

Richard E Eitel

List of Publications by Year in descending order

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41
papers

4,314
citations

218381

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360668

35
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41
times ranked

2956
citing authors

#	ARTICLE	IF	CITATIONS
1	New High Temperature Morphotropic Phase Boundary Piezoelectrics Based on Bi(Me)O ₃ â€“PbTiO ₃ Ceramics. Japanese Journal of Applied Physics, 2001, 40, 5999-6002.	0.8	809
2	Preparation and Characterization of High Temperature Perovskite Ferroelectrics in the Solid-Solution (1-x)BiScO ₃ â€“xPbTiO ₃ . Japanese Journal of Applied Physics, 2002, 41, 2099-2104.	0.8	495
3	Dielectric and Piezoelectric Properties in Mnâ€“Modified (1â€“x)BiFeO ₃ â€“xBaTiO ₃ Ceramics. Journal of the American Ceramic Society, 2009, 92, 2957-2961.	1.9	451
4	Crystal and domain structure of the BiFeO ₃ â€“PbTiO ₃ solid solution. Journal of Applied Physics, 2003, 94, 3313-3318.	1.1	253
5	High Strain Piezoelectric Multilayer Actuators? A Material Science and Engineering Challenge. Journal of Electroceramics, 2005, 14, 177-191.	0.8	231
6	Progress in engineering high strain lead-free piezoelectric ceramics. Science and Technology of Advanced Materials, 2010, 11, 044302.	2.8	218
7	Investigation of a high T _c piezoelectric system: (1â€“x)Bi(Mg _{1/2} Ti _{1/2})O ₃ â€“(x)PbTiO ₃ . Journal of Applied Physics, 2004, 95, 3633-3639.	1.1	190
8	Phase Diagram of the Perovskite System (1â€“x)BiScO ₃ -xPbTiO ₃ . Journal of Applied Physics, 2004, 96, 2828-2831.	1.1	183
9	Nonlinear contributions to the dielectric permittivity and converse piezoelectric coefficient in piezoelectric ceramics. Journal of Applied Physics, 2006, 99, 124110.	1.1	174
10	Manganese-modified BiScO ₃ â€“PbTiO ₃ piezoelectric ceramic for high-temperature shear mode sensor. Applied Physics Letters, 2005, 86, 262904.	1.5	170
11	Elastic, piezoelectric, and dielectric characterization of modified BiScO ₃ -PbTiO ₃ ceramics. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2005, 52, 2131-2139.	1.7	167
12	Magnetic hydrogel nanocomposites as remote controlled microfluidic valves. Lab on A Chip, 2009, 9, 1773.	3.1	133
13	Crystal growth and characterization of new high Curie temperature (1â€“x)BiScO ₃ â€“xPbTiO ₃ single crystals. Journal of Crystal Growth, 2002, 236, 210-216.	0.7	89
14	Transmission electron microscopy investigation of the high temperature BiScO ₃ â€“PbTiO ₃ piezoelectric ceramic system. Journal of Applied Physics, 2003, 93, 9271-9274.	1.1	71
15	Lanthanumâ€“Modified (1â€“x)Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 192 Td (x)(Bi _{0.8} La _{0.2})(Ga _{0.8} Bi _{0.2})O ₃ Crystalline Solutions: Novel Morphotropic Phaseâ€“Boundary Leadâ€“Reduced Piezoelectrics. Journal of the American Ceramic Society, 2003, 86, 2111-2115.	1.9	67
16	Structural and electrical properties of (1â€“x)Bi(Ga _{1/4} Sc _{3/4})O ₃ â€“xPbTiO ₃ piezoelectric ceramics. Journal of Applied Physics, 2003, 94, 605-609.	1.1	62
17	Origin and magnitude of the large piezoelectric response in the lead-free (1â€“x)BiFeO ₃ â€“xBaTiO ₃ solid solution. Journal of Materials Research, 2011, 26, 9-17.	1.2	61
18	Suppressing iron oxide nanoparticle toxicity by vascular targeted antioxidant polymer nanoparticles. Biomaterials, 2013, 34, 9615-9622.	5.7	61

