

Jrgen Kosel

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.

235 papers	3,475 citations	30 h-index	48 g-index
275 ext. papers	4,209 ext. citations	4 avg, IF	5.95 L-index

#	Paper	IF	Citations
235	Competition between Chiral Energy and Chiral Damping in the Asymmetric Expansion of Magnetic Bubbles. <i>ACS Applied Electronic Materials</i> , 2021 , 3, 4734-4742	4	
234	Low-Cost Inkjet-Printed Temperature Sensors on Paper Substrate for the Integration into Natural Fiber-Reinforced Lightweight Components. <i>Chemosensors</i> , 2021 , 9, 95	4	5
233	Cylindrical Magnetic Nanowires Applications. <i>IEEE Transactions on Magnetics</i> , 2021 , 57, 1-17	2	9
232	Integrated Magnetohydrodynamic Pump with Magnetic Composite Substrate and Laser-Induced Graphene Electrodes. <i>Polymers</i> , 2021 , 13,	4.5	1
231	A Microneedles Balloon Catheter for Endovascular Drug Delivery. <i>Advanced Materials Technologies</i> , 2021 , 6, 2100037	6.8	1
230	A Facile Magnetic System for Tracking of Medical Devices. <i>Advanced Materials Technologies</i> , 2021 , 6, 2100346	6.8	2
229	Magnetic Tracking: A Facile Magnetic System for Tracking of Medical Devices (Adv. Mater. Technol. 6/2021). <i>Advanced Materials Technologies</i> , 2021 , 6, 2170033	6.8	
228	Physical Sensors Based on Laser-Induced Graphene: A Review. <i>IEEE Sensors Journal</i> , 2021 , 21, 12426-12443	4.3	11
227	Robust, Long-Term, and Exceptionally Sensitive Microneedle-Based Bioimpedance Sensor for Precision Farming. <i>Advanced Science</i> , 2021 , 8, e2101261	13.6	2
226	Energy yield measurement of an elevated PV system on a white flat roof and a performance comparison of monofacial and bifacial modules. <i>Renewable Energy</i> , 2021 , 170, 613-619	8.1	8
225	Magnetic sensors-A review and recent technologies. <i>Engineering Research Express</i> , 2021 , 3, 022005	0.9	17
224	An Assistive Magnetic Skin System: Enabling Technology for Quadriplegics. <i>Advanced Engineering Materials</i> , 2021 , 23, 2000944	3.5	3
223	Flexible Hall sensor made of laser-scribed graphene. <i>Npj Flexible Electronics</i> , 2021 , 5,	10.7	4
222	A Wideband Magnetic Frequency Up-Converter Energy Harvester. <i>Advanced Engineering Materials</i> , 2021 , 23, 2001364	3.5	4
221	A Microneedles Balloon Catheter for Endovascular Drug Delivery (Adv. Mater. Technol. 8/2021). <i>Advanced Materials Technologies</i> , 2021 , 6, 2170046	6.8	
220	Enhanced Graphene Sensors via Multi-Lasing Fabrication. <i>IEEE Sensors Journal</i> , 2021 , 21, 18562-18570	4	
219	Cellular network Marine Sensor Buoy 2020 ,		4

218	Giant clams in shallow reefs: UV-resistance mechanisms of Tridacninae in the Red Sea. <i>Coral Reefs</i> , 2020 , 39, 1345-1360	4.2	2
217	Laser-Printed, Flexible Graphene Pressure Sensors. <i>Global Challenges</i> , 2020 , 4, 2000001	4.3	20
216	Magnetic core-shell nanowires as MRI contrast agents for cell tracking. <i>Journal of Nanobiotechnology</i> , 2020 , 18, 42	9.4	13
215	Giant magnetoelectric effect in perpendicularly magnetized Pt/Co/Ta ultrathin films on a ferroelectric substrate. <i>Materials Horizons</i> , 2020 , 7, 2328-2335	14.4	6
214	Direct imaging of an inhomogeneous electric current distribution using the trajectory of magnetic half-skyrmions. <i>Science Advances</i> , 2020 , 6, eaay1876	14.3	10
