

Gerald U Gerlach

List of Publications by Year in descending order

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388
papers

3,970
citations

172457

29
h-index

223800

46
g-index

398
all docs

398
docs citations

398
times ranked

3442
citing authors

#	ARTICLE	IF	CITATIONS
1	Integrated Temperature and Position Sensors in a Shape-Memory Driven Soft Actuator for Closed-Loop Control. <i>Materials</i> , 2022, 15, 520.	2.9	3
2	Magnetization of Magnetically Inhomogeneous Sr ₂ FeMoO ₆ - $\dot{\hat{r}}$ Nanoparticles. <i>Electronic Materials</i> , 2022, 3, 82-92.	1.9	1
3	Suitability of Different Analytical Derivations of Electrically Induced Stress States in Planar and Cylindrical Dielectric Elastomer Actuators. <i>Materials</i> , 2022, 15, 1321.	2.9	1
4	Strontium Ferromolybdate-Based Magnetic Tunnel Junctions. <i>Applied Sciences (Switzerland)</i> , 2022, 12, 2717.	2.5	2
5	Funktionsprinzip und Anwendung der Kraftkompensationsmessmethode für miniaturisierte hydrogelbasierte Sensoren. <i>TM Technisches Messen</i> , 2022, 89, 465-477.	0.7	1
6	Compliant continuum gripper powered by dielectric elastomers based on anisotropic bending stiffness caused by integrated textile materials. , 2022, , .		1
7	Thermo-Electro-Mechanical Characterization of PDMS-Based Dielectric Elastomer Actuators. <i>Materials</i> , 2022, 15, 221.	2.9	6
8	Sensor and Measurement Science International Conference 2021. <i>TM Technisches Messen</i> , 2022, 89, 1-3.	0.7	0
9	High-strain helical dielectric elastomer actuators. , 2022, , .		6
10	Effect of barium titanate particle filler on the performance of polyurethane-based dielectric elastomer actuators. , 2022, , .		8
11	Resistivity and Tunnel Magnetoresistance in Double- ϵ Perovskite Strontium Ferromolybdate Ceramics. <i>Physica Status Solidi (B): Basic Research</i> , 2022, 259, .	1.5	3
12	Stretchable and Compliant Textile Strain Sensors. <i>IEEE Sensors Journal</i> , 2021, 21, 25632-25640.	4.7	7
13	Studies on porosity in poly(ϵ -N-isopropylacrylamide) hydrogels for fast-responsive piezoresistive microsensors. <i>Journal of Sensors and Sensor Systems</i> , 2021, 10, 93-100.	0.9	5
14	High-Displacement, Fiber-Reinforced Shape Memory Alloy Soft Actuator with Integrated Sensors and Its Equivalent Network Model. <i>Advanced Intelligent Systems</i> , 2021, 3, 2000221.	6.1	19
15	Non-Monotonic Sensor Behavior of Carbon Particle-Filled Textile Strain Sensors. <i>Engineering Proceedings</i> , 2021, 6, 13.	0.4	1
16	How to Bridge the Gap Between Academic and Industry-Oriented Sensor Research. <i>IEEE Sensors Journal</i> , 2021, 21, 12363-12369.	4.7	2
17	Hydrogel-Based Chemical and Biochemical Sensors – A Review and Tutorial Paper. <i>IEEE Sensors Journal</i> , 2021, 21, 12798-12807.	4.7	6
18	20 Years of IEEE Sensors Journal. <i>IEEE Sensors Journal</i> , 2021, 21, 12344-12351.	4.7	2

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19	The size-of-source effect in thermography. <i>Journal of Sensors and Sensor Systems</i> , 2021, 10, 179-184.	0.9	0
20	RF-Characterization of HZO Thin Film Varactors. <i>Crystals</i> , 2021, 11, 980.	2.2	5
21	Performance of force-compensated chemical sensors based on bisensitive hydrogels. <i>Sensors and Actuators B: Chemical</i> , 2021, 342, 129420.	7.8	9
22	Tunability of Ferroelectric Hafnium Zirconium Oxide for Varactor Applications. <i>IEEE Transactions on Electron Devices</i> , 2021, 68, 5269-5276.	3.0	10
23	High-Speed, Helical and Self-Coiled Dielectric Polymer Actuator. <i>Actuators</i> , 2021, 10, 15.	2.3	9
24	Underwater Bending Actuator Based on Integrated Anisotropic Textile Materials and a Conductive Hydrogel Electrode. <i>Actuators</i> , 2021, 10, 270.	2.3	6
25	Precipitation of Iron Oxide in Hydrogel with Superparamagnetic and Stimuli-Responsive Properties. , 2021, 5, .		0
26	Systems Actuated by Shape Memory Alloys: Identification and Modeling. <i>System Theory, Control and Computing Journal</i> , 2021, 1, 12-20.	0.5	3
27	Challenges in $\text{Sr}_{2-x}\text{FeMoO}_6$ Thin Film Deposition. <i>Physica Status Solidi (B): Basic Research</i> , 2020, 257, 1900312.	1.5	12
28	Experimental Investigation and Modeling of the Dynamic Resistance Response of Carbon Particle-Filled Polymers. <i>Macromolecular Materials and Engineering</i> , 2020, 305, 2000361.	3.6	23
29	A Biomimetic Fish Fin-Like Robot Based on Textile Reinforced Silicone. <i>Micromachines</i> , 2020, 11, 298.	2.9	28
30	Bistable Threshold Humidity Sensor Switch with Rectangular Bimorph Bending Plate. <i>Micromachines</i> , 2020, 11, 569.	2.9	6
31	A Worm-Like Biomimetic Crawling Robot Based on Cylindrical Dielectric Elastomer Actuators. <i>Frontiers in Robotics and AI</i> , 2020, 7, 9.	3.2	32
32	Multisensitive Swelling of Hydrogels for Sensor and Actuator Design. <i>Advanced Engineering Materials</i> , 2020, 22, 2000004.	3.5	20
33	Swelling Studies of Porous and Nonporous Semi-IPN Hydrogels for Sensor and Actuator Applications. <i>Micromachines</i> , 2020, 11, 425.	2.9	10
34	Semi-Interpenetrating Polymer Networks Based on N-isopropylacrylamide and 2-acrylamido-2-methylpropane Sulfonic Acid for Intramolecular Force-Compensated Sensors. <i>Journal of the Electrochemical Society</i> , 2020, 167, 167521.	2.9	4
35	Thin Films for Electrocaloric Cooling Devices. <i>Materials Horizons</i> , 2020, , 369-388.	0.6	0
36	Modelling and model verification of an autonomous threshold sensor for humidity measurements. <i>Journal of Sensors and Sensor Systems</i> , 2020, 9, 1-6.	0.9	2

