Richard E Eitel

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/4832604/publications.pdf

Version: 2024-02-01

41 papers	4,314 citations	218677 26 h-index	361022 35 g-index
41 all docs	41 docs citations	41 times ranked	2956 citing authors

#	Article	IF	Citations
1	New High Temperature Morphotropic Phase Boundary Piezoelectrics Based on Bi(Me)O3â€“PbTiO3Ceramics. Japanese Journal of Applied Physics, 2001, 40, 5999-6002.	1.5	809
2	Preparation and Characterization of High Temperature Perovskite Ferroelectrics in the Solid-Solution (1-x)BiScO3â€“xPbTiO3. Japanese Journal of Applied Physics, 2002, 41, 2099-2104.	1.5	495
3	Dielectric and Piezoelectric Properties in Mnâ€Modified (1â^'x)BiFeO₃â€“xBaTiO₃ Ceramics. Journal of the American Ceramic Society, 2009, 92, 2957-2961.	3.8	451
4	Crystal and domain structure of the BiFeO3â€“PbTiO3 solid solution. Journal of Applied Physics, 2003, 94, 3313-3318.	2.5	253
5	High Strain Piezoelectric Multilayer Actuators?A Material Science and Engineering Challenge. Journal of Electroceramics, 2005, 14, 177-191.	2.0	231
6	Progress in engineering high strain lead-free piezoelectric ceramics. Science and Technology of Advanced Materials, 2010, 11, 044302.	6.1	218
7	Investigation of a high Tc piezoelectric system: (1â^'x)Bi(Mg1/2Ti1/2)O3â€“(x)PbTiO3. Journal of Applied Physics, 2004, 95, 3633-3639.	2.5	190
8	Phase Diagram of the Perovskite System (1â^'x)BiScO3-xPbTiO3. Journal of Applied Physics, 2004, 96, 2828-2831.	2.5	183
9	Nonlinear contributions to the dielectric permittivity and converse piezoelectric coefficient in piezoelectric ceramics. Journal of Applied Physics, 2006, 99, 124110.	2.5	174
10	Manganese-modified BiScO3â€“PbTiO3 piezoelectric ceramic for high-temperature shear mode sensor. Applied Physics Letters, 2005, 86, 262904.	3.3	170
11	Elastic, piezoelectric, and dielectric characterization of modified BiScO/sub 3/-PbTiO/sub 3/ ceramics. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2005, 52, 2131-2139.	3.0	167
12	Magnetic hydrogel nanocomposites as remote controlled microfluidic valves. Lab on A Chip, 2009, 9, 1773.	6.0	133
13	Crystal growth and characterization of new high Curie temperature (1â^'x)BiScO3â€“xPbTiO3 single crystals. Journal of Crystal Growth, 2002, 236, 210-216.	1.5	89
14	Transmission electron microscopy investigation of the high temperature BiScO3â^'PbTiO3 piezoelectric ceramic system. Journal of Applied Physics, 2003, 93, 9271-9274.	2.5	71
15	Lanthanumâ€Modified (1 â€“) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 192 Td (x)(Bi_{0.8}La_{0.2})(Ga<su> Crystalline Solutions: Novel Morphotropic Phaseâ€Boundary Leadâ€Reduced Piezoelectrics. Journal of the American Ceramic Society, 2003, 86, 2111-2115.	3.8	67
16	Structural and electrical properties of (1â^'x)Bi(Ga1/4Sc3/4)O3â€“xPbTiO3 piezoelectric ceramics. Journal of Applied Physics, 2003, 94, 605-609.	2.5	62
17	Origin and magnitude of the large piezoelectric response in the lead-free (1â€“x)BiFeO₃â€“xBaTiO₃ solid solution. Journal of Materials Research, 2011, 26, 9-17.	2.6	61
18	Suppressing iron oxide nanoparticle toxicity by vascular targeted antioxidant polymer nanoparticles. Biomaterials, 2013, 34, 9615-9622.	11.4	61

#	Article	IF	Citations
19	Synthesis and characterization of poly(antioxidant Î²-amino esters) for controlled release of polyphenolic antioxidants. Acta Biomaterialia, 2012, 8, 2529-2537.	8.3	49
20	Piezoelectric Properties in the Perovskite BiScO3â€“PbTiO3â€“(Ba,Sr)TiO3Ternary System. Japanese Journal of Applied Physics, 2003, 42, 5181-5184.	1.5	48
21	Integration Concepts for the Fabrication of LTCC Structures. International Journal of Applied Ceramic Technology, 2005, 2, 514-520.	2.1	47
22	A low temperature co-fired ceramic based microfluidic Clark-type oxygen sensor for real-time oxygen sensing. Sensors and Actuators B: Chemical, 2017, 240, 392-397.	7.8	41
23	Tailoring Properties and Performance of (1-x)BiScO3â€“xPbTiO3Based Piezoceramics by Lanthanum Substitution. Japanese Journal of Applied Physics, 2004, 43, 8146-8150.	1.5	40
24	Thermal Degradation and Aging of Highâ€Temperature Piezoelectric Ceramics. Journal of the American Ceramic Society, 2010, 93, 1965-1969.	3.8	30
25	Dielectric and Piezoelectric Properties in the BiScO3â€“PbTiO3â€“PbOÂ·SnO2Ternary System. Japanese Journal of Applied Physics, 2004, 43, 5392-5397.	1.5	28
26	Lowâ€Temperature Sintering and Properties of 0.98PZTâ€“0.02SKN Ceramics with LiBiO₂ and CuO Addition. Journal of the American Ceramic Society, 2011, 94, 3386-3390.	3.8	28
27	An integrated multilayer ceramic piezoelectric micropump for microfluidic systems. Journal of Intelligent Material Systems and Structures, 2013, 24, 1637-1646.	2.5	24
28	Biostability of Lowâ€Temperature Coâ€Fired Ceramic Materials for Microfluidic and Biomedical Devices. International Journal of Applied Ceramic Technology, 2012, 9, 60-66.	2.1	16
29	Sintering Behavior, Properties, and Applications of Coâ€Fired Piezoelectric/Low Temperature Coâ€Fired Ceramic (<scp>PZT</scp>â€<scp>SKN</scp>/<scp>LTCC</scp>) Multilayer Ceramics. International Journal of Applied Ceramic Technology, 2013, 10, 354-364.	2.1	16
30	Aqueous tape casting of Al2O3 for multilayer co-fired ceramic based microfluidic chips with translucent windows. Ceramics International, 2018, 44, 3488-3491.	4.8	12
31	Delta-Shaped Piezoelectric Ultrasonic Motor for Two-Dimensional Positioning. Japanese Journal of Applied Physics, 2008, 47, 313.	1.5	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. Journal of Intelligent Material Systems and Structures, 2010, 21, 469-479.	2.5	9
34	An Integrated Low Temperature Co-Fired Ceramic-Based Clark-Type Oxygen Sensor. IEEE Sensors Journal, 2017, 17, 1590-1595.	4.7	9
35	A Biocompatible Low Temperature Coâ€fired Ceramic Substrate for Biosensors. International Journal of Applied Ceramic Technology, 2014, 11, 436-442.	2.1	7
36	Sintering behavior and biocompatibility of a low temperature coâ€fired ceramic for microfluidic biosensors. International Journal of Applied Ceramic Technology, 2017, 14, 99-107.	2.1	4

#	Article	IF	Citations
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 /Overlock 10 Tf 50 6	0.2	0
41	Engineering Design in a Materials Processing Laboratory Course through a Guided Case Study. , 0, , .		0