213	Biocompatible 3D Printed Microneedles for Transdermal, Intradermal, and Percutaneous Applications. <i>Advanced Engineering Materials</i> , 2020 , 22, 2070005	3.5	2
212	A Dual-Mode Nested Rectifier for Ambient Wireless Powering in CMOS Technology. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2020 , 68, 1754-1762	4.1	6
211	Controlled spin-torque driven domain wall motion using staggered magnetic wires. <i>Applied Physics Letters</i> , 2020 , 116, 032402	3.4	9
210	Fabrication of Long-Range Ordered Aluminum Oxide and Fe/Au Multilayered Nanowires for 3-D Magnetic Memory. <i>IEEE Transactions on Magnetics</i> , 2020 , 56, 1-6	2	13
209	Nanowire transducers for biomedical applications 2020 , 697-713		1
208	Development and Evaluation of Portable Low Cost Testing System for Phthalates. <i>International Journal on Smart Sensing and Intelligent Systems</i> , 2020 , 7, 1-7	0.4	
207	Biocompatible 3D Printed Microneedles for Transdermal, Intradermal, and Percutaneous Applications. <i>Advanced Engineering Materials</i> , 2020 , 22, 1901358	3.5	30
206	Functionalization of Magnetic Nanowires for Active Targeting and Enhanced Cell-Killing Efficacy.. <i>ACS Applied Bio Materials</i> , 2020 , 3, 4789-4797	4.1	6
205	3D Printed Microneedle Array for Electroporation. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2020 , 2020, 2202-2205	0.9	
204	Strain-induced Differentiation of Mesenchymal Stem Cells. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2020 , 2020, 2239-2244	0.9	
203	Implantable 3D Printed Drug Delivery System 2019 ,		2
202	Flexible, four-electrode conductivity cell for biologgging applications. <i>Results in Materials</i> , 2019 , 1, 100009.3	2.3	4
201	Quantum oscillations on the surface of InAs epilayer. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2019 , 114, 113604	3	3

200	Aluminium-Polyethylene Terephthalate Sensor. <i>Smart Sensors, Measurement and Instrumentation</i> , 2019 , 115-128	0.3	
199	Conclusion, Challenges and Future Work. <i>Smart Sensors, Measurement and Instrumentation</i> , 2019 , 193-198	0.3	3
198	Carbon Nanotubes-Polydimethylsiloxane Sensor. <i>Smart Sensors, Measurement and Instrumentation</i> , 2019 , 91-114	0.3	
197	Ultra Low Power Sensor for 3-Phase Water-Cut Applications 2019 , 3, 1-4		
196	Printed Flexible Sensors. <i>Smart Sensors, Measurement and Instrumentation</i> , 2019 ,	0.3	1
195	Graphite-Polyimide Sensor. <i>Smart Sensors, Measurement and Instrumentation</i> , 2019 , 129-168	0.3	
194	Effect of Segment length on domain wall pinning in multisegmented Co/Ni nanowires for 3D memory applications. <i>Journal of Magnetism and Magnetic Materials</i> , 2019 , 484, 110-113	2.8	4
193	Interdigitated Sensing and Electrochemical Impedance Spectroscopy. <i>Smart Sensors, Measurement and Instrumentation</i> , 2019 , 83-89	0.3	
192	Graphite-Polydimethylsiloxane Sensor. <i>Smart Sensors, Measurement and Instrumentation</i> , 2019 , 169-192	0.3	
191	An Imperceptible Magnetic Skin. <i>Advanced Materials Technologies</i> , 2019 , 4, 1900493	6.8	20
190	Flexible and Multi-Functional Graphene Sensor Platform 2019 ,		2
