

# Rosario A Gerhardt

## 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.

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	What is Impedance and Dielectric Spectroscopy?. <i>IEEE Instrumentation and Measurement Magazine</i> , <b>2022</b> , 25, 14-20	1.4	0
160	Fabrication and Supercapacitor Applications of Multiwall Carbon Nanotube Thin Films. <i>Journal of Carbon Research</i> , <b>2021</b> , 7, 70	3.3	4
159	Controlling the electrical, optical, and morphological properties of sol-gel spin-coated indium tin oxide films. <i>AIP Advances</i> , <b>2021</b> , 11, 105117	1.5	1
158	Impedance spectroscopy of short multiwalled carbon nanotube networks deposited on a paper substrate: tracking the evolution of in-plane and thru-plane electronic properties. <i>Journal of Materials Science</i> , <b>2021</b> , 56, 3256-3267	4.3	3
157	Effect of The Dissolution Method With N, N-Dimethylformamide As A Solvent On The Electrical Properties Of Acrylonitrile Butadiene Styrene And Carbon Nanotube Composites. <i>IOP Conference Series: Materials Science and Engineering</i> , <b>2020</b> , 842, 012003	0.4	
156	Detection of plasmonic behavior in colloidal indium tin oxide films by impedance spectroscopy. <i>MRS Communications</i> , <b>2020</b> , 10, 278-285	2.7	2
155	Effect of processing on the properties and morphology of MWCNT-polymer networks. <i>Materials Research Express</i> , <b>2020</b> , 7, 015075	1.7	6
154	Navigating a Career in Academia: Insights from Emeriti Engineering Faculty. <i>Journal for STEM Education Research</i> , <b>2020</b> , 3, 217-231	1.3	
153	Effect of Spark Plasma Sintering Current and Voltage on the Microstructure and Electrical Properties of Borosilicate Glass/Indium Tin Oxide Composites. <i>Advanced Engineering Materials</i> , <b>2020</b> , 22, 1901431	3.5	3
152	Factors that Affect Network Formation in Carbon Nanotube Composites and their Resultant Electrical Properties. <i>Journal of Composites Science</i> , <b>2020</b> , 4, 100	3	6
151	Effects of nanoparticles size and interactions on dielectric properties of polymer matrix flexible dielectric nanocomposites. <i>Advanced Composite Materials</i> , <b>2020</b> , 29, 235-246	2.8	1
150	Three-Dimensional Nanoscale Mapping of Porosity in Solution-Processed ITO Multilayer Thin Films for Patternable Transparent Electrodes. <i>ACS Applied Nano Materials</i> , <b>2019</b> , 2, 726-735	5.6	2
149	Encore: Retired Faculty as Mentors. <i>Change</i> , <b>2019</b> , 51, 59-61	0.6	0
148	Comparison of hot pressing and spark plasma sintering in the densification behavior of indium tin oxide-borosilicate glass composites. <i>Journal of the American Ceramic Society</i> , <b>2018</b> , 101, 577-589	3.8	4
147	Fabrication and simulation of semi-transparent and flexible PMMA/ATO conductive nanocomposites obtained by compression molding at different temperatures and pressures. <i>AIP Advances</i> , <b>2017</b> , 7, 055004	1.5	3
146	Fabrication and characterization of highly transparent and conductive indium tin oxide films made with different solution-based methods. <i>Materials Research Express</i> , <b>2016</b> , 3, 116408	1.7	18
145	Enhanced dielectric properties of polymer matrix composites with BaTiO <sub>3</sub> and MWCNT hybrid fillers using simple phase separation. <i>Nano Energy</i> , <b>2016</b> , 30, 407-416	17.1	100

144	Effect of compounding method and processing conditions on the electrical response of exfoliated graphite nanoplatelet/polylactic acid nanocomposite films. <i>Journal of Materials Science</i> , <b>2016</b> , 51, 2980-2990	4.3	5
