

# Eckhard Quandt

## List of Publications by Citations

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293  
papers

7,828  
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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	New materials for micro-scale sensors and actuators. <i>Materials Science and Engineering Reports</i> , <b>2007</b> , 56, 1-129	30.9	384
292	Determination of elastic modulus of thin layers using nanoindentation. <i>Journal of Materials Research</i> , <b>1997</b> , 12, 2475-2484	2.5	303
291	Shape memory alloys. Ultralow-fatigue shape memory alloy films. <i>Science</i> , <b>2015</b> , 348, 1004-7	33.3	274
290	Caloric Effects in Ferroic Materials: New Concepts for Cooling. <i>Advanced Engineering Materials</i> , <b>2012</b> , 14, 10-19	3.5	242
289	Exchange biasing of magnetoelectric composites. <i>Nature Materials</i> , <b>2012</b> , 11, 523-9	27	207
288	Giant magnetoelectric coefficients in (Fe <sub>90</sub> Co <sub>10</sub> ) <sub>78</sub> Si <sub>12</sub> B <sub>10</sub> -AlN thin film composites. <i>Applied Physics Letters</i> , <b>2010</b> , 96, 182501	3.4	195
287	High cyclic stability of the elastocaloric effect in sputtered TiNiCu shape memory films. <i>Applied Physics Letters</i> , <b>2012</b> , 101, 091903	3.4	170
286	Evolution of temperature profiles in TiNi films for elastocaloric cooling. <i>Acta Materialia</i> , <b>2014</b> , 81, 9-20	8.4	150
285	A Love-wave biosensor using nucleic acids as ligands. <i>Sensors and Actuators B: Chemical</i> , <b>2004</b> , 101, 308-315	3.5	144
284	Preparation and applications of magnetostrictive thin films. <i>Journal of Applied Physics</i> , <b>1994</b> , 76, 7000-7003	2.3	113
283	Sputter deposition of TiNi, TiNiPd and TiPd films displaying the two-way shape-memory effect. <i>Sensors and Actuators A: Physical</i> , <b>1996</b> , 53, 434-439	3.9	109
282	MEMS magnetic field sensor based on magnetoelectric composites. <i>Journal of Micromechanics and Microengineering</i> , <b>2012</b> , 22, 065024	2	106
281	Sensitivity enhancement of magnetoelectric sensors through frequency-conversion. <i>Sensors and Actuators A: Physical</i> , <b>2012</b> , 183, 16-21	3.9	103
280	First observation of light-induced spin change in vacuum deposited thin films of iron spin crossover complexes. <i>Dalton Transactions</i> , <b>2011</b> , 40, 6364-6	4.3	102
279	Thin film shape memory microvalves with adjustable operation temperature. <i>Sensors and Actuators A: Physical</i> , <b>2000</b> , 83, 214-219	3.9	102
278	Monitoring complex formation in the blood-coagulation cascade using aptamer-coated SAW sensors. <i>Biosensors and Bioelectronics</i> , <b>2005</b> , 20, 2044-52	11.8	100
277	Recent developments in shape memory thin film technology. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2004</b> , 378, 40-46	5.3	86

