Materials Chemistry</i> , 2008 , 18, 3414		79
180	Is YSZ stable in the presence of Cu?. <i>Journal of Materials Chemistry</i> , 2008 , 18, 5072		20
179	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
178	Engineering Composite Oxide SOFC Anodes for Efficient Oxidation of Methane. <i>Electrochemical and Solid-State Letters</i> , 2008 , 11, B16		123
177	Production of high conductivity composite zirconia solid oxide electrolytes with good mechanical strength through net-shape. <i>Journal of Materials Chemistry</i> , 2008 , 18, 5237		8
176	$(\text{La}_{0.75}\text{Sr}_{0.25})_{0.95}\text{Mn}_{0.5}\text{Cr}_{0.5}\text{O}_3$ 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
175	Evolution of conductivity, structure and thermochemical stability of lanthanum manganese iron nickelate perovskites. <i>Journal of Materials Chemistry</i> , 2008 , 18, 5147		22
174	Characterization of Diffuse Scattering in Yttria-Stabilized Zirconia by Electron Diffraction and High-Resolution Transmission Electron Microscopy. <i>Chemistry of Materials</i> , 2008 , 20, 5933-5938	9.6	16
173	Efficient Reduction of CO_2 in a Solid Oxide Electrolyzer. <i>Electrochemical and Solid-State Letters</i> , 2008 , 11, B167		174
172	Effect of Minor Additions of CeO_2 on Conductivity of Perovskites with Mixed Ionic-Electronic Conductivity. <i>ECS Transactions</i> , 2008 , 13, 115-122	1	5
171	Synthesis of Visible-Light-Activated Yellow Amorphous TiO_2 Photocatalyst. <i>International Journal of Photoenergy</i> , 2008 , 2008, 1-6	2.1	23
170	Spin-glass transition in a La-doped Sr_2MnWO_6 double perovskite. <i>Physical Review B</i> , 2008 , 77,	3.3	7

169	Solid state electrochemistry of direct carbon/air fuel cells. <i>Fuel Cells Bulletin</i> , 2008 , 2008, 10-13	1.6	11
168	Effect of complex oxide promoters and Pd on activity and stability of Ni/YSZ (ScSZ) cermets as anode materials for IT SOFC. <i>Catalysis Today</i> , 2008 , 131, 226-237	5.3	15
167	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
166	Electrical conductivity and structure of solid solutions formed in the $\text{La}_{0.8}\text{Sr}_{0.2}\text{MnO}_3\text{-La}_{0.95}\text{Ni}_{0.6}\text{Fe}_{0.4}\text{O}_3$ system. <i>Solid State Ionics</i> , 2008 , 179, 1432-1435	3.3	6
165	Solid state electrochemistry of direct carbon/air fuel cells. <i>Solid State Ionics</i> , 2008 , 179, 1417-1421	3.3	77
164	High density and low temperature sintered proton conductor $\text{BaCe}_{0.5}\text{Zr}_{0.35}\text{Sc}_{0.1}\text{Zn}_{0.05}\text{O}_3$ <i>Solid State Ionics</i> , 2008 , 179, 678-682	3.3	56
163	Co-doping of scandia-zirconia electrolytes for SOFCs. <i>Faraday Discussions</i> , 2007 , 134, 41-9; discussion 103-18, 415-9	3.6	43
162	Effect of Ti-substitution on the Electrical Properties of MnNb_2O_6 <i>Chemistry of Materials</i> , 2007 , 19, 2310-2315	9.6	14
161	A new anode for solid oxide fuel cells with enhanced OCV under methane operation. <i>Physical Chemistry Chemical Physics</i> , 2007 , 9, 1821-30	3.6	33
160	Synthesis, chemical stability and proton conductivity of the perovskites $\text{Ba}(\text{Ce},\text{Zr})_{1-x}\text{Sc}_x\text{O}_3$ <i>Solid State Ionics</i> , 2007 , 178, 635-640	3.3	124
159	Catalytic properties of the proton conductor materials: $\text{Sr}_3\text{CaZr}_{0.5}\text{Ta}_{1.5}\text{O}_{8.75}$, $\text{BaCe}_{0.9}\text{Y}_{0.1}\text{O}_{2.95}$ and $\text{Ba}_3\text{Ca}_{1.18}\text{Nb}_{1.82}\text{O}_{8.73}$ for reverse water gas shift. <i>Solid State Ionics</i> , 2007 , 178, 717-722	3.3	14