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37	Morphological characterization and porosity profiles of tantalum glancing-angle-deposited thin films. Journal of Sensors and Sensor Systems, 2020, 9, 79-87.	0.9	1
38	Analysis of photoelastic properties of monocrystalline silicon. Journal of Sensors and Sensor Systems, 2020, 9, 209-217.	0.9	8
39	Manufacturing of a helical, self-coiling dielectric polymer actuator. , 2020, 64, .		0
40	Intramolecular force-compensated hydrogel-based sensors with reduced response times. TM Technisches Messen, 2019, 86, 227-236.	0.7	10
41	Enzyme-Functionalized Piezoresistive Hydrogel Biosensors for the Detection of Urea. Sensors, 2019, 19, 2858.	3.8	40
42	A Tunable mmWave Band-Pass Filter Based on Ferroelectric Hafnium Zirconium Oxide Varactors. , 2019, , .		8
43	Evaluation of a novel test method for the determination of strain rate-dependent material properties of high-performance fibers. Procedia Structural Integrity, 2019, 17, 942-948.	0.8	3
44	Piezoresistive Hydrogel-Based Sensors for the Detection of Ammonia. Sensors, 2019, 19, 971.	3.8	19
45	Hydrogel-Based Sensors for Ethanol Detection in Alcoholic Beverages. Sensors, 2019, 19, 1199.	3.8	27
46	Hydrogel-Based Plasmonic Sensor Substrate for the Detection of Ethanol. Sensors, 2019, 19, 1264.	3.8	11
47	Plasmonic sensor for on-site detection of diclofenac molecules. Sensors and Actuators B: Chemical, 2019, 288, 594-600.	7.8	13
48	A mmWave Phase Shifter Based on Ferroelectric Hafnium Zirconium Oxide Varactors. , 2019, , .		15
49	Optical and impedimetric study of genetically modified cells for diclofenac sensing. Journal of Sensors and Sensor Systems, 2019, 8, 215-222.	0.9	3
50	Passive Thermography, Thermal Imaging. , 2019, , 1371-1400.		0
51	Thermal Wave Techniques. , 2019, , 1419-1477.		0
52	Grenzen der thermischen, räumlichen und zeitlichen Auflösung ungekühlter Thermografiekameras. TM Technisches Messen, 2018, 85, 65-69.	0.7	1
53	An advanced radiometric calibration approach for uncooled thermal cameras. Photogrammetric Record, 2018, 33, 30-48.	0.4	26
54	Development and testing of controlled adaptive fiber-reinforced elastomer composites. Textile Research Journal, 2018, 88, 345-353.	2.2	8

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55	Detection of diclofenac molecules by planar and nanostructured plasmonic sensor substrates. Sensors and Actuators B: Chemical, 2018, 254, 749-754.	7.8	13
56	Miniaturized force-compensated hydrogel-based pH sensors. Sensors and Actuators B: Chemical, 2018, 255, 3495-3504.	7.8	29
57	Hysteresis Phenomena in Relaxor Ferroelectrics: Consideration of Polar Nanoregions. Physica Status Solidi (B): Basic Research, 2018, 255, 1700245.	1.5	6
58	Detection of Ammonia Based on Stimuli-Responsive Hydrogels. Proceedings (mdpi), 2018, 2, 1109.	0.2	0
59	AMA-Konferenz SENSOR/IRS ² 2017 in Nürnberg. TM Technisches Messen, 2018, 85, 469-470.	0.7	0
60	Kraftkompensierte chemische Sensoren auf Basis bisensitiver interpenetrierender Polymernetzwerke / Bisensitive interpenetrating polymer networks for force-compensated chemical sensors. TM Technisches Messen, 2018, 85, s45-s51.	0.7	2
61	Thermal Pulse Studies of Integrated Piezoceramics. Advanced Engineering Materials, 2018, 20, 1800435.	3.5	2
62	Convective losses of thermal infrared emitters with cantilevered heating elements. Sensors and Actuators A: Physical, 2018, 279, 416-423.	4.1	1
63	Thermal Wave Techniques. , 2018, , 1-59.		1
64	Passive Thermography, Thermal Imaging. , 2018, , 1-30.		0
65	3D-FEM Simulation of a MEMS-Based Electrocaloric Ba(Zr _{0.2} Ti _{0.8})O ₃ Thin-Film Microfluidic Refrigeration Device. Energy Technology, 2018, 6, 1553-1559.	3.8	4
66	Hydrogel-based piezoresistive sensor for the detection of ethanol. Journal of Sensors and Sensor Systems, 2018, 7, 219-226.	0.9	17
67	Evaluation of the pH-sensitive swelling of a hydrogel by means of a plasmonic sensor substrate. Journal of Sensors and Sensor Systems, 2018, 7, 51-55.	0.9	4
68	MULTISENSORS FOR WHOLE-CELL ANALYTICS. Informatyka Automatyka Pomiary W Gospodarce I Ochronie Środowiska, 2018, 8, 39-41.	0.4	1
69	Materials issues in thermal modeling of thin film electrocaloric solid-state refrigerators. Modern Electronic Materials, 2018, 4, 59-69.	0.6	0
70	Vacuum-ultraviolet ellipsometry spectra and optical properties of Ba(Zr,Ti)O ₃ films. Thin Solid Films, 2017, 621, 58-62.	1.8	7
71	Adapting BaTiO ₃ -based relaxor ferroelectrics for electrocaloric application. Ferroelectrics, 2017, 515, 1-7.	0.6	8
72	Polarisationsbestimmung integrierter Piezokeramiken mittels Wärmeschwingungen und Wärmeimpulsen. TM Technisches Messen, 2017, 84, 81-87.	0.7	1

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73	Biocompatible Hermetic Encapsulation for Implantable Miniaturized Biomedical Sensor System. <i>Procedia Technology</i> , 2017, 27, 42-43.	1.1	0
74	Microfluidic Biochip for Studying Cellular Response to Non-homogeneous DC Electric Fields. <i>Procedia Technology</i> , 2017, 27, 250-251.	1.1	0
75	Chemically controlled micro-pores and nano-filters for separation tasks in 2D and 3D microfluidic systems. <i>RSC Advances</i> , 2017, 7, 49279-49289.	3.6	14
76	18. GMA/ITG-Fachtagung Sensoren und Messsysteme 2016. <i>TM Technisches Messen</i> , 2017, 84, 371-372.	0.7	0
77	Performance of Fast-Responsive, Porous Crosslinked Poly(N-Isopropylacrylamide) in a Piezoresistive Microsensor. , 2017, 1, 1-4.		13
78	Bisensitive Hydrogel With Volume Compensation Properties for Force Compensation Sensors. , 2017, 1, 1-4.		10
79	Signal enhancement in cantilever magnetometry based on a co-resonantly coupled sensor. <i>Beilstein Journal of Nanotechnology</i> , 2016, 7, 1033-1043.	2.8	8
80	A Self-Consistent Model for Thermal Oxidation of Silicon at Low Oxide Thickness. <i>Advances in Condensed Matter Physics</i> , 2016, 2016, 1-13.	1.1	13
81	Biochemical piezoresistive sensors based on pH- and glucose-sensitive hydrogels for medical applications. <i>Current Directions in Biomedical Engineering</i> , 2016, 2, 117-121.	0.4	5
82	Thermal-pulse Method for Life Monitoring of Integrated Piezoelectric Transducers. <i>Procedia Engineering</i> , 2016, 168, 848-851.	1.2	2
83	Control of a Hydrogel-based Thermal Actuator in Closed-loop Configuration. <i>Procedia Engineering</i> , 2016, 168, 1504-1508.	1.2	1
84	Impedance model of immune reaction leading to NETosis and comparison with in vitro measurements. <i>Sensors and Actuators B: Chemical</i> , 2016, 236, 947-953.	7.8	2
85	Non-destructive Evaluation of Integrated Piezoelectric Transducers by Thermal Waves and Thermal Pulses. <i>Procedia Technology</i> , 2016, 26, 59-65.	1.1	3
86	Thermal excitation as a mean for nondestructive evaluation of embedded piezoelectric transducers. , 2016, , .		0
87	Absolute und relative Messunsicherheit von ungekÄ¼hlten Thermografiekameras. <i>TM Technisches Messen</i> , 2016, 83, 36-42.	0.7	0
88	A multi-layered variable stiffness device based on smart form closure actuators. <i>Journal of Intelligent Material Systems and Structures</i> , 2016, 27, 375-383.	2.5	23
89	Magnetron sputtering of piezoelectric AlN and AlScN thin films and their use in energy harvesting applications. <i>Microsystem Technologies</i> , 2016, 22, 1613-1617.	2.0	38
90	Design, simulation and characterization of hydrogel-based thermal actuators. <i>Sensors and Actuators B: Chemical</i> , 2016, 236, 900-908.	7.8	21

