## Harry L Tuller

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	lonic conduction in nanocrystalline materials. Solid State Ionics, 2000, 131, 143-157.	1.3	637
2	Magneto-ionic control of interfacial magnetism. Nature Materials, 2015, 14, 174-181.	13.3	444
3	Heterogeneous Sensitization of Metal–Organic Framework Driven Metal@Metal Oxide Complex Catalysts on an Oxide Nanofiber Scaffold Toward Superior Gas Sensors. Journal of the American Chemical Society, 2016, 138, 13431-13437.	6.6	352
4	Thinâ€Wall Assembled SnO <sub>2</sub> Fibers Functionalized by Catalytic Pt Nanoparticles and their Superior Exhaledâ€Breathâ€Sensing Properties for the Diagnosis of Diabetes. Advanced Functional Materials, 2013, 23, 2357-2367.	7.8	328
5	Understanding Chemical Expansion in Nonâ€6toichiometric Oxides: Ceria and Zirconia Case Studies. Advanced Functional Materials, 2012, 22, 1958-1965.	7.8	305
6	Point Defects in Oxides: Tailoring Materials Through Defect Engineering. Annual Review of Materials Research, 2011, 41, 369-398.	4.3	302
7	Advances and new directions in gas-sensing devices. Acta Materialia, 2013, 61, 974-1000.	3.8	282
8	Investigation of surface Sr segregation in model thin film solid oxidefuel cell perovskite electrodes. Energy and Environmental Science, 2012, 5, 5370-5378.	15.6	258
9	The Role of Hierarchical Morphologies in the Superior Gas Sensing Performance of CuOâ€Based Chemiresistors. Advanced Functional Materials, 2013, 23, 1759-1766.	7.8	255
10	Solid‣tate Ionics: Roots, Status, and Future Prospects. Journal of the American Ceramic Society, 2002, 85, 1654-1680.	1.9	228
11	Mesoporous WO <sub>3</sub> Nanofibers with Protein-Templated Nanoscale Catalysts for Detection of Trace Biomarkers in Exhaled Breath. ACS Nano, 2016, 10, 5891-5899.	7.3	211
12	Impact of Sr segregation on the electronic structure and oxygen reduction activity of SrTi1â^'xFexO3 surfaces. Energy and Environmental Science, 2012, 5, 7979.	15.6	179
13	Magneto-ionic control of magnetism using a solid-state proton pump. Nature Materials, 2019, 18, 35-41.	13.3	176
14	Electrospun Polyaniline Fibers as Highly Sensitive Room Temperature Chemiresistive Sensors for Ammonia and Nitrogen Dioxide Gases. Advanced Functional Materials, 2014, 24, 4005-4014.	7.8	170
15	A New Model Describing Solid Oxide Fuel Cell Cathode Kinetics: Model Thin Film SrTi <sub>1â€x</sub> Fe <sub>x</sub> O <sub>3â€Î</sub> Mixed Conducting Oxides–a Case Study. Advanced Energy Materials, 2011, 1, 1184-1191.	10.2	151
16	Coaxial electrospinning of WO <sub>3</sub> nanotubes functionalized with bio-inspired Pd catalysts and their superior hydrogen sensing performance. Nanoscale, 2016, 8, 9159-9166.	2.8	139
17	Electrical conductivity and defect equilibria of Pr0.1Ce0.9O2â~î^. Physical Chemistry Chemical Physics, 2011, 13, 10165.	1.3	138
18	Defect Structure and Electrical Properties of Single-Crystal Ba0.03Sr0.97TiO3. Journal of the American Ceramic Society, 1988, 71, 201-205.	1.9	130

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19	Fabrication and structural characterization of self-supporting electrolyte membranes for a micro solid-oxide fuel cell. Journal of Materials Research, 2004, 19, 2604-2615.	1.2	123
20	Exceptional Highâ€Performance of Ptâ€Based Bimetallic Catalysts for Exclusive Detection of Exhaled Biomarkers. Advanced Materials, 2017, 29, 1700737.	11.1	113
21	Solar to fuels conversion technologies: a perspective. Materials for Renewable and Sustainable Energy, 2017, 6, 3.	1.5	99
22	Micro-ionics: next generation power sources. Physical Chemistry Chemical Physics, 2009, 11, 3023.	1.3	93
