

Eckhard Quandt

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.

293
papers

7,828
citations

46
h-index

76
g-index

304
ext. papers

8,767
ext. citations

4.2
avg. IF

5.96
L-index

#	Paper	IF	Citations
293	Exploding and weeping ceramics. <i>Nature</i> , 2021 , 599, 416-420	50.4	1
292	Coherent Precipitates as a Condition for Ultra-Low Fatigue in Cu-Rich Ti53.7Ni24.7Cu21.6 Shape Memory Alloys. <i>Shape Memory and Superelasticity</i> , 2021 , 7, 526	2.8	1
291	Exchange biased delta-E effect enables the detection of low frequency pT magnetic fields with simultaneous localization. <i>Scientific Reports</i> , 2021 , 11, 5269	4.9	8
290	Origami-inspired thin-film shape memory alloy devices. <i>Scientific Reports</i> , 2021 , 11, 10988	4.9	5
289	Tailoring growth modes by excess alkali addition in magnetron sputtered potassium sodium niobate thin films. <i>Materials Today Communications</i> , 2021 , 27, 102221	2.5	2
288	Direct observation of intermediate twinning in the phase transformations of ferroelectric potassium sodium niobate. <i>Ceramics International</i> , 2021 , 47, 20579-20585	5.1	
287	Thin-Film Patient-Specific Flow Diverter Stents for the Treatment of Intracranial Aneurysms. <i>Advanced Materials Technologies</i> , 2021 , 6, 2100384	6.8	
286	Size-dependence of zirconia-based ceramics via deformation twinning. <i>Extreme Mechanics Letters</i> , 2021 , 42, 101124	3.9	1
285	Fabrication of stable monoclinic zirconia-based ceramics. <i>Ceramics International</i> , 2021 , 47, 8692-8696	5.1	1
284	. <i>IEEE Transactions on Magnetics</i> , 2021 , 57, 1-5	2	4
283	Nanostabilization of tetragonal distorted FeCo variants in ultra-thin FeCo/TiN multilayer films. <i>Materials Characterization</i> , 2021 , 172, 110871	3.9	2
282	Hybrid molecular beam epitaxy growth of BaTiO3 films. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2021 , 39, 040404	2.9	4
281	A realistic way to investigate the design, and mechanical properties of flow diverter stents. <i>Expert Review of Medical Devices</i> , 2021 , 18, 569-579	3.5	2
280	Phase Noise of SAW Delay Line Magnetic Field Sensors. <i>Sensors</i> , 2021 , 21,	3.8	2
279	Sacrificial protection of Mg-based resorbable implant alloy by magnetron sputtered Mg5Gd alloy coating: A short-term study. <i>Corrosion Science</i> , 2021 , 189, 109590	6.8	2
278	. <i>IEEE Transactions on Magnetics</i> , 2021 , 57, 1-57	2	8
277	Torsional Characterization of Braided Flow Diverter Stents : A New Method to Evaluate Twisting Phenomenon. <i>Clinical Neuroradiology</i> , 2021 , 31, 1181-1186	2.7	1