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91	Mono- and bi-stable planar actuators for stiffness control driven by shape memory alloys. <i>Sensors and Actuators A: Physical</i> , 2016, 238, 95-103.	4.1	5
92	Lead-free Relaxor Ferroelectrics for Electrocaloric Cooling. <i>Materials Today: Proceedings</i> , 2016, 3, 622-631.	1.8	16
93	Characterisation of the polarisation state of embedded piezoelectric transducers by thermal waves and thermal pulses. <i>Journal of Sensors and Sensor Systems</i> , 2016, 5, 165-170.	0.9	5
94	Implantable biomedical sensor array with biocompatible hermetic encapsulation. <i>Journal of Sensors and Sensor Systems</i> , 2016, 5, 229-235.	0.9	4
95	Microfluidic measurement of cell motility in response to applied non-homogeneous DC electric fields. <i>Journal of Sensors and Sensor Systems</i> , 2016, 5, 237-243.	0.9	4
96	Employing electro-mechanical analogies for co-resonantly coupled cantilever sensors. <i>Journal of Sensors and Sensor Systems</i> , 2016, 5, 245-259.	0.9	8
97	Paradigm change in hydrogel sensor manufacturing: from recipe-driven to specification-driven process optimization. <i>Journal of Sensors and Sensor Systems</i> , 2016, 5, 39-53.	0.9	1
98	Biochemical piezoresistive sensors based on hydrogels for biotechnology and medical applications. <i>Journal of Sensors and Sensor Systems</i> , 2016, 5, 409-417.	0.9	12
99	Shutter-less calibration of uncooled infrared cameras. <i>Journal of Sensors and Sensor Systems</i> , 2016, 5, 9-16.	0.9	37
100	Humidity micro switch based on humidity-sensitive polymers. , 2015, , .		0
101	Force-compensated hydrogel-based pH sensor. <i>Proceedings of SPIE</i> , 2015, , .	0.8	5
102	Thermal Microactuator Based on Temperature-sensitive Hydrogel. <i>Procedia Engineering</i> , 2015, 120, 57-62.	1.2	4
103	Application of a co-resonant sensor concept in cantilever magnetometry. , 2015, , .		2
104	Electrospray ionization deposition of BSA under vacuum conditions. <i>Proceedings of SPIE</i> , 2015, , .	0.8	0
105	Electrocaloric cooling based on relaxor ferroelectrics. <i>Phase Transitions</i> , 2015, 88, 333-341.	1.3	16
106	Improving the shutter-less compensation method for TEC-less microbolometer-based infrared cameras. <i>Proceedings of SPIE</i> , 2015, , .	0.8	4
107	Multitarget Sputtering of Piezoelectric Mixed Oxide Thin Films onto Flexible Substrates. <i>Solid State Phenomena</i> , 2015, 230, 3-7.	0.3	0
108	Mn-doped PMN-PT thin films for electrocaloric applications. , 2015, , .		1

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109	Impedance Model of Immune Reaction Leading to NETosis. <i>Procedia Engineering</i> , 2015, 120, 564-569.	1.2	1
110	Photocatalytic Properties of TiO ₂ Thin Films Modified with Ag and Pt Nanoparticles Deposited by Gas Flow Sputtering. <i>Journal of Nanoscience and Nanotechnology</i> , 2015, 15, 6478-6486.	0.9	2
111	Influence of process parameters on properties of piezoelectric AlN and AlScN thin films for sensor and energy harvesting applications. <i>Proceedings of SPIE</i> , 2015, , .	0.8	5
112	Calibration of uncooled thermal infrared cameras. <i>Journal of Sensors and Sensor Systems</i> , 2015, 4, 187-197.	0.9	78
113	Efficient thermal infrared emitter with high radiant power. <i>Journal of Sensors and Sensor Systems</i> , 2015, 4, 313-319.	0.9	5
114	Piezoresistive Chemical Sensors Based on Functionalized Hydrogels. <i>Chemosensors</i> , 2014, 2, 145-170.	3.6	14
115	Pyroelektrische Infrarotsensoren mit hoher DetektivitÄt. <i>TM Technisches Messen</i> , 2014, 81, 99-106.	0.7	1
116	Zum Gedenken an Professor Ludwig Walther, BegrÄ¼nder der Dresdner Infrarotmesstechnik-Schule. <i>TM Technisches Messen</i> , 2014, 81, 97-98.	0.7	0
117	Sensitive humidity micro-switch based on polymers. , 2014, , .		0
118	Polarization characterization of PZT disks and of embedded PZT plates by thermal wave methods. <i>AIP Conference Proceedings</i> , 2014, , .	0.4	7
119	Modeling transient thermal behavior of shutter-less microbolometer-based infrared cameras. , 2014, , .		1
120	Absorptionsschichten f¼r thermische Infrarotsensoren. <i>TM Technisches Messen</i> , 2014, 81, 127-136.	0.7	1
121	On a high-potential variable-stiffness device. <i>Microsystem Technologies</i> , 2014, 20, 599-606.	2.0	15
122	Dielectric and pyroelectric properties of ultrathin, monocrystalline lithium tantalate. <i>Infrared Physics and Technology</i> , 2014, 63, 35-41.	2.9	24
123	Synthesis and deposition of metal nanoparticles by gas condensation process. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2014, 32, .	2.1	26
124	Reactively sputtered PMN-PT thin films for electrocaloric applications. , 2014, , .		3
125	Multitarget sputtering of PZT-containing mixed oxide thin films onto copper-coated Kapton substrates. , 2014, , .		0
126	Equivalent circuit models of two-layer flexure beams with excitation by temperature, humidity, pressure, piezoelectric or piezomagnetic interactions. <i>Journal of Sensors and Sensor Systems</i> , 2014, 3, 187-211.	0.9	19

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127	Impedance-based detection of extracellular DNA in wounds. Journal of Physics: Conference Series, 2013, 434, 012057.	0.4	1
128	Requirements to (Ba,Ca)(Zr,Ti)O ₃ ; electrocaloric materials. , 2013, , .		2
129	Evaluation of the polarization state of piezofiber composites. , 2013, , .		1
130	A simple thermal wave method for the evaluation of the polarization state of embedded piezoceramics. Ceramics International, 2013, 39, S587-S590.	4.8	8
131	A Closed-Loop Hydrogel-Based Chemical Sensor. IEEE Sensors Journal, 2013, 13, 994-1002.	4.7	9
132	AMA-Kongresse SENSOR, OPTO und IRS2 als Veranstaltungen zur SENSOR+TEST 2013 in Nürnberg. TM Technisches Messen, 2013, 80, 409-410.	0.7	0
133	On the development of planar actuators for variable stiffness devices. , 2013, , .		4
134	On a high-potential variable flexural stiffness device. , 2013, , .		2
135	Lead-free (Ba,Ca)(Zr,Ti)O ₃ Based Electrocaloric Devices: Challenges and Perspectives. Materials Research Society Symposia Proceedings, 2013, 1581, 1.	0.1	3
136	A Laser Intensity Modulation Method for the Evaluation of the Polarization State of Embedded Piezoceramics. Ferroelectrics, 2013, 453, 127-132.	0.6	6
137	Evaluation of the pyroelectric response of embedded piezoelectrics by means of a Nyquist plot. , 2013, , .		1
138	Swelling Behaviour of Functionalized Hydrogels for Application in Chemical Sensors. , 2013, , 265-273.		5
139	Domain Formation in Nano-patterned PZT Thin Films. Materials Research Society Symposia Proceedings, 2012, 1454, 267-272.	0.1	0
140	Enhanced Piezoelectric Response in Nano-Patterned Lead Zirconate Titanate Thin Films. Japanese Journal of Applied Physics, 2012, 51, 11PG04.	1.5	1
141	Fractal analysis of surface topography of solid oxide fuel cell materials. , 2012, , .		1
142	PZT Thin Films Deposited on Copper-Coated Polymer Film Substrates. Ferroelectrics, 2012, 429, 75-81.	0.6	3
143	EAP-Actuators with Improved Actuation Capabilities for Construction Elements with Controllable Stiffness. Advances in Science and Technology, 2012, 79, 75-80.	0.2	8
144	30 Jahre Fachtagung Sensoren und Messsysteme. TM Technisches Messen, 2012, 79, 431-432.	0.7	0

