Rosario A Gerhardt

List of Publications by Citations

161 papers	3,738 citations	28 h-index	57 g-index
167 ext. papers	4,033 ext. citations	3.9 avg, IF	5.48 L-index

#	Paper	IF	Citations
161	Impedance and dielectric spectroscopy revisited: Distinguishing localized relaxation from long-range conductivity. *Journal of Physics and Chemistry of Solids*, **1994**, 55, 1491-1506	3.9	634
160	Grain-Boundary Effect in Ceria Doped with Trivalent Cations: I, Electrical Measurements. *Journal of the American Ceramic Society*, **1986**, 69, 641-646	3.8	241
159	Synthesis and Structure Characterization of Copper Terephthalate Metal Organic Frameworks. *European Journal of Inorganic Chemistry*, **2009**, 2009, 2338-2343	2.3	233
158	Ionic conductivity of CeO 2 with trivalent dopants of different ionic radii. *Solid State Ionics*, **1981**, 5, 547-550	3.3	214
157	Calculation of various relaxation times and conductivity for a single dielectric relaxation process. *Solid State Ionics*, **1990**, 42, 213-221	3.3	177
156	Giant Permittivity in Epitaxial Ferroelectric Heterostructures. *Physical Review Letters*, **1996**, 77, 1628-1631	7.4	121
155	Enhanced dielectric properties of polymer matrix composites with BaTiO3 and MWCNT hybrid fillers using simple phase separation. *Nano Energy*, **2016**, 30, 407-416	17.1	100
154	Enhanced self-diffusion of water in restricted geometry. *Physical Review Letters*, **1989**, 63, 43-46	7.4	94
153	Grain-Boundary Effect in Ceria Doped with Trivalent Cations: II, Microstructure and Microanalysis. *Journal of the American Ceramic Society*, **1986**, 69, 647-651	3.8	93
152	Fabrication and electrical conductivity of poly(methyl methacrylate) (PMMA)/carbon black (CB) composites: comparison between an ordered carbon black nanowire-like segregated structure and a randomly dispersed carbon black nanostructure. *Journal of Physical Chemistry B*, **2006**, 110, 22365-73	3.4	72
151	Microstructural and biological properties of nanocrystalline diamond coatings. *Diamond and Related Materials*, **2006**, 15, 1935-1940	3.5	57
150	Separation of junction and bundle resistance in single wall carbon nanotube percolation networks by impedance spectroscopy. *Applied Physics Letters*, **2010**, 97, 163105	3.4	51
149	Tin oxide nanosensor fabrication using AC dielectrophoretic manipulation of nanobelts. *Electrochimica Acta*, **2005**, 51, 943-951	6.7	49
148	A novel paper-based flexible ammonia gas sensor via silver and SWNT-PABS inkjet printing. *Sensors and Actuators B: Chemical*, **2014**, 197, 308-313	8.5	48
147	Conductive paper fabricated by layer-by-layer assembly of polyelectrolytes and ITO nanoparticles. *Nanotechnology*, **2008**, 19, 505603	3.4	48
146	Novel Percolation Mechanism in PMMA Matrix Composites Containing Segregated ITO Nanowire Networks. *Advanced Functional Materials*, **2007**, 17, 2515-2521	15.6	46
145	Assessment of percolation and homogeneity in ABS/carbon black composites by electrical measurements. *Composites Part B: Engineering*, **2003**, 34, 607-614	10	46

144	Shear modulated percolation in carbon nanotube composites. *Journal of Physical Chemistry B*, **2006**, 110, 12289-92	3.4	44
143	Hemocompatibility of diamondlike carbon□metal composite thin films. *Diamond and Related Materials*, **2006**, 15, 1941-1948	3.5	43
142	Effect of processing method on the properties of multifunctional exfoliated graphite nanoplatelets/polyamide 12 composites. *Carbon*, **2013**, 64, 122-131	10.4	40
141	Structure Solution from Powder Diffraction of Copper 1,4-Benzenedicarboxylate. *European Journal of Inorganic Chemistry*, **2014**, 2014, 2140-2145	2.3	38
140	Understanding the effect of polymer crystallinity on the electrical conductivity of exfoliated graphite nanoplatelet/polylactic acid composite films. *Journal of Polymer Research*, **2014**, 21, 1	2.7	37