276	Thin-Film-Based SAW Magnetic Field Sensors.. <i>Sensors</i> , 2021 , 21,	3.8	2
275	Frequency tunable resonant magnetolectric sensors for the detection of weak magnetic field. <i>Journal of Micromechanics and Microengineering</i> , 2020 , 30, 075009	2	7
274	Integration of AlN piezoelectric thin films on ultralow fatigue TiNiCu shape memory alloys. <i>Journal of Materials Research</i> , 2020 , 35, 1298-1306	2.5	3
273	Cu-rich Ti52.8Ni22.2Cu22.5Co2.5 shape memory alloy films with ultra-low fatigue for elastocaloric applications. <i>Journal of Applied Physics</i> , 2020 , 127, 225105	2.5	12
272	Multi-Mode Love-Wave SAW Magnetic-Field Sensors. <i>Sensors</i> , 2020 , 20,	3.8	7
271	Direct Link between Specific Magnetic Domain Activities and Magnetic Noise in Modulated Magnetolectric Sensors. <i>Physical Review Applied</i> , 2020 , 13,	4.3	7
270	Magnetic anisotropy controlled FeCoSiB thin films for surface acoustic wave magnetic field sensors. <i>Applied Physics Letters</i> , 2020 , 116, 073503	3.4	18
269	Development and co-integration of a SMA/Si bimorph nanoactuator for Si photonic circuits. <i>Microelectronic Engineering</i> , 2020 , 225, 111257	2.5	3
268	Correlation between phase compatibility and efficient energy conversion in Zr-doped Barium Titanate. <i>Scientific Reports</i> , 2020 , 10, 3496	4.9	9
267	Microfabricated bioelectrodes on self-expandable NiTi thin film devices for implants and diagnostic instruments. <i>Biosensors and Bioelectronics</i> , 2020 , 153, 112034	11.8	5
266	High-Cycle Mechanical Fatigue Performance of Sputtered Nitinol. <i>Journal of Materials Engineering and Performance</i> , 2020 , 29, 1892-1900	1.6	1
265	Magnetostriction measurements with a low-cost magnetostrictive cantilever beam. <i>American Journal of Physics</i> , 2020 , 88, 448-455	0.7	0
264	Sensitivity and noise analysis of SAW magnetic field sensors with varied magnetostrictive layer thicknesses. <i>Sensors and Actuators A: Physical</i> , 2020 , 311, 111998	3.9	10
263	AlScN-based MEMS magnetolectric sensor. <i>Applied Physics Letters</i> , 2020 , 117, 132903	3.4	20
262	Fundamental Noise Limits and Sensitivity of Piezoelectrically Driven Magnetoelastic Cantilevers. <i>Journal of Microelectromechanical Systems</i> , 2020 , 29, 1347-1361	2.5	8
261	Cascaded SMA-Film Based Elastocaloric Cooling 2019 ,		9
260	Mechanical Properties of Magnetron Sputtered Free Standing Mg-Ag Alloy Films. <i>Frontiers in Materials</i> , 2019 , 6,	4	3
259	Design Characterization of Thin Film Flow Diverter Stents (FDS) Based on SMA: FEA, CFD and MRI Study. <i>Shape Memory and Superelasticity</i> , 2019 , 5, 195-205	2.8	3

258	(Ba _{0.85} Ca _{0.15})(Ti _{0.9} Zr _{0.1})O ₃ thin films prepared by PLD: Relaxor properties and complex microstructure. <i>Journal of Applied Physics</i> , 2019 , 125, 244103	2.5	3
257	Shape memory alloy engine for high efficiency low-temperature gradient thermal to electrical conversion. <i>Applied Energy</i> , 2019 , 251, 113277	10.7	12
256	Magnetron sputtered freestanding MgAg films with ultra-low corrosion rate. <i>Acta Biomaterialia</i> , 2019 , 98, 81-87	10.8	6
255	A stress sensor based on a silicon field effect transistor comprising a piezoelectric AlN gate dielectric. <i>Journal of Materials Science: Materials in Electronics</i> , 2019 , 30, 11493-11498	2.1	1
254	Influence of the quality factor on the signal to noise ratio of magnetoelectric sensors based on the delta-E effect. <i>Applied Physics Letters</i> , 2019 , 114, 183504	3.4	19
253	Noise Analysis and Comparison of Phase- and Frequency-Detecting Readout Systems: Application to SAW Delay Line Magnetic Field Sensor. <i>IEEE Sensors Journal</i> , 2019 , 19, 8000-8008	4	13
252	Antiparallel exchange biased multilayers for low magnetic noise magnetic field sensors. <i>Applied Physics Letters</i> , 2019 , 114, 192410	3.4	16
251	The impact of O/Ar ratio on morphology and functional properties in reactive sputtering of metal oxide thin films. <i>Nanotechnology</i> , 2019 , 30, 235603	3.4	14
250	Magnetic particle mapping using magnetoelectric sensors as an imaging modality. <i>Scientific Reports</i> , 2019 , 9, 2086	4.9	15
249	Power-Source-Free Analysis of Pyroelectric Energy Conversion. <i>Physical Review Applied</i> , 2019 , 12,	4.3	6
248	Mechanical-Resonance-Enhanced Thin-Film Magnetoelectric Heterostructures for Magnetometers, Mechanical Antennas, Tunable RF Inductors, and Filters. <i>Materials</i> , 2019 , 12,	3.5	29
247	Contactless monitoring of temperature change in cutting inserts by application of hard coatings and ferromagnetic film sensor phases. <i>Sensors and Actuators A: Physical</i> , 2019 , 296, 278-285	3.9	3
246	Fabrication and Characterization of Freestanding NiTi Based Thin Film Materials for Shape Memory Micro-actuator Applications. <i>Shape Memory and Superelasticity</i> , 2019 , 5, 327-335	2.8	7
245	Converse Magnetoelectric Composite Resonator for Sensing Small Magnetic Fields. <i>Scientific Reports</i> , 2019 , 9, 16355	4.9	17
244	MEMS-Based AlScN Resonating Energy Harvester With Solidified Powder Magnet. <i>Journal of Microelectromechanical Systems</i> , 2019 , 28, 1019-1031	2.5	6
243	Tuning crystallographic compatibility to enhance shape memory in ceramics. <i>Physical Review Materials</i> , 2019 , 3,	3.2	10
242	Suppression of abnormal grain growth in KNaNbO ₃ : phase transitions and compatibility. <i>Scientific Reports</i> , 2019 , 9, 19775	4.9	7
241	Magnetic Sensitivity of Bending-Mode Delta-E-Effect Sensors. <i>Physical Review Applied</i> , 2019 , 12,	4.3	10