189	Wearable multifunctional printed graphene sensors. <i>Npj Flexible Electronics</i> , 2019 , 3,	10.7	40
188	Flexible tag design for semi-continuous wireless data acquisition from marine animals. <i>Flexible and Printed Electronics</i> , 2019 , 4, 035006	3.1	2
187	Growth of Ordered Iron Oxide Nanowires for Photo-electrochemical Water Oxidation. <i>ACS Applied Energy Materials</i> , 2019 , 2, 8473-8480	6.1	4
186	Wearable Electronics: An Imperceptible Magnetic Skin (Adv. Mater. Technol. 10/2019). <i>Advanced Materials Technologies</i> , 2019 , 4, 1970052	6.8	
185	Iron-Based Core-Shell Nanowires for Combinatorial Drug Delivery and Photothermal and Magnetic Therapy. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 43976-43988	9.5	19
184	Magneto-Acoustic Resonator for Aquatic Animal Tracking. <i>IEEE Transactions on Magnetics</i> , 2019 , 55, 1-4	2	5
183	Flexible conductivity, temperature, and depth sensor for marine environment monitoring 2019 ,		1

182	A Triaxial Flexible Magnetic Tunnel Junction Sensor for Catheter Tracking 2019 ,		2
181	Electric-Field-Enhanced Bulk Perpendicular Magnetic Anisotropy in GdFe/Pb(MgNb)TiO Multiferroic Heterostructure. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 47091-47097	9.5	3
180	Biofunctionalizing Magnetic Nanowires Toward Targeting and Killing Leukemia Cancer Cells. <i>IEEE Transactions on Magnetics</i> , 2019 , 55, 1-5	2	13
179	Design of Intense Nanoscale Stray Fields and Gradients at Magnetic Nanorod Interfaces. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 4678-4685	9.5	7
178	3-D Printed Biocompatible Micro-Bellows Membranes. <i>Journal of Microelectromechanical Systems</i> , 2018 , 27, 472-478	2.5	7
177	Ultra-Low Power Corrosion Sensor Made of Iron Nanowires on Magnetic Tunnel Junctions. <i>Advanced Engineering Materials</i> , 2018 , 20, 1800337	3.5	1
176	High-Performance Flexible Magnetic Tunnel Junctions for Smart Miniaturized Instruments. <i>Advanced Engineering Materials</i> , 2018 , 20, 1800471	3.5	11
175	Inductively actuated micro needles for on-demand intracellular delivery. <i>Scientific Reports</i> , 2018 , 8, 99184.9	4.9	5
174	Development of Novel Gold/PDMS Sensors for Medical Applications 2018 ,		1
173	Development of Printed Sensors for Shoe Sensing Applications 2018 ,		1
172	Plasmonic Nanowires for Wide Wavelength Range Molecular Sensing. <i>Materials</i> , 2018 , 11,	3.5	7
171	Advanced Fabrication and Characterization of Magnetic Nanowires 2018 ,		6
170	Flexible and Biofouling Independent Salinity Sensor. <i>Advanced Materials Interfaces</i> , 2018 , 5, 1801110	4.6	15
169	TEM Study of Current-Induced Domain Wall Motion in Cylindrical Nanowires: Towards 3D Magnetic Memory Devices. <i>Microscopy and Microanalysis</i> , 2018 , 24, 944-945	0.5	2
168	Highly-Sensitive Magnetic Tunnel Junction Based Flow Cytometer 2018 ,		1
167	Broadband Magnetic Composite Energy Harvester. <i>Advanced Engineering Materials</i> , 2018 , 20, 1800492	3.5	7
166	3D printed mould-based graphite/PDMS sensor for low-force applications. <i>Sensors and Actuators A: Physical</i> , 2018 , 280, 525-534	3.9	60
165	Tunable, Flexible Composite Magnets for Marine Monitoring Applications. <i>Advanced Engineering Materials</i> , 2018 , 20, 1800229	3.5	11