139	Fluid transport in partially filled porous sol-gel silica glass. *Physical Review B*, **1990**, 42, 6503-6508	3.3	37
138	Effect of the fabrication method on the electrical properties of poly(acrylonitrile-co-butadiene-co-styrene)/carbon black composites. *Journal of Electronic Materials* , **2006**, 35, 224-229	1.9	36
137	Fabrication and characterization of superhydrophobic high opacity paper with titanium dioxide nanoparticles. *Journal of Materials Science*, **2011**, 46, 2600-2605	4.3	34
136	Effect of alkaline earth modifier ion on the optical, magnetic and electrical properties of lithium nickel borate glasses. *Materials Chemistry and Physics*, **2008**, 112, 186-197	4.4	32
135	pH-Promoted Exponential Layer-by-Layer Assembly of Bicomponent Polyelectrolyte/Nanoparticle Multilayers. *Chemistry of Materials*, **2011**, 23, 4548-4556	9.6	31
134	Anelastic and dielectric relaxation of scandia-doped ceria. *Journal of Physics and Chemistry of Solids*, **1987**, 48, 563-569	3.9	31
133	Enhancing the Layer-by-Layer Assembly of Indium Tin Oxide Thin Films by Using Polyethyleneimine. *Journal of Physical Chemistry C*, **2010**, 114, 9685-9692	3.8	28
132	Internal Structure of Porous Silica: A Model System for Characterization by Nuclear Magnetic Resonance. *Journal of the American Ceramic Society*, **1989**, 72, 2126-2130	3.8	27
131	Preparation and Sintering of Colloidal Silica-Potassium Silicate Gels. *Journal of the American Ceramic Society*, **1988**, 71, 1108-1113	3.8	26
130	Network behavior of thermosetting polyimide/multiwalled carbon nanotube composites. *Polymer*, **2012**, 53, 1020-1027	3.9	25
129	Effect of precursor-layer surface charge on the layer-by-layer assembly of polyelectrolyte/nanoparticle multilayers. *Langmuir*, **2012**, 28, 84-91	4	25
128	Magnetic, electrical, and microstructural properties of YBa2Cu3O7: A comparison of sol-gel, co-precipitated, and solid state processing routes. *Journal of Materials Research*, **1989**, 4, 1099-1102	2.5	24
127	Quantification of the coarsening kinetics of □ precipitates in Waspaloy microstructures with different prior homogenizing treatments. *Acta Materialia*, **2009**, 57, 4658-4670	8.4	23

126	Study of Sc2O3-doped ceria by anelastic relaxation. *Solid State Ionics*, **1983**, 9-10, 931-936	3.3	23
125	Thermal processing and properties of BaTi4O9 and Ba2Ti9O20 dielectric resonators. *Journal of Materials Science*, **1999**, 34, 3021-3025	4.3	22
124	Quantitative Electron Microscopic Investigation of the Pore Structure in 10:90 Colloidal Silica/Potassium Silicate Sol-Gels. *Journal of the American Ceramic Society*, **1990**, 73, 2228-2237	3.8	21
123	Effects of Frequency, Percolation, and Axisymmetric Microstructure on the Electrical Response of Hot-Pressed Alumina–Silicon Carbide Whisker Composites. *Journal of the American Ceramic Society*, **2011**, 94, 1125-1132	3.8	19
122	Detection of percolating paths in polyhedral segregated network composites using electrostatic force microscopy and conductive atomic force microscopy. *Applied Physics Letters*, **2009**, 95, 233122	3.4	19
121	Spectroscopic characterization, conductivity and relaxation anomalies in the Li2O–MgO–B2O3 glass system: Effect of nickel ions. *Journal of Physics and Chemistry of Solids*, **2008**, 69, 2813-2826	3.9	19
120	Electrical Properties of Boron Nitride Matrix Composites: I, Analysis of McLachlan Equation and Modeling of the Conductivity of Boron Nitride–Boron Carbide and Boron Nitride–Silicon Carbide Composites. *Journal of the American Ceramic Society*, **2004**, 84, 1490-1496	3.8	19
119	Small-angle-scattering determination of the microstructure of porous silica precursor bodies. *Journal of Applied Crystallography*, **1990**, 23, 535-544	3.8	19