240	Energy transduction ferroic materials. <i>Materials Today</i> , 2018 , 21, 771-784	21.8	23
239	High-performance elastocaloric materials for the engineering of bulk- and micro-cooling devices. <i>MRS Bulletin</i> , 2018 , 43, 280-284	3.2	28
238	Wide Band Low Noise Love Wave Magnetic Field Sensor System. <i>Scientific Reports</i> , 2018 , 8, 278	4.9	60
237	Elastocaloric Cooling on the Miniature Scale: A Review on Materials and Device Engineering. <i>Energy Technology</i> , 2018 , 6, 1588-1604	3.5	37
236	Numerical simulation and experimental investigation of the elastocaloric cooling effect in sputter-deposited TiNiCuCo thin films. <i>Continuum Mechanics and Thermodynamics</i> , 2018 , 30, 53-68	3.5	10
235	Evaluation of magnetoelectric sensor systems for cardiological applications. <i>Measurement: Journal of the International Measurement Confederation</i> , 2018 , 116, 230-238	4.6	40
234	Electrically modulated magnetoelectric AlN/FeCoSiB film composites for DC magnetic field sensing. <i>Journal Physics D: Applied Physics</i> , 2018 , 51, 354002	3	20
233	Magnetron-Sputtered, Biodegradable FeMn Foils: The Influence of Manganese Content on Microstructure, Mechanical, Corrosion, and Magnetic Properties. <i>Materials</i> , 2018 , 11,	3.5	5
232	Bistability in a multiferroic composite resonator. <i>Applied Physics Letters</i> , 2018 , 113, 022903	3.4	10
231	Oscillator Phase Noise Suppression in Surface Acoustic Wave Sensor Systems. <i>IEEE Sensors Journal</i> , 2018 , 18, 4975-4980	4	4
230	Inverse magnetostrictive stress sensors based on crossed pinned CoFeB/MgO/CoFeB tunnel junctions. <i>Journal of Applied Physics</i> , 2018 , 124, 064501	2.5	3
229	Comparison of Efficacy, Embolism Rate and Safety of Thrombectomy with Stent Retrievers in an Anterior Circulation Stroke Model. <i>RoFo Fortschritte Auf Dem Gebiet Der Rontgenstrahlen Und Der Bildgebenden Verfahren</i> , 2018 , 190, 1053-1058	2.3	5
228	Phase engineering and supercompatibility of shape memory alloys. <i>Materials Today</i> , 2018 , 21, 265-277	21.8	76
227	Cobalt Gradient Evolution in Sputtered TiNiCuCo Films for Elastocaloric Cooling. <i>Physica Status Solidi (B): Basic Research</i> , 2018 , 255, 1700299	1.3	8
226	Magnetoelectric magnetic field sensors. <i>MRS Bulletin</i> , 2018 , 43, 834-840	3.2	41
225	Frequency-tunable nickel-titanium substrates for magnetoelectric sensors. <i>AIP Advances</i> , 2018 , 8, 125320.5	2.5	4
224	Generalized Magnetic Frequency Conversion for Thin-Film Laminate Magnetoelectric Sensors. <i>IEEE Sensors Journal</i> , 2017 , 17, 1373-1383	4	13
223	Thermal-Mechanical Noise in Resonant Thin-Film Magnetoelectric Sensors. <i>IEEE Sensors Journal</i> , 2017 , 17, 2338-2348	4	19