143	The effect of nanofiller geometry and compounding method on polylactic acid nanocomposite films. <i>European Polymer Journal</i> , <b>2016</b> , 77, 31-42	5.2	11
142	<b>2016</b> ,		2
141	<b>2015</b> ,		1
140	Investigation of copper plated-through-holes in glass fiber reinforced epoxy substrates using AC impedance spectroscopy. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2015</b> , 26, 2563-2570	2.1	3
139	Detection of Different Interfaces in Percolated Networks of Antimony Tin Oxide: Borosilicate Glass Composites by Impedance Spectroscopy. <i>Journal of the American Ceramic Society</i> , <b>2015</b> , 98, 154-162	3.8	8
138	A novel paper-based flexible ammonia gas sensor via silver and SWNT-PABS inkjet printing. <i>Sensors and Actuators B: Chemical</i> , <b>2014</b> , 197, 308-313	8.5	48
137	Percolation in Borosilicate Glass Matrix Composites Containing Antimony-Doped Tin Oxide Segregated Networks. Part II: Examination of Electrical Behavior Using Impedance Spectroscopy. <i>Journal of the American Ceramic Society</i> , <b>2014</b> , 97, 2082-2090	3.8	4
136	Structure Solution from Powder Diffraction of Copper 1,4-Benzenedicarboxylate. <i>European Journal of Inorganic Chemistry</i> , <b>2014</b> , 2014, 2140-2145	2.3	38
135	Understanding the effect of polymer crystallinity on the electrical conductivity of exfoliated graphite nanoplatelet/polylactic acid composite films. <i>Journal of Polymer Research</i> , <b>2014</b> , 21, 1	2.7	37
134	Fabrication and Characterization of Conductive Glass Composites with Networks of Silicon Carbide Whiskers. <i>Ceramic Transactions</i> , <b>2014</b> , 27-36	0.1	
133	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. <i>Ceramic Transactions</i> , <b>2014</b> , 299-306	0.1	
132	Prediction of the percolation threshold and electrical conductivity of self-assembled antimony-doped tin oxide nanoparticles into ordered structures in PMMA/ATO nanocomposites. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2014</b> , 6, 22264-71	9.5	13
131	Effect of graphitic filler size and shape on the microstructure, electrical percolation behavior and thermal properties of nanostructured multilayered carbon films deposited onto paper substrates. <i>Journal of Materials Research</i> , <b>2014</b> , 29, 472-484	2.5	7
130	Percolation and Electrical Conductivity Modeling of Novel Microstructured Insulator-Conductor Nanocomposites Fabricated from PMMA and ATO. <i>Materials Research Society Symposia Proceedings</i> , <b>2014</b> , 1692, 7		
129	Effect of processing method on the properties of multifunctional exfoliated graphite nanoplatelets/polyamide 12 composites. <i>Carbon</i> , <b>2013</b> , 64, 122-131	10.4	40
128	Percolation in Borosilicate Glass Matrix Composites Containing Antimony-Doped Tin Oxide Segregated Networks. Part I: Fabrication of Segregated Networks. <i>Journal of the American Ceramic Society</i> , <b>2013</b> , 96, 3544-3551	3.8	11
127	Effect of annealing atmosphere (Ar vs. air) and temperature on the electrical and optical properties of spin-coated colloidal indium tin oxide films. <i>Journal of Materials Science</i> , <b>2013</b> , 48, 1465-1473	4.3	12

126	The effect of substrate pore size on the network interconnectivity and electrical properties of dropcasted multiwalled carbon nanotube thin films. <i>Journal of Materials Research</i> , <b>2013</b> , 28, 1617-1624	2.5	10
125	Comparison of the Electrical Properties of PS-PMMA-MWNT Composites Made by Three Different Fabrication Methods. <i>Materials Research Society Symposia Proceedings</i> , <b>2013</b> , 1453, 51		