158	Improvement of the electrochemical properties of novel solid oxide fuel cell anodes, $\text{La}_{0.75}\text{Sr}_{0.25}\text{Cr}_{0.5}\text{Mn}_{0.5}\text{O}_3$ and $\text{La}_4\text{Sr}_8\text{Ti}_{11}\text{Mn}_{0.5}\text{Ga}_{0.5}\text{O}_{37.5}$ using Cu/YSZ-based cermets. <i>Electrochimica Acta</i> , 2007 , 52, 7217-7225	6.7	48
157	Chemical and electrical properties of $\text{BaPr}_{0.7}\text{Gd}_{0.3}\text{O}_3$ <i>Journal of Power Sources</i> , 2007 , 169, 53-58	8.9	20
156	An efficient ceramic-based anode for solid oxide fuel cells. <i>Journal of Power Sources</i> , 2007 , 171, 663-669	8.9	68
155	Effects of firing schedule on solubility limits and transport properties of $\text{ZrO}_2\text{-TiO}_2\text{-Y}_2\text{O}_3$ fluorites. <i>Journal of Solid State Chemistry</i> , 2007 , 180, 2371-2376	3.3	11
154	Conductivity studies of dense yttrium-doped BaZrO_3 sintered at 1325°C. <i>Journal of Solid State Chemistry</i> , 2007 , 180, 3493-3503	3.3	236
153	LSCM(YSZ)(GO) composites as improved symmetrical electrodes for solid oxide fuel cells. <i>Journal of the European Ceramic Society</i> , 2007 , 27, 4223-4227	6	73
152	Carbon/air fuel cell development to satisfy our energy demands. <i>Ionics</i> , 2007 , 13, 413-416	2.7	9

151	Mixed conductivity and electrochemical behavior of $(\text{La}_{0.75}\text{Sr}_{0.25})_{0.95}\text{Cr}_{0.5}\text{Mn}_{0.5}\text{O}_3$ <i>Solid State Ionics</i> , 2007 , 178, 101-113	3.3	103
150	SOFC Roll Development at St. Andrews Fuel Cells Ltd.. <i>Journal of Fuel Cell Science and Technology</i> , 2007 , 4, 138-142		5
149	Doped Nanocrystalline Pt-Promoted Ceria-Zirconia as Anode Catalysts for IT SOFC: Synthesis and Properties. <i>Materials Research Society Symposia Proceedings</i> , 2007 , 1023, 1		7
148	Thermodynamic Aspects of the Reaction of Lithium with SnP_2O_7 Based Positive Electrodes. <i>Journal of the Electrochemical Society</i> , 2007 , 154, A217	3.9	5
147	A Novel Direct Carbon Fuel Cell Concept. <i>Journal of Fuel Cell Science and Technology</i> , 2007 , 4, 280-282		35
146	Structural Chemistry and Conductivity of a Solid Solution of $\text{YBa}_{1-x}\text{Sr}_x\text{Co}_2\text{O}_{5+\delta}$ <i>Journal of Physical Chemistry C</i> , 2007 , 111, 19120-19125	3.8	43
145	Combined Neutron Diffraction and Atomistic Modeling Studies of Structure, Defects, and Water Incorporation in Doped Barium Cerate Perovskites. <i>Chemistry of Materials</i> , 2007 , 19, 1239-1248	9.6	18
144	Electronic transport in the novel SOFC anode material $\text{La}_{1-x}\text{Sr}_x\text{Cr}_{0.5}\text{Mn}_{0.5}\text{O}_3$ <i>Solid State Ionics</i> , 2006 , 177, 2005-2008	3.3	70
143	New Strategies on SOFC. <i>Materials Research Society Symposia Proceedings</i> , 2006 , 972, 1		
142	A symmetrical solid oxide fuel cell demonstrating redox stable perovskite electrodes. <i>Journal of Materials Chemistry</i> , 2006 , 16, 1603		319
141	Methane oxidation at redox stable fuel cell electrode $\text{La}_{0.75}\text{Sr}_{0.25}\text{Cr}_{0.5}\text{Mn}_{0.5}\text{O}_{3-\delta}$. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 21771-6	3.4	86
140	Microstructural optimisation of materials for SOFC applications using PMMA microspheres. <i>Journal of Materials Chemistry</i> , 2006 , 16, 540		52
139	On the Electrical Properties of Synthetic Manganocolumbite MnNb_2O_6 <i>Chemistry of Materials</i> , 2006 , 18, 3827-3834	9.6	20
138	Anodic Performance and Intermediate Temperature Fuel Cell Testing of $\text{La}_{0.75}\text{Sr}_{0.25}\text{Cr}_{0.5}\text{Mn}_{0.5}\text{O}_3$ - δ Lanthanum Gallate Electrolytes. <i>Chemistry of Materials</i> , 2006 , 18, 1001-1006	9.6	54