23	Low-voltage ZnO thin-film transistors with high-KBi1.5Zn1.0Nb1.5O7 gate insulator for transparent and flexible electronics. Applied Physics Letters, 2005, 87, 043509.	1.5	92
24	Electronic Activation of Cathode Superlattices at Elevated Temperatures – Source of Markedly Accelerated Oxygen Reduction Kinetics. Advanced Energy Materials, 2013, 3, 1221-1229.	10.2	88
25	Oxygen Tracer Diffusion in La2-xSrxCuO4-y Single Crystals. Journal of the American Ceramic Society, 1993, 76, 2363-2369.	1.9	80
26	Praseodymium-cerium oxide thin film cathodes: Study of oxygen reduction reaction kinetics. Journal of Electroceramics, 2012, 28, 62-69.	0.8	78
27	Vertically aligned nanocomposite La <sub>0.8</sub> Sr <sub>0.2</sub> CoO <sub>3</sub> /(La <sub>0.5</sub> Sr <sub>0.5</sub> ) <sub>2</sub> Co cathodes – electronic structure, surface chemistry and oxygen reduction kinetics. Journal of Materials Chemistry A. 2015. 3. 207-219.	oOçsub>4	
28	WO <sub>3</sub> Nanofiber-Based Biomarker Detectors Enabled by Protein-Encapsulated Catalyst Self-Assembled on Polystyrene Colloid Templates. Small, 2016, 12, 911-920.	5.2	76
29	Chemical expansion of nonstoichiometric Pr0.1Ce0.9O2â^'Î': Correlation with defect equilibrium model. Journal of the European Ceramic Society, 2011, 31, 2351-2356.	2.8	74
30	Iron-Excess Manganese Ferrite: Electrical Conductivity and Cation Distributions. Journal of the American Ceramic Society, 1987, 70, 388-392.	1.9	73
31	Scalable Oxygenâ€ion Transport Kinetics in Metalâ€Oxide Films: Impact of Thermally Induced Lattice Compaction in Acceptor Doped Ceria Films. Advanced Functional Materials, 2014, 24, 1562-1574.	7.8	65
32	Tunable Oxygen Diffusion and Electronic Conduction in SrTiO <sub>3</sub> by Dislocationâ€Induced Space Charge Fields. Advanced Functional Materials, 2017, 27, 1700243.	7.8	64
33	Direct current bias effects on grain boundary Schottky barriers in CaCu3Ti4O12. Applied Physics Letters, 2006, 88, 072902.	1.5	60
34	Solid State Electrochemical Systems–Opportunities for Nanofabricated or Nanostructured Materials. , 1997, 1, 211-218.		59
35	Nonâ€stoichiometry in Oxide Thin Films: A Chemical Capacitance Study of the Praseodymium erium Oxide System. Advanced Functional Materials, 2013, 23, 2168-2174.	7.8	58
36	Facile synthesis and electrochemical properties of RuO2 nanofibers with ionically conducting hydrous layer. Journal of Materials Chemistry, 2010, 20, 9172.	6.7	57

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37	Defects and transport in Pr <sub><i>x</i></sub> Ce <sub>1â~`<i>x</i></sub> O <sub>2â~`î</sub> : Composition trends. Journal of Materials Research, 2012, 27, 2009-2016.	1.2	56
38	Gas sensors: New materials and processing approaches. Journal of Electroceramics, 2006, 17, 1005-1012.	0.8	52
39	Acidity of surface-infiltrated binary oxides as a sensitive descriptor of oxygen exchange kinetics in mixed conducting oxides. Nature Catalysis, 2020, 3, 913-920.	16.1	52
40	ZnO Grain Boundaries: Electrical Activity and Diffusion. , 1999, 4, 33-40.		50
41	Heterogeneously doped nanocrystalline ceria films by grain boundary diffusion: Impact on transport properties. Journal of Electroceramics, 2009, 22, 405-415.	0.8	48
42	Engineering a Robust Photovoltaic Device with Quantum Dots and Bacteriorhodopsin. Journal of Physical Chemistry C, 2014, 118, 16710-16717.	1.5	47
43	Dynamic chemical expansion of thin-film non-stoichiometric oxides at extreme temperatures. Nature Materials, 2017, 16, 749-754.	13.3	46