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145	SENSOR + TEST Konferenzen 2011 in Nürnberg. TM Technisches Messen, 2012, 79, 3-3.	0.7	1
146	Optischer Biosensor auf Basis abhÄngiger Expression fluoreszierender Proteine. TM Technisches Messen, 2012, 79, 60-64.	0.7	0
147	Miniaturized textile-based multi-layer ph-sensor for wound monitoring applications. Autex Research Journal, 2012, 12, 20-22.	1.1	26
148	Nano-patterned PZT films for perspective functional materials. , 2012, , .		0
149	Composition profiling of piezoelectric PZT thin films deposited onto Cu coated polymer substrates. , 2012, , .		0
150	Packaging for Electronic Systems. , 2012, , 3-30.		0
151	Nano- and Biotechniques for Electronic Device Packaging. , 2012, , 49-76.		1
152	Infection Monitoring in Wounds. Procedia Chemistry, 2012, 6, 175-183.	0.7	6
153	Evaluation of polarization of embedded piezoelectrics by the thermal wave method. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2012, 59, 1950-1954.	3.0	11
154	Multi-layer beam with variable stiffness based on electroactive polymers. Proceedings of SPIE, 2012, , .	0.8	36
155	Binary Zero-Power Sensors: an alternative solution for power-free energy-autonomous sensor systems. Microsystem Technologies, 2012, 18, 1225-1231.	2.0	8
156	Compensation method in sensor technology: a system-based description. Journal of Sensors and Sensor Systems, 2012, 1, 5-27.	0.9	9
157	Novel pyroelectric infrared sensors for PIR motion detectors. Proceedings of SPIE, 2012, , .	0.8	0
158	Editorial "Not just another new journal of sensors". Journal of Sensors and Sensor Systems, 2012, 1, 1-3.	0.9	0
159	Enhanced Piezoelectric Response in Nano-Patterned Lead Zirconate Titanate Thin Films. Japanese Journal of Applied Physics, 2012, 51, 11PG04.	1.5	0
160	Development of hydrogel-based MEMS piezoresistive sensors for detection of solution pH and glucose concentration. Vietnam Journal of Mechanics, 2012, 34, 281-288.	0.5	0
161	Evaluation of polarization of embedded piezoelectrics by the thermal wave method. , 2011, , .		2
162	A novel miniaturizable closed-loop hydrogel-based pH sensor. , 2011, , .		1

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163	The measurement of dissolved and gaseous carbon dioxide concentration. Measurement Science and Technology, 2011, 22, 072001.	2.6	102
164	Imprint Behavior of Piezoelectric PZT Thin Films Deposited onto Cu-Coated Polymer Substrates. Ferroelectrics, 2011, 419, 103-108.	0.6	0
165	A 256-pixel pyroelectric linear array with new black coating. , 2011, , .		1
166	Microstructured Surfaces on LiTaO ₃ -Based Pyroelectric Infrared Detectors. IEEE Sensors Journal, 2011, 11, 2204-2211.	4.7	3
167	Macroporous Smart Hydrogels for Fast-responsive Piezoresistive Chemical Microsensors. Procedia Engineering, 2011, 25, 1141-1144.	1.2	11
168	A Novel Patch Micro Electrode Array for Sensing Ionic Membrane Currents. Procedia Engineering, 2011, 25, 1373-1376.	1.2	0
169	Nondestructive Evaluation of Polarization in LTCC/PZT Piezoelectric Modules by Thermal Wave Methods. Ferroelectrics, 2011, 420, 25-29.	0.6	6
170	Modeling of Temperature-Sensitive Polyelectrolyte Gels by the Use of the Coupled Chemo-Electro-Mechanical Formulation. Mechanics of Advanced Materials and Structures, 2011, 18, 511-523.	2.6	21
171	Binary zero-power sensors: an alternative solution for power-free energy-autonomous sensor systems. Proceedings of SPIE, 2011, , .	0.8	0
172	Large-area fabrication of stochastic nano-structures on polymer webs by ion- and plasma treatment. Surface and Coatings Technology, 2011, 205, S495-S497.	4.8	6
173	Deposition of PZT thin film onto copper-coated polymer films by mean of pulsed-DC and RF-reactive sputtering. Surface and Coatings Technology, 2011, 205, S241-S244.	4.8	8
174	High-sensitive pyroelectric detectors with internal thermal amplification. Sensors and Actuators A: Physical, 2011, 172, 169-174.	4.1	6
175	Modeling and simulation of pH-sensitive hydrogels. Colloid and Polymer Science, 2011, 289, 535-544.	2.1	44
176	Vacuum-ultraviolet ellipsometry spectra and structural properties of Pb(Zr,Ti)O ₃ films. Thin Solid Films, 2011, 519, 2885-2888.	1.8	8
177	Chemo-electro-mechanical modeling of pH-sensitive hydrogels. Proceedings of SPIE, 2011, , .	0.8	2
178	The use of thermal effects for increasing the responsivity of pyroelectric detectors. , 2011, , .		0
179	Biochemical microsensors on the basis of metabolically sensitive hydrogels. Proceedings of SPIE, 2011, , .	0.8	2
180	Top-Down Fabrication of Ordered Mesoscopic PZT Dot Arrays by Natural Lithography. Integrated Ferroelectrics, 2011, 123, 75-80.	0.7	6

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181	Ultra-low voltage ferroelectric electron emission from lead zirconate titanate thin films with nanostructured top electrodes. Journal of Applied Physics, 2011, 110, 014104.	2.5	5
182	Hydrogel-based piezoresistive biochemical microsensors. Proceedings of SPIE, 2010, , .	0.8	1
183	The role of the secondary pyroelectric effect in a ferroelectric relaxor 0.72Pb(Mg _{1/3} Nb _{2/3})O ₃ -0.28PbTiO ₃ . Bulletin of the Russian Academy of Sciences: Physics, 2010, 74, 1270-1271.	0.6	0
184	High rate deposition of highly stable a-Si:H films using multi-hollow discharges for thin films solar cells. Surface and Coatings Technology, 2010, 205, S241-S245.	4.8	35
185	Piezoresistive biochemical sensors based on hydrogels. Microsystem Technologies, 2010, 16, 703-715.	2.0	15
186	Nano- and Biotechniques in Electronic Packaging. IEEE Nanotechnology Magazine, 2010, 4, 23-27.	1.3	0
187	High-sensitive pyroelectric detectors with internal thermal amplification. Procedia Engineering, 2010, 5, 629-632.	1.2	1
188	Thermal effects to enhance the responsivity of pyroelectric infrared detectors. Procedia Engineering, 2010, 5, 944-947.	1.2	11
189	Reactive magnetron sputtering from a composite target for large area BaPbO ₃ thin film electrode. Thin Solid Films, 2010, 518, 4106-4112.	1.8	5
190	Title is missing!. Sensors and Actuators B: Chemical, 2010, 144, 343-343.	7.8	1
191	DC microelectrode array for investigating the intracellular ion changes. Biosensors and Bioelectronics, 2010, 26, 1268-1272.	10.1	6
192	A Survey on Piezoelectric Ceramics for Generator Applications. Journal of the American Ceramic Society, 2010, 93, 901-912.	3.8	85
193	Influence of Oxygen Stoichiometry and Cation Ordering on Magnetoresistive Properties of Sr ₂ FeMoO _{6±δ} . Materials Science Forum, 2010, 636-637, 338-343.	0.3	13
194	Hochdetektive pyroelektrische Infrarotsensoren auf der Basis von LiTaO ₃ . TM Technisches Messen, 2010, 77, 333-340.	0.7	2
195	Polarization Fatigue of NiCr/PZT/BaPbO ₃ Capacitors on Platinized Silicon Wafers. Ferroelectrics, 2010, 405, 242-248.	0.6	2
196	OPTO- und Infrarot-Konferenzen 2009 im Rahmen der SENSOR+TEST im Mai 2009 in Nürnberg. TM Technisches Messen, 2010, 77, 323-324.	0.7	0
197	Der pH-Wert wird 100 Jahre alt. TM Technisches Messen, 2010, 77, 127-128.	0.7	0
198	Thermo-chemo-electro-mechanical modeling of polyelectrolyte gels. Proceedings of SPIE, 2010, , .	0.8	0