124	The effect of reactive ion etching parameters on the electrical properties and the removal of residual organics in spin-coated colloidal ITO films. <i>Materials Research Society Symposia Proceedings</i> , <b>2013</b> , 1574, 1		
123	Fabrication of Conductive Glass Nanocomposites with Networks of Antimony Tin Oxide. <i>Materials Research Society Symposia Proceedings</i> , <b>2013</b> , 1552, 65-70		1
122	Determining In-plane and Thru-plane Percolation Thresholds for Carbon Nanotube Thin Films Deposited on Paper Substrates Using Impedance Spectroscopy. <i>Materials Research Society Symposia Proceedings</i> , <b>2013</b> , 1549, 117-122		4
121	Thin Films Made from Colloidal Antimony Tin Oxide Nanoparticles for Transparent Conductive Applications. <i>Materials Research Society Symposia Proceedings</i> , <b>2013</b> , 1552, 89-94		1
120	Fabrication and Characterization of Antimony Tin Oxide Nanoparticle Networks Inside Polystyrene. <i>Materials Research Society Symposia Proceedings</i> , <b>2013</b> , 1552, 95-100		1
119	Assessment of Homogeneity of Extruded Alumina-SiC Composite Rods Used in Microwave Heating Applications by Impedance Spectroscopy. <i>Materials Research Society Symposia Proceedings</i> , <b>2013</b> , 1538, 323-328		
118	Carbon Nanotube Assemblies for Transparent Conducting Electrodes. <i>Nanostructure Science and Technology</i> , <b>2013</b> , 117-148	0.9	1
117	Mechanistic interaction study of thin oxide dielectric with conducting organic electrode. <i>Materials Chemistry and Physics</i> , <b>2012</b> , 134, 508-513	4.4	5
116	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. <i>Thin Solid Films</i> , <b>2012</b> , 520, 2723-2730	2.2	17
115	Network behavior of thermosetting polyimide/multiwalled carbon nanotube composites. <i>Polymer</i> , <b>2012</b> , 53, 1020-1027	3.9	25
114	Effect of precursor-layer surface charge on the layer-by-layer assembly of polyelectrolyte/nanoparticle multilayers. <i>Langmuir</i> , <b>2012</b> , 28, 84-91	4	25
113	Role of geometric parameters in electrical measurements of insulating thin films deposited on a conductive substrate. <i>Measurement Science and Technology</i> , <b>2012</b> , 23, 035602	2	6
112	Dopant-Controlled Crystallization in Metal-Organic Frameworks: The Role of Copper(II) in Zinc 1,4-Benzenedicarboxylate. <i>Journal of Physical Chemistry C</i> , <b>2012</b> , 116, 15322-15328	3.8	12
111	Impedance response and modeling of composites containing aligned semiconductor whiskers: Effects of dc-bias partitioning and percolated-cluster length, topology, and filler interfaces. <i>Journal of Applied Physics</i> , <b>2012</b> , 111, 124913	2.5	12
110	Modeling the Electrical Response of Waspaloy due to the Nucleation, Growth, and Coarsening of $\alpha$ . <i>Materials Science Forum</i> , <b>2012</b> , 706-709, 2406-2411	0.4	1
109	Conductivity of Graphene-Like Thin Films Prepared from Chemically Exfoliated Carbon Nanotubes (CNTs), Highly Oriented Pyrolytic Graphite (HOPG), Natural Flake Graphite, and Carbon Powder. <i>Materials Research Society Symposia Proceedings</i> , <b>2012</b> , 1451, 125-130		0

108	pH-Promoted Exponential Layer-by-Layer Assembly of Bicomponent Polyelectrolyte/Nanoparticle Multilayers. <i>Chemistry of Materials</i> , <b>2011</b> , 23, 4548-4556	9.6	31
107	Properties and Applications of Ceramic Composites Containing Silicon Carbide Whiskers <b>2011</b> ,		2
106	Effects of Frequency, Percolation, and Axisymmetric Microstructure on the Electrical Response of Hot-Pressed Alumina/Silicon Carbide Whisker Composites. <i>Journal of the American Ceramic Society</i> , <b>2011</b> , 94, 1125-1132	3.8	19
