

Harry L Tuller

List of Publications by Citations

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138
papers

6,311
citations

42
h-index

78
g-index

151
ext. papers

7,073
ext. citations

9.3
avg, IF

6.24
L-index

#	Paper	IF	Citations
138	Ionic conduction in nanocrystalline materials. <i>Solid State Ionics</i> , 2000 , 131, 143-157	3.3	541
137	Magneto-ionic control of interfacial magnetism. <i>Nature Materials</i> , 2015 , 14, 174-81	27	365
136	Thin-Wall Assembled SnO ₂ Fibers Functionalized by Catalytic Pt Nanoparticles and their Superior Exhaled-Breath-Sensing Properties for the Diagnosis of Diabetes. <i>Advanced Functional Materials</i> , 2013 , 23, 2357-2367	15.6	276
135	Heterogeneous Sensitization of Metal-Organic Framework Driven Metal@Metal Oxide Complex Catalysts on an Oxide Nanofiber Scaffold Toward Superior Gas Sensors. <i>Journal of the American Chemical Society</i> , 2016 , 138, 13431-13437	16.4	268
134	Understanding Chemical Expansion in Non-Stoichiometric Oxides: Ceria and Zirconia Case Studies. <i>Advanced Functional Materials</i> , 2012 , 22, 1958-1965	15.6	250
133	Point Defects in Oxides: Tailoring Materials Through Defect Engineering. <i>Annual Review of Materials Research</i> , 2011 , 41, 369-398	12.8	249
132	Advances and new directions in gas-sensing devices. <i>Acta Materialia</i> , 2013 , 61, 974-1000	8.4	232
131	The Role of Hierarchical Morphologies in the Superior Gas Sensing Performance of CuO-Based Chemiresistors. <i>Advanced Functional Materials</i> , 2013 , 23, 1759-1766	15.6	218
130	Investigation of surface Sr segregation in model thin film solid oxide fuel cell perovskite electrodes. <i>Energy and Environmental Science</i> , 2012 , 5, 5370-5378	35.4	207
129	Solid-State Ionics: Roots, Status, and Future Prospects. <i>Journal of the American Ceramic Society</i> , 2004 , 85, 1654-1680	3.8	188
128	Mesoporous WO ₃ Nanofibers with Protein-Templated Nanoscale Catalysts for Detection of Trace Biomarkers in Exhaled Breath. <i>ACS Nano</i> , 2016 , 10, 5891-9	16.7	173
127	Impact of Sr segregation on the electronic structure and oxygen reduction activity of SrTi _{1-x} FexO ₃ surfaces. <i>Energy and Environmental Science</i> , 2012 , 5, 7979	35.4	142
126	A New Model Describing Solid Oxide Fuel Cell Cathode Kinetics: Model Thin Film SrTi _{1-x} FexO _{3-δ} Mixed Conducting Oxides Case Study. <i>Advanced Energy Materials</i> , 2011 , 1, 1184-1191	21.8	128
125	Electrospun Polyaniline Fibers as Highly Sensitive Room Temperature Chemiresistive Sensors for Ammonia and Nitrogen Dioxide Gases. <i>Advanced Functional Materials</i> , 2014 , 24, 4005-4014	15.6	127
124	Electrical conductivity and defect equilibria of Pr _{0.1} Ce _{0.9} O _{2-δ} . <i>Physical Chemistry Chemical Physics</i> , 2011 , 13, 10165-73	3.6	125
123	Coaxial electrospinning of WO ₃ nanotubes functionalized with bio-inspired Pd catalysts and their superior hydrogen sensing performance. <i>Nanoscale</i> , 2016 , 8, 9159-66	7.7	120
122	Defect Structure and Electrical Properties of Single-Crystal Ba _{0.03} Sr _{0.97} TiO ₃ . <i>Journal of the American Ceramic Society</i> , 1988 , 71, 201-205	3.8	112