164	Bioinspired Ciliary Force Sensor for Robotic Platforms. <i>IEEE Robotics and Automation Letters</i> , 2017 , 2, 971-976	4.2	21
163	Biocompatible 3D printed magnetic micro needles. <i>Biomedical Physics and Engineering Express</i> , 2017 , 3, 025005	1.5	29
162	Co/Au multisegmented nanowires: a 3D array of magnetostatically coupled nanopillars. <i>Nanotechnology</i> , 2017 , 28, 095709	3.4	27
161	Magnon Mode Selective Spin Transport in Compensated Ferrimagnets. <i>Nano Letters</i> , 2017 , 17, 3334-3340	1.5	35
160	Direct Observation of Current-Induced Motion of a 3D Vortex Domain Wall in Cylindrical Nanowires. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 16741-16744	9.5	15
159	A remotely operated drug delivery system with dose control. <i>Sensors and Actuators A: Physical</i> , 2017 , 261, 177-183	3.9	12
158	Wearable Flexible Sensors: A Review. <i>IEEE Sensors Journal</i> , 2017 , 17, 3949-3960	4	259
157	Angular Magnetoresistance of Nanowires with Alternating Cobalt and Nickel Segments. <i>IEEE Transactions on Magnetics</i> , 2017 , 53, 1-5	2	4
156	Magnetic Composite Hydrodynamic Pump With Laser-Induced Graphene Electrodes. <i>IEEE Transactions on Magnetics</i> , 2017 , 53, 1-4	2	17
155	A Miniaturized Force Sensor Based on Hair-Like Flexible Magnetized Cylinders Deposited Over a Giant Magnetoresistive Sensor. <i>IEEE Transactions on Magnetics</i> , 2017 , 53, 1-5	2	5
154	Mesenchymal stem cells cultured on magnetic nanowire substrates. <i>Nanotechnology</i> , 2017 , 28, 055703	3.4	9
153	Scalable High-Affinity Stabilization of Magnetic Iron Oxide Nanostructures by a Biocompatible Antifouling Homopolymer. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 40059-40069	9.5	13
152	Magnetic composite based magneto hydrodynamic pump 2017 ,		1
151	Sensing system for salinity testing using laser-induced graphene sensors. <i>Sensors and Actuators A: Physical</i> , 2017 , 264, 107-116	3.9	62
150	Flexible Printed Sensors for Ubiquitous Human Monitoring. <i>Smart Sensors, Measurement and Instrumentation</i> , 2017 , 135-157	0.3	2
149	Tactile Sensing From Laser-Ablated Metallized PET Films. <i>IEEE Sensors Journal</i> , 2017 , 17, 7-13	4	47
148	Flexible temperature and flow sensor from laser-induced graphene 2017 ,		9
147	Laser printed graphene on polyimide electrodes for magnetohydrodynamic pumping of saline fluids 2017 ,		2

146	Influence of temperature and humidity on carbon based printed flexible sensors 2017 ,		1
145	Development of printed sensors for taste sensing 2017 ,		1
144	Urinary incontinence monitoring system using laser-induced graphene sensors 2017 ,		4
143	Tunable magnetic nanowires for biomedical and harsh environment applications. <i>Scientific Reports</i> , 2016 , 6, 24189	4.9	71
142	Functionalized magnetic nanowires for chemical and magneto-mechanical induction of cancer cell death. <i>Scientific Reports</i> , 2016 , 6, 35786	4.9	47
141	Flexible carbon nanotube nanocomposite sensor for multiple physiological parameter monitoring. <i>Sensors and Actuators A: Physical</i> , 2016 , 251, 148-155	3.9	68
140	Sensors and Instrumentation towards early detection of osteoporosis 2016 ,		2