222	Improved Magnetic Frequency Conversion Approach for Magnetolectric Sensors 2017 , 1, 1-4		4
221	Modeling and Analysis of Noise Sources for Thin-Film Magnetolectric Sensors Based on the Delta-E Effect. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2017 , 66, 2771-2779	5.2	18
220	Functional NiTi grids for in situ straining in the TEM. <i>Ultramicroscopy</i> , 2017 , 182, 10-16	3.1	
219	Pushing the detection limit of thin film magnetolectric heterostructures. <i>Journal of Materials Research</i> , 2017 , 32, 1009-1019	2.5	35
218	Fast corroding, thin magnesium coating displays antibacterial effects and low cytotoxicity. <i>Biofouling</i> , 2017 , 33, 294-305	3.3	13
217	Thin magnesium layer confirmed as an antibacterial and biocompatible implant coating in a co-culture model. <i>Molecular Medicine Reports</i> , 2017 , 15, 1624-1630	2.9	18
216	Magnetically driven energy-harvester with monolithically integrated high-energy-density magnets 2017 ,		6
215	Mesoscale simulation of elastocaloric cooling in SMA films. <i>Acta Materialia</i> , 2017 , 136, 105-117	8.4	26
214	Tunable Strain in Magnetolectric ZnO Microrod Composite Interfaces. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 25571-25577	9.5	12
213	Noise of a JFET Charge Amplifier for Piezoelectric Sensors. <i>IEEE Sensors Journal</i> , 2017 , 17, 7364-7371	4	16
212	Magnetron Sputtering as a Fabrication Method for a Biodegradable Fe ₃₂ Mn Alloy. <i>Materials</i> , 2017 , 10,	3.5	7
211	Self-Biased Magnetolectric Composites: An Overview and Future Perspectives. <i>Energy Harvesting and Systems</i> , 2016 , 3, 1-42	4.4	48
210	Effect of crystallographic compatibility and grain size on the functional fatigue of sputtered TiNiCuCo thin films. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2016 , 374,	3	20
209	Fabrication of self-expandable NiTi thin film devices with micro-electrode array for bioelectric sensing, stimulation and ablation. <i>Biomedical Microdevices</i> , 2016 , 18, 106	3.7	8
208	Tuning fork for noise suppression in magnetolectric sensors. <i>Sensors and Actuators A: Physical</i> , 2016 , 237, 91-95	3.9	29
207	Adaptive Readout Schemes for Thin-Film Magnetolectric Sensors Based on the delta-E Effect. <i>IEEE Sensors Journal</i> , 2016 , 16, 4891-4900	4	20
206	Ultra-Low Fatigue Quaternary TiNi-Based Films for Elastocaloric Cooling. <i>Shape Memory and Superelasticity</i> , 2016 , 2, 95-103	2.8	46
205	Microstructured Nickel-Titanium Thin Film Leaflets for Hybrid Tissue Engineered Heart Valves Fabricated by Magnetron Sputter Deposition. <i>Cardiovascular Engineering and Technology</i> , 2016 , 7, 69-77	2.2	8