121	Magneto-ionic control of magnetism using a solid-state proton pump. <i>Nature Materials</i> , 2019 , 18, 35-41	27	112
120	Fabrication and structural characterization of self-supporting electrolyte membranes for a micro solid-oxide fuel cell. <i>Journal of Materials Research</i> , 2004 , 19, 2604-2615	2.5	111
119	Low-voltage ZnO thin-film transistors with high-KBi _{1.5} Zn _{1.0} Nb _{1.5} O ₇ gate insulator for transparent and flexible electronics. <i>Applied Physics Letters</i> , 2005 , 87, 043509	3.4	88
118	Exceptional High-Performance of Pt-Based Bimetallic Catalysts for Exclusive Detection of Exhaled Biomarkers. <i>Advanced Materials</i> , 2017 , 29, 1700737	24	84
117	Micro-ionics: next generation power sources. <i>Physical Chemistry Chemical Physics</i> , 2009 , 11, 3023-34	3.6	79
116	Solar to fuels conversion technologies: a perspective. <i>Materials for Renewable and Sustainable Energy</i> , 2017 , 6, 3	4.7	74
115	Electronic Activation of Cathode Superlattices at Elevated Temperatures [Source of Markedly Accelerated Oxygen Reduction Kinetics. <i>Advanced Energy Materials</i> , 2013 , 3, 1221-1229	21.8	74
114	Praseodymium-cerium oxide thin film cathodes: Study of oxygen reduction reaction kinetics. <i>Journal of Electroceramics</i> , 2012 , 28, 62-69	1.5	70
113	Oxygen Tracer Diffusion in La _{2-x} Sr _x CuO _{4-y} Single Crystals. <i>Journal of the American Ceramic Society</i> , 1993 , 76, 2363-2369	3.8	67
112	WO ₃ Nanofiber-Based Biomarker Detectors Enabled by Protein-Encapsulated Catalyst Self-Assembled on Polystyrene Colloid Templates. <i>Small</i> , 2016 , 12, 911-20	11	62
111	Vertically aligned nanocomposite La _{0.8} Sr _{0.2} CoO ₃ /(La _{0.5} Sr _{0.5}) ₂ CoO ₄ cathodes [Electronic structure, surface chemistry and oxygen reduction kinetics. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 207-219	13	60
110	Chemical expansion of nonstoichiometric Pr _{0.1} Ce _{0.9} O ₂ [Correlation with defect equilibrium model. <i>Journal of the European Ceramic Society</i> , 2011 , 31, 2351-2356	6	60
109	Iron-Excess Manganese Ferrite: Electrical Conductivity and Cation Distributions. <i>Journal of the American Ceramic Society</i> , 1987 , 70, 388-392	3.8	59
108	Direct current bias effects on grain boundary Schottky barriers in CaCu ₃ Ti ₄ O ₁₂ . <i>Applied Physics Letters</i> , 2006 , 88, 072902	3.4	57
107	Scalable Oxygen-Ion Transport Kinetics in Metal-Oxide Films: Impact of Thermally Induced Lattice Compaction in Acceptor Doped Ceria Films. <i>Advanced Functional Materials</i> , 2014 , 24, 1562-1574	15.6	55
106	Facile synthesis and electrochemical properties of RuO ₂ nanofibers with ionically conducting hydrous layer. <i>Journal of Materials Chemistry</i> , 2010 , 20, 9172		52
105	Solid State Electrochemical Systems [Opportunities for Nanofabricated or Nanostructured Materials 1997 , 1, 211-218		52
104	Defects and transport in Pr _x Ce _{1-x} O ₂ [Composition trends. <i>Journal of Materials Research</i> , 2012 , 27, 2009-2016	2.5	50