44	Electrochemically Triggered Metal–Insulator Transition between VO <sub>2</sub> and V <sub>2</sub> O <sub>5</sub> . Advanced Functional Materials, 2018, 28, 1803024.	7.8	46
45	Highly enhanced electrochemical performance of silicon-free platinum–yttria stabilized zirconia interfaces. Journal of Electroceramics, 2009, 22, 428-435.	0.8	45
46	Oxygen diffusion and surface exchange in the mixed conducting oxides SrTi <sub>1â^y</sub> Fe <sub>y</sub> O <sub>3â^î^</sub> . Physical Chemistry Chemical Physics, 2016, 18, 29495-29505.	1.3	43
47	Electrospun SnO2 nanofiber mats with thermo-compression step for gas sensing applications. Journal of Electroceramics, 2010, 25, 159-167.	0.8	42
48	Investigation of Nonstoichiometry in Oxide Thin Films by Simultaneous <i>in Situ</i> Optical Absorption and Chemical Capacitance Measurements: Pr-Doped Ceria, a Case Study. Chemistry of Materials, 2014, 26, 1374-1379.	3.2	41
49	Constructing a pathway for mixed ion and electron transfer reactions for O2 incorporation in Pr0.1Ce0.9O2â 'x. Nature Catalysis, 2020, 3, 116-124.	16.1	40
50	Nonstoichiometry in Oxide Thin Films Operating under Anodic Conditions: A Chemical Capacitance Study of the Praseodymium–Cerium Oxide System. Chemistry of Materials, 2014, 26, 6622-6627.	3.2	39
51	Voltage ontrolled Nonstoichiometry in Oxide Thin Films: Pr <sub>0.1</sub> Ce <sub>0.9</sub> Ó <sub>2â^Î</sub> Case Study. Advanced Functional Materials, 2014, 24, 7638-7644.	7.8	37
52	Field-induced antiferroelectric–ferroelectric phase transitions in the Pb0.98La0.02(Zr0.70Hf0.30)1â~'xTixO3 system. Journal of Applied Physics, 2000, 87, 1458-1466.	1.1	33
53	Phase Stability and Electrical Conductivity in Gd <sub>2</sub> Ti <sub>2</sub> O <sub>7</sub> â€Gd <sub>2</sub> Mo <sub>2</sub> O <sub>7</sub> Solid Solutions. Journal of the American Ceramic Society, 1997, 80, 2278-2284.	1.9	33
54	In Situ Method Correlating Raman Vibrational Characteristics to Chemical Expansion via Oxygen Nonstoichiometry of Perovskite Thin Films. Advanced Materials, 2019, 31, e1902493.	11.1	33

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55	The interplay and impact of strain and defect association on the conductivity of rare-earth substituted ceria. Acta Materialia, 2019, 166, 447-458.	3.8	33
56	Thermogravimetric Analysis and Defect Models of the Oxygen Nonstoichiometry in La2-xSrxCuO4-y. Journal of the American Ceramic Society, 1994, 77, 2727-2737.	1.9	31
57	Impact of Moisture and Fluorocarbon Passivation on the Current Collapse of AlGaN/GaN HEMTs. IEEE Electron Device Letters, 2012, 33, 1378-1380.	2.2	31
58	Fabrication and structural characterization of interdigitated thin film La1 â^' xSrxCoO3(LSCO) electrodes. Journal of Electroceramics, 2006, 16, 151-157.	0.8	30
59	On the Theoretical and Experimental Control of Defect Chemistry and Electrical and Photoelectrochemical Properties of Hematite Nanostructures. ACS Applied Materials & Interfaces, 2019, 11, 2031-2041.	4.0	29
60	Low leakage current—stacked MgOâ^•Bi1.5Zn1.0Nb1.5O7 gate insulator— for low voltage ZnO thin film transistors. Applied Physics Letters, 2006, 89, 202908.	1.5	27
61	Defect Chemistry of Pr Doped Ceria Thin Films Investigated by <i>in Situ</i> Optical and Impedance Measurements. Chemistry of Materials, 2017, 29, 1999-2007.	3.2	27
62	Optically derived energy band gap states of Pr in ceria. Solid State Ionics, 2012, 225, 198-200.	1.3	26
63	On the redox origin of surface trapping in AlGaN/GaN high electron mobility transistors. Journal of Applied Physics, 2014, 115, .	1.1	26
64	Nonstoichiometry and Defect Chemistry in Praseodymium-Cerium Oxide. Journal of Electroceramics, 2004, 13, 799-803.	0.8	25