105	Extruded and Pressureless-Sintered Al <sub>2</sub> O <sub>3</sub> /SiCw Composite Rods: Fabrication, Structure, Electrical Behavior, and Elastic Modulus. <i>Journal of the American Ceramic Society</i> , <b>2011</b> , 94, 4391-4398	3.8	8
104	Fabrication and characterization of superhydrophobic high opacity paper with titanium dioxide nanoparticles. <i>Journal of Materials Science</i> , <b>2011</b> , 46, 2600-2605	4.3	34
103	Highly conductive paper fabricated with multiwalled carbon nanotubes and poly(3,4-ethylenedioxythiophene)-poly(styrenesulfonate) by unidirectional drying. <i>Journal of Materials Science</i> , <b>2011</b> , 46, 6648-6655	4.3	12
102	Effect of Aging Treatment on the Microstructure and Resistivity of a Nickel-Base Superalloy. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , <b>2011</b> , 42, 1362-1372	2.3	13
101	Characterization of Ceramic Powders During Compaction Using Electrical Measurements. <i>Ceramic Engineering and Science Proceedings</i> , <b>2011</b> , 199-209	0.1	2
100	Correlating Small Angle Scattering Spectra to Electrical Resistivity Changes in a Nickel-Base Superalloy. <i>Materials Research Society Symposia Proceedings</i> , <b>2010</b> , 1262, 1		1
99	Fabrication of transparent, conductive phase-segregated ITO/PC composites. <i>Materials Research Society Symposia Proceedings</i> , <b>2010</b> , 1257, 1		1
98	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. <i>Materials Research Society Symposia Proceedings</i> , <b>2010</b> , 1256, 1		
97	Separation of junction and bundle resistance in single wall carbon nanotube percolation networks by impedance spectroscopy. <i>Applied Physics Letters</i> , <b>2010</b> , 97, 163105	3.4	51
96	Enhancing the Layer-by-Layer Assembly of Indium Tin Oxide Thin Films by Using Polyethyleneimine. <i>Journal of Physical Chemistry C</i> , <b>2010</b> , 114, 9685-9692	3.8	28
95	Room temperature properties of electrical contacts to alumina composites containing silicon carbide whiskers. <i>Journal of Applied Physics</i> , <b>2009</b> , 105, 074902	2.5	10
94	Synthesis and Structure Characterization of Copper Terephthalate Metal-Organic Frameworks. <i>European Journal of Inorganic Chemistry</i> , <b>2009</b> , 2009, 2338-2343	2.3	233
93	Etch pit and $\delta$ precipitate evolution in controlled Waspaloy microstructures aged at 725, 800 and 875°C. <i>Acta Materialia</i> , <b>2009</b> , 57, 616-627	8.4	15
92	Quantification of the coarsening kinetics of $\delta$ precipitates in Waspaloy microstructures with different prior homogenizing treatments. <i>Acta Materialia</i> , <b>2009</b> , 57, 4658-4670	8.4	23
91	Detection of percolating paths in polyhedral segregated network composites using electrostatic force microscopy and conductive atomic force microscopy. <i>Applied Physics Letters</i> , <b>2009</b> , 95, 233122	3.4	19

90	The effect of the atmosphere on the optical properties of as-synthesized colloidal indium tin oxide. <i>Nanotechnology</i> , <b>2009</b> , 20, 145701	3.4	10
89	Mechanical and electrical characterisation in age hardened Waspaloy microstructures. <i>International Heat Treatment and Surface Engineering</i> , <b>2009</b> , 3, 35-39		6
88	Effect of alkaline earth modifier ion on the optical, magnetic and electrical properties of lithium nickel borate glasses. <i>Materials Chemistry and Physics</i> , <b>2008</b> , 112, 186-197	4.4	32
87	Conductive paper fabricated by layer-by-layer assembly of polyelectrolytes and ITO nanoparticles. <i>Nanotechnology</i> , <b>2008</b> , 19, 505603	3.4	48