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19	Synthesis and characterization of poly(antioxidant $\hat{1}^2$ -amino esters) for controlled release of polyphenolic antioxidants. <i>Acta Biomaterialia</i> , 2012, 8, 2529-2537.	4.1	49
20	Piezoelectric Properties in the Perovskite $\text{BiScO}_3\hat{\text{PbTiO}}_3\hat{\text{(Ba,Sr)TiO}}_3$ Ternary System. <i>Japanese Journal of Applied Physics</i> , 2003, 42, 5181-5184.	0.8	48
21	Integration Concepts for the Fabrication of LTCC Structures. <i>International Journal of Applied Ceramic Technology</i> , 2005, 2, 514-520.	1.1	47
22	A low temperature co-fired ceramic based microfluidic Clark-type oxygen sensor for real-time oxygen sensing. <i>Sensors and Actuators B: Chemical</i> , 2017, 240, 392-397.	4.0	41
23	Tailoring Properties and Performance of $(1-x)\text{BiScO}_3\hat{x}\text{PbTiO}_3$ Based Piezoceramics by Lanthanum Substitution. <i>Japanese Journal of Applied Physics</i> , 2004, 43, 8146-8150.	0.8	40
24	Thermal Degradation and Aging of High-Temperature Piezoelectric Ceramics. <i>Journal of the American Ceramic Society</i> , 2010, 93, 1965-1969.	1.9	30
25	Dielectric and Piezoelectric Properties in the $\text{BiScO}_3\hat{\text{PbTiO}}_3\hat{\text{PbO}}\hat{\text{SnO}}_2$ Ternary System. <i>Japanese Journal of Applied Physics</i> , 2004, 43, 5392-5397.	0.8	28
26	Low-Temperature Sintering and Properties of $0.98\text{PZT}\hat{0.02}\text{SKN}$ Ceramics with LiBiO_2 and CuO Addition. <i>Journal of the American Ceramic Society</i> , 2011, 94, 3386-3390.	1.9	28
27	An integrated multilayer ceramic piezoelectric micropump for microfluidic systems. <i>Journal of Intelligent Material Systems and Structures</i> , 2013, 24, 1637-1646.	1.4	24
28	Biostability of Low-Temperature Co-Fired Ceramic Materials for Microfluidic and Biomedical Devices. <i>International Journal of Applied Ceramic Technology</i> , 2012, 9, 60-66.	1.1	16
29	Sintering Behavior, Properties, and Applications of Co-Fired Piezoelectric/Low Temperature Co-Fired Ceramic ($\text{PZT}\hat{\text{SKN}}\hat{\text{LTCC}}$) Multilayer Ceramics. <i>International Journal of Applied Ceramic Technology</i> , 2013, 10, 354-364.	1.1	16
30	Aqueous tape casting of Al_2O_3 for multilayer co-fired ceramic based microfluidic chips with translucent windows. <i>Ceramics International</i> , 2018, 44, 3488-3491.	2.3	12
31	Delta-Shaped Piezoelectric Ultrasonic Motor for Two-Dimensional Positioning. <i>Japanese Journal of Applied Physics</i> , 2008, 47, 313.	0.8	11
32	High temperature piezoelectric materials for actuators and sensors. , 2005, 5761, 279.		9
33	Active Optical Fiber Alignment with a Piezoelectric Ultrasonic Motor Integrated Into Low Temperature Cofired Ceramics. <i>Journal of Intelligent Material Systems and Structures</i> , 2010, 21, 469-479.	1.4	9
34	An Integrated Low Temperature Co-Fired Ceramic-Based Clark-Type Oxygen Sensor. <i>IEEE Sensors Journal</i> , 2017, 17, 1590-1595.	2.4	9
35	A Biocompatible Low Temperature Co-fired Ceramic Substrate for Biosensors. <i>International Journal of Applied Ceramic Technology</i> , 2014, 11, 436-442.	1.1	7
36	Sintering behavior and biocompatibility of a low temperature co-fired ceramic for microfluidic biosensors. <i>International Journal of Applied Ceramic Technology</i> , 2017, 14, 99-107.	1.1	4

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37	Implementation and Assessment of Process Oriented Guided Inquiry Learning (POGIL) in Large-format Classrooms for Introduction to Materials. , 0, , .		1
38	Sintering Behavior of Co-fired LTCC/PZT-SKN Multilayer Ceramics for Microfluidic and Lab on Chip Applications. Additional Conferences (Device Packaging HiTEC HiTEN & CICMT), 2011, 2011, 000117-000118.	0.2	0
39	Improved Trans-endothelial Electrical Resistance Sensing using Microfluidic Low-Temperature Co-fired Ceramics. Additional Conferences (Device Packaging HiTEC HiTEN & CICMT), 2013, 2013, 000162-000167.	0.2	0
40	Biocompatible low temperature co-fired ceramic for biosensors. Additional Conferences (Device) Tj ETQq0 0 0 rgBT /Qverlock_10 Tf 50 6	0.2	0
41	Engineering Design in a Materials Processing Laboratory Course through a Guided Case Study. , 0, , .		0