103	Non-stoichiometry in Oxide Thin Films: A Chemical Capacitance Study of the Praseodymium-Cerium Oxide System. <i>Advanced Functional Materials</i> , 2013 , 23, 2168-2174	15.6	49
102	Gas sensors: New materials and processing approaches. <i>Journal of Electroceramics</i> , 2006 , 17, 1005-1012	1.5	49
101	Tunable Oxygen Diffusion and Electronic Conduction in SrTiO ₃ by Dislocation-Induced Space Charge Fields. <i>Advanced Functional Materials</i> , 2017 , 27, 1700243	15.6	47
100	Heterogeneously doped nanocrystalline ceria films by grain boundary diffusion: Impact on transport properties. <i>Journal of Electroceramics</i> , 2009 , 22, 405-415	1.5	47
99	Engineering a Robust Photovoltaic Device with Quantum Dots and Bacteriorhodopsin. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 16710-16717	3.8	44
98	ZnO Grain Boundaries: Electrical Activity and Diffusion 1999 , 4, 33-40		43
97	Highly enhanced electrochemical performance of silicon-free platinum/yttria stabilized zirconia interfaces. <i>Journal of Electroceramics</i> , 2009 , 22, 428-435	1.5	42
96	Investigation of Nonstoichiometry in Oxide Thin Films by Simultaneous in Situ Optical Absorption and Chemical Capacitance Measurements: Pr-Doped Ceria, a Case Study. <i>Chemistry of Materials</i> , 2014 , 26, 1374-1379	9.6	37
95	Electrospun SnO ₂ nanofiber mats with thermo-compression step for gas sensing applications. <i>Journal of Electroceramics</i> , 2010 , 25, 159-167	1.5	37
94	Oxygen diffusion and surface exchange in the mixed conducting oxides SrTiFeO. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 29495-29505	3.6	36
93	Dynamic chemical expansion of thin-film non-stoichiometric oxides at extreme temperatures. <i>Nature Materials</i> , 2017 , 16, 749-754	27	32
92	Field-induced antiferroelectric/ferroelectric phase transitions in the Pb _{0.98} La _{0.02} (Zr _{0.70} Hf _{0.30}) _{1-x} Ti _x O ₃ system. <i>Journal of Applied Physics</i> , 2000 , 87, 1458-1466	2.5	30
91	Impact of Moisture and Fluorocarbon Passivation on the Current Collapse of AlGaIn/GaN HEMTs. <i>IEEE Electron Device Letters</i> , 2012 , 33, 1378-1380	4.4	29
90	Voltage-Controlled Nonstoichiometry in Oxide Thin Films: Pr _{0.1} Ce _{0.9} O ₂ Case Study. <i>Advanced Functional Materials</i> , 2014 , 24, 7638-7644	15.6	28
89	Nonstoichiometry in Oxide Thin Films Operating under Anodic Conditions: A Chemical Capacitance Study of the Praseodymium-Cerium Oxide System. <i>Chemistry of Materials</i> , 2014 , 26, 6622-6627	9.6	28
88	Fabrication and structural characterization of interdigitated thin film La _{1-x} Sr _x CoO ₃ (LSCO) electrodes. <i>Journal of Electroceramics</i> , 2006 , 16, 151-157	1.5	27
87	Thermogravimetric Analysis and Defect Models of the Oxygen Nonstoichiometry in La _{2-x} Sr _x CuO _{4-y} . <i>Journal of the American Ceramic Society</i> , 1994 , 77, 2727-2737	3.8	27
86	The interplay and impact of strain and defect association on the conductivity of rare-earth substituted ceria. <i>Acta Materialia</i> , 2019 , 166, 447-458	8.4	25