118	Fabrication and characterization of highly transparent and conductive indium tin oxide films made with different solution-based methods. *Materials Research Express*, **2016**, 3, 116408	1.7	18
117	A comparative study of the effect of annealing and plasma treatments on the microstructure and properties of colloidal indium tin oxide films and cold-sputtered indium tin oxide films. *Thin Solid Films*, **2012**, 520, 2723-2730	2.2	17
116	Volume Fraction and Whisker Orientation Dependence of the Electrical Properties of SiC-Whisker-Reinforced Mullite Composites. *Journal of the American Ceramic Society*, **2004**, 84, 2328-2334	3.8	17
115	Electrical Properties of Boron Nitride Matrix Composites: III, Observations near the Percolation Threshold in BN–B4C Composites. *Journal of the American Ceramic Society*, **2004**, 84, 2335-2342	3.8	17
114	Impedance spectroscopy and optical characterization of polymethyl methacrylate/indium tin oxide nanocomposites with three-dimensional Voronoi microstructures. *Journal of Applied Physics*, **2008**, 104, 114902	2.5	16
113	Characterization of microstructural fluctuations in Waspaloy exposed to 760 °C for times up to 2500h. *Electrochimica Acta*, **2006**, 51, 1873-1880	6.7	16
112	The interaction of selected semiconducting biomaterials with platelet-rich plasma and whole blood. *Journal of Biomedical Materials Research - Part A*, **2005**, 74, 325-37	5.4	16
111	Small-angle neutron scattering characterization of processing/microstructure relationships in the sintering of crystalline and glassy ceramics. *Journal of Materials Research*, **1991**, 6, 2706-2715	2.5	16
110	Etch pit and γ′ precipitate evolution in controlled Waspaloy microstructures aged at 725, 800 and 875 °C. *Acta Materialia*, **2009**, 57, 616-627	8.4	15
109	Correlation of the ac Electrical Conductivity and the Microstructure of PMMA/ITO Nanocomposites That Possess Phase-Segregated Microstructures. *Journal of Physical Chemistry C*, **2008**, 112, 19372-19382	3.8	15

108	Synthesis of a Nonagglomerated Indium Tin Oxide Nanoparticle Dispersion. *Advanced Materials*, **2008**, 20, NA-NA	24	15
107	Processing and Dielectric Properties of Nanocomposite Thin Film Supercapacitors for High-Frequency Embedded Decoupling. *IEEE Transactions on Components and Packaging Technologies*, **2007**, 30, 569-578		15
106	Dielectric characterization of wood and wood infiltrated with ceramic precursors. *Materials Science and Engineering C*, **1996**, 4, 125-131	8.3	15
105	Nanoporous hard carbon membranes for medical applications. *Journal of Nanoscience and Nanotechnology*, **2007**, 7, 1486-93	1.3	14
104	Self-assembly of carbon black into nanowires that form a conductive three dimensional micronetwork. *Applied Physics Letters*, **2007**, 90, 014101	3.4	14
103	Prediction of the percolation threshold and electrical conductivity of self-assembled antimony-doped tin oxide nanoparticles into ordered structures in PMMA/ATO nanocomposites. *ACS Applied Materials & Interfaces*, **2014**, 6, 22264-71	9.5	13
102	Effect of Aging Treatment on the Microstructure and Resistivity of a Nickel-Base Superalloy. *Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science*, **2011**, 42, 1362-1372	2.3	13
101	Dynamical properties of epitaxial ferroelectric superlattices. *Physical Review B*, **1997**, 55, 8766-8775	3.3	13
100	Structure electrical property study of anisotropic polyaniline films. *Journal of Polymer Science, Part B: Polymer Physics*, **2003**, 41, 823-841	2.6	13
99	Effect of annealing atmosphere (Ar vs. air) and temperature on the electrical and optical properties of spin-coated colloidal indium tin oxide films. *Journal of Materials Science*, **2013**, 48, 1465-1473	4.3	12