#	ARTICLE	IF	CITATIONS
199	Thermal wave study of piezoelectric coefficient distribution in PMN-PT single crystals. <i>Advances in Applied Ceramics</i> , 2010, 109, 131-134.	1.1	9
200	Piezoresistive pH Microsensors Based on Stimuli-Sensitive Polyelectrolyte Hydrogels Piezoresistive pH-Mikrosensoren auf der Basis stimuli-sensitiver polyelektrolytischer Hydrogele. <i>TM Technisches Messen</i> , 2010, 77, .	0.7	17
201	Infrared Responsivity of Pyroelectric Detectors With Nanostructured NiCr Thin-Film Absorber. <i>IEEE Sensors Journal</i> , 2010, 10, 1564-1565.	4.7	20
202	Piezoelectric PZT Thin Films on Flexible Copper-Coated Polymer Films. <i>Materials Science Forum</i> , 2010, 636-637, 392-397.	0.3	3
203	Smart hydrogel based microsensing platform for continuous glucose monitoring. , 2010, 2010, 677-9.		5
204	Investigation of nano-patterned PZT thin films by piezoresponse force microscopy. , 2010, , .		0
205	Micro electrode array for recording electrical membrane ionic currents. , 2010, , .		1
206	Non-scanning measurement of local curvature with an ultrasound annular array. , 2009, , .		3
207	Deposition of PZT Thin Films on Copper-Coated Polymer Foilsâ€™Challenges and Perspectives. <i>Ferroelectrics</i> , 2009, 379, 107-112.	0.6	8
208	Size-Dependent Ferroelectric Phase Transitions in Nanocone Particles. <i>Ferroelectrics</i> , 2009, 390, 177-183.	0.6	1
209	Piezoresistive chemical sensors based on hydrogels. <i>Proceedings of SPIE</i> , 2009, , .	0.8	3
210	Modeling and experimental investigations of the sensitivity of piezoresistive chemical sensors based on polyelectrolytic hydrogels. , 2009, , .		3
211	In vitro investigations of a pH- and ionic-strength-responsive polyelectrolytic hydrogel using a piezoresistive microsensor. <i>Proceedings of SPIE</i> , 2009, 7287, .	0.8	2
212	Novel technology for polymer-based microbolometers. <i>Proceedings of SPIE</i> , 2009, , .	0.8	0
213	Low-voltage electron emission from thin $[\text{Pb}(\text{Mg}_{1/3}\text{Nb}_{2/3})\text{O}_3]_{0.72}[\text{PbTiO}_3]_{0.28}$ single crystals induced by ferroelectric polarization switching. <i>New Journal of Physics</i> , 2009, 11, 023004.		
214	Coupled Multi-field Formulation in Space and Time for the Simulation of Intelligent Hydrogels. <i>Journal of Intelligent Material Systems and Structures</i> , 2009, 20, 1483-1492.	2.5	30
215	Non-linear Effects in Hydrogel-based Chemical Sensors: Experiment and Modeling. <i>Journal of Intelligent Material Systems and Structures</i> , 2009, 20, 949-961.	2.5	30
216	All-dielectric metamaterials: simulation of nanorod and arrays. <i>Materials Research Society Symposia Proceedings</i> , 2009, 1223, 6081.	0.1	0

#	ARTICLE	IF	CITATIONS
217	Porous polyethylene terephthalate membranes in microfluidic applications. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2009, 206, 442-448.	1.8	9
218	Activation energy of thermally grown silicon dioxide layers on silicon substrates. <i>Physica Status Solidi (B): Basic Research</i> , 2009, 246, 2242-2247.	1.5	5
219	Enhancement of ferroelectricity in nanocones. <i>Physica Status Solidi (B): Basic Research</i> , 2009, 246, 2396-2402.	1.5	0
220	Polymer composite strain sensor based on dielectrophoretically aligned tellurium nanorods. <i>Procedia Chemistry</i> , 2009, 1, 1151-1154.	0.7	9
221	Dielectrophoretic alignment of polymer compounds for thermal sensing. <i>Sensors and Actuators A: Physical</i> , 2009, 156, 164-170.	4.1	8
222	A 150 mm Wafer Technology for Highly (111) Oriented $\text{Pb}(\text{Zr,Ti})\text{O}_3$ Films on BaPbO_3/Pt Electrode. <i>Ferroelectrics</i> , 2009, 390, 145-152.	0.6	0
223	Recrystallization of the copper bottom electrode during complex oxide deposition onto kapton films. , 2009, , .		3
224	TITANIA SEED LAYERS FOR PZT THIN FILM GROWTH ON COPPER-COATED KAPTON FILMS. <i>Integrated Ferroelectrics</i> , 2009, 108, 57-66.	0.7	3
225	A new chip layout for pyroelectric single-element detectors with high D^* and very low microphonics. , 2009, , .		3
226	The Influence of Doping on the Pyroelectric Response of SBN Single Crystals. <i>Ferroelectrics</i> , 2009, 378, 186-194.	0.6	4
227	Atmospheric Barrier ^â Torch Discharge Deposited ZnO Films: Optical Properties, Doping and Grain Size Effects. <i>Journal of Nanoscience and Nanotechnology</i> , 2009, 9, 4094-4097.	0.9	4
228	Design, Simulation and Experimental Characteristics of Hydrogel-based Piezoresistive pH Sensors. <i>Springer Proceedings in Physics</i> , 2009, , 287-294.	0.2	1
229	Study of the pyroelectric behavior of $\text{BaTi}_{1-x}\text{Sn}_x\text{O}_3$ piezo-ceramics. <i>Journal of Electroceramics</i> , 2008, 20, 43-46.	2.0	19
230	Large area deposition of $\text{Pb}(\text{Zr,Ti})\text{O}_3$ thin films for piezoelectric MEMS devices. <i>Journal of Electroceramics</i> , 2008, 20, 17-20.	2.0	4
231	Hydrogel-based sensor for a rheochemical characterization of solutions. <i>Sensors and Actuators B: Chemical</i> , 2008, 132, 471-476.	7.8	28
232	Errata for "Electron emission from ferroelectric thin films enhanced by the presence of 90 Å° ferroelectric domains". <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2008, 55, 1669-1669.	3.0	0
233	Size Effects in Ferroelectric Nanocones. <i>Ferroelectrics</i> , 2008, 368, 163-169.	0.6	3
234	Fabrication of gold nanorods absorption layers for infrared sensors. , 2008, , .		0