85	Electrochemically Triggered Metal-Insulator Transition between VO ₂ and V ₂ O ₅ . <i>Advanced Functional Materials</i> , 2018 , 28, 1803024	15.6	25
84	Defect Chemistry of Pr Doped Ceria Thin Films Investigated by in Situ Optical and Impedance Measurements. <i>Chemistry of Materials</i> , 2017 , 29, 1999-2007	9.6	24
83	Optically derived energy band gap states of Pr in ceria. <i>Solid State Ionics</i> , 2012 , 225, 198-200	3.3	24
82	Low leakage current-stacked MgOBi _{1.5} Zn _{1.0} Nb _{1.5} O ₇ gate insulator-for low voltage ZnO thin film transistors. <i>Applied Physics Letters</i> , 2006 , 89, 202908	3.4	24
81	Nonstoichiometry and Defect Chemistry in Praseodymium-Cerium Oxide. <i>Journal of Electroceramics</i> , 2004 , 13, 799-803	1.5	23
80	Phase Stability and Electrical Conductivity in Gd ₂ Ti ₂ O ₇ -Gd ₂ Mo ₂ O ₇ Solid Solutions. <i>Journal of the American Ceramic Society</i> , 2005 , 80, 2278-2284	3.8	23
79	On the Theoretical and Experimental Control of Defect Chemistry and Electrical and Photoelectrochemical Properties of Hematite Nanostructures. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 2031-2041	9.5	23
78	Operando reduction of elastic modulus in (Pr, Ce)O ₂ thin films. <i>Acta Materialia</i> , 2016 , 105, 16-24	8.4	22
77	Constructing a pathway for mixed ion and electron transfer reactions for O ₂ incorporation in Pr _{0.1} Ce _{0.9} O _{2-x} . <i>Nature Catalysis</i> , 2020 , 3, 116-124	36.5	22
76	On the redox origin of surface trapping in AlGa _N /Ga _N high electron mobility transistors. <i>Journal of Applied Physics</i> , 2014 , 115, 124506	2.5	20
75	Defect chemistry of langasite III: Predictions of electrical and gravimetric properties and application to operation of high temperature crystal microbalance. <i>Journal of Electroceramics</i> , 2007 , 18, 139-147	1.5	19
74	A Three Component Self-Assembled Epitaxial Nanocomposite Thin Film. <i>Advanced Functional Materials</i> , 2015 , 25, 3091-3100	15.6	17
73	Advanced Sensor Technology Based on Oxide Thin Film-MEMS Integration 2000 , 4, 415-425		17
72	Thermodynamics of molten Li-Sn alloys. <i>Metallurgical and Materials Transactions A - Physical Metallurgy and Materials Science</i> , 1988 , 19, 637-644		17
71	Acidity of surface-infiltrated binary oxides as a sensitive descriptor of oxygen exchange kinetics in mixed conducting oxides. <i>Nature Catalysis</i> , 2020 , 3, 913-920	36.5	17
70	In Situ Method Correlating Raman Vibrational Characteristics to Chemical Expansion via Oxygen Nonstoichiometry of Perovskite Thin Films. <i>Advanced Materials</i> , 2019 , 31, e1902493	24	16
69	Thermal conductivity control by oxygen defect concentration modification in reducible oxides: The case of Pr _{0.1} Ce _{0.9} O _{2-x} thin films. <i>Applied Physics Letters</i> , 2014 , 104, 061911	3.4	15
68	Hydration of gadolinium oxide (GdO _x) and its effect on voltage-induced Co oxidation in a Pt/Co/GdO _x /Au heterostructure. <i>Physical Review Materials</i> , 2019 , 3,	3.2	15