98	Dopant-Controlled Crystallization in Metal Organic Frameworks: The Role of Copper(II) in Zinc 1,4-Benzenedicarboxylate. *Journal of Physical Chemistry C*, **2012**, 116, 15322-15328	3.8	12
97	Highly conductive paper fabricated with multiwalled carbon nanotubes and poly(3,4-ethylenedioxythiophene)-poly(styrenesulfonate) by unidirectional drying. *Journal of Materials Science*, **2011**, 46, 6648-6655	4.3	12
96	Impedance response and modeling of composites containing aligned semiconductor whiskers: Effects of dc-bias partitioning and percolated-cluster length, topology, and filler interfaces. *Journal of Applied Physics*, **2012**, 111, 124913	2.5	12
95	Mechanism of degradation of AgCl coating on biopotential sensors. *Journal of Biomedical Materials Research - Part A*, **2007**, 82, 872-83	5.4	12
94	Interpreting Impedance Response of Silicon Carbide Whisker/Alumina Composites Through Microstructural Simulation. *Journal of the American Ceramic Society*, **2006**, 89, 538-543	3.8	12
93	Electrical Properties of Boron Nitride Matrix Composites: II, Dielectric Relaxations in Boron Nitride Silicon Carbide Composites. *Journal of the American Ceramic Society*, **2004**, 84, 1497-1503	3.8	12
92	Imaging of fine porosity in a colloidal silica: potassium silicate gel by defocus contrast microscopy. *Journal of Non-Crystalline Solids*, **1993**, 152, 18-31	3.9	12
91	Percolation in Borosilicate Glass Matrix Composites Containing Antimony-Doped Tin Oxide Segregated Networks. Part I: Fabrication of Segregated Networks. *Journal of the American Ceramic Society*, **2013**, 96, 3544-3551	3.8	11

90	A closed-form solution for the computation of geometric correction factors for four-point resistivity measurements on cylindrical specimens. *Measurement Science and Technology*, **2008**, 19, 025701	2	11
89	Chemical stability and characterization of rhodium-diisocyanide coordination polymers. *Journal of Physical Chemistry B*, **2007**, 111, 14114-20	3.4	11
88	The effect of nanofiller geometry and compounding method on polylactic acid nanocomposite films. *European Polymer Journal*, **2016**, 77, 31-42	5.2	11
87	The effect of substrate pore size on the network interconnectivity and electrical properties of dropcasted multiwalled carbon nanotube thin films. *Journal of Materials Research*, **2013**, 28, 1617-1624	2.5	10
86	Room temperature properties of electrical contacts to alumina composites containing silicon carbide whiskers. *Journal of Applied Physics*, **2009**, 105, 074902	2.5	10
85	The effect of the atmosphere on the optical properties of as-synthesized colloidal indium tin oxide. *Nanotechnology*, **2009**, 20, 145701	3.4	10
84	Influence of crystallization kinetics on texture of sol–gel PZT and BST thin films. *Journal of the European Ceramic Society*, **1999**, 19, 1391-1395	6	10
83	Detection of Different Interfaces in Percolated Networks of Antimony Tin Oxide: Borosilicate Glass Composites by Impedance Spectroscopy. *Journal of the American Ceramic Society*, **2015**, 98, 154-162	3.8	8
82	Extruded and Pressureless-Sintered Al2O3–SiCw Composite Rods: Fabrication, Structure, Electrical Behavior, and Elastic Modulus. *Journal of the American Ceramic Society*, **2011**, 94, 4391-4398	3.8	8
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80	Bivariate stereological unfolding procedure for randomly oriented chopped fibers or whiskers. *Acta Materialia*, **2005**, 53, 4943-4953	8.4	7
79	Microstructure and optical properties of submicron porous silicon thin films grown at low current densities. *Journal of Applied Physics*, **2000**, 87, 2169-2177	2.5	7
78	Effect of trace carbon on the uv-induced behavior of aluminum nitride ceramics. *Journal of Materials Research*, **1994**, 9, 2209-2212	2.5	7
77	Effect of processing on the properties and morphology of MWCNT-polymer networks. *Materials Research Express*, **2020**, 7, 015075	1.7	6