86	Impedance spectroscopy and optical characterization of polymethyl methacrylate/indium tin oxide nanocomposites with three-dimensional Voronoi microstructures. <i>Journal of Applied Physics</i> , <b>2008</b> , 104, 114902	2.5	16
85	Correlation of the ac Electrical Conductivity and the Microstructure of PMMA/ITO Nanocomposites That Possess Phase-Segregated Microstructures. <i>Journal of Physical Chemistry C</i> , <b>2008</b> , 112, 19372-19382 <sup>2.8</sup>		15
84	A closed-form solution for the computation of geometric correction factors for four-point resistivity measurements on cylindrical specimens. <i>Measurement Science and Technology</i> , <b>2008</b> , 19, 025701		11
83	Spectroscopic characterization, conductivity and relaxation anomalies in the Li <sub>2</sub> O-MgO-B <sub>2</sub> O <sub>3</sub> glass system: Effect of nickel ions. <i>Journal of Physics and Chemistry of Solids</i> , <b>2008</b> , 69, 2813-2826	3.9	19
82	Synthesis of a Nonagglomerated Indium Tin Oxide Nanoparticle Dispersion. <i>Advanced Materials</i> , <b>2008</b> , 20, NA-NA	24	15
81	Chemical stability and characterization of rhodium-diisocyanide coordination polymers. <i>Journal of Physical Chemistry B</i> , <b>2007</b> , 111, 14114-20	3.4	11
80	Novel Percolation Mechanism in PMMA Matrix Composites Containing Segregated ITO Nanowire Networks. <i>Advanced Functional Materials</i> , <b>2007</b> , 17, 2515-2521	15.6	46
79	Mechanism of degradation of AgCl coating on biopotential sensors. <i>Journal of Biomedical Materials Research - Part A</i> , <b>2007</b> , 82, 872-83	5.4	12
78	Dielectrophoretic Characterization of SnO <sub>2</sub> Nanobelts <b>2007</b> ,		1
77	Electric field distribution within a metallic cylindrical specimen for the case of an ideal two-probe impedance measurement. <i>Journal of Applied Physics</i> , <b>2007</b> , 101, 044904	2.5	2
76	Nanoporous hard carbon membranes for medical applications. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2007</b> , 7, 1486-93	1.3	14
75	SPM-based Electrical Characterization of Aged Waspaloy Microstructures. <i>Materials Research Society Symposia Proceedings</i> , <b>2007</b> , 1025, 1		
74	Self-assembly of carbon black into nanowires that form a conductive three dimensional micronetwork. <i>Applied Physics Letters</i> , <b>2007</b> , 90, 014101	3.4	14
73	Processing and Dielectric Properties of Nanocomposite Thin Film Supercapacitors for High-Frequency Embedded Decoupling. <i>IEEE Transactions on Components and Packaging Technologies</i> , <b>2007</b> , 30, 569-578		15



72	Effect of the fabrication method on the electrical properties of poly(acrylonitrile-co-butadiene-co-styrene)/carbon black composites. <i>Journal of Electronic Materials</i> , <b>2006</b> , 35, 224-229	1.9	36
71	Effect of Processing on the Microstructure and Electrical Conductivity of Hot Pressed PMMA/ITO Bulk Nanocomposites. <i>Materials Research Society Symposia Proceedings</i> , <b>2006</b> , 977, 1		1
70	Optimization of the Electrical Conductivity of ABS Nanocomposites filled with Carbon Black and Carbon Nanotubes. <i>Materials Research Society Symposia Proceedings</i> , <b>2006</b> , 977, 1		1
69	Microstructure-Resistivity Correlations in Controlled Waspaloy Microstructures. <i>Materials Research Society Symposia Proceedings</i> , <b>2006</b> , 977, 1		
68	Electrical Characterization of Aged Waspaloy Microstructures. <i>Advanced Materials Research</i> , <b>2006</b> , 15-17, 876-881	0.5	
67	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. <i>Journal of Physical Chemistry B</i> , <b>2006</b> , 110, 22365-73	3.4	72