137	Phase Transition in Perovskite Oxide $\text{La}_{0.75}\text{Sr}_{0.25}\text{Cr}_{0.5}\text{Mn}_{0.5}\text{O}_3$ - δ Observed by in Situ High-Temperature Neutron Powder Diffraction. <i>Chemistry of Materials</i> , 2006 , 18, 5453-5460	9.6	66
136	Disruption of extended defects in solid oxide fuel cell anodes for methane oxidation. <i>Nature</i> , 2006 , 439, 568-71	50.4	329
135	The development of a carbon/air semi fuel cell. <i>Journal of Power Sources</i> , 2006 , 162, 750-756	8.9	82
134	Structural studies on W^{6+} and Nd^{3+} substituted $\text{La}_2\text{Mo}_2\text{O}_9$ materials. <i>Journal of Solid State Chemistry</i> , 2006 , 179, 278-288	3.3	61

133	Mn-substituted titanates as efficient anodes for direct methane SOFCs. <i>Solid State Ionics</i> , 2006 , 177, 1997-2003	3.3	51
132	Investigation of proton conducting BaZr _{0.9} Y _{0.1} O _{2.95} : BaCe _{0.9} Y _{0.1} O _{2.95} core-shell structures. <i>Journal of Materials Chemistry</i> , 2005 , 15, 598-604		61
131	Evidence of three types of short range ordered fluorite structure in the (1-x) Y _{0.15} Zr _{0.85} O _{1.93} □ x Y _{0.75} Nb _{0.25} O _{1.75} (0 ≤ x ≤ 1) system. <i>Journal of Materials Chemistry</i> , 2005 , 15, 1903		18
130	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
129	Electrical conductivity and redox stability of La ₂ Mo _{2-δ} W _x O ₉ materials. <i>Electrochimica Acta</i> , 2005 , 50, 4385-4395	6.7	86
128	Anomalous variations of unit cell parameters with composition in proton conducting, ACeO ₃ -type perovskite solid solutions. <i>Solid State Ionics</i> , 2005 , 176, 703-712	3.3	24
127	Studies on the Reorganization of Extended Defects with Increasing n in the Perovskite-Based La ₄ Sr _n Ti _n O _{3n+2} Series. <i>Advanced Functional Materials</i> , 2005 , 15, 1000-1008	15.6	54
126	An Efficient Solid Oxide Fuel Cell Based upon Single-Phase Perovskites. <i>Advanced Materials</i> , 2005 , 17, 1734-1737	24	163
125	Phase transition, thermal expansion and electrical properties of BiCu ₂ VO ₆ . <i>Journal of Solid State Chemistry</i> , 2005 , 178, 2927-2933	3.3	9
124	Ionic conductivity of amorphous lithium lanthanum titanate thin film. <i>Solid State Ionics</i> , 2005 , 176, 553-558		51
123	Synthesis, sinterability and ionic conductivity of nanocrystalline La ₂ Mo ₂ O ₉ powders. <i>Solid State Ionics</i> , 2005 , 176, 1807-1816	3.3	47
122	Elaboration of CO ₂ tolerance limits of BaCe _{0.9} Y _{0.1} O _{3-δ} electrolytes for fuel cells and other applications. <i>Solid State Ionics</i> , 2005 , 176, 3019-3026	3.3	171
121	Sc-Substituted Oxygen Excess Titanates as Fuel Electrodes for SOFCs. <i>Journal of the Electrochemical Society</i> , 2005 , 152, A1458	3.9	32
120	Batteries and fuel cells 2005 , 339-374		
119	Investigation of the Mixed Conducting Oxide ScYZT as a Potential SOFC Anode Material. <i>Journal of the Electrochemical Society</i> , 2004 , 151, A497	3.9	25
118	Advanced anodes for high-temperature fuel cells. <i>Nature Materials</i> , 2004 , 3, 17-27	27	1203
117	A new alternative representation of impedance data using the derivative of the tangent of the phase angle: Application to the YSZ system and composites. <i>Materials Research Bulletin</i> , 2004 , 39, 1299-1318	5.1	18
116	Solid state NMR studies of phosphate/tin matrix formed on electrochemical insertion into SnP ₂ O ₇ . <i>Solid State Ionics</i> , 2004 , 175, 185-190	3.3	26