276	Piezoelectric properties of 0.5(Ba <sub>0.7</sub> Ca <sub>0.3</sub> TiO <sub>3</sub> ) D.5[Ba(Zr <sub>0.2</sub> Ti <sub>0.8</sub> )O <sub>3</sub> ] ferroelectric lead-free laser deposited thin films. <i>Journal of Applied Physics</i> , <b>2011</b> , 109, 104101	2.5	82
275	Giant magnetostrictive thin films for applications in microelectromechanical systems (invited). <i>Journal of Applied Physics</i> , <b>2000</b> , 87, 4691-4695	2.5	77
274	Low damping resonant magnetoelectric sensors. <i>Applied Physics Letters</i> , <b>2010</b> , 97, 152503	3.4	76
273	Phase engineering and supercompatibility of shape memory alloys. <i>Materials Today</i> , <b>2018</b> , 21, 265-277	21.8	76
272	Giant magnetoelectric effect in vacuum. <i>Applied Physics Letters</i> , <b>2013</b> , 102, 232905	3.4	75
271	Local Evolution of the Elastocaloric Effect in TiNi-Based Films. <i>Shape Memory and Superelasticity</i> , <b>2015</b> , 1, 142-152	2.8	74
270	Giant Magnetoelectric Effect in Thin-Film Composites. <i>Journal of the American Ceramic Society</i> , <b>2013</b> , 96, 1673-1681	3.8	74
269	Giant magnetostrictive multilayers (invited). <i>Journal of Applied Physics</i> , <b>1999</b> , 85, 6232-6237	2.5	73
268	Highly sensitive wafer-level packaged MEMS magnetic field sensor based on magnetoelectric composites. <i>Sensors and Actuators A: Physical</i> , <b>2013</b> , 189, 321-327	3.9	71
267	Shape memory microvalves based on thin films or rolled sheets. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>1999</b> , 273-275, 784-788	5.3	71
266	Magnetostrictive actuation in microsystems. <i>Sensors and Actuators A: Physical</i> , <b>2000</b> , 81, 275-280	3.9	69
265	Noise Performance of Magnetometers With Resonant Thin-Film Magnetoelectric Sensors. <i>IEEE Transactions on Instrumentation and Measurement</i> , <b>2011</b> , 60, 2995-3001	5.2	67
264	Giant magnetostrictive spring magnet type multilayers. <i>Journal of Applied Physics</i> , <b>1997</b> , 81, 5420-5422	2.5	67
263	Nanostructured magnetic Fe <sub>3</sub> NiCo/Teflon multilayers for high-frequency applications in the gigahertz range. <i>Applied Physics Letters</i> , <b>2006</b> , 89, 242501	3.4	67
262	Fully integrable magnetic field sensor based on delta-E effect. <i>Applied Physics Letters</i> , <b>2011</b> , 99, 223502	3.4	64
261	Optimization of the $\Delta E$ effect in thin films and multilayers by magnetic field annealing. <i>IEEE Transactions on Magnetics</i> , <b>2002</b> , 38, 2829-2831	2	61
260	Wide Band Low Noise Love Wave Magnetic Field Sensor System. <i>Scientific Reports</i> , <b>2018</b> , 8, 278	4.9	60
259	Discrimination of single mutations in cancer-related gene fragments with a surface acoustic wave sensor. <i>Analytical Chemistry</i> , <b>2006</b> , 78, 4865-71	7.8	59

258	Highly sensitive strain sensors based on magnetic tunneling junctions. <i>Applied Physics Letters</i> , <b>2002</b> , 81, 313-315	3.4	58
257	Low temperature aluminum nitride thin films for sensory applications. <i>AIP Advances</i> , <b>2016</b> , 6, 075115	1.5	58
256	Phase modulated magnetoelectric delta-E effect sensor for sub-nano tesla magnetic fields. <i>Applied Physics Letters</i> , <b>2015</b> , 107, 152402	3.4	57
255	Multitarget sputtering of high magnetostrictive Tb-Dy-Fe films. <i>Journal of Applied Physics</i> , <b>1994</b> , 75, 5653-5655	3.5	54
254	Deposition of Nanocomposites by Plasmas. <i>Contributions To Plasma Physics</i> , <b>2007</b> , 47, 537-544	1.4	52
253	Micropatterned Freestanding Superelastic TiNi Films. <i>Advanced Engineering Materials</i> , <b>2013</b> , 15, 66-69	3.5	51
252	Self-Biased Magnetoelectric Composites: An Overview and Future Perspectives. <i>Energy Harvesting and Systems</i> , <b>2016</b> , 3, 1-42	4.4	48
251	Corrosion performance and mechanical properties of sputter-deposited MgY and MgGd alloys. <i>Corrosion Science</i> , <b>2014</b> , 78, 43-54	6.8	48
250	Time-of-flight magnetic flow cytometry in whole blood with integrated sample preparation. <i>Lab on A Chip</i> , <b>2013</b> , 13, 1035-8	7.2	48
249	Inverse bilayer magnetoelectric thin film sensor. <i>Applied Physics Letters</i> , <b>2016</b> , 109, 022901	3.4	47
248	Ultra-Low Fatigue Quaternary TiNi-Based Films for Elastocaloric Cooling. <i>Shape Memory and Superelasticity</i> , <b>2016</b> , 2, 95-103	2.8	46
247	Functional Polymer Nanocomposites. <i>Polymers and Polymer Composites</i> , <b>2008</b> , 16, 471-481	0.8	46
246	Exchange biased magnetoelectric composites for magnetic field sensor application by frequency conversion. <i>Journal of Applied Physics</i> , <b>2015</b> , 117, 17B513	2.5	45
245	Magnetic anisotropy and domain patterning of amorphous films by He-ion irradiation. <i>Applied Physics Letters</i> , <b>2005</b> , 86, 162502	3.4	45
244	Fabrication and simulation of magnetostrictive thin-film actuators. <i>Sensors and Actuators A: Physical</i> , <b>1995</b> , 50, 105-109	3.9	45
243	Giant magnetostrictive thin film materials and applications. <i>Journal of Alloys and Compounds</i> , <b>1997</b> , 258, 126-132	5.7	43
242	Electrically modulated magnetoelectric sensors. <i>Applied Physics Letters</i> , <b>2016</b> , 108, 182902	3.4	43
241	Magnetoelectric thin film composites with interdigital electrodes. <i>Applied Physics Letters</i> , <b>2013</b> , 103, 032902	3.4	42