76	Role of geometric parameters in electrical measurements of insulating thin films deposited on a conductive substrate. *Measurement Science and Technology*, **2012**, 23, 035602	2	6
75	Mechanical and electrical characterisation in age hardened Waspaloy microstructures. *International Heat Treatment and Surface Engineering*, **2009**, 3, 35-39		6
74	Effect of stretching on the structure and electrical conductivity of doped and undoped poly(phenylene vinylene) thin films. *Electrochimica Acta*, **2006**, 51, 1728-1735	6.7	6
73	Dielectric investigation of the sliding charge-density wave in Tl0.3MoO. *Physical Review B*, **1988**, 38, 7243-7249	3.3	6

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71	Effect of compounding method and processing conditions on the electrical response of exfoliated graphite nanoplatelet/polylactic acid nanocomposite films. *Journal of Materials Science*, **2016**, 51, 2980-2990	4.3	5
70	Mechanistic interaction study of thin oxide dielectric with conducting organic electrode. *Materials Chemistry and Physics*, **2012**, 134, 508-513	4.4	5
69	Trivariate, Stereological Length–Radius–Orientation Unfolding Derived and Applied to Alumina–Silicon Carbide Whisker Composites. *Journal of the American Ceramic Society*, **2006**, 89, 620-626	3.8	5
68	Study of Percolation in PMMA / Indium Tin Oxide Composites. *Materials Research Society Symposia Proceedings*, **2004**, 819, N3.13.1		5
67	In-Plane Impedance Spectroscopy of Doped Polyaniline Films. *Journal of Plastic Film and Sheeting*, **2001**, 17, 184-196	2.4	5
66	Characterization of Porosity Over Many Length Scales: Application to Colloidal Gels. *Journal of Materials Research*, **1999**, 14, 1444-1454	2.5	5
65	Na2O?P2O5?SiO2 gels: Preparation and characterization. *Journal of Non-Crystalline Solids*, **1989**, 111, 167-172	3.9	5
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63	As Review Of Conventional And Non-Conventional Pore Characterization Techniques. *Materials Research Society Symposia Proceedings*, **1988**, 137, 75		5
62	Comparison of hot pressing and spark plasma sintering in the densification behavior of indium tin oxide-borosilicate glass composites. *Journal of the American Ceramic Society*, **2018**, 101, 577-589	3.8	4
61	Percolation in Borosilicate Glass Matrix Composites Containing Antimony-Doped Tin Oxide Segregated Networks. Part II: Examination of Electrical Behavior Using Impedance Spectroscopy. *Journal of the American Ceramic Society*, **2014**, 97, 2082-2090	3.8	4
60	Determining In-plane and Thru-plane Percolation Thresholds for Carbon Nanotube Thin Films Deposited on Paper Substrates Using Impedance Spectroscopy. *Materials Research Society Symposia Proceedings*, **2013**, 1549, 117-122		4
59	Structure and electrical properties of undoped oriented poly(phenylene vinylene) films. *Journal of Polymer Science, Part B: Polymer Physics*, **2004**, 42, 98-116	2.6	4
58	Fabrication and Supercapacitor Applications of Multiwall Carbon Nanotube Thin Films. *Journal of Carbon Research*, **2021**, 7, 70	3.3	4
57	Fabrication and simulation of semi-transparent and flexible PMMA/ATO conductive nanocomposites obtained by compression molding at different temperatures and pressures. *AIP Advances*, **2017**, 7, 055004	1.5	3
56	Investigation of copper plated-through-holes in glass fiber reinforced epoxy substrates using AC impedance spectroscopy. *Journal of Materials Science: Materials in Electronics*, **2015**, 26, 2563-2570	2.1	3
55	Electrically Based Non-Destructive Microstructural Characterization of All Classes of Materials. *Materials Research Society Symposia Proceedings*, **1999**, 591, 103		3