115	Synthesis and characterization of n=5, 6 members of the $\text{La}_4\text{Sr}_{n-4}\text{Ti}_n\text{O}_{3n+2}$ series with layered structure based upon perovskite. <i>Journal of Solid State Chemistry</i> , 2004 , 177, 2039-2043	3.3	9
114	Discovery and characterization of novel oxide anodes for solid oxide fuel cells. <i>Chemical Record</i> , 2004 , 4, 83-95	6.6	156
113	The Bourner lecture: Power sources and the new energy economy. <i>Journal of Power Sources</i> , 2004 , 136, 203-207	8.9	12
112	Microdomain texture and microstructures of Fe^{4+} -containing $\text{CaTi}_{0.4}\text{Fe}_{0.6}\text{O}_3$. <i>Journal of Solid State Chemistry</i> , 2004 , 177, 3105-3113	3.3	10
111	Synthesis and Characterization of $(\text{La}_{0.75}\text{Sr}_{0.25})\text{Cr}_{0.5}\text{Mn}_{0.5}\text{O}_3$ a Redox-Stable, Efficient Perovskite Anode for SOFCs. <i>Journal of the Electrochemical Society</i> , 2004 , 151, A252	3.9	336
110	Catalytic Properties of the Perovskite Oxide $\text{La}_{0.75}\text{Sr}_{0.25}\text{Cr}_{0.5}\text{Fe}_{0.5}\text{O}_3$ in Relation to Its Potential as a Solid Oxide Fuel Cell Anode Material. <i>Chemistry of Materials</i> , 2004 , 16, 4116-4121	9.6	163
109	Structural and Electrical Properties of the Perovskite Oxide $\text{Sr}_2\text{FeNbO}_6$. <i>Chemistry of Materials</i> , 2004 , 16, 2309-2316	9.6	53
108	Electrochemical Studies of Nickel and Copper/Yttria Titania Zirconia Ceria Cermets. <i>Journal of the Electrochemical Society</i> , 2003 , 150, A1030	3.9	8
107	The systems $\text{Zr}(\text{Nb},\text{Ti})(\text{R})\text{O}_2$ (R=Yb, Ca) optimization of mixed conductivity and comparison with results of other systems (R=Y and Gd). <i>Journal of Solid State Chemistry</i> , 2003 , 172, 277-287	3.3	8
106	Water incorporation studies on doped barium cerate perovskites. <i>Solid State Ionics</i> , 2003 , 162-163, 83-91	3.3	53
105	A redox-stable efficient anode for solid-oxide fuel cells. <i>Nature Materials</i> , 2003 , 2, 320-3	27	986
104	Ruthenium complexes of 2-(2-pyridyl)benzimidazole as photosensitizers for dye-sensitized solar cells. <i>Dalton Transactions</i> , 2003 , 685-691	4.3	23
103	Lone-pair containment in closed cavities. The $\text{MTe}_6\text{O}_{13}$ (M = Mn, Ni, Co) family of ternary oxides. <i>Dalton Transactions</i> , 2003 , 2641	4.3	11
102	Studies on the perovskite-based $\text{La}_4\text{Sr}_{n-4}\text{Ti}_n\text{O}_{3n+2}$. <i>Materials Research Society Symposia Proceedings</i> , 2003 , 801, 204		1
101	Optimization of Mixed Conducting Properties of $\text{Y}_2\text{O}_3\text{ZrO}_2\text{TiO}_2$ and $\text{Sc}_2\text{O}_3\text{ZrO}_2\text{TiO}_2$ Solid Solutions as Potential SOFC Anode Materials. <i>Journal of Solid State Chemistry</i> , 2002 , 165, 12-18	3.3	48
100	Layered Intergrowth Phases $\text{Bi}_4\text{MO}_8\text{X}$ (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
99	How amorphous are the tin alloys in li-inserted tin oxides?. <i>Ionics</i> , 2002 , 8, 172-176	2.7	20
98	Characterisation of novel anodes for solid oxide fuel cells based on oxygen-excess perovskite related structures. <i>Ionics</i> , 2002 , 8, 252-255	2.7	6

97	Structural and property investigations of Strontium Galloniobate. <i>Solid State Ionics</i> , 2002 , 152-153, 615-623	3.3	11
96	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
95	Structural studies of the distorted perovskite proton conductors $\text{Sr}_3\text{Ca}_{1+x}\text{Nb}_2\text{O}_9$ <i>Solid State Ionics</i> , 2002 , 152-153, 749-757	3.3	14
94	Structure and properties of nonstoichiometric mixed perovskites $\text{A}_3\text{B}_{7+2x}\text{O}_9$ <i>Solid State Ionics</i> , 2002 , 154-155, 659-667	3.3	13