240	TiNi-based films for elastocaloric microcooling—Fatigue life and device performance. <i>APL Materials</i> , <b>2016</b> , 4, 064102	5.7	42
239	Magnetoelectric magnetic field sensors. <i>MRS Bulletin</i> , <b>2018</b> , 43, 834-840	3.2	41
238	Evaluation of magnetoelectric sensor systems for cardiological applications. <i>Measurement: Journal of the International Measurement Confederation</i> , <b>2018</b> , 116, 230-238	4.6	40
237	SAW Sensor System for Marker-Free Molecular Interaction Analysis. <i>Analytical Letters</i> , <b>2006</b> , 39, 1747-1757	5.7	40
236	Successive occurrence of ferromagnetic and shape memory properties during crystallization of NiMnGa freestanding films. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2006</b> , 302, 421-428	2.8	39
235	The ferromagnetic shape memory system FePdCu. <i>Acta Materialia</i> , <b>2010</b> , 58, 5949-5961	8.4	38
234	Elastocaloric Cooling on the Miniature Scale: A Review on Materials and Device Engineering. <i>Energy Technology</i> , <b>2018</b> , 6, 1588-1604	3.5	37
233	Integration of two degree-of-freedom magnetostrictive actuation and piezoresistive detection: application to a two-dimensional optical scanner. <i>Journal of Microelectromechanical Systems</i> , <b>2002</b> , 11, 355-361	2.5	37
232	Multimode delta-E effect magnetic field sensors with adapted electrodes. <i>Applied Physics Letters</i> , <b>2016</b> , 108, 222401	3.4	37
231	Pushing the detection limit of thin film magnetoelectric heterostructures. <i>Journal of Materials Research</i> , <b>2017</b> , 32, 1009-1019	2.5	35
230	Pressure sensor based on magnetic tunnel junctions. <i>Journal of Applied Physics</i> , <b>2009</b> , 105, 07C914	2.5	34
229	Determination of elastic modulus of thin films and small specimens using beam bending methods. <i>Journal of Materials Research</i> , <b>1999</b> , 14, 2152-2161	2.5	33
228	Magnetic properties and microstructure of giant magnetostrictive TbFe/FeCo multilayers. <i>Journal of Applied Physics</i> , <b>1998</b> , 83, 7267-7269	2.5	32
227	Biofunctional structural design of SAW sensor chip surfaces in a microfluidic sensor system. <i>Sensors and Actuators B: Chemical</i> , <b>2007</b> , 124, 46-52	8.5	31
226	High-frequency magnetoelastic materials for remote-interrogated stress sensors. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2002</b> , 242-245, 1126-1131	2.8	31
225	Elastic modulus of TbDyFe films—comparison of nanoindentation and bending measurements. <i>Thin Solid Films</i> , <b>1996</b> , 287, 208-213	2.2	30
224	Tuning fork for noise suppression in magnetoelectric sensors. <i>Sensors and Actuators A: Physical</i> , <b>2016</b> , 237, 91-95	3.9	29
223	Mechanical-Resonance-Enhanced Thin-Film Magnetoelectric Heterostructures for Magnetometers, Mechanical Antennas, Tunable RF Inductors, and Filters. <i>Materials</i> , <b>2019</b> , 12,	3.5	29