65	Synergistic Integration of Chemoâ€Resistive and SERS Sensing for Labelâ€Free Multiplex Gas Detection. Advanced Materials, 2021, 33, e2105199.	11.1	25
66	Operando reduction of elastic modulus in (Pr, Ce)O2â^' thin films. Acta Materialia, 2016, 105, 16-24.	3.8	24
67	Surface Defect Chemistry and Electronic Structure of Pr0.1Ce0.9O2â <sup>~</sup> î <sup>~</sup> Revealed in Operando. Chemistry of Materials, 2018, 30, 2600-2606.	3.2	24
68	Advanced Sensor Technology Based on Oxide Thin Film—MEMS Integration. , 2000, 4, 415-425.		22
69	Defect chemistry of langasite III: Predictions of electrical and gravimetric properties and application to operation of high temperature crystal microbalance. Journal of Electroceramics, 2007, 18, 139-147.	0.8	22
70	Ridge waveguide using highly oriented BaTiO <sub>3</sub> thin films for electro-optic application. Journal of Asian Ceramic Societies, 2014, 2, 231-234.	1.0	20
71	A Three Component Selfâ€Assembled Epitaxial Nanocomposite Thin Film. Advanced Functional Materials, 2015, 25, 3091-3100 Hydration of gadolinium oxide ( <mml:math) (xmlns:mml="http://ww&lt;/td&gt;&lt;td&gt;7.8&lt;br&gt;ww.w3.org/&lt;/td&gt;&lt;td&gt;20&lt;br&gt;/1998/Math/N&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;72&lt;/td&gt;&lt;td&gt;its effect on voltage-induced Co oxidation in a &lt;mml:math&lt;br&gt;xmlns:mml=" 0="" 10="" 1998="" 50="" 87="" etqq0="" http:="" math="" mathmi"="" overlock="" rgbt="" td="" tf="" tj="" www.w3.org=""><mml:mrow><mml:mi>Pt</mml:mi>cmml:mo&gt;/<td>0.9</td><td>20 ni&gt;Coc/mml·n</td></mml:mrow></mml:math)>	0.9	20 ni>Coc/mml·n

xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>Pt</mml:mi><mml:mo>/</mml:mo><mml:mi>Co</mml:m mathvariant="normal">O</mml:mi><mml:mi>x</mml:mi></mml:msub>. Physical Review Materials, 2019, 3

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73	Photo-enhanced ionic conductivity across grain boundaries in polycrystalline ceramics. Nature Materials, 2022, 21, 438-444.	13.3	19
74	Thermodynamics of molten Li-Sn alloys. Metallurgical and Materials Transactions A - Physical Metallurgy and Materials Science, 1988, 19, 637-644.	1.4	18
75	Thermal conductivity control by oxygen defect concentration modification in reducible oxides: The case of Pr0.1Ce0.9O2⠴δ thin films. Applied Physics Letters, 2014, 104, .	1.5	17
76	Magnetism and Faraday Rotation in Oxygen-Deficient Polycrystalline and Single-Crystal Iron-Substituted Strontium Titanate. Physical Review Applied, 2017, 7, .	1.5	16
77	In situ phase equilibria determination of a manganese ferrite by electrical means. Journal of Materials Research, 1988, 3, 552-556.	1.2	15
78	Electrical Properties and Phase Stability of a Zinc Ferrite. Journal of the American Ceramic Society, 1990, 73, 258-262.	1.9	15
79	Electronic Conductivity and Dielectric Properties of Nanocrystalline CeO2 Films. Journal of Electroceramics, 2004, 13, 129-133.	0.8	15
80	In Situ Electrical Characterization of Anatase TiO <sub>2</sub> Quantum Dots. Advanced Functional Materials, 2014, 24, 4952-4958.	7.8	14
81	The Electrical and Defect Properties of Bi3Zn2Sb3O14Pyrochlore: A Grain-Boundary Phase in ZnO-Based Varistors. , 2001, 7, 113-120.		13
82	Electrical Conduction in Ceramics: Toward Improved Defect Interpretation. Geophysical Monograph Series, 0, , 47-68.	0.1	13
83	Stabilizing Coexisting n-Type Electronic and Oxide Ion Conductivities in Donor-Doped Ba–In-Based Oxides under Oxidizing Conditions: Roles of Oxygen Disorder and Electronic Structure. Chemistry of Materials, 2019, 31, 2713-2722.	3.2	13