93	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
92	Synthesis, Crystal Structure, and Oxide Ion Conductivity in $\text{Bi}_{4.6}\text{Ca}_{1.1}\text{VO}_{10.5}$. <i>Chemistry of Materials</i> , 2002 , 14, 3700-3704	9.6	5
91	Study on the structural and electrical properties of the double perovskite oxide $\text{SrMn}_{0.5}\text{Nb}_{0.5}\text{O}_3$ <i>Journal of Materials Chemistry</i> , 2002 , 12, 2356-2360		28
90	Structure-property correlations in the new ferroelectric $\text{Bi}_5\text{PbTi}_3\text{O}_{14}\text{Cl}$ and related layered oxyhalide intergrowth phases. <i>Journal of Materials Chemistry</i> , 2002 , 12, 3413-3418		18
89	Electrochemical comparison between SnO_2 and Li_2SnO_3 synthesized at high and low temperatures. <i>Ionics</i> , 2001 , 7, 16-21	2.7	18
88	B site doped strontium titanate as a potential SOFC substrate. <i>Ionics</i> , 2001 , 7, 116-121	2.7	19
87	Investigations into $\text{Sr}_3\text{CaZr}_{0.5}\text{Ta}_{1.5}\text{O}_{8.75}$, a novel proton conducting perovskite oxide. <i>Solid State Ionics</i> , 2001 , 145, 307-313	3.3	23
86	Investigation of lead tin fluorides as possible negative electrodes for Li-ion batteries. <i>Journal of Power Sources</i> , 2001 , 97-98, 258-261	8.9	13
85	Electrochemical performance of ball-milled ZnO/SnO_2 systems as anodes in lithium-ion battery. <i>Journal of Power Sources</i> , 2001 , 97-98, 219-222	8.9	134
84	Novel tin oxide spinel-based anodes for Li-ion batteries. <i>Journal of Power Sources</i> , 2001 , 97-98, 223-225	8.9	98
83	Phase Relations at 1500°C in the Ternary System $\text{ZrO}_2\text{-Nd}_2\text{O}_3\text{-TiO}_2$. <i>Journal of Solid State Chemistry</i> , 2001 , 160, 302-306	3.3	24
82	Improved Oxidation of Hydrocarbons with New Electrodes in High Temperature Fuel Cells. <i>Fuel Cells</i> , 2001 , 1, 205-210	2.9	62
81	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
80	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

79	Electrochemical Characterization of Ceramic SOFC Anodes. <i>Journal of the Electrochemical Society</i> , 2001 , 148, A923	3.9	52
78	New Mixed Conducting Oxides for SOFC Anodes. <i>ECS Proceedings Volumes</i> , 2001 , 2001-16, 738-745		
77	Zero Emission Power Generation Using an all Perovskite Fuel Cell. <i>ECS Proceedings Volumes</i> , 2001 , 2001-16, 224-233		
76	An NMR Investigation of Lithium Occupancy of Different Sites in the Oxide Superconductor LiTi_2O_4 and Related Compounds. <i>Journal of Solid State Chemistry</i> , 2000 , 152, 397-402	3.3	36
75	Structural studies on the optimisation of fast oxide ion transport. <i>Solid State Ionics</i> , 2000 , 136-137, 879-885	3.3	25
74	Hydrogen titanates as potential proton conducting fuel cell electrolytes. <i>Solid State Ionics</i> , 2000 , 136-137, 297-303	3.3	43
73	Synthesis and ionic conduction of apatite-type materials. <i>Ionics</i> , 2000 , 6, 389-396	2.7	22
72	X-ray study of metal oxide based anodes for Li-ion batteries. <i>Ionics</i> , 2000 , 6, 428-433	2.7	2
71	Modulated Fluorite-Type Structure of Materials from the $(1-x)\text{Y}_0.5\text{Zr}_{0.5}\text{O}_{1.75-x}\text{Y}_{0.75}\text{Nb}_{0.25}\text{O}_{1.75}$ ($0 \leq x \leq 1$) System. <i>Chemistry of Materials</i> , 2000 , 12, 1729-1737	9.6	35
70	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
69	$\text{Li}_{1+x}\text{Fe}_{1-2x}\text{Ti}_1 + 2x \text{O}_4$ ($0.0 \leq x \leq 0.33$) Based Spinel: Possible Negative Electrode Materials for Future Li-Ion Batteries. <i>Journal of the Electrochemical Society</i> , 1999 , 146, 3958-3962	3.9	78