204	Cell adhesion on NiTi thin film sputter-deposited meshes. <i>Materials Science and Engineering C</i> , 2016 , 59, 611-616	8.3	10
203	Tunnel Magnetoresistance Sensors with Magnetostrictive Electrodes: Strain Sensors. <i>Sensors</i> , 2016 , 16,	3.8	22
202	Thin Films: Giant Magnetostrictive 2016 ,		
201	Mechanical Properties and In Vitro Degradation of Sputtered Biodegradable Fe-Au Foils. <i>Materials</i> , 2016 , 9,	3.5	4
200	Piezotronic-based magnetoelectric sensor: Fabrication and response. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2016 , 213, 2208-2215	1.6	17
199	Nitinol: Tubing versus sputtered film - microcleanliness and corrosion behavior. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2016 , 104, 1176-81	3.5	11
198	Combining Sensor and Protective Functionalities in Ferromagnetic Nanocomposite Thin Films for Applications in Harsh Environments . <i>Advanced Engineering Materials</i> , 2016 , 18, 739-745	3.5	4
197	TiNi-based films for elastocaloric microcooling—Fatigue life and device performance. <i>APL Materials</i> , 2016 , 4, 064102	5.7	42
196	Inverse bilayer magnetoelectric thin film sensor. <i>Applied Physics Letters</i> , 2016 , 109, 022901	3.4	47
195	Advanced magneto-optical microscopy: Imaging from picoseconds to centimeters - imaging spin waves and temperature distributions (invited). <i>AIP Advances</i> , 2016 , 6, 055605	1.5	29
194	Method for Fabricating Miniaturized NiTi Self-Expandable Thin Film Devices with Increased Radiopacity. <i>Shape Memory and Superelasticity</i> , 2016 , 2, 391-398	2.8	9
193	Time-resolved scanning electron microscopy with polarization analysis. <i>Applied Physics Letters</i> , 2016 , 108, 142401	3.4	18
192	Electrically modulated magnetoelectric sensors. <i>Applied Physics Letters</i> , 2016 , 108, 182902	3.4	43
191	Low temperature aluminum nitride thin films for sensory applications. <i>AIP Advances</i> , 2016 , 6, 075115	1.5	58
190	Martensite adaption through epitaxial nano transition layers in TiNiCu shape memory alloys. <i>Journal of Applied Crystallography</i> , 2016 , 49, 1009-1015	3.8	7
189	Multimode delta-E effect magnetic field sensors with adapted electrodes. <i>Applied Physics Letters</i> , 2016 , 108, 222401	3.4	37
188	Micropatterned freestanding magnetron sputtered Mg-alloy scaffolds. <i>BioNanoMaterials</i> , 2015 , 16,		4
187	Local Evolution of the Elastocaloric Effect in TiNi-Based Films. <i>Shape Memory and Superelasticity</i> , 2015 , 1, 142-152	2.8	74

186	Exchange biased magnetoelectric composites for magnetic field sensor application by frequency conversion. <i>Journal of Applied Physics</i> , 2015 , 117, 17B513	2.5	45
185	Adaptive Acoustic Noise Cancellation for Magnetoelectric Sensors. <i>IEEE Sensors Journal</i> , 2015 , 15, 5804-5812	4	6
184	Microstructures of magnetron sputtered FeAu thin films. <i>International Journal of Materials Research</i> , 2015 , 106, 103-107	0.5	5
183	Comparison of Frequency Conversion Techniques for Magnetoelectric Sensors. <i>Procedia Engineering</i> , 2015 , 120, 940-943		6
182	Track A. Biomaterials and Biocompatibility 1. <i>Biomedizinische Technik</i> , 2015 , 60 Suppl 1, S1-30	1.3	1
181	Phase modulated magnetoelectric delta-E effect sensor for sub-nano tesla magnetic fields. <i>Applied Physics Letters</i> , 2015 , 107, 152402	3.4	57
180	Capability of Sputtered Micro-patterned NiTi Thick Films. <i>Shape Memory and Superelasticity</i> , 2015 , 1, 286-293	2.8	13
179	A scanning probe microscope for magnetoresistive cantilevers utilizing a nested scanner design for large-area scans. <i>Beilstein Journal of Nanotechnology</i> , 2015 , 6, 451-61	3	5
178	Magnetron Sputtering a New Fabrication Method of Iron Based Biodegradable Implant Materials. <i>Advances in Materials Science and Engineering</i> , 2015 , 2015, 1-9	1.5	14
177	Shape memory alloys. Ultralow-fatigue shape memory alloy films. <i>Science</i> , 2015 , 348, 1004-7	33.3	274
176	Highly strain-sensitive magnetostrictive tunnel magnetoresistance junctions. <i>Journal of Magnetism and Magnetic Materials</i> , 2015 , 384, 308-313	2.8	16
175	Protective high temperature coatings with intrinsic depletion sensor. <i>Surface and Coatings Technology</i> , 2014 , 245, 117-124	4.4	1
174	Evolution of temperature profiles in TiNi films for elastocaloric cooling. <i>Acta Materialia</i> , 2014 , 81, 9-20	8.4	150
173	Comparison of the Fatigue Performance of Commercially Produced Nitinol Samples versus Sputter-Deposited Nitinol. <i>Journal of Materials Engineering and Performance</i> , 2014 , 23, 2437-2445	1.6	23
172	Corrosion performance and mechanical properties of sputter-deposited MgY and MgGd alloys. <i>Corrosion Science</i> , 2014 , 78, 43-54	6.8	48
171	Origin of hysteretic magnetoelastic behavior in magnetoelectric 2-2 composites. <i>Applied Physics Letters</i> , 2014 , 105, 202406	3.4	23
170	Fabrication and Evaluation of Nitinol Thin Film Heart Valves. <i>Cardiovascular Engineering and Technology</i> , 2014 , 5, 308-316	2.2	7
169	Amorphous FeCoSiB for exchange bias coupled and decoupled magnetoelectric multilayer systems: Real-structure and magnetic properties. <i>Journal of Applied Physics</i> , 2014 , 116, 134302	2.5	13