#	ARTICLE	IF	CITATIONS
235	Hydrogel-Based Piezoresistive pH Sensors: Investigations Using FT-IR Attenuated Total Reflection Spectroscopic Imaging. Analytical Chemistry, 2008, 80, 2957-2962.	6.5	61
236	Ruddlesden-Popper Phase Formation in Pb(Zr,Ti)O ₃ Thin Films. Ferroelectrics, 2008, 370, 104-112.	0.6	2
237	3-D Modeling of Pyroelectric Sensor Arrays Part II: Modulation Transfer Function. IEEE Sensors Journal, 2008, 8, 2088-2094.	4.7	9
238	Biocompatible DC-microelectrode array. , 2008, , .		1
239	New pyroelectric detectors for pyrometry and security technique. , 2008, , .		1
240	Polarization Profiling of Ferroelectrics by Thermal Square Wave Methods. Ferroelectrics, 2008, 367, 38-44.	0.6	5
241	NIR-Messsystem zur Erkennung von Verunreinigungen in Rohbaumwolle (NIR-Measurement System to) Tj ETQq1 1 0,784314 ₂ rgBT /Over	0,7	
242	Method for curvature measurements with ultrasound. , 2008, , .		1
243	3-D Modeling of Pyroelectric Sensor Arrays Part I: Multiphysics Finite-Element Simulation. IEEE Sensors Journal, 2008, 8, 2080-2087.	4.7	6
244	Coupled chemo-electro-mechanical simulation of polyelectrolyte gels as actuators and sensors. , 2008, , .		5
245	System Design and Analysis Concept of a Highly Adaptable NDIR Sensor for Gas Analysis. , 2007, , .		3
246	Modeling of nonlinear effects in pH sensors based on polyelectrolytic hydrogels. , 2007, , .		4
247	Modeling of a Pyroelectric Thin Film IR Imager. Ferroelectrics, 2007, 353, 225-232.	0.6	3
248	Hydrogel-Based Sensor for a Rheochemical Characterization of Solutions. , 2007, , .		0
249	MWIR-Wärmebildkamera mit Mikrobolometer (Microbolometer-based MWIR Infrared Camera). TM Technisches Messen, 2007, 74, 450-455.	0.7	0
250	Nondestructive testing of ferroelectrics by thermal wave methods. , 2007, , .		3
251	Pyroelectric linear arrays and their application. Proceedings of SPIE, 2007, , .	0.8	1
252	Self-Supporting Polymer Films for MEMS Applications. Macromolecular Symposia, 2007, 254, 409-413.	0.7	0

#	ARTICLE	IF	CITATIONS
253	Application of Polyelectrolytic Temperature-Responsive Hydrogels in Chemical Sensors. <i>Macromolecular Symposia</i> , 2007, 254, 314-321.	0.7	30
254	Electron emission from ferroelectric thin films enhanced by the presence of 90° ferroelectric domains. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2007, 54, 2555-2561.	3.0	6
255	Surface Analysis of Reactive Sputtered Pb(Zr,Ti)O ₃ Thin Films by XPS. <i>Ferroelectrics</i> , 2007, 353, 132-137.	0.6	3
256	Electron emission from ferroelectric thin films enhanced by the presence of ferroelectric domains. <i>Applications of Ferroelectrics</i> , IEEE International Symposium on, 2007, , .	0.0	2
257	Review of micromachined thermopiles for infrared detection. <i>Measurement Science and Technology</i> , 2007, 18, R59-R75.	2.6	179
258	Multi-target reactive sputtering – A promising technology for large-area Pb(Zr,Ti)O ₃ thin film deposition. <i>Journal of the European Ceramic Society</i> , 2007, 27, 3789-3792.	5.7	8
259	Characterization of ferroelectrics by thermal wave methods. <i>Journal of the European Ceramic Society</i> , 2007, 27, 4007-4010.	5.7	3
260	Chemical sensors based on multiresponsive block copolymer hydrogels. <i>Sensors and Actuators B: Chemical</i> , 2007, 126, 97-106.	7.8	74
261	Plasma emission controlled multi-target reactive sputtering for in-situ crystallized Pb(Zr,Ti)O ₃ thin films on Si-wafers. <i>Thin Solid Films</i> , 2007, 515, 3547-3553.	1.8	19
262	Hydrogel-based Piezoresistive pH Sensors: Modeling, Simulation and Experimental Verification. , 2006, , .		0
263	Ferroelectric Thin Films: Deposition, Advanced Film Characterization and Novel Device Concepts. <i>Ferroelectrics</i> , 2006, 335, 137-148.	0.6	5
264	Performance improvements for pyroelectric infrared detectors. , 2006, 6206, 974.		6
265	Chemical sensors based on temperature-responsive hydrogels. , 2006, , .		8
266	Hydrogel-based piezoresistive pH sensors: Design, simulation and output characteristics. <i>Sensors and Actuators B: Chemical</i> , 2006, 117, 17-26.	7.8	72
267	Professor Ludwig Walther wird 80 Jahre. <i>TM Technisches Messen</i> , 2006, 73, 75-77.	0.7	0
268	Pyroelektrische Zeilensensoren und ihre Anwendungen (Pyroelectric Linear Arrays and their) <i>Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 142 T</i>	0.7	1
269	Low Pressure RF Plasma Jet Sputtering Technique Applied to Ferroelectric Films: Ba _{1-x} Sr _x Ti ₃ . <i>Materials Science Forum</i> , 2006, 514-516, 165-169.	0.3	1
270	Relaxor-Like Behavior of Self-Polarized Pb(Zr,Ti)O ₃ Thin Films. <i>Materials Science Forum</i> , 2006, 514-516, 175-178.	0.3	0

#	ARTICLE	IF	CITATIONS
271	Piezoresponse in Ferroelectric PZT Thin Films. Materials Research Society Symposia Proceedings, 2006, 966, 1.	0.1	3
272	Beschleunigungsempfindlichkeit pyroelektrischer Sensoren (Acceleration Sensitivity of Pyroelectric) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	0.7	0
273	Superconducting In-Vacuum Undulators. IEEE Transactions on Applied Superconductivity, 2006, 16, 1836-1839.	1.7	4
274	MULTI-TARGET REACTIVE SPUTTER DEPOSITION OF LEAD-ENRICHED Pb(Zr,Ti)O ₃ THIN FILMS. Integrated Ferroelectrics, 2006, 80, 189-195.	0.7	6
275	Microbolometer-based infrared camera for the 3-5 $\hat{1}$ / ₄ m spectral range. , 2005, 5964, 244.		3
276	Piezoresistive Chemosensoren auf der Basis von Hydrogelen (Piezoresistive Chemical Sensors Based) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	0.7	4
277	pH sensors based on polyelectrolytic hydrogels. , 2005, 5759, 540.		5
278	Influence of polycrystalline silicon as electrical shield on reliability and stability of piezoresistive sensors. Sensors and Actuators A: Physical, 2005, 120, 567-572.	4.1	14
279	Chemical and pH sensors based on the swelling behavior of hydrogels. Sensors and Actuators B: Chemical, 2005, 111-112, 555-561.	7.8	209
280	The LIMM problem for ferroelectric thin films comprising space charge layers. Journal of the European Ceramic Society, 2005, 25, 2363-2368.	5.7	7
281	Investigation of the RF pulse modulated plasma jet system during the deposition of Pb(ZrxTi1â~x)O ₃ thin films on polymer substrates. Surface and Coatings Technology, 2005, 200, 940-946.	4.8	22
282	Polarization profiling of metal-ferroelectric-semiconductor structures by LIMM. Journal of the European Ceramic Society, 2005, 25, 2369-2372.	5.7	2
283	UV-INDUCED CHANGES OF THE POLARIZATION PROFILE OF Pb(Zr,Ti)O ₃ THIN FILMS. Integrated Ferroelectrics, 2005, 73, 75-82.	0.7	0
284	Professor Dr. Elmar Wagner zum 60. Geburtstag. TM Technisches Messen, 2005, 72, 427-429.	0.7	0
285	50 Jahre Entdeckung des piezoresistiven Effekts â€“ Geschichte und Entwicklungsstand piezoresistiver Sensoren (50 Years of Piezoresistive Sensors â€“ History and State of the Art of Piezoresistive Sensors). TM Technisches Messen, 2005, 72, 53-76.	0.7	15
286	Storage and Erasure of Optical Information in Pt-PZT-SnO ₂ Thin Film Structures. Ferroelectrics, 2005, 318, 35-40.	0.6	4
287	Deposition of PZT Thin Films on Polymer Substrate by Means of Low Pressure Plasma Jet System. Ferroelectrics, 2005, 316, 157-166.	0.6	0
288	Lead Excess in Pb(Zr,Ti)O ₃ Thin Films Deposited by Reactive Sputtering at Low Temperatures. Ferroelectrics, 2005, 318, 3-10.	0.6	13