68	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
67	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
66	Synthesis and electrical characterisation of the tetragonal tungsten bronze type phases, $(\text{Ba}/\text{Sr}/\text{Ca}/\text{La})_{0.6}\text{M}_x\text{Nb}_{1-x}\text{O}_3$ ($\text{M}=\text{Mg}, \text{Ni}, \text{Mn}, \text{Cr}, \text{Fe}, \text{In}, \text{Sn}$): evaluation as potential anode materials for solid oxide fuel cells. <i>Solid State Ionics</i> , 1999 , 124, 61-72	3.3	51
65	Doped tin oxides as potential lithium ion battery negative electrodes. <i>Ionics</i> , 1999 , 5, 450-454	2.7	38
64	Phase Relations at 1500°C in the Ternary System $\text{ZrO}_2\text{-Ti}_2\text{O}_3\text{-TiO}_2$. <i>Journal of Solid State Chemistry</i> , 1999 , 143, 273-276	3.3	50
63	Structural Anomalies of $1223 \text{Hg}(\text{Tl})\text{Ba}_1\text{Ca}_1\text{Cu}_2\text{O}_8$ Superconductors in the Temperature Range 100-300 K. <i>Journal of Superconductivity and Novel Magnetism</i> , 1998 , 11, 471-479		8
62	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

61	High-Temperature Powder Neutron Diffraction Study of the Oxide Ion Conductor $\text{La}_{0.9}\text{Sr}_{0.1}\text{Ga}_{0.8}\text{Mg}_{0.2}\text{O}_{2.85}$. <i>Journal of Solid State Chemistry</i> , 1998 , 139, 135-143	3.3	110
60	A New Solid Solution Series Linking LiTi_2O_4 and $\text{Li}_2\text{Ti}_3\text{O}_7$ Ramsdellites: A Combined X-Ray and Neutron Study. <i>Journal of Solid State Chemistry</i> , 1998 , 141, 365-372	3.3	11
59	Synthesis and electrical characterisation of different doped magnesium titanates. <i>Ionics</i> , 1998 , 4, 175-180.	7	2
58	Electrical characterization of highly Titania doped YSZ. <i>Ionics</i> , 1998 , 4, 215-219	2.7	32
57	Synthesis and crystal structure of the distorted perovskite $\text{Sr}_{0.97}\text{NbO}_3$ determined by high resolution powder neutron diffraction. <i>Journal of Materials Chemistry</i> , 1998 , 8, 1033-1038		28
56	Yttrium and lead nuclear magnetic resonance investigation of a 1212 superconductor,. <i>Journal of Physics Condensed Matter</i> , 1998 , 10, 2539-2550	1.8	2
55	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
54	High oxide ion conductivity in non-stoichiometric pyrochlores and fluorites in the ternary system $\text{ZrO}_2 - \text{Gd}_2\text{O}_3 - \text{TiO}_2$. <i>Ionics</i> , 1997 , 3, 30-35	2.7	7
53	Transformation of LiTi_2O_4 from Spinel to Ramsdellite on Heating. <i>Journal of Solid State Chemistry</i> , 1997 , 132, 382-388	3.3	24
52	Synthesis and electrical characterisation of the perovskite niobate-titanates, $\text{Sr}_{1-x}/2\text{Ti}_{1-x}\text{Nb}_x\text{O}_3$. <i>Ionics</i> , 1996 , 2, 213-216	2.7	30
51	Phase transitions and structural instability in HTSC compounds and related phases. <i>European Physical Journal D</i> , 1996 , 46, 1417-1418		3
50	Domain wall relaxation frequency and magnetocrystalline anisotropy constant in Ni_xZn ferrites. <i>Journal of Magnetism and Magnetic Materials</i> , 1996 , 160, 386-387	2.8	13
49	Syntheses and properties of the lead 1,3-dithiole-2-thione-4,5-dithiolate (dmit) compounds: $\text{Ph}_2\text{Pb}(\text{dmit})$, $[\text{Q}][\text{Ph}_2\text{Pb}(\text{dmit})\text{I}]$ [$\text{Q} = \text{NEt}_4$ or 1,4-Me ₂ -pyridinium], $(\text{Ph}_3\text{Pb})_2(\text{dmit})$ and $\text{Pb}(\text{dmit})$. <i>Polyhedron</i> , 1996 , 15, 1807-1815	2.7	13
48	Optimization of superconducting critical temperatures by control of cation and anion stoichiometry in $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_x$ -based solid solutions. <i>Journal of Materials Science</i> , 1995 , 30, 2743-2746	4.3	