222	Advanced magneto-optical microscopy: Imaging from picoseconds to centimeters - imaging spin waves and temperature distributions (invited). <i>AIP Advances</i> , <b>2016</b> , 6, 055605	1.5	29
221	High-performance elastocaloric materials for the engineering of bulk- and micro-cooling devices. <i>MRS Bulletin</i> , <b>2018</b> , 43, 280-284	3.2	28
220	Magnetoelastic and magnetostatic interactions in exchange-spring multilayers. <i>Physical Review B</i> , <b>2005</b> , 72,	3.3	28
219	Comparison of the corrosion behaviour of bulk and thin film magnesium alloys. <i>Corrosion Science</i> , <b>2010</b> , 52, 3973-3977	6.8	27
218	NiTiAg shape memory thin films. <i>Scripta Materialia</i> , <b>2007</b> , 56, 1075-1077	5.6	27
217	First experimental test of a new monochromated and aberration-corrected 200 kV field-emission scanning transmission electron microscope. <i>Ultramicroscopy</i> , <b>2006</b> , 106, 963-9	3.1	27
216	Micro-sensor coupling magnetostriction and magnetoresistive phenomena. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2002</b> , 242-245, 1132-1135	2.8	27
215	Giant magnetostrictive thin film materials and applications. <i>Journal of Alloys and Compounds</i> , <b>1997</b> , 258, 126-132	5.7	27
214	Mesoscale simulation of elastocaloric cooling in SMA films. <i>Acta Materialia</i> , <b>2017</b> , 136, 105-117	8.4	26
213	Dual wavelength magneto-optical imaging of magnetic thin films. <i>Applied Physics Letters</i> , <b>2013</b> , 103, 1424-1426	3.10	25
212	. <i>IEEE Transactions on Magnetics</i> , <b>1997</b> , 33, 2163-2166	2	24
211	Integration of crossed anisotropy magnetic core into toroidal thin-film inductors. <i>IEEE Transactions on Microwave Theory and Techniques</i> , <b>2005</b> , 53, 2096-2100	4.1	24
210	Magnetism, elasticity, and magnetostriction of FeCoGa alloys. <i>Journal of Applied Physics</i> , <b>2003</b> , 93, 8627-8629	8.29	24
209	Strain sensors based on magnetostrictive GMR/TMR structures. <i>IEEE Transactions on Magnetics</i> , <b>2002</b> , 38, 2826-2828	2	24
208	Energy transduction ferroic materials. <i>Materials Today</i> , <b>2018</b> , 21, 771-784	21.8	23
207	Comparison of the Fatigue Performance of Commercially Produced Nitinol Samples versus Sputter-Deposited Nitinol. <i>Journal of Materials Engineering and Performance</i> , <b>2014</b> , 23, 2437-2445	1.6	23
206	Origin of hysteretic magnetoelastic behavior in magnetoelectric 2-2 composites. <i>Applied Physics Letters</i> , <b>2014</b> , 105, 202406	3.4	23
205	The biocompatibility and mechanical properties of cylindrical NiTi thin films produced by magnetron sputtering. <i>Materials Science and Engineering C</i> , <b>2012</b> , 32, 2523-2528	8.3	23

204	Local setting of magnetic anisotropy in amorphous films by Co ion implantation. <i>Journal Physics D: Applied Physics</i> , <b>2009</b> , 42, 055006	3	23
203	Combination of a SAW-biosensor with MALDI mass spectrometric analysis. <i>Biosensors and Bioelectronics</i> , <b>2008</b> , 23, 1496-502	11.8	23
202	Giant magnetostrictive TbFe/Fe multilayers. <i>Journal of Alloys and Compounds</i> , <b>1997</b> , 258, 133-137	5.7	22
201	Positive/negative magnetostrictive GMR trilayer systems as strain gauges. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2005</b> , 290-291, 795-799	2.8	22
200	Fabrication of two-dimensional hybrid photonic crystals utilizing electron beam lithography. <i>Microelectronic Engineering</i> , <b>2005</b> , 78-79, 442-447	2.5	22
199	Tunnel Magnetoresistance Sensors with Magnetostrictive Electrodes: Strain Sensors. <i>Sensors</i> , <b>2016</b> , 16,	3.8	22
198	Magnetic domain control and voltage response of exchange biased magnetoelectric composites. <i>Applied Physics Letters</i> , <b>2014</b> , 104, 132405	3.4	21
197	Magnetoelectric effect in sputtered composites. <i>Journal of Applied Physics</i> , <b>2005</b> , 97, 10Q301	2.5	21
196	Stress-induced remagnetization in magnetostrictive films. <i>Journal of Applied Physics</i> , <b>2004</b> , 95, 6861-6863	3.5	21
195	Magnetically tunable SAW-resonator		21
194	Magnetic vector field sensor using magnetoelectric thin-film composites. <i>IEEE Transactions on Magnetics</i> , <b>2005</b> , 41, 3667-3669	2	21
193	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> , <b>2016</b> , 374,	3	20
192	Adaptive Readout Schemes for Thin-Film Magnetoelectric Sensors Based on the delta-E Effect. <i>IEEE Sensors Journal</i> , <b>2016</b> , 16, 4891-4900	4	20
191	Electrically modulated magnetoelectric AlN/FeCoSiB film composites for DC magnetic field sensing. <i>Journal Physics D: Applied Physics</i> , <b>2018</b> , 51, 354002	3	20
190	Polycrystalline and amorphous MgZnCa thin films. <i>Corrosion Science</i> , <b>2012</b> , 63, 234-238	6.8	20
189	Kinetic binding analysis of aptamers targeting HIV-1 proteins by a combination of a microbalance array and mass spectrometry (MAMS). <i>Journal of Proteome Research</i> , <b>2009</b> , 8, 3568-77	5.6	20
188	Shape memory effect and magnetostriction of sputtered NiMnGa thin films <b>2003</b> ,		20
187	AlScN-based MEMS magnetoelectric sensor. <i>Applied Physics Letters</i> , <b>2020</b> , 117, 132903	3.4	20