66	Microstructural and biological properties of nanocrystalline diamond coatings. <i>Diamond and Related Materials</i> , <b>2006</b> , 15, 1935-1940	3.5	57
65	Hemocompatibility of diamondlike carbon-metal composite thin films. <i>Diamond and Related Materials</i> , <b>2006</b> , 15, 1941-1948	3.5	43
64	Shear modulated percolation in carbon nanotube composites. <i>Journal of Physical Chemistry B</i> , <b>2006</b> , 110, 12289-92	3.4	44
63	Trivariate, Stereological LengthRadiusOrientation Unfolding Derived and Applied to AluminaSilicon Carbide Whisker Composites. <i>Journal of the American Ceramic Society</i> , <b>2006</b> , 89, 620-626	3.8	5
62	Interpreting Impedance Response of Silicon Carbide Whisker/Alumina Composites Through Microstructural Simulation. <i>Journal of the American Ceramic Society</i> , <b>2006</b> , 89, 538-543	3.8	12
61	Effect of stretching on the structure and electrical conductivity of doped and undoped poly(phenylene vinylene) thin films. <i>Electrochimica Acta</i> , <b>2006</b> , 51, 1728-1735	6.7	6
60	Characterization of microstructural fluctuations in Waspaloy exposed to 760°C for times up to 2500h. <i>Electrochimica Acta</i> , <b>2006</b> , 51, 1873-1880	6.7	16
59	Tin oxide nanosensor fabrication using AC dielectrophoretic manipulation of nanobelts. <i>Electrochimica Acta</i> , <b>2005</b> , 51, 943-951	6.7	49
58	Bivariate stereological unfolding procedure for randomly oriented chopped fibers or whiskers. <i>Acta Materialia</i> , <b>2005</b> , 53, 4943-4953	8.4	7
57	The interaction of selected semiconducting biomaterials with platelet-rich plasma and whole blood. <i>Journal of Biomedical Materials Research - Part A</i> , <b>2005</b> , 74, 325-37	5.4	16
56	Combinatorial synthesis of (Al,Ti)N thin films via pulsed laser deposition. <i>Materials Research Society Symposia Proceedings</i> , <b>2005</b> , 894, 1		1
55	Study of Percolation in PMMA / Indium Tin Oxide Composites. <i>Materials Research Society Symposia Proceedings</i> , <b>2004</b> , 819, N3.13.1		5

54	Electrical Properties of Boron Nitride Matrix Composites: I, Analysis of McLachlan Equation and Modeling of the Conductivity of Boron NitrideBoron Carbide and Boron NitrideSilicon Carbide Composites. <i>Journal of the American Ceramic Society</i> , <b>2004</b> , 84, 1490-1496	3.8	19
53	Electrical Properties of Boron Nitride Matrix Composites: II, Dielectric Relaxations in Boron NitrideSilicon Carbide Composites. <i>Journal of the American Ceramic Society</i> , <b>2004</b> , 84, 1497-1503	3.8	12
52	Volume Fraction and Whisker Orientation Dependence of the Electrical Properties of SiC-Whisker-Reinforced Mullite Composites. <i>Journal of the American Ceramic Society</i> , <b>2004</b> , 84, 2328-2334	3.8	17
51	Electrical Properties of Boron Nitride Matrix Composites: III, Observations near the Percolation Threshold in BNB4C Composites. <i>Journal of the American Ceramic Society</i> , <b>2004</b> , 84, 2335-2342	3.8	17
50	Structure and electrical properties of undoped oriented poly(phenylene vinylene) films. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , <b>2004</b> , 42, 98-116	2.6	4
49	Characterization of the Electrical Properties of Nickel-Based CMSX-4 Super-alloys Using Atomic Force Microscopy (AFM). <i>Microscopy and Microanalysis</i> , <b>2004</b> , 10, 1102-1103	0.5	
48	Effect of High Temperature Exposure on the Microstructure of Waspaloy. <i>Microscopy and Microanalysis</i> , <b>2004</b> , 10, 688-689	0.5	1
47	Assessment of percolation and homogeneity in ABS/carbon black composites by electrical measurements. <i>Composites Part B: Engineering</i> , <b>2003</b> , 34, 607-614	10	46