47	Oxide ion transport in highly defective cubic stabilized zirconias. <i>Ionics</i> , 1995 , 1, 279-285	2.7	13
46	Microstructural investigations of reduced magnesium titanate spinels which have shown anomalous resistance behaviour. <i>Materials Research Bulletin</i> , 1995 , 30, 1513-1524	5.1	
45	The AC Impedance Response of the Physical Interface Between Yttria-Stabilized Zirconia and $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$. <i>Journal of the Electrochemical Society</i> , 1995 , 142, 2650-2654	3.9	48
44	Impedance Spectroscopy of Ferromagnetic Materials. <i>Materials Research Society Symposia Proceedings</i> , 1995 , 411, 39		2

43	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
42	Production of tartrate and glycolate from the electrochemical reduction of glyoxylate. <i>Journal of Applied Electrochemistry</i> , 1994 , 24, 271	2.6	2
41	Rationalisation of oxygen non-stoichiometry determination in cuprates. <i>Physica C: Superconductivity and Its Applications</i> , 1994 , 235-240, 403-404	1.3	
40	A study of $(Y_{1-x}Ca_x)Ba_2Cu_3O_{6+y}$ by ^{89}Y NMR. <i>Physica C: Superconductivity and Its Applications</i> , 1994 , 235-240, 1585-1586	1.3	2
39	Reduced magnesium titanate electrodes for solid oxide fuel cells. <i>Solid State Ionics</i> , 1994 , 72, 235-239	3.3	11
38	Sintering of a plasma derived zirconia powder for solid oxide fuel cell electrolytes. <i>Solid State Ionics</i> , 1994 , 72, 265-270	3.3	5
37	Polarization behavior of yttrium barium copper oxide electrodes on yttria-stabilized zirconia electrolytes. <i>Materials Research Bulletin</i> , 1994 , 29, 1175-1182	5.1	11
36	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
35	Domain wall dynamics and short-range order in ferromagnetic amorphous ribbons. <i>Journal of Non-Crystalline Solids</i> , 1993 , 156-158, 315-318	3.9	5
34	Phase Formation and Electronic Transport Properties in the Corundum (Ti_2O_3)-Ilmenite ($MgTiO_3$) System. <i>Journal of Solid State Chemistry</i> , 1993 , 103, 30-37	3.3	9
33	Possible superconductivity in the Mg-Ti-O system. <i>Applied Superconductivity</i> , 1993 , 1, 511-518		5
32	Superconductivity in La-doped $Bi_{2-x}La_xO_{7-y}$. <i>Physica C: Superconductivity and Its Applications</i> , 1993 , 205, 323-328	1.3	27
31	Critical current behaviour in reduced magnesium titanate spinel showing zero resistance. <i>Physica C: Superconductivity and Its Applications</i> , 1993 , 212, 95-100	1.3	4
30	Indexed Powder Data for Incommensurate $Bi_2Sr_2Ca_2Cu_3O_z$. <i>Powder Diffraction</i> , 1992 , 7, 49-51	1.8	9
29	Effects of thermal annealing on the magnetization dynamics of vitrovac amorphous ribbons. <i>Journal of Applied Physics</i> , 1992 , 72, 1486-1489	2.5	42
28	Stoichiometry and kinetics of formation of $Bi_2Sr_2CaCu_2O_{7-x}$ solid solutions. <i>Journal of Materials Chemistry</i> , 1992 , 2, 579		19
27	Main group metal 1,3-dithiole-2-thione-4,5-dithiolato (DMIT) compounds?III. Synthesis of tetrabutylammonium bis(1,3-dithiole-2-thione-4,5-dithiolato)dihalostannates. Crystal structure of $[Bu_4N]_2[I_2Sn(DMIT)_2]$. <i>Polyhedron</i> , 1992 , 11, 2223-2229	2.7	15
26	Main group metal 1,3-dithiole-2-thione-4,5-dithiolate (DMIT) compounds. <i>Journal of Organometallic Chemistry</i> , 1992 , 436, 23-33	2.3	20

25	The equivalent resistance term in magnetic impedance spectroscopy. <i>Journal of Magnetism and Magnetic Materials</i> , 1992 , 104-107, 395-396	2.8	1