139	In-Situ Study of Domain Walls Propagation and Pinning in Modulated Magnetic Nanowires.. <i>Microscopy and Microanalysis</i> , 2016 , 22, 832-833	0.5	1
138	Magnetic Tactile Sensor for Braille Reading. <i>IEEE Sensors Journal</i> , 2016 , 16, 8700-8705	4	33
137	Cytotoxic effects of nickel nanowires in human fibroblasts. <i>Toxicology Reports</i> , 2016 , 3, 373-380	4.8	25
136	Novel Sensing Approach for LPG Leakage DetectionPart II: Effects of Particle Size, Composition, and Coating Layer Thickness. <i>IEEE Sensors Journal</i> , 2016 , 16, 1088-1094	4	31
135	Novel Sensing Approach for LPG Leakage Detection: Part IOperating Mechanism and Preliminary Results. <i>IEEE Sensors Journal</i> , 2016 , 16, 996-1003	4	47
134	Magnetic Nanocomposite Cilia Energy Harvester. <i>IEEE Transactions on Magnetics</i> , 2016 , 52, 1-4	2	8
133	Magnetotransport Measurements of Domain Wall Propagation in Individual Multisegmented Cylindrical Nanowires. <i>IEEE Transactions on Magnetics</i> , 2016 , 52, 1-5	2	13
132	MEMS digital parametric loudspeaker 2016 ,		1
131	Cytotoxicity and intracellular dissolution of nickel nanowires. <i>Nanotoxicology</i> , 2016 , 10, 871-80	5.3	25
130	Multiscale differential phase contrast analysis with a unitary detector. <i>Ultramicroscopy</i> , 2016 , 162, 74-813.1	3.1	18
129	Magnetically Triggered Monodispersed Nanocomposite Fabricated by Microfluidic Approach for Drug Delivery. <i>International Journal of Polymer Science</i> , 2016 , 2016, 1-8	2.4	3

128	A Magnetoresistive Tactile Sensor for Harsh Environment Applications. <i>Sensors</i> , 2016 , 16,	3.8	23
127	Smart Sensing System for the Prognostic Monitoring of Bone Health. <i>Sensors</i> , 2016 , 16,	3.8	16
126	On-Chip Magnetic Bead Manipulation and Detection Using a Magnetoresistive Sensor-Based Micro-Chip: Design Considerations and Experimental Characterization. <i>Sensors</i> , 2016 , 16,	3.8	12
125	Unitary Detector DPC Imaging with Multiscale Capabilities for Analysis of Local Magnetic Field of Nanomaterials.. <i>Microscopy and Microanalysis</i> , 2016 , 22, 1704-1705	0.5	1
124	Fabrication and characterization of magnetic composite membrane pressure sensor 2016 ,		3
123	A single magnetic nanocomposite cilia force sensor 2016 ,		2
122	Flexible Magnetoelectric Nanocomposites with Tunable Properties. <i>Advanced Electronic Materials</i> , 2016 , 2, 1600081	6.4	17
121	Highly Efficient Thermoresponsive Nanocomposite for Controlled Release Applications. <i>Scientific Reports</i> , 2016 , 6, 28539	4.9	32
120	Periodic Magnetization Pattern for Controlled Domain Wall Motion in Nanowires. <i>Microscopy and Microanalysis</i> , 2016 , 22, 1678-1679	0.5	1
119	Piezoelectric transducer array microspeaker 2016 ,		1
118	Single crystalline cylindrical nanowires - toward dense 3D arrays of magnetic vortices. <i>Scientific Reports</i> , 2016 , 6, 23844	4.9	37
117	Transparent biocompatible sensor patches for touch sensitive prosthetic limbs 2016 ,		7
116	Digital electrostatic acoustic transducer array 2016 ,		1
115	Semi-automated quantification of living cells with internalized nanostructures. <i>Journal of Nanobiotechnology</i> , 2016 , 14, 4	9.4	13
114	Modulated Magnetic Nanowires for Controlling Domain Wall Motion: Toward 3D Magnetic Memories. <i>ACS Nano</i> , 2016 , 10, 5326-32	16.7	101
