

Richard E Eitel

List of Publications by Year in descending order

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41
papers

4,314
citations

218381

26
h-index

360668

35
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41
all docs

41
docs citations

41
times ranked

2956
citing authors

#	ARTICLE	IF	CITATIONS
1	Aqueous tape casting of Al ₂ O ₃ for multilayer co-fired ceramic based microfluidic chips with translucent windows. <i>Ceramics International</i> , 2018, 44, 3488-3491.	2.3	12
2	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
3	An Integrated Low Temperature Co-Fired Ceramic-Based Clark-Type Oxygen Sensor. <i>IEEE Sensors Journal</i> , 2017, 17, 1590-1595.	2.4	9
4	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
5	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
6	Sintering Behavior, Properties, and Applications of Co-fired Piezoelectric/Low Temperature Co-fired Ceramic (PZT-SKN/LTCC) Multilayer Ceramics. <i>International Journal of Applied Ceramic Technology</i> , 2013, 10, 354-364.	1.1	16
7	Suppressing iron oxide nanoparticle toxicity by vascular targeted antioxidant polymer nanoparticles. <i>Biomaterials</i> , 2013, 34, 9615-9622.	5.7	61
8	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
9	Improved Trans-endothelial Electrical Resistance Sensing using Microfluidic Low-Temperature Co-fired Ceramics. <i>Additional Conferences (Device Packaging HiTEC HiTEN & CICMT)</i> , 2013, 2013, 000162-000167.	0.2	0
10	Biocompatible low temperature co-fired ceramic for biosensors. <i>Additional Conferences (Device) Tj ETQq0 0 0 rgBT/Overlock_10 Tf 50 3</i>	0.2	0
11	Synthesis and characterization of poly(antioxidant \hat{I}^2 -amino esters) for controlled release of polyphenolic antioxidants. <i>Acta Biomaterialia</i> , 2012, 8, 2529-2537.	4.1	49
12	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
13	Origin and magnitude of the large piezoelectric response in the lead-free (1-x)BiFeO ₃ -xBaTiO ₃ solid solution. <i>Journal of Materials Research</i> , 2011, 26, 9-17.	1.2	61
14	Low-Temperature Sintering and Properties of 0.98PZT-0.02SKN Ceramics with LiBiO ₂ and CuO Addition. <i>Journal of the American Ceramic Society</i> , 2011, 94, 3386-3390.	1.9	28
15	Sintering Behavior of Co-fired LTCC/PZT-SKN Multilayer Ceramics for Microfluidic and Lab on Chip Applications. <i>Additional Conferences (Device Packaging HiTEC HiTEN & CICMT)</i> , 2011, 2011, 000117-000118.	0.2	0
16	Thermal Degradation and Aging of High-Temperature Piezoelectric Ceramics. <i>Journal of the American Ceramic Society</i> , 2010, 93, 1965-1969.	1.9	30
17	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
18	Progress in engineering high strain lead-free piezoelectric ceramics. <i>Science and Technology of Advanced Materials</i> , 2010, 11, 044302.	2.8	218

#	ARTICLE	IF	CITATIONS
19	Dielectric and Piezoelectric Properties in Mn-Modified $(1-x)BiFeO_3-xBaTiO_3$ Ceramics. Journal of the American Ceramic Society, 2009, 92, 2957-2961.	1.9	451
20	Magnetic hydrogel nanocomposites as remote controlled microfluidic valves. Lab on A Chip, 2009, 9, 1773.	3.1	133
21	Delta-Shaped Piezoelectric Ultrasonic Motor for Two-Dimensional Positioning. Japanese Journal of Applied Physics, 2008, 47, 313.	0.8	11
22	Nonlinear contributions to the dielectric permittivity and converse piezoelectric coefficient in piezoelectric ceramics. Journal of Applied Physics, 2006, 99, 124110.	1.1	174
23	High temperature piezoelectric materials for actuators and sensors. , 2005, 5761, 279.		9
24	Integration Concepts for the Fabrication of LTCC Structures. International Journal of Applied Ceramic Technology, 2005, 2, 514-520.	1.1	47
25	High Strain Piezoelectric Multilayer Actuators?A Material Science and Engineering Challenge. Journal of Electroceramics, 2005, 14, 177-191.	0.8	231
26	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
27	Manganese-modified $BiScO_3$ - $PbTiO_3$ piezoelectric ceramic for high-temperature shear mode sensor. Applied Physics Letters, 2005, 86, 262904.	1.5	170
28	Tailoring Properties and Performance of $(1-x)BiScO_3-xPbTiO_3$ Based Piezoceramics by Lanthanum Substitution. Japanese Journal of Applied Physics, 2004, 43, 8146-8150.	0.8	40
29	Phase Diagram of the Perovskite System $(1-x)BiScO_3-xPbTiO_3$. Journal of Applied Physics, 2004, 96, 2828-2831.	1.1	183
30	Dielectric and Piezoelectric Properties in the $BiScO_3$ - $PbTiO_3$ - PbO - SnO_2 Ternary System. Japanese Journal of Applied Physics, 2004, 43, 5392-5397.	0.8	28
31	Investigation of a high T_c piezoelectric system: $(1-x)Bi(Mg_{1/2}Ti_{1/2})O_3-xPbTiO_3$. Journal of Applied Physics, 2004, 95, 3633-3639.	1.1	190
32	Crystal and domain structure of the $BiFeO_3$ - $PbTiO_3$ solid solution. Journal of Applied Physics, 2003, 94, 3313-3318.	1.1	253
33	Lanthanum-Modified $(1-x)TjETQq110.784314rgBT/Overlock10Tf50192Td(x)(Bi_{0.8}La_{0.2})(Ga_{0.5}Bi_{0.5})O_3$ Crystalline Solutions: Novel Morphotropic Phase-Boundary Lead-Reduced Piezoelectrics. Journal of the American Ceramic Society, 2003, 86, 2111-2115.	1.9	67
34	Transmission electron microscopy investigation of the high temperature $BiScO_3$ - $PbTiO_3$ piezoelectric ceramic system. Journal of Applied Physics, 2003, 93, 9271-9274.	1.1	71
35	Piezoelectric Properties in the Perovskite $BiScO_3$ - $PbTiO_3$ - $(Ba,Sr)TiO_3$ Ternary System. Japanese Journal of Applied Physics, 2003, 42, 5181-5184.	0.8	48
36	Structural and electrical properties of $(1-x)Bi(Ga_{1/4}Sc_{3/4})O_3-xPbTiO_3$ piezoelectric ceramics. Journal of Applied Physics, 2003, 94, 605-609.	1.1	62

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37	Preparation and Characterization of High Temperature Perovskite Ferroelectrics in the Solid-Solution $(1-x)\text{BiScO}_3\text{-}x\text{PbTiO}_3$. Japanese Journal of Applied Physics, 2002, 41, 2099-2104.	0.8	495
38	Crystal growth and characterization of new high Curie temperature $(1-x)\text{BiScO}_3\text{-}x\text{PbTiO}_3$ single crystals. Journal of Crystal Growth, 2002, 236, 210-216.	0.7	89
39	New High Temperature Morphotropic Phase Boundary Piezoelectrics Based on $\text{Bi}(\text{Me})\text{O}_3\text{-PbTiO}_3$ Ceramics. Japanese Journal of Applied Physics, 2001, 40, 5999-6002.	0.8	809
40	Engineering Design in a Materials Processing Laboratory Course through a Guided Case Study. , 0, , .		0
41	Implementation and Assessment of Process Oriented Guided Inquiry Learning (POGIL) in Large-format Classrooms for Introduction to Materials. , 0, , .		1