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53	Impedance spectroscopy of short multiwalled carbon nanotube networks deposited on a paper substrate: tracking the evolution of in-plane and thru-plane electronic properties. *Journal of Materials Science*, **2021**, 56, 3256-3267	4.3	3
52	Three-Dimensional Nanoscale Mapping of Porosity in Solution-Processed ITO Multilayer Thin Films for Patternable Transparent Electrodes. *ACS Applied Nano Materials*, **2019**, 2, 726-735	5.6	2
51	Detection of plasmonic behavior in colloidal indium tin oxide films by impedance spectroscopy. *MRS Communications*, **2020**, 10, 278-285	2.7	2
50	Properties and Applications of Ceramic Composites Containing Silicon Carbide Whiskers **2011**,		2
49	Characterization of Ceramic Powders During Compaction Using Electrical Measurements. *Ceramic Engineering and Science Proceedings*, **2011**, 199-209	0.1	2
48	Electric field distribution within a metallic cylindrical specimen for the case of an ideal two-probe impedance measurement. *Journal of Applied Physics*, **2007**, 101, 044904	2.5	2
47	Doping Effects on the Properties and Microstructure of Intergrowth Bi 4 Ti 3 O 12 -SrBi 4 Ti 4 O 15 Thin Films. *Integrated Ferroelectrics*, **2002**, 45, 183-188	0.8	2
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43	Fabrication of Conductive Glass Nanocomposites with Networks of Antimony Tin Oxide. *Materials Research Society Symposia Proceedings*, **2013**, 1552, 65-70		1
42	Thin Films Made from Colloidal Antimony Tin Oxide Nanoparticles for Transparent Conductive Applications. *Materials Research Society Symposia Proceedings*, **2013**, 1552, 89-94		1
41	Fabrication and Characterization of Antimony Tin Oxide Nanoparticle Networks Inside Polystyrene. *Materials Research Society Symposia Proceedings*, **2013**, 1552, 95-100		1
40	Correlating Small Angle Scattering Spectra to Electrical Resistivity Changes in a Nickel-Base Superalloy. *Materials Research Society Symposia Proceedings*, **2010**, 1262, 1		1
39	Fabrication of transparent, conductive phase-segregated ITO/PC composites. *Materials Research Society Symposia Proceedings*, **2010**, 1257, 1		1
38	Modeling the Electrical Response of Waspaloy due to the Nucleation, Growth, and Coarsening of γ′. *Materials Science Forum*, **2012**, 706-709, 2406-2411	0.4	1
37	Dielectric Spectroscopy Study of ZnSe Grown by Physical Vapor Transport. *Materials Research Society Symposia Proceedings*, **1997**, 487, 517		1

36	Effect of Processing on the Microstructure and Electrical Conductivity of Hot Pressed PMMA/ITO Bulk Nanocomposites. *Materials Research Society Symposia Proceedings*, **2006**, 977, 1		1
35	Optimization of the Electrical Conductivity of ABS Nanocomposites filled with Carbon Black and Carbon Nanotubes. *Materials Research Society Symposia Proceedings*, **2006**, 977, 1		1
34	Dielectrophoretic Characterization of SnO2 Nanobelts **2007**,		1
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32	Combinatorial synthesis of (Al,Ti)N thin films via pulsed laser deposition. *Materials Research Society Symposia Proceedings*, **2005**, 894, 1		1
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29	Controlling the electrical, optical, and morphological properties of sol□el spin-coated indium tin oxide films. *AIP Advances*, **2021**, 11, 105117	1.5	1
28	Low Permittivity Porous Silica Thin Films for MCM-C/D Applications **1995**, 209-219		1
27	Carbon Nanotube Assemblies for Transparent Conducting Electrodes. *Nanostructure Science and Technology*, **2013**, 117-148	0.9	1
26	Effects of nanoparticles size and interactions on dielectric properties of polymer matrix flexible dielectric nanocomposites. *Advanced Composite Materials*, **2020**, 29, 235-246	2.8	1
25	Encore: Retired Faculty as Mentors. *Change*, **2019**, 51, 59-61	0.6	0