#	ARTICLE	IF	CITATIONS
289	High Temperature Effects in Li-Doped ZnO Thin Films. Integrated Ferroelectrics, 2004, 63, 209-213.	0.7	6
290	Local Dielectric and Polarization Properties of Inner and Outer Interfaces in PZT Thin Films. Integrated Ferroelectrics, 2004, 62, 13-21.	0.7	2
291	Stability of Space Charge Compensated Ferroelectrics. Integrated Ferroelectrics, 2004, 62, 55-60.	0.7	3
292	Swelling of a thin B+ implanted polyimide layer—a dynamic spectroscopic ellipsometry study. Thin Solid Films, 2004, 455-456, 292-294.	1.8	2
293	Physical properties and structure of thin ion-beam modified polymer films. Nuclear Instruments & Methods in Physics Research B, 2004, 216, 143-148.	1.4	20
294	Low-temperature PECVD of silicon dioxide on polymeric hydrogels. Applied Physics A: Materials Science and Processing, 2004, 78, 695-698.	2.3	4
295	Water sorption properties of carbonized layers produced by controlled B + bombardment of thin polyimide and polysulfone films. Analytical and Bioanalytical Chemistry, 2004, 378, 396-401.	3.7	3
296	Application of sensitive hydrogels in chemical and pH sensors. Macromolecular Symposia, 2004, 210, 403-410.	0.7	63
297	Physical properties and structure of thin conducting ion-beam modified polymer films. Macromolecular Symposia, 2004, 212, 245-250.	0.7	3
298	Ellipsometry of High Temperature Phase Transitions in PZT and (ZnLi)O Films. Ferroelectrics, 2004, 298, 55-60.	0.6	2
299	Pyroelectric single-element detectors for special applications. , 2004, , .		2
300	Phase Transition Shift in Lead-Excess PZT Films Under UV Illumination. Integrated Ferroelectrics, 2004, 67, 173-180.	0.7	3
301	Self-Polarized PZT Thin Films: Deposition, Characterization and Application. Ferroelectrics, 2004, 298, 309-316.	0.6	15
302	Bewährte und neue Schwerpunkte auf der Ludwigsburger Sensortagung 2004. TM Technisches Messen, 2004, 71, 287-289.	0.7	0
303	Uncertainty in measurement of semiconductor piezoresistive sensors. Microsystem Technologies, 2003, 9, 210-214.	2.0	3
304	Direct measurement of the ion current density distribution of broad beam ion sources. Surface and Coatings Technology, 2003, 174-175, 922-927.	4.8	2
305	Plasma surface modification of hydrogel thin films. Surface and Coatings Technology, 2003, 174-175, 816-820.	4.8	1
306	Measurement uncertainty of piezoresistive beam-type humidity sensors. , 2003, , .		0

#	ARTICLE	IF	CITATIONS
307	Modelling of acceleration sensitivity of single-element pyroelectric infrared detectors. , 2003, , .		1
308	Image Capture Devices Based on Charge Storage at Semiconductor-Ferroelectric Interfaces. Integrated Ferroelectrics, 2003, 54, 619-629.	0.7	2
309	Modulation Transfer Function of a Pyroelectric Sensor Array Based on a Finite Element Model. Ferroelectrics, 2003, 293, 267-281.	0.6	3
310	High-Temperature Phases in PZT Ferroelectric Films. Ferroelectrics, 2003, 293, 111-118.	0.6	1
311	Fixed mounted infrared 2D and line cameras for industrial noncontact temperature measurement. , 2003, , .		0
312	Determination of polarization profiles inside ferroelectric thin films using the laser intensity modulation method. , 2003, 5045, 157.		1
313	Nanobiotechnologie im Aufbruch. TM Technisches Messen, 2003, 70, 551-552.	0.7	0
314	Dreiaxiger Beschleunigungssensor in Oberflächenmikromechanik (Surface Micromachined Triaxial) Tj ETQq0 0 0 rgbT /Overlock 10 Tf	0.7	0
315	Scanning Thermal Microscopy Using Pyroelectric Sensors. Ferroelectrics, 2002, 271, 373-378.	0.6	0
316	High Frequency LMM - A Powerful Tool for Ferroelectric Thin Film Characterization. Integrated Ferroelectrics, 2002, 46, 243-257.	0.7	29
317	Phase Transitions in PbZr _{1-x} Ti _x O ₃ Ceramics Prepared by Different Techniques. Japanese Journal of Applied Physics, 2002, 41, 6966-6968.	1.5	9
318	Thermal Analysis of Pyroelectric Sensors in Scanning Thermal Microscopy. Japanese Journal of Applied Physics, 2002, 41, 7239-7241.	1.5	7
319	<title>Temperature-dependent spectral ellipsometry: a powerful technique for thin film investigations</title>. , 2002, , .		0
320	Pyroelectric Thin Film Presence Detector Arrays with Micromachined Pixels. Integrated Ferroelectrics, 2002, 44, 77-90.	0.7	8
321	Optical Properties of Self-Polarized PZT Ferroelectric Films. Ferroelectrics, 2002, 273, 155-160.	0.6	7
322	Scanning force microscopy investigation of the Pb(Zr _{0.25} Ti _{0.75})O ₃ /Pt interface. Applied Physics Letters, 2002, 81, 3215-3217.	3.3	46
323	Hardness depth profiling of ion-implanted polymer thin films. Materials Research Society Symposia Proceedings, 2002, 725, 1.	0.1	0
324	Phase transitions of self-polarized PZT thin films. Materials Research Society Symposia Proceedings, 2002, 718, 1.	0.1	6

#	ARTICLE	IF	CITATIONS
325	Highly sensitive NO _x gas sensor based on a Au/n-Si Schottky diode. <i>Sensors and Actuators B: Chemical</i> , 2002, 84, 226-230.	7.8	16
326	Ion-beam induced chemical and structural modification in polymers. <i>Surface and Coatings Technology</i> , 2002, 158-159, 108-113.	4.8	54
327	Characterization of RF-sputtered self-polarized PZT thin films for IR sensor arrays. <i>Vacuum</i> , 2002, 66, 473-478.	3.5	20
328	Investigation of dynamic disturbance quantities in piezoresistive silicon sensors. <i>Microelectronics Reliability</i> , 2002, 42, 1819-1822.	1.7	3
329	Nondestructive investigations of the depth profile of PZT ferroelectric films. <i>Ferroelectrics</i> , 2001, 264, 151-156.	0.6	6
330	Optical refraction index and polarization profile of ferroelectric thin films. <i>Integrated Ferroelectrics</i> , 2001, 38, 101-110.	0.7	12
331	Characterization of chemical and sensoric properties of ion-beam modified polyethersulfone layers. <i>Materials Research Society Symposia Proceedings</i> , 2001, 672, 1.	0.1	4
332	<title>Calculating the modulation transfer function of a pyroelectric infrared sensor array</title>., , 2001, , .		0
333	Microporous layer for selective detection of VOCs in gases and liquids. , 2001, 4205, 84.		1
334	Ellipsometry investigation of perovskite/pyrochlore PZT thin film stacks. <i>Ferroelectrics</i> , 2001, 258, 271-276.	0.6	6
335	High-resolution pyroelectric linear arrays based on LiTaO ₃ . , 2001, , .		7
336	Characterization of ion-beam modified polyimide layers. <i>Surface and Coatings Technology</i> , 2001, 139, 257-264.	4.8	52
337	Influence of ion-beam induced chemical and structural modification in polymers on moisture uptake. <i>Surface and Coatings Technology</i> , 2001, 142-144, 482-488.	4.8	27
338	Jump phenomena of current in PZT-vibrators due to nonlinear damping of surrounding media. <i>Journal of the European Ceramic Society</i> , 2001, 21, 1395-1398.	5.7	8
339	Ellipsometric Investigations of the Refractive Index Depth Profile in PZT Thin Films. <i>Physica Status Solidi A</i> , 2001, 188, 1549-1552.	1.7	13
340	Low-temperature PECVD-deposited silicon nitride thin films for sensor applications. <i>Surface and Coatings Technology</i> , 2001, 142-144, 808-812.	4.8	29
341	<title>Finite element modeling of the thermo-electro-mechanical coupling in pyroelectric infrared sensor arrays</title>., , 2001, , .		3
342	Ellipsometry and LMM investigations of the interaction between PZT thin films and platinum electrodes and air. <i>Ferroelectrics</i> , 2001, 254, 205-211.	0.6	5