24	Reversible and irreversible domain wall movement in Metglas \square amorphous ribbons. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 1991 , 133, 140-142	5.3	12
23	Organotin-DMIT complexes: crystal structure of [Bu ₄ N][Me ₂ SnCl(DMIT)]. <i>Journal of Organometallic Chemistry</i> , 1991 , 414, C5-C8	2.3	22
22	Characterization of Ca-doped Bi _{2-x} Sr _{2-x} CuO _z . <i>Journal of Materials Chemistry</i> , 1991 , 1, 147-148		8
21	Electrical Properties of Polycrystalline Nickel Zinc Ferrites. <i>Journal of the American Ceramic Society</i> , 1990 , 73, 729-732	3.8	66
20	Absence of critical temperature plateaux in quenched samples of YBa ₂ Cu ₃ O _x . <i>Physica C: Superconductivity and Its Applications</i> , 1990 , 168, 346-350	1.3	36
19	Solar energy fixation of carbon dioxide via cadmium sulphide and other semiconductor photocatalysts. <i>Solar Energy</i> , 1990 , 45, 27-33	6.8	33
18	Electroceramics: Characterization by Impedance Spectroscopy. <i>Advanced Materials</i> , 1990 , 2, 132-138	24	1700
17	Nature and extent of oxygen nonstoichiometry in Bi ₂ Sr ₂ CaCu ₂ O _{8+x} . <i>Journal of Solid State Chemistry</i> , 1990 , 87, 29-34	3.3	44
16	Domain wall relaxation in amorphous ribbons. <i>Journal of Applied Physics</i> , 1990 , 67, 5589-5591	2.5	25
15	Characterisation of Incommensurate Bi _{2+x} Sr _{2-x} CuO _z by X-Ray Powder Diffraction and Oxygen Content Determinations. <i>Japanese Journal of Applied Physics</i> , 1990 , 29, L2002-L2005	1.4	25
14	CRYSTALLINE LITHIUM ION CONDUCTORS 1989 , 201-222		20
13	Oxygen stoichiometry-Tccorrelations in Bi ₂ Sr ₂ CaCu ₂ O _{8+x} . <i>Superconductor Science and Technology</i> , 1989 , 2, 181-184	3.1	37
12	Incommensurate structure and X-ray powder diffraction data for Bi ₂ Sr ₂ CaCu ₂ O _{8+x} . <i>Superconductor Science and Technology</i> , 1989 , 2, 140-144	3.1	16
11	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
10	The voltammetry of mixed solutions of carbon dioxide and metal phthalocyanines in DMSO. <i>Journal of Electroanalytical Chemistry and Interfacial Electrochemistry</i> , 1989 , 266, 125-131		19
9	Ca ₁₂ Al ₁₄ O ₃₃ \square A possible high-temperature moisture sensor. <i>Journal of Applied Electrochemistry</i> , 1989 , 19, 410-412	2.6	19
8	Sodium phosphate-based solid electrolytes. <i>Solid State Ionics</i> , 1988 , 28-30, 214-219	3.3	10

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| 7 | Solid electrolytes based on $\text{Na}_3\text{PO}_4:\text{M}^{4+}$ (M = Zr, Hf, Ti, Sn, Ce, Th). <i>Journal of Solid State Chemistry</i> , 1988 , 74, 385-392 | 3.3 | 13 |
| 6 | Oxide ion conductivity in $\text{Ca}_{12}\text{Al}_{14}\text{O}_{33}$. <i>Materials Research Bulletin</i> , 1988 , 23, 1033-1038 | 5.1 | 28 |
| 5 | Formation of two-carbon acids from carbon dioxide by photoreduction on cadmium sulphide. <i>Journal of the Chemical Society Chemical Communications</i> , 1988 , 1123 | | 61 |
| 4 | Orthorhombic-tetragonal transition in $\text{YBa}_2\text{Cu}_3\text{O}_x$. <i>Superconductor Science and Technology</i> , 1988 , 1, 169-172 | | 27 |
| 3 | Sodium ion-conducting solid electrolytes in the system $\text{Na}_3\text{PO}_4/\text{Na}_2\text{SO}_4$. <i>Journal of Solid State Chemistry</i> , 1987 , 69, 126-134 | 3.3 | 14 |
| 2 | Solid electrolytes based on Na_3PO_4 doped with S, Se, Mo, W. <i>Materials Research Bulletin</i> , 1987 , 22, 1047-1054 | 5.1 | 13 |
| 1 | Computational Screening of Anode Coatings for Garnet-type Solid-State Batteries. <i>Batteries and Supercaps</i> , | 5.6 | 1 |