186	Thermal-Mechanical Noise in Resonant Thin-Film Magnetolectric Sensors. <i>IEEE Sensors Journal</i> , <b>2017</b> , 17, 2338-2348	4	19
185	Influence of the quality factor on the signal to noise ratio of magnetolectric sensors based on the delta-E effect. <i>Applied Physics Letters</i> , <b>2019</b> , 114, 183504	3-4	19
184	Exchange biased magnetolectric composites for vector field magnetometers. <i>Journal of Applied Physics</i> , <b>2013</b> , 113, 17C725	2.5	19
183	Microscopic magnetic and high-frequency properties of a stress sensor using FeCoBSi magnetostrictive thin films. <i>IEEE Transactions on Magnetics</i> , <b>2005</b> , 41, 3691-3693	2	19
182	Materials development for thin film actuators. <i>Microsystem Technologies</i> , <b>1995</b> , 1, 178-184	1.7	19
181	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> , <b>2017</b> , 66, 2771-2779	5-2	18
180	Thin magnesium layer confirmed as an antibacterial and biocompatible implant coating in a co-culture model. <i>Molecular Medicine Reports</i> , <b>2017</b> , 15, 1624-1630	2.9	18
179	Magnetic anisotropy controlled FeCoSiB thin films for surface acoustic wave magnetic field sensors. <i>Applied Physics Letters</i> , <b>2020</b> , 116, 073503	3-4	18
178	Revisiting magnetic stripe domains [anisotropy gradient and stripe asymmetry. <i>Journal of Applied Physics</i> , <b>2013</b> , 113, 073903	2.5	18
177	Sputter deposition of NiTi to investigate the Ti loss rate as a function of composition from cast melted targets. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2004</b> , 378, 429-433	5-3	18
176	Time-resolved scanning electron microscopy with polarization analysis. <i>Applied Physics Letters</i> , <b>2016</b> , 108, 142401	3-4	18
175	Converse Magnetolectric Composite Resonator for Sensing Small Magnetic Fields. <i>Scientific Reports</i> , <b>2019</b> , 9, 16355	4-9	17
174	High ultimate tensile stress in nano-grained superelastic NiTi thin films. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2006</b> , 415, 304-308	5-3	17
173	Application of a multilayered magnetostrictive film to a micromachined 2-D optical scanner. <i>Journal of Microelectromechanical Systems</i> , <b>2004</b> , 13, 264-271	2.5	17
172	Piezotronic-based magnetolectric sensor: Fabrication and response. <i>Physica Status Solidi (A) Applications and Materials Science</i> , <b>2016</b> , 213, 2208-2215	1.6	17
171	Antiparallel exchange biased multilayers for low magnetic noise magnetic field sensors. <i>Applied Physics Letters</i> , <b>2019</b> , 114, 192410	3-4	16
170	Noise of a JFET Charge Amplifier for Piezoelectric Sensors. <i>IEEE Sensors Journal</i> , <b>2017</b> , 17, 7364-7371	4	16
169	Highly strain-sensitive magnetostrictive tunnel magnetoresistance junctions. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2015</b> , 384, 308-313	2.8	16