#	ARTICLE	IF	CITATIONS
343	Die Zukunft der Magnetsensoren (The Future of Magnetic Sensors). TM Technisches Messen, 2001, 68, 259.	0.7	0
344	Polarization profile of RF-sputtered self-polarized PZT thin films. Integrated Ferroelectrics, 2001, 32, 169-177.	0.7	7
345	Hot filament infrared radiators and pyroelectric single-element detectors for analytical application. , 2000, , .		1
346	A novel approach to modeling the transfer functions of four-terminal-transducer pressure sensors within a single simulation tool. Sensors and Actuators A: Physical, 2000, 80, 15-22.	4.1	10
347	Alternative dynamic electromechanical models of magnetic actuators containing eddy currents. IEEE Transactions on Magnetics, 2000, 36, 1333-1336.	2.1	41
348	Bimorphe Gassensoren (Bimorphic Gas Sensors). TM Technisches Messen, 2000, 67, 228.	0.7	1
349	An FEM-based method for analysis of the dynamic behavior of AC contactors. IEEE Transactions on Magnetics, 2000, 36, 1337-1340.	2.1	42
350	Investigation of the spatial polarization distribution of sputtered PZT thin films using limm. Integrated Ferroelectrics, 1999, 27, 127-136.	0.7	21
351	Preparation and stress evaluation of ferroelectric thin films of PZT based pyroelectric sensors. Ferroelectrics, 1999, 228, 79-89.	0.6	4
352	Swelling behavior of thin anisotropic polymer layers. Thin Solid Films, 1999, 350, 178-185.	1.8	28
353	Fabrication of a 3D differential-capacitive acceleration sensor by UV-LIGA. Sensors and Actuators A: Physical, 1999, 77, 14-20.	4.1	30
354	Influence of Surface and Interface on PZT Film Optical Properties. Physica Status Solidi A, 1999, 175, 443-446.	1.7	19
355	Properties of sputter and Sol-Gel deposited PZT thin films for sensor and actuator applications: Preparation, stress and space charge distribution, self poling. Ferroelectrics, 1999, 230, 109-114.	0.6	8
356	RF-sputtered PZT thin films for infrared sensor arrays. Ferroelectrics, 1999, 225, 57-66.	0.6	26
357	<title>Novel approach for the 3D modeling of electrical conduction phenomena in highly anisotropic materials</title>. , 1999, , .		0
358	<title>Process technologies for high-resolution infrared detectors based on LiTaO3</title>. , 1999, , .		15
359	Reduction of mechanical stress in micromachined components caused by humidity-induced volume expansion of polymer layers. Microsystem Technologies, 1998, 5, 3-12.	2.0	18
360	Strategies of modelling and simulation of microsystems with electromechanical energy conversion. Microelectronics Journal, 1998, 29, 773-783.	2.0	2

#	ARTICLE	IF	CITATIONS
361	Mechanical stress in micromachined components caused by humidity-induced in-plane expansion of thin polymer films. <i>Thin Solid Films</i> , 1998, 312, 232-239.	1.8	18
362	Design studies on piezoresistive humidity sensors. <i>Sensors and Actuators B: Chemical</i> , 1998, 53, 1-7.	7.8	44
363	Pyroelectric IR-detector arrays based on sputtered PZT and spin-coated P(VDF/TrFE) thin films. <i>Integrated Ferroelectrics</i> , 1998, 22, 383-392.	0.7	23
364	A Study on the Microphysical Mechanisms of Adsorption in Polyimide Layers for Microelectronic Applications. <i>Journal of the Electrochemical Society</i> , 1998, 145, 4012-4018.	2.9	31
365	The metrological behaviour of bimorphic piezoresistive humidity sensors. <i>Measurement Science and Technology</i> , 1998, 9, 354-359.	2.6	24
366	Uncooled multispectral detectors. , 1998, , .		3
367	<title>Piezoresistive effect: stable enough for high-accuracy sensor applications?</title>. , 1998, , .		0
368	<title>Transient measurement of surface deflection for beams and membranes in micromechanical devices</title>. , 1998, 3411, 618.		3
369	Simulation of fluid-structure interaction in micropumps by coupling of two commercial finite element programs. , 1998, 3515, 194.		1
370	Ion beam etching of lithium tantalate and its application for pyroelectric linear arrays. <i>Surface and Coatings Technology</i> , 1997, 97, 469-474.	4.8	4
371	<title>Pyroelectric infrared arrays and their applications</title>. , 1997, , .		3
372	Humidity-dependent mechanical properties of polyimide films and their use for IC-compatible humidity sensors. <i>Sensors and Actuators A: Physical</i> , 1996, 53, 330-334.	4.1	53
373	Simulation of a complex sensor system using coupled simulation programs. <i>Sensors and Actuators A: Physical</i> , 1996, 54, 632-635.	4.1	7
374	A resonant polyimide-based humidity sensor. <i>Sensors and Actuators B: Chemical</i> , 1996, 34, 301-304.	7.8	21
375	Humidity-Induced Volume-Expansion of Polyimide Films. <i>Journal of Intelligent Material Systems and Structures</i> , 1996, 7, 264-266.	2.5	1
376	Influences of humidity and moisture on the long-term stability of piezoresistive pressure sensors. <i>Measurement: Journal of the International Measurement Confederation</i> , 1995, 16, 21-29.	5.0	14
377	Ambient humidity and moisture " a decisive failure source in piezoresistive sensors. <i>Sensors and Actuators A: Physical</i> , 1995, 46, 171-175.	4.1	10
378	Entwurf mechanischer Sensoren unter Nutzung von netzwerkfÄhigen Biegestabund Plattenmodellen. <i>TM Technisches Messen</i> , 1995, 62, 407-415.	0.7	1

#	ARTICLE	IF	CITATIONS
379	A piezoresistive humidity sensor. <i>Sensors and Actuators A: Physical</i> , 1994, 43, 181-184.	4.1	52
380	A humidity sensor of a new type. <i>Sensors and Actuators B: Chemical</i> , 1994, 18, 85-88.	7.8	20
381	Simulation of a humidity-sensitive double-layer system. <i>Sensors and Actuators B: Chemical</i> , 1994, 18, 303-307.	7.8	6
382	Eigenschaften kapazitiver Dünnschicht / Feuchtesensoren Properties of capacitive thin-film humidity sensors. <i>TM Technisches Messen</i> , 1993, 60, 134-140.	0.7	3
383	Micromechanical triaxial acceleration sensor for automotive applications. , 0, , .		4
384	Smart Hydrogel-Based Biochemical Microsensor Array for Medical Diagnostics. <i>Advances in Science and Technology</i> , 0, , .	0.2	33
385	Fractal Analysis of Surface Topography of Solid Oxide Fuel Cell Materials. <i>Solid State Phenomena</i> , 0, 200, 293-298.	0.3	2
386	Evaluation of the Polarization State of Integrated Piezoelectric Sensors and Actuators Using the Thermal Wave Method. <i>Key Engineering Materials</i> , 0, 543, 503-506.	0.4	1
387	Electrocaloric Cooling. , 0, , .		7
388	Magnetic functionalization of poly(<i>N</i> -isopropylacrylamide) hydrogels for sensor applications. <i>Physica Status Solidi (B): Basic Research</i> , 0, , .	1.5	1