84	Three dimensional arrays of hollow gadolinia-doped ceria microspheres prepared by r.f. magnetron sputtering employing PMMA microsphere templates. Journal of Electroceramics, 2006, 17, 695-699.	0.8	12
85	Defect Structure, Charge Transport Mechanisms, and Strain Effects in Sr4Fe6O12+δEpitaxial Thin Films. Chemistry of Materials, 2010, 22, 1452-1461.	3.2	12
86	Universality of electron mobility in LaAlO3/SrTiO3 and bulk SrTiO3. Applied Physics Letters, 2017, 111, .	1.5	12
87	Defects and Transport in Langasite II: Donor-doped (La3Ga4.75Nb0.25SiO14). Journal of Electroceramics, 2005, 15, 193-202.	0.8	11
88	In situ dilatometric and impedance spectroscopic study of core–shell like structures: insights into the exceptional catalytic activity of nanocrystalline Cu-doped CeO <sub>2</sub> . Journal of Materials Chemistry A, 2015, 3, 8369-8379.	5.2	11
89	Praseodymium Cuprate Thin Film Cathodes for Intermediate Temperature Solid Oxide Fuel Cells: Roles of Doping, Orientation, and Crystal Structure. ACS Applied Materials & Interfaces, 2016, 8, 34295-34302.	4.0	11
90	Perspective on the Relationship between the Acidity of Perovskite Oxides and Their Oxygen Surface Exchange Kinetics. Chemistry of Materials, 2022, 34, 991-997.	3.2	11

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91	Thin-film nano-thermogravimetry applied to praseodymium-cerium oxide films at high temperatures. Applied Physics Letters, 2018, 112, .	1.5	10
92	Dynamic Current–Voltage Analysis of Oxygen Vacancy Mobility in Praseodymiumâ€Đoped Ceria over Wide Temperature Limits. Advanced Functional Materials, 2020, 30, 1907402.	7.8	9
93	Silica: ubiquitous poison of metal oxide interfaces. Journal of Materials Chemistry A, 2022, 10, 2618-2636.	5.2	9
94	Oxygen Nonstoichiometry and Defects in Mn-Doped Gd2 Ti2 O7+x. Journal of the American Ceramic Society, 1996, 79, 3078-3082.	1.9	8
95	Atomic Resolution Imaging of Nanoscale Chemical Expansion in Pr <sub><i>x</i></sub> Ce <sub>1–<i>x</i></sub> O <sub>2â^î^</sub> during <i>In Situ</i> Heating. ACS Nano, 2018, 12, 1359-1372.	7.3	8
96	Tailoring Nonstoichiometry and Mixed Ionic Electronic Conductivity in Pr <sub>0.1</sub> Ce <sub>0.9</sub> O <sub>2â^î´</sub> /SrTiO <sub>3</sub> Heterostructures. ACS Applied Materials & Interfaces, 2019, 11, 34841-34853.	4.0	7
97	Thin-film chemical expansion of ceria based solid solutions: laser vibrometry study. Zeitschrift Fur Physikalische Chemie, 2022, 236, 1013-1053.	1.4	7
98	Strain-Dependent Surface Defect Equilibria of Mixed Ionic-Electronic Conducting Perovskites. Chemistry of Materials, 2022, 34, 5138-5150.	3.2	7
99	Growth of TiO <sub>2</sub> Single Crystals and Bicrystals by the Laserâ€Heated Floatingâ€Zone Method. Journal of the American Ceramic Society, 1998, 81, 592-596.	1.9	6
100	Sensors: Thinâ€Wall Assembled SnO <sub>2</sub> Fibers Functionalized by Catalytic Pt Nanoparticles and their Superior Exhaledâ€Breathâ€6ensing Properties for the Diagnosis of Diabetes (Adv. Funct. Mater.) Tj ET	∫Qq12800r	gBT6/Overlocl
101	Electro-chemo-mechanical studies of perovskite-structured mixed ionic-electronic conducting SrSn1-xFexO3-x/2+l´part I: Defect chemistry. Journal of Electroceramics, 2017, 38, 74-80.	0.8	6
102	Role of grain size on redox induced compositional stresses in Pr doped ceria thin films. Physical Chemistry Chemical Physics, 2017, 19, 12206-12220.	1.3	6
103	Mixed conductivity and oxygen surface exchange kinetics of lanthanum-praseodymium doped cerium dioxide. Solid State Ionics, 2019, 331, 96-101.	1.3	6