24	Conductivity of Graphene-Like Thin Films Prepared from Chemically Exfoliated Carbon Nanotubes (CNTs), Highly Oriented Pyrolytic Graphite (HOPG), Natural Flake Graphite, and Carbon Powder. *Materials Research Society Symposia Proceedings*, **2012**, 1451, 125-130		0
23	What is Impedance and Dielectric Spectroscopy?. *IEEE Instrumentation and Measurement Magazine*, **2022**, 25, 14-20	1.4	0
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21	Fabrication and Characterization of Conductive Glass Composites with Networks of Silicon Carbide Whiskers. *Ceramic Transactions*, **2014**, 27-36	0.1	
20	Effect of Drying Time and Temperature on the In-Plane and Thru-Plane Electrical Properties of Multiwalled Carbon Nanotube Films Deposited on Paper Substrates Using a Unidirectional Drying Method. *Ceramic Transactions*, **2014**, 299-306	0.1	
19	Percolation and Electrical Conductivity Modeling of Novel Microstructured Insulator-Conductor Nanocomposites Fabricated from PMMA and ATO. *Materials Research Society Symposia Proceedings*, **2014**, 1692, 7		

18	Comparison of the Electrical Properties of PS-PMMA-MWNT Composites Made by Three Different Fabrication Methods. *Materials Research Society Symposia Proceedings*, **2013**, 1453, 51	
17	The effect of reactive ion etching parameters on the electrical properties and the removal of residual organics in spin-coated colloidal ITO films. *Materials Research Society Symposia Proceedings*, **2013**, 1574, 1	
16	Assessment of Homogeneity of Extruded Alumina-SiC Composite Rods Used in Microwave Heating Applications by Impedance Spectroscopy. *Materials Research Society Symposia Proceedings*, **2013**, 1538, 323-328	
15	Effect of Substrate Type on the Electrical and Optical Properties of Cold-sputtered Indium Tin Oxide Films as a function of Post-deposition Heat Treatment. *Materials Research Society Symposia Proceedings*, **2010**, 1256, 1	
14	Complex Dielectric Spectroscopy Characterization of a Li0.982Ta1.004O3 Ferroelectric Single Crystal. *Materials Research Society Symposia Proceedings*, **1997**, 500, 195	
13	Dielectric Spectroscopy of Insulator/Conductor Composites. *Materials Research Society Symposia Proceedings*, **1997**, 500, 341	
12	Microstructure-Resistivity Correlations in Controlled Waspaloy Microstructures. *Materials Research Society Symposia Proceedings*, **2006**, 977, 1	
11	Electrical Characterization of Aged Waspaloy Microstructures. *Advanced Materials Research*, **2006**, 15-17, 876-881	0.5
10	SPM-based Electrical Characterization of Aged Waspaloy Microstructures. *Materials Research Society Symposia Proceedings*, **2007**, 1025, 1	
9	Characterization of the Electrical Properties of Nickel-Based CMSX-4 Super-alloys Using Atomic Force Microscopy (AFM). *Microscopy and Microanalysis*, **2004**, 10, 1102-1103	0.5
8	The Structure and Electrical Properties of Polyaniline. *Materials Research Society Symposia Proceedings*, **2001**, 699, 721	
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6	Detection of Compositional Fluctuations in High Temperature Exposed Waspaloy. *Materials Research Society Symposia Proceedings*, **2001**, 699, 261	
5	In-Situ Microstructure Characterization of Sintering of Controlled Porosity Materials. *Materials Research Society Symposia Proceedings*, **1994**, 346, 177	
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3	Quantitative stereological analysis of the pore-size distribution in a colloidal silica sol-gel. *Proceedings Annual Meeting Electron Microscopy Society of America*, **1990**, 48, 1078-1079	
2	Structure-Property Relationships in Waspaloy via Small Angle Scattering and Electrical Resistivity Measurements847-858	
1	Navigating a Career in Academia: Insights from Emeriti Engineering Faculty. *Journal for STEM Education Research*, **2020**, 3, 217-231	1.3