168	Self-sensing atomic force microscopy cantilevers based on tunnel magnetoresistance sensors. <i>Applied Physics Letters</i> , <b>2013</b> , 102, 153104	3.4	16
167	Elastocaloric cooling using shape memory alloy films. <i>Journal of Physics: Conference Series</i> , <b>2013</b> , 476, 012138	0.3	16
166	Local stress engineering of magnetic anisotropy in soft magnetic thin films. <i>Applied Physics Letters</i> , <b>2009</b> , 94, 062506	3.4	16
165	Fabrication of TiNi thin film stents. <i>Smart Materials and Structures</i> , <b>2009</b> , 18, 104010	3.4	16
164	Artificial single variant martensite in freestanding Fe(70)Pd(30) films obtained by coherent epitaxial growth. <i>Advanced Materials</i> , <b>2010</b> , 22, 2668-71	24	16
163	Specific targeting of ultrasound contrast agent (USCA) for diagnostic application: an in vitro feasibility study based on SAW biosensor. <i>Biosensors and Bioelectronics</i> , <b>2005</b> , 20, 1829-35	11.8	16
162	Magnetoelastic thin films for high-frequency applications. <i>IEEE Transactions on Magnetics</i> , <b>2001</b> , 37, 2690-2692	16	16
161	Magnetic particle mapping using magnetoelectric sensors as an imaging modality. <i>Scientific Reports</i> , <b>2019</b> , 9, 2086	4.9	15
160	Non-contact strain measurements based on inverse magnetostriction. <i>Sensors and Actuators A: Physical</i> , <b>2010</b> , 158, 224-230	3.9	15
159	Analysis of proteolytic degradation of a crude protein mixture using a surface acoustic wave sensor. <i>Biosensors and Bioelectronics</i> , <b>2007</b> , 22, 2360-5	11.8	15
158	Structuring of sputtered superelastic NiTi thin films by photolithography and etching. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2008</b> , 481-482, 623-625	5.3	15
157	High-frequency properties of FeCoSiB thin films with crossed anisotropy. <i>IEEE Transactions on Magnetics</i> , <b>2004</b> , 40, 2703-2705	2	15
156	The impact of O/Ar ratio on morphology and functional properties in reactive sputtering of metal oxide thin films. <i>Nanotechnology</i> , <b>2019</b> , 30, 235603	3.4	14
155	Magnetron Sputtering a New Fabrication Method of Iron Based Biodegradable Implant Materials. <i>Advances in Materials Science and Engineering</i> , <b>2015</b> , 2015, 1-9	1.5	14
154	Characterization of magnetic tunnel junctions (MTJ) with magnetostrictive free layer materials. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2004</b> , 272-276, 2023-2024	2.8	14
153	Generalized Magnetic Frequency Conversion for Thin-Film Laminate Magnetolectric Sensors. <i>IEEE Sensors Journal</i> , <b>2017</b> , 17, 1373-1383	4	13
152	Fast corroding, thin magnesium coating displays antibacterial effects and low cytotoxicity. <i>Biofouling</i> , <b>2017</b> , 33, 294-305	3.3	13
151	Noise Analysis and Comparison of Phase- and Frequency-Detecting Readout Systems: Application to SAW Delay Line Magnetic Field Sensor. <i>IEEE Sensors Journal</i> , <b>2019</b> , 19, 8000-8008	4	13

150	Capability of Sputtered Micro-patterned NiTi Thick Films. <i>Shape Memory and Superelasticity</i> , <b>2015</b> , 1, 286-293	2.8	13
149	Amorphous FeCoSiB for exchange bias coupled and decoupled magnetoelectric multilayer systems: Real-structure and magnetic properties. <i>Journal of Applied Physics</i> , <b>2014</b> , 116, 134302	2.5	13
148	Multifunctional FeCo/TiN Multilayer Thin Films with Combined Magnetic and Protective Properties. <i>Advanced Engineering Materials</i> , <b>2009</b> , 11, 969-975	3.5	13
147	. <i>IEEE Transactions on Magnetics</i> , <b>2007</b> , 43, 2624-2626	2	13
146	Shape memory alloy engine for high efficiency low-temperature gradient thermal to electrical conversion. <i>Applied Energy</i> , <b>2019</b> , 251, 113277	10.7	12
145	Cu-rich Ti <sub>52.8</sub> Ni <sub>22.2</sub> Cu <sub>22.5</sub> Co <sub>2.5</sub> shape memory alloy films with ultra-low fatigue for elastocaloric applications. <i>Journal of Applied Physics</i> , <b>2020</b> , 127, 225105	2.5	12
144	Tunable Strain in Magnetoelectric ZnO Microrod Composite Interfaces. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 25571-25577	9.5	12
143	Demonstration of magnetoelectric scanning probe microscopy. <i>Review of Scientific Instruments</i> , <b>2007</b> , 78, 106103	1.7	12
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