67	Surface Defect Chemistry and Electronic Structure of Pr _{0.1} Ce _{0.9} O ₂ Revealed in Operando. <i>Chemistry of Materials</i> , 2018 , 30, 2600-2606	9.6	14
66	Electronic Conductivity and Dielectric Properties of Nanocrystalline CeO ₂ Films. <i>Journal of Electroceramics</i> , 2004 , 13, 129-133	1.5	14
65	In situ phase equilibria determination of a manganese ferrite by electrical means. <i>Journal of Materials Research</i> , 1988 , 3, 552-556	2.5	14
64	Three dimensional arrays of hollow gadolinia-doped ceria microspheres prepared by r.f. magnetron sputtering employing PMMA microsphere templates. <i>Journal of Electroceramics</i> , 2006 , 17, 695-699	1.5	12
63	In situ dilatometric and impedance spectroscopic study of core-shell like structures: insights into the exceptional catalytic activity of nanocrystalline Cu-doped CeO ₂ . <i>Journal of Materials Chemistry A</i> , 2015 , 3, 8369-8379	13	11
62	In Situ Electrical Characterization of Anatase TiO ₂ Quantum Dots. <i>Advanced Functional Materials</i> , 2014 , 24, 4952-4958	15.6	11
61	Ridge waveguide using highly oriented BaTiO ₃ thin films for electro-optic application Peer review under responsibility of The Ceramic Society of Japan and the Korean Ceramic Society. View all notes. <i>Journal of Asian Ceramic Societies</i> , 2014 , 2, 231-234	2.4	11
60	Magnetism and Faraday Rotation in Oxygen-Deficient Polycrystalline and Single-Crystal Iron-Substituted Strontium Titanate. <i>Physical Review Applied</i> , 2017 , 7,	4.3	10
59	Defect Structure, Charge Transport Mechanisms, and Strain Effects in Sr ₄ Fe ₆ O ₁₂ Epitaxial Thin Films. <i>Chemistry of Materials</i> , 2010 , 22, 1452-1461	9.6	10
58	Defects and Transport in Langasite II: Donor-doped (La ₃ Ga _{4.75} Nb _{0.25} SiO ₁₄). <i>Journal of Electroceramics</i> , 2005 , 15, 193-202	1.5	10
57	Electrical Properties and Phase Stability of a Zinc Ferrite. <i>Journal of the American Ceramic Society</i> , 1990 , 73, 258-262	3.8	10
56	Universality of electron mobility in LaAlO ₃ /SrTiO ₃ and bulk SrTiO ₃ . <i>Applied Physics Letters</i> , 2017 , 111, 092106	3.4	9
55	Electrical Conduction in Ceramics: Toward Improved Defect Interpretation. <i>Geophysical Monograph Series</i> , 2013 , 47-68	1.1	8
54	The Electrical and Defect Properties of Bi ₃ Zn ₂ Sb ₃ O ₁₄ Pyrochlore: A Grain-Boundary Phase in ZnO-Based Varistors 2001 , 7, 113-120		8
53	Thin-film nano-thermogravimetry applied to praseodymium-cerium oxide films at high temperatures. <i>Applied Physics Letters</i> , 2018 , 112, 213502	3.4	8
52	Stabilizing Coexisting n-Type Electronic and Oxide Ion Conductivities in Donor-Doped Ba _{1-x} Bi _x -Based Oxides under Oxidizing Conditions: Roles of Oxygen Disorder and Electronic Structure. <i>Chemistry of Materials</i> , 2019 , 31, 2713-2722	9.6	7
51	Praseodymium Cuprate Thin Film Cathodes for Intermediate Temperature Solid Oxide Fuel Cells: Roles of Doping, Orientation, and Crystal Structure. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 34295-34302	8.5	7
50	Sensors: Thin-Wall Assembled SnO ₂ Fibers Functionalized by Catalytic Pt Nanoparticles and their Superior Exhaled-Breath-Sensing Properties for the Diagnosis of Diabetes (Adv. Funct. Mater. 19/2013). <i>Advanced Functional Materials</i> , 2013 , 23, 2342-2342	15.6	6