46	StructureElectrical property study of anisotropic polyaniline films. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , <b>2003</b> , 41, 823-841	2.6	13
45	Doping Effects on the Properties and Microstructure of Intergrowth Bi <sub>4</sub> Ti <sub>3</sub> O <sub>12</sub> -SrBi <sub>4</sub> Ti <sub>4</sub> O <sub>15</sub> Thin Films. <i>Integrated Ferroelectrics</i> , <b>2002</b> , 45, 183-188	0.8	2
44	In-Plane Impedance Spectroscopy of Doped Polyaniline Films. <i>Journal of Plastic Film and Sheeting</i> , <b>2001</b> , 17, 184-196	2.4	5
43	The Structure and Electrical Properties of Polyaniline. <i>Materials Research Society Symposia Proceedings</i> , <b>2001</b> , 699, 721		
42	Effect of Grain Boundaries and Indentation Load on the Electrical Properties of Nickel Base Super-alloys. <i>Materials Research Society Symposia Proceedings</i> , <b>2001</b> , 699, 251		
41	Detection of Compositional Fluctuations in High Temperature Exposed Waspaloy. <i>Materials Research Society Symposia Proceedings</i> , <b>2001</b> , 699, 261		
40	Accuracy of energy dispersive x-ray composition analysis of YBCO films on yttrium-containing substrates as compared to Rutherford backscattering spectroscopy. <i>Journal of Materials Science</i> , <b>2000</b> , 35, 443-448	4.3	1
39	Microstructure and optical properties of submicron porous silicon thin films grown at low current densities. <i>Journal of Applied Physics</i> , <b>2000</b> , 87, 2169-2177	2.5	7
38	Characterization of Porosity Over Many Length Scales: Application to Colloidal Gels. <i>Journal of Materials Research</i> , <b>1999</b> , 14, 1444-1454	2.5	5
37	Influence of crystallization kinetics on texture of sol-gel PZT and BST thin films. <i>Journal of the European Ceramic Society</i> , <b>1999</b> , 19, 1391-1395	6	10



36	Thermal processing and properties of BaTi4O9 and Ba2Ti9O20 dielectric resonators. <i>Journal of Materials Science</i> , <b>1999</b> , 34, 3021-3025	4.3	22
35	Electrically Based Non-Destructive Microstructural Characterization of All Classes of Materials. <i>Materials Research Society Symposia Proceedings</i> , <b>1999</b> , 591, 103		3
34	Porous Silica: A Potential Material for Low Dielectric Constant Applications. <i>Materials Research Society Symposia Proceedings</i> , <b>1998</b> , 511, 111		2
33	Dynamical properties of epitaxial ferroelectric superlattices. <i>Physical Review B</i> , <b>1997</b> , 55, 8766-8775	3.3	13
32	Dielectric Spectroscopy Study of ZnSe Grown by Physical Vapor Transport. <i>Materials Research Society Symposia Proceedings</i> , <b>1997</b> , 487, 517		1
31	Complex Dielectric Spectroscopy Characterization of a Li0.982Ta1.004O3 Ferroelectric Single Crystal. <i>Materials Research Society Symposia Proceedings</i> , <b>1997</b> , 500, 195		
30	Dielectric Spectroscopy of Insulator/Conductor Composites. <i>Materials Research Society Symposia Proceedings</i> , <b>1997</b> , 500, 341		
29	Fabrication and Dielectric Properties of Phase-Pure Ba2Ti9O20 Microwave Resonators. <i>Materials Research Society Symposia Proceedings</i> , <b>1996</b> , 453, 501		1
28	Dielectric characterization of wood and wood infiltrated with ceramic precursors. <i>Materials Science and Engineering C</i> , <b>1996</b> , 4, 125-131	8.3	15
27	Giant Permittivity in Epitaxial Ferroelectric Heterostructures. <i>Physical Review Letters</i> , <b>1996</b> , 77, 1628-1631	7.4	121
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1	Structure-Property Relationships in Waspaloy via Small Angle Scattering and Electrical Resistivity Measurements	847-8	8