113	Thin PZT-Based Ferroelectric Capacitors on Flexible Silicon for Nonvolatile Memory Applications. <i>Advanced Electronic Materials</i> , 2015 , 1, 1500045	6.4	80
112	Electrochemical synthesis of core-shell magnetic nanowires. <i>Journal of Magnetism and Magnetic Materials</i> , 2015 , 389, 144-147	2.8	11
111	Magnetic Microfluidic Platform for Biomedical Applications Using Magnetic Nanoparticles. <i>Key Engineering Materials</i> , 2015 , 644, 207-210	0.4	1

110	Magnetoelectric polymer nanocomposite for flexible electronics. <i>Journal of Applied Physics</i> , 2015 , 117, 17D711	2.5	48
109	Design and fabrication of magnetically functionalized flexible micropillar arrays for rapid and controllable microfluidic mixing. <i>Lab on A Chip</i> , 2015 , 15, 2125-32	7.2	63
108	Electromagnetically powered electrolytic pump and thermo-responsive valve for drug delivery 2015 ,		3
107	Magnetic micropillar sensors for force sensing 2015 ,		3
106	Flexible magnetoimpedance sensor. <i>Journal of Magnetism and Magnetic Materials</i> , 2015 , 378, 499-505	2.8	54
105	A Surface Acoustic Wave Passive and Wireless Sensor for Magnetic Fields, Temperature, and Humidity. <i>IEEE Sensors Journal</i> , 2015 , 15, 453-462	4	37
104	Performance enhancement of electronic sensor through mask-less lithography 2015 ,		4
103	2015 ,		3
102	Tactile Sensors: Magnetic Nanocomposite Cilia Tactile Sensor (Adv. Mater. 47/2015). <i>Advanced Materials</i> , 2015 , 27, 7896-7896	24	2
101	A remotely operated drug delivery system with an electrolytic pump and a thermo-responsive valve. <i>Biomicrofluidics</i> , 2015 , 9, 052608	3.2	24
100	Osmotically driven drug delivery through remote-controlled magnetic nanocomposite membranes. <i>Biomicrofluidics</i> , 2015 , 9, 054113	3.2	14
99	Development of a sensing system to detect C-telopeptide of type-I collagen 2015 ,		1
98	Magnetic Nanocomposite Cilia Tactile Sensor. <i>Advanced Materials</i> , 2015 , 27, 7888-92	24	116
97	Fabrication and Properties of Multiferroic Nanocomposite Films. <i>IEEE Transactions on Magnetics</i> , 2015 , 51, 1-4	2	3
96	Non-chemotoxic induction of cancer cell death using magnetic nanowires. <i>International Journal of Nanomedicine</i> , 2015 , 10, 2141-53	7.3	70
95	. <i>IEEE Sensors Journal</i> , 2015 , 15, 3110-3118	4	18
94	Magnetic nanowires and hyperthermia: How geometry and material affect heat production efficiency 2015 ,		1
93	Rapid and molecular selective electrochemical sensing of phthalates in aqueous solution. <i>Biosensors and Bioelectronics</i> , 2015 , 67, 342-9	11.8	54

92	A detailed study of magnetization reversal in individual Ni nanowires. <i>Applied Physics Letters</i> , 2015 , 106, 032403	3.4	25
91	An efficient biosensor made of an electromagnetic trap and a magneto-resistive sensor. <i>Biosensors and Bioelectronics</i> , 2014 , 59, 145-50	11.8	28
90	Targeted cancer cell death induced by biofunctionalized magnetic nanowires 2014 ,		3
89	A magnetic nanocomposite for biomimetic flow sensing. <i>Lab on A Chip</i> , 2014 , 14, 4362-9	7.2	62
88	Introducing molecular selectivity in rapid impedimetric sensing of phthalates 2014 ,		12