49	Electro-chemo-mechanical studies of perovskite-structured mixed ionic-electronic conducting SrSn _{1-x} FexO _{3-x/2+} Part I: Defect chemistry. <i>Journal of Electroceramics</i> , 2017 , 38, 74-80	1.5	5
48	Dynamic Current-Voltage Analysis of Oxygen Vacancy Mobility in Praseodymium-Doped Ceria over Wide Temperature Limits. <i>Advanced Functional Materials</i> , 2020 , 30, 1907402	15.6	5
47	Atomic Resolution Imaging of Nanoscale Chemical Expansion in PrCeO during In Situ Heating. <i>ACS Nano</i> , 2018 , 12, 1359-1372	16.7	5
46	Mixed conductivity and oxygen surface exchange kinetics of lanthanum-praseodymium doped cerium dioxide. <i>Solid State Ionics</i> , 2019 , 331, 96-101	3.3	5
45	Measuring ionic mobility in mixed-ionic-electronic-conducting nano-dimensioned thin films at near ambient temperatures. <i>Solid State Ionics</i> , 2018 , 319, 291-295	3.3	5
44	Role of grain size on redox induced compositional stresses in Pr doped ceria thin films. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 12206-12220	3.6	4
43	Tailoring Nonstoichiometry and Mixed Ionic Electronic Conductivity in PrCeO/SrTiO Heterostructures. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 34841-34853	9.5	4
42	Chemical, Electronic and Nanostructure Dynamics on Sr(Ti _{1-x} Fex)O ₃ Thin-Film Surfaces at High Temperatures. <i>ECS Transactions</i> , 2011 , 35, 2409-2416	1	4
41	Growth of TiO ₂ Single Crystals and Bicrystals by the Laser-Heated Floating-Zone Method. <i>Journal of the American Ceramic Society</i> , 2005 , 81, 592-596	3.8	4
40	Oxygen Nonstoichiometry and Defects in Mn-Doped Gd ₂ Ti ₂ O _{7+x} . <i>Journal of the American Ceramic Society</i> , 1996 , 79, 3078-3082	3.8	4
39	The Transport Properties and Defect Chemistry of La _{2-x} SrxCuO ₄ . <i>Materials Research Society Symposia Proceedings</i> , 1989 , 169, 65		4
38	Nonstoichiometry and Mixed Conduction in δ-Ta ₂ O ₅ . <i>Journal of the American Ceramic Society</i> , 1990 , 73, 1700-1704	3.8	4
37	Synergistic Integration of Chemo-Resistive and SERS Sensing for Label-Free Multiplex Gas Detection. <i>Advanced Materials</i> , 2021 , 33, e2105199	24	4
36	Role of Adsorbate Coverage on the Oxygen Dissociation Rate on Sr-Doped LaMnO ₃ Surfaces in the Presence of H ₂ O and CO ₂ . <i>Chemistry of Materials</i> , 2020 , 32, 5483-5492	9.6	3
35	Electro-chemo-mechanical studies of perovskite-structured mixed ionic-electronic conducting SrSn _{1-x} FexO _{3-x/2+} Part III: Thermal and chemical expansion. <i>Journal of Electroceramics</i> , 2018 , 40, 332-337 ¹⁵		3
34	Electro-chemo-mechanical studies of perovskite-structured mixed ionic-electronic conducting SrSn _{1-x} FexO _{3-x/2+} Part II: Electrical conductivity and cathode performance. <i>Journal of Electroceramics</i> , 2018 , 40, 57-64	1.5	3
33	Electrical conductivity relaxation measurements: Application of low thermal mass heater stick. <i>Solid State Ionics</i> , 2014 , 262, 914-917	3.3	3
32	Silica: ubiquitous poison of metal oxide interfaces. <i>Journal of Materials Chemistry A</i> , 2022 , 10, 2618-2636 ¹³		3