168	Magnetic domain control and voltage response of exchange biased magnetoelectric composites. <i>Applied Physics Letters</i> , 2014 , 104, 132405	3.4	21
167	Magnetoelectric thin film composites with interdigital electrodes. <i>Applied Physics Letters</i> , 2013 , 103, 032902	3.4	42
166	Local magnetization and strain in single magnetoelectric microrod composites. <i>Applied Physics Letters</i> , 2013 , 103, 123111	3.4	7
165	Dual wavelength magneto-optical imaging of magnetic thin films. <i>Applied Physics Letters</i> , 2013 , 103, 142410	3.4	25
164	Thermal Stability of the Ferromagnetic In-Plane Uniaxial Anisotropy of Fe-Co-Hf-N/Ti-N Multilayer Films for High-Frequency Sensor Applications. <i>IEEE Transactions on Magnetics</i> , 2013 , 49, 3870-3873	2	1
163	Highly sensitive wafer-level packaged MEMS magnetic field sensor based on magnetoelectric composites. <i>Sensors and Actuators A: Physical</i> , 2013 , 189, 321-327	3.9	71
162	Direct measurements of field-induced strain at magnetoelectric interfaces by grazing incidence x-ray diffraction. <i>Applied Physics Letters</i> , 2013 , 102, 011601	3.4	11
161	Revisiting magnetic stripe domains: Anisotropy gradient and stripe asymmetry. <i>Journal of Applied Physics</i> , 2013 , 113, 073903	2.5	18
160	Self-sensing atomic force microscopy cantilevers based on tunnel magnetoresistance sensors. <i>Applied Physics Letters</i> , 2013 , 102, 153104	3.4	16
159	Giant magnetoelectric effect in vacuum. <i>Applied Physics Letters</i> , 2013 , 102, 232905	3.4	75
158	Time-of-flight magnetic flow cytometry in whole blood with integrated sample preparation. <i>Lab on A Chip</i> , 2013 , 13, 1035-8	7.2	48
157	Direct measurements of field-induced strain in magnetoelectric composites by X-ray diffraction studies of forbidden reflections. <i>Journal of Applied Physics</i> , 2013 , 113, 124303	2.5	3
156	Exchange biased magnetoelectric composites for vector field magnetometers. <i>Journal of Applied Physics</i> , 2013 , 113, 17C725	2.5	19
155	Giant Magnetoelectric Effect in Thin-Film Composites. <i>Journal of the American Ceramic Society</i> , 2013 , 96, 1673-1681	3.8	74
154	Evolution of Temperature Profiles during Stress-Induced Transformation in NiTi Thin Films. <i>Materials Science Forum</i> , 2013 , 738-739, 287-291	0.4	9
153	Micropatterned Freestanding Superelastic TiNi Films. <i>Advanced Engineering Materials</i> , 2013 , 15, 66-69	3.5	51
152	Elastocaloric cooling using shape memory alloy films. <i>Journal of Physics: Conference Series</i> , 2013 , 476, 012138	0.3	16
151	Mechanical properties and corrosion behaviour of freestanding, precipitate-free magnesium WE43 thin films. <i>International Journal of Materials Research</i> , 2013 , 104, 286-292	0.5	7