104	Active Tuning of Optical Constants in the Visible–UV: Praseodymiumâ€Đoped Ceria—a Model Mixed Ionic–Electronic Conductor. Advanced Optical Materials, 2021, 9, 2001934.	3.6	6
105	Modulation and Modeling of Threeâ€Dimensional Nanowire Assemblies Targeting Gas Sensors with High Response and Reliability. Advanced Functional Materials, 2022, 32, 2108891.	7.8	6
106	The Transport Properties and Defect Chemistry of La2-XSrXCuO4-δ. Materials Research Society Symposia Proceedings, 1989, 169, 65.	0.1	5
107	Nonstoichiometry and Mixed Conduction in alpha-Ta2O5. Journal of the American Ceramic Society, 1990, 73, 1700-1704.	1.9	5
108	Chemical, Electronic and Nanostructure Dynamics on Sr(Ti1-xFex)O3 Thin-Film Surfaces at High Temperatures. ECS Transactions, 2011, 35, 2409-2416.	0.3	5

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109	Electrical conductivity relaxation measurements: Application of low thermal mass heater stick. Solid State Ionics, 2014, 262, 914-917.	1.3	5
110	Measuring ionic mobility in mixed-ionic-electronic-conducting nano-dimensioned thin films at near ambient temperatures. Solid State Ionics, 2018, 319, 291-295.	1.3	5
111	Role of Adsorbate Coverage on the Oxygen Dissociation Rate on Sr-Doped LaMnO3 Surfaces in the Presence of H2O and CO2. Chemistry of Materials, 2020, 32, 5483-5492.	3.2	5
112	CeO 2 Nanorods and Nanocubes: Impact of Nanoparticle Shape on Dilatometry and Electrical Properties. Journal of the American Ceramic Society, 2016, 99, 2415-2421.	1.9	4
113	Temporal and spatial tuning of optical constants in praseodymium doped ceria by electrochemical means. Nanophotonics, 2022, 11, 3943-3952.	2.9	4
114	Electrical Conductivity in Praseodymium-Cerium Oxide. Materials Research Society Symposia Proceedings, 2002, 756, 1.	0.1	3
115	Electro-chemo-mechanical studies of perovskite-structured mixed ionic-electronic conducting SrSn1-xFexO3-x/2+l´Part III: Thermal and chemical expansion. Journal of Electroceramics, 2018, 40, 332-337.	0.8	3
116	Electro-chemo-mechanical studies of perovskite-structured mixed ionic-electronic conducting SrSn1-xFexO3-x/2+l´ part II: Electrical conductivity and cathode performance. Journal of Electroceramics, 2018, 40, 57-64.	0.8	3
117	The Influence of Cr-Additives on the Polarization Resistance of Praseodymium-Doped Ceria Cathodes for Solid Oxide Fuel Cells. Journal of the Electrochemical Society, 2022, 169, 044530.	1.3	3
118	The Oxygen Defect Chemistry of La2â^'xSrxCuO4â^'x/2+δ. Materials Research Society Symposia Proceedings, 1990, 209, 867.	0.1	2
119	Micro Fuel Cells. , 0, , 51-80.		2
120	Editorial for JECR special issue on defects & relaxation processes in crystalline and amorphous solids. Journal of Electroceramics, 2015, 34, 1-3.	0.8	2
121	Impact of Oxygen Nonâ€Stoichiometry on Nearâ€Ambient Temperature Ionic Mobility in Polaronic Mixedâ€Ionicâ€Electronic Conducting Thin Films. Advanced Functional Materials, 2021, 31, 2005640.	7.8	2
122	Electrical Properties of Donor and Acceptor Doped Gd2Ti2O7. Materials Research Society Symposia Proceedings, 1994, 369, 703.	0.1	1
123	Rietveld X-ray Powder Profile Analysis and Electrical Conductivity of Fastion Conducting Gd2(Til-ySny)2O7 Solid Solutions. Materials Research Society Symposia Proceedings, 1996, 453, 567.	0.1	1
124	Praseodymium-Cerium Oxide as a Surface-Effect Gas Sensor. Journal of Electroceramics, 2004, 13, 771-774.	0.8	1
125	Thin Film Praseodymium-Cerium Oxide Langasite-Based Microbalance Gas Sensor. Journal of Electroceramics, 2004, 13, 775-778.	0.8	1