87	Magneto-mechanical trapping systems for biological target detection. <i>Mikrochimica Acta</i> , 2014 , 181, 1743-1748	5.8	11
86	Magnetic Properties of FeNi-Based Thin Film Materials with Different Additives. <i>Biosensors</i> , 2014 , 4, 189-203	5.9	11
85	Magnetic polymer nanocomposites for sensing applications 2014 ,		4
84	Isolation of cells for selective treatment and analysis using a magnetic microfluidic chip. <i>Biomicrofluidics</i> , 2014 , 8, 034114	3.2	21
83	Crystallographically driven magnetic behaviour of arrays of monocrystalline Co nanowires. <i>Nanotechnology</i> , 2014 , 25, 475702	3.4	42
82	Selective Manipulation of Superparamagnetic Beads by a Magnetic Microchip. <i>IEEE Transactions on Magnetics</i> , 2013 , 49, 3418-3421	2	16
81	A Magnetic Biosensor System for Detection of E. coli. <i>IEEE Transactions on Magnetics</i> , 2013 , 49, 3492-3495	2	17
80	Microfluidic Biosensing Device for Controlled Trapping and Detection of Magnetic Microparticles 2013 ,		1
79	Three-Axis Magnetic Field Induction Sensor Realized on Buckled Cantilever Plate. <i>IEEE Transactions on Magnetics</i> , 2013 , 49, 4144-4147	2	18
78	MEMS based impedimetric sensing of phthalates 2013 ,		7
77	Ovarian Hormone Estrone Glucuronide (E1G) quantification-impedimetric electrochemical spectroscopy approach 2013 ,		1
76	Simulation of a Low Frequency Z-Axis SU-8 Accelerometer in CoventorWare and MEMS+ 2013 ,		5
75	Integrated passive and wireless sensor for magnetic fields, temperature and humidity 2013 ,		1

74	Technique for rapid detection of phthalates in water and beverages. <i>Journal of Food Engineering</i> , 2013 , 116, 515-523	6	73
73	Influence of Semiconductor/Metal Interface Geometry in an EMR Sensor. <i>IEEE Sensors Journal</i> , 2013 , 13, 664-669	4	6
72	Detection of bacterial endotoxin in food: New planar interdigital sensors based approach. <i>Journal of Food Engineering</i> , 2013 , 114, 346-360	6	56
71	A thin film passive magnetic field sensor operated at 425 MHz 2013 ,		3
70	Extraordinary Magnetoresistance in Semiconductor/Metal Hybrids: A Review. <i>Materials</i> , 2013 , 6, 500-516	9.5	12
69	Metglas/Elgiloy bi-layer, stent cell resonators for wireless monitoring of viscosity and mass loading. <i>Journal of Micromechanics and Microengineering</i> , 2013 , 23, 025010	2	25
68	Geometric factors in the magnetoresistance of n-doped InAs epilayers. <i>Journal of Applied Physics</i> , 2013 , 114, 203908	2.5	6
67	Simulation of SU-8 Frequency-Driven Scratch Drive Actuators 2013 ,		7
66	Analysis of different coating thickness on new type of planar interdigital sensors for endotoxin detection 2013 ,		2
65	A top-contacted extraordinary magnetoresistance sensor fabricated with an unpatterned semiconductor epilayer. <i>IEEE Electron Device Letters</i> , 2013 , 34, 547-549	4.4	3
64	Electrochemical impedance spectroscopy based MEMS sensors for phthalates detection in water and juices. <i>Journal of Physics: Conference Series</i> , 2013 , 439, 012026	0.3	46
63	Analysis of the distribution of magnetic fluid inside tumors by a giant magnetoresistance probe. <i>PLoS ONE</i> , 2013 , 8, e81227	3.7	14
62	Surface Acoustic Wave Based Magnetic Sensors 2013 ,		2