150	Non-contact temperature determination of embedded magnetic phases of hard coatings by exploitation of the magnetic hysteresis. <i>Sensors and Actuators A: Physical</i> , 2012 , 178, 104-109	3.9	4
149	M(H) shape reconstruction using magnetic spectroscopy. <i>Journal of Magnetism and Magnetic Materials</i> , 2012 , 324, 895-902	2.8	2
148	Caloric Effects in Ferroic Materials: New Concepts for Cooling. <i>Advanced Engineering Materials</i> , 2012 , 14, 10-19	3.5	242
147	High cyclic stability of the elastocaloric effect in sputtered TiNiCu shape memory films. <i>Applied Physics Letters</i> , 2012 , 101, 091903	3.4	170
146	MEMS magnetic field sensor based on magnetoelectric composites. <i>Journal of Micromechanics and Microengineering</i> , 2012 , 22, 065024	2	106
145	Polycrystalline and amorphous MgZnCa thin films. <i>Corrosion Science</i> , 2012 , 63, 234-238	6.8	20
144	Sensitivity enhancement of magnetoelectric sensors through frequency-conversion. <i>Sensors and Actuators A: Physical</i> , 2012 , 183, 16-21	3.9	103
143	Monitoring magnetostriction by a quantum tunnelling strain sensor. <i>Sensors and Actuators A: Physical</i> , 2012 , 183, 28-33	3.9	3
142	The biocompatibility and mechanical properties of cylindrical NiTi thin films produced by magnetron sputtering. <i>Materials Science and Engineering C</i> , 2012 , 32, 2523-2528	8.3	23
141	Exchange biasing of magnetoelectric composites. <i>Nature Materials</i> , 2012 , 11, 523-9	27	207
140	Structural Characterization of Sputtered Fe ₇₀ Pd ₃₀ Thin Films During Ex Situ and In Situ TEM Heating. <i>Advanced Engineering Materials</i> , 2012 , 14, 716-723	3.5	3
139	High aspect ratio free standing ZnO-magnetostrictive mesoscale cylindrical magnetoelectric core shell composite. <i>Materials Research Society Symposia Proceedings</i> , 2012 , 1398, 9		
138	Reconstruction of Magnetization Curve Using Magnetic Spectroscopy. <i>Springer Proceedings in Physics</i> , 2012 , 275-279	0.2	
137	First observation of light-induced spin change in vacuum deposited thin films of iron spin crossover complexes. <i>Dalton Transactions</i> , 2011 , 40, 6364-6	4.3	102
136	Fully integrable magnetic field sensor based on delta-E effect. <i>Applied Physics Letters</i> , 2011 , 99, 223502	3.4	64
135	Piezoelectric properties of 0.5(Ba _{0.7} Ca _{0.3} TiO ₃) [D.5[Ba(Zr _{0.2} Ti _{0.8})O ₃] ferroelectric lead-free laser deposited thin films. <i>Journal of Applied Physics</i> , 2011 , 109, 104101	2.5	82
134	Noise Performance of Magnetometers With Resonant Thin-Film Magnetoelectric Sensors. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2011 , 60, 2995-3001	5.2	67
133	Morphological and magnetic properties of TiO ₂ /Fe ₅₀ Co ₅₀ composite films. <i>Journal of Materials Science</i> , 2011 , 46, 4638-4645	4.3	6

132	Processing and Damping Properties of Sputtered NiTi Thin Films for Tools in Machining Processes. <i>Journal of Materials Engineering and Performance</i> , 2011 , 20, 500-505	1.6	7
131	Depletion sensor for protective high temperature coatings. <i>Materials and Corrosion - Werkstoffe Und Korrosion</i> , 2011 , 62, 706-712	1.6	2
130	Mechanical Behaviour and Corrosion Performance of Thin Film Magnesium WE Alloys. <i>Materials Science Forum</i> , 2011 , 690, 286-289	0.4	4
129	Using Thin Film Stress for Nanoscaled Sensors. <i>Materials Science Forum</i> , 2010 , 638-642, 2028-2033	0.4	
128	Low damping resonant magnetoelectric sensors. <i>Applied Physics Letters</i> , 2010 , 97, 152503	3.4	76
127	Comparison of the corrosion behaviour of bulk and thin film magnesium alloys. <i>Corrosion Science</i> , 2010 , 52, 3973-3977	6.8	27
126	Giant magnetoelectric coefficients in (Fe ₉₀ Co ₁₀) ₇₈ Si ₁₂ B ₁₀ -AlN thin film composites. <i>Applied Physics Letters</i> , 2010 , 96, 182501	3.4	195
125	Artificial single variant martensite in freestanding Fe(70)Pd(30) films obtained by coherent epitaxial growth. <i>Advanced Materials</i> , 2010 , 22, 2668-71	24	16
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9	High-frequency magnetoelastic multilayer thin films and applications		2
8	Magnetically tunable SAW-resonator		21
7	High frequency magnetic properties of FeCoBSi/SiO ₂ / and (FeCo/CoB)/SiO ₂ / multilayer thin films		1

6	Smart motion control by phase-coupled shape memory composites		1
5	Optimization of the ΔE -effect in thin films and multilayers by magnetic field annealing		1
4	Magneto-Mechanical Instability In Fe ₂ B/ Fe ₂ Co Multilayers		1
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