126	Low frequency and microwave performances of Ba0.6Sr0.4TiO3 films on atomic layer deposited TiO2/high resistivity Si substrates. Journal of Electroceramics, 2006, 17, 421-425.	0.8	1

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127	Nano-Structured Materials for Next Generation Fuel Cells and Photoelectrochemical Devices. Materials Research Society Symposia Proceedings, 2011, 1326, 1.	0.1	1
128	Protein-Encapsulated Catalysts: WO3 Nanofiber-Based Biomarker Detectors Enabled by Protein-Encapsulated Catalyst Self-Assembled on Polystyrene Colloid Templates (Small 7/2016). Small, 2016, 12, 964-964.	5.2	1
129	Synergistic Integration of Chemoâ€Resistive and SERS Sensing for Labelâ€Free Multiplex Gas Detection (Adv. Mater. 44/2021). Advanced Materials, 2021, 33, 2170350.	11.1	1
130	Oxygen Diffusion in La2â^'Xsrxcuo4â^'Y. Materials Research Society Symposia Proceedings, 1990, 209, 795.	0.1	0
131	Electrical Conductivity in (Gdl-xCax)2Sn2O7±δPyrochlore System. Materials Research Society Symposia Proceedings, 1994, 369, 371.	0.1	0
132	New Mixed Conductors Based on Doped Layered Perovskites. Materials Research Society Symposia Proceedings, 1998, 548, 533.	0.1	0
133	Investigation of Pt/Si/CeO2/Pt MOS Device Structure by Impedance Spectroscopy. Materials Research Society Symposia Proceedings, 2001, 699, 511.	0.1	0
134	Oxide-Ion Transport in Gadolinium Zirconate - Titanates under High Pressure. Materials Research Society Symposia Proceedings, 2004, 835, K2.10.1.	0.1	0
135	Investigation of Cathode Behavior of Model Thin Film SrTi1-xFexO3-δ Mixed Ionic-Electronic Conducting Electrodes. Materials Research Society Symposia Proceedings, 2008, 1126, 1.	0.1	0
136	Fuel Cells: Electronic Activation of Cathode Superlattices at Elevated Temperatures – Source of Markedly Accelerated Oxygen Reduction Kinetics (Adv. Energy Mater. 9/2013). Advanced Energy Materials, 2013, 3, 1110-1110.	10.2	0
137	The Direct Measurement of Ionic Piezoresistance. Materials Research Society Symposia Proceedings, 2015, 1730, 7.	0.1	Ο
138	(Invited) Oxygen Vacancy Mobility in Praseodymium Doped Ceria over Wide Temperature Limits. ECS Meeting Abstracts, 2020, MA2020-01, 1472-1472.	0.0	0
139	Defect Chemistry and Oxygen Ionic Conducting Properties of Gd2O3 at Elevated Temperatures. ECS Meeting Abstracts, 2020, MA2020-01, 1030-1030.	0.0	0
140	Photo-Enhanced Ionic Conductivity in Solid-State Oxygen Electrochemical Systems. ECS Meeting Abstracts, 2020, MA2020-01, 1645-1645.	0.0	0
141	(Invited) Dynamic Electrochemical Control of Oxide Thin Film Oxygen Stoichiometry with Application to Electrochemical Mechanical Actuation. ECS Meeting Abstracts, 2020, MA2020-01, 1797-1797.	0.0	0
142	Chemical and Electronic Sensitization Effects Promoted By Noble Metal Nanoparticles on Gas Sensors Based on SnO Nanobelts. ECS Meeting Abstracts, 2020, MA2020-01, 2072-2072.	0.0	0
143	Strain-Modified Oxygen Transport in Rare-Earth Substituted Ceria: Migration Direction and Defect Association. ECS Meeting Abstracts, 2020, MA2020-02, 2649-2649.	0.0	0
144	Analyzing the Grain Boundary Resistance in Oxygen Ion Conductors By Static and Dynamic Impedance Measurements. ECS Meeting Abstracts, 2020, MA2020-02, 1585-1585.	0.0	0

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145	Photo-Enhanced Grain Boundary Ionic Conductivity in Gadolinium Doped Ceria. ECS Meeting Abstracts, 2020, MA2020-02, 2647-2647.	0.0	0
146	Modulation and Modeling of Threeâ€Dimensional Nanowire Assemblies Targeting Gas Sensors with High Response and Reliability (Adv. Funct. Mater. 10/2022). Advanced Functional Materials, 2022, 32, .	7.8	0