31	CeO ₂ Nanorods and Nanocubes: Impact of Nanoparticle Shape on Dilatometry and Electrical Properties. <i>Journal of the American Ceramic Society</i> , 2016 , 99, 2415-2421	3.8	3
30	Editorial for JECR special issue on defects & relaxation processes in crystalline and amorphous solids. <i>Journal of Electroceramics</i> , 2015 , 34, 1-3	1.5	2
29	Micro Fuel Cells		2
28	Electrical Conductivity in Praseodymium-Cerium Oxide. <i>Materials Research Society Symposia Proceedings</i> , 2002 , 756, 1		2
27	Modulation and Modeling of Three-Dimensional Nanowire Assemblies Targeting Gas Sensors with High Response and Reliability. <i>Advanced Functional Materials</i> , 2108891	15.6	2
26	Active Tuning of Optical Constants in the Visible-UV: Praseodymium-Doped Ceria Model Mixed Ionic-Electronic Conductor. <i>Advanced Optical Materials</i> , 2021 , 9, 2001934	8.1	2
25	Protein-Encapsulated Catalysts: WO ₃ Nanofiber-Based Biomarker Detectors Enabled by Protein-Encapsulated Catalyst Self-Assembled on Polystyrene Colloid Templates (Small 7/2016). <i>Small</i> , 2016 , 12, 964-964	11	1
24	Low frequency and microwave performances of Ba _{0.6} Sr _{0.4} TiO ₃ films on atomic layer deposited TiO ₂ /high resistivity Si substrates. <i>Journal of Electroceramics</i> , 2006 , 17, 421-425	1.5	1
23	Praseodymium-Cerium Oxide as a Surface-Effect Gas Sensor. <i>Journal of Electroceramics</i> , 2004 , 13, 771-774	1.5	1
22	Thin Film Praseodymium-Cerium Oxide Langasite-Based Microbalance Gas Sensor. <i>Journal of Electroceramics</i> , 2004 , 13, 775-778	1.5	1
21	Rietveld X-ray Powder Profile Analysis and Electrical Conductivity of Fast Ion Conducting Gd ₂ (Ti _{1-y} Sn _y) ₂ O ₇ Solid Solutions. <i>Materials Research Society Symposia Proceedings</i> , 1996 , 453, 567		1
20	Electrical Properties of Donor and Acceptor Doped Gd ₂ Ti ₂ O ₇ . <i>Materials Research Society Symposia Proceedings</i> , 1994 , 369, 703		1
19	The Oxygen Defect Chemistry of La _{2-x} Sr _x CuO _{4-x/2+δ} . <i>Materials Research Society Symposia Proceedings</i> , 1990 , 209, 867		1
18	Perspective on the Relationship between the Acidity of Perovskite Oxides and Their Oxygen Surface Exchange Kinetics. <i>Chemistry of Materials</i> , 2022 , 34, 991-997	9.6	1
17	Thin-film chemical expansion of ceria based solid solutions: laser vibrometry study. <i>Zeitschrift Fur Physikalische Chemie</i> , 2021 ,	3.1	1
16	Electrical Conduction in Nanostructured Ceramics		1
15	The Influence of Cr-Additives on the Polarization Resistance of Praseodymium-Doped Ceria Cathodes for Solid Oxide Fuel Cells. <i>Journal of the Electrochemical Society</i> , 2022 , 169, 044530	3.9	1
14	Nano-Structured Materials for Next Generation Fuel Cells and Photoelectrochemical Devices. <i>Materials Research Society Symposia Proceedings</i> , 2011 , 1326, 1		0

- 13 Impact of Oxygen Non-Stoichiometry on Near-Ambient Temperature Ionic Mobility in Polaronic Mixed-Ionic-Electronic Conducting Thin Films. *Advanced Functional Materials*, **2021**, 31, 2005640 15.6 0
- 12 The Direct Measurement of Ionic Piezoresistance. *Materials Research Society Symposia Proceedings*, **2015**, 1730, 7
- 11 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 21.8
- 10 Electrical Conduction in Nanostructured Ceramics **2014**, 697-727
- 9 Investigation of Cathode Behavior of Model Thin Film SrTi_{1-x}FexO₃ Mixed Ionic-Electronic Conducting Electrodes. *Materials Research Society Symposia Proceedings*, **2008**, 1126, 1
- 8 Oxide-Ion Transport in Gadolinium Zirconate - Titanates under High Pressure. *Materials Research Society Symposia Proceedings*, **2004**, 835, K2.10.1
- 7 Investigation of Pt/Si/CeO₂/Pt MOS Device Structure by Impedance Spectroscopy. *Materials Research Society Symposia Proceedings*, **2001**, 699, 511
- 6 New Mixed Conductors Based on Doped Layered Perovskites. *Materials Research Society Symposia Proceedings*, **1998**, 548, 533
- 5 Electrical Conductivity in (Gd_{1-x}Cax)₂Sn₂O₇ Pyrochlore System. *Materials Research Society Symposia Proceedings*, **1994**, 369, 371
- 4 Oxygen Diffusion in La_{2-x}Sr_xCuO_{4-y}. *Materials Research Society Symposia Proceedings*, **1990**, 209, 795
- 3 Synergistic Integration of Chemo-Resistive and SERS Sensing for Label-Free Multiplex Gas Detection (Adv. Mater. 44/2021). *Advanced Materials*, **2021**, 33, 2170350 24
- 2 Nanosession: New Technologies for Scanning Probes 143-153
- 1 Modulation and Modeling of Three-Dimensional Nanowire Assemblies Targeting Gas Sensors with High Response and Reliability (Adv. Funct. Mater. 10/2022). *Advanced Functional Materials*, **2022**, 32, 2270065 15.6