61	Microdevice with Half-Ring Shaped GMR Sensors for Magnetic Bead Manipulation and Detection. <i>Smart Sensors, Measurement and Instrumentation</i> , 2013 , 121-138	0.3	6
60	Output voltage calculations in double barrier magnetic tunnel junctions with asymmetric voltage behavior. <i>Journal of Magnetism and Magnetic Materials</i> , 2012 , 324, 2844-2848	2.8	8
59	. <i>IEEE Transactions on Magnetism</i> , 2012 , 48, 2854-2856	2	22
58	Optimization of Autonomous Magnetic Field Sensor Consisting of Giant Magnetoimpedance Sensor and Surface Acoustic Wave Transducer. <i>IEEE Transactions on Magnetism</i> , 2012 , 48, 4324-4327	2	13
57	Development of FeNiMoB thin film materials for microfabricated magnetoelastic sensors. <i>Journal of Applied Physics</i> , 2012 , 112, 113912	2.5	11

56	Resonant Tunnel Magnetoresistance in a Double Magnetic Tunnel Junction. <i>Journal of Superconductivity and Novel Magnetism</i> , 2012 , 25, 2573-2576	1.5	
55	Finite Element Analysis on the Influence of Contact Resistivity in an Extraordinary Magnetoresistance Magnetic Field Micro Sensor. <i>Journal of Superconductivity and Novel Magnetism</i> , 2012 , 25, 2749-2752	1.5	8
54	Sensor and instrumentation for progesterone detection 2012 ,		7
53	A micro-pillar array to trap magnetic beads in microfluidic systems 2012 ,		2
52	Room temperature inductively coupled plasma etching of InAs/InSb in BCl ₃ /Cl ₂ /Ar. <i>Microelectronic Engineering</i> , 2012 , 98, 222-225	2.5	7
51	Finite-Element Modelling and Analysis of Hall Effect and Extraordinary Magnetoresistance Effect 2012 ,		4
50	Hall effect enhanced low-field sensitivity in a three-contact extraordinary magnetoresistance sensor. <i>Applied Physics Letters</i> , 2012 , 100, 232407	3.4	8
49	Design Study of a Bar-Type EMR Device. <i>IEEE Sensors Journal</i> , 2012 , 12, 1356-1360	4	8
48	Asymmetric Voltage Behavior of the Tunnel Magnetoresistance in Double Barrier Magnetic Tunnel Junctions. <i>Solid State Phenomena</i> , 2012 , 190, 145-148	0.4	
47	Microfabrication of magnetostrictive beams based on NiFe film doped with B and Mo for integrated sensor systems. <i>Journal of Applied Physics</i> , 2012 , 111, 07E515	2.5	2
46	An integrated micro-chip for rapid detection of magnetic particles. <i>Journal of Applied Physics</i> , 2012 , 111, 07B327	2.5	20
45	A biodetection method using magnetic particles and micro traps. <i>Journal of Applied Physics</i> , 2012 , 111, 07B328	2.5	11
44	Magnetic biosensor system to detect biological targets 2012 ,		1
43	Improved detection limits of bacterial endotoxins using new type of planar interdigital sensors 2012 ,		3
42	Integration of thin film giant magnetoimpedance sensor and surface acoustic wave transponder. <i>Journal of Applied Physics</i> , 2012 , 111, 07E514	2.5	14
41	Strong Temperature Dependence of Extraordinary Magnetoresistance Correlated to Mobility in a Two-Contact Device. <i>Applied Physics Express</i> , 2012 , 5, 033002	2.4	8
40	A Planar Conducting Micro-Loop Structure for Transportation of Magnetic Beads: An Approach Towards Rapid Sensing and Quantification of Biological Entities. <i>Sensor Letters</i> , 2012 , 10, 770-774	0.9	15
39	Resonant tunnel magnetoresistance in double-barrier planar magnetic tunnel junctions. <i>Physical Review B</i> , 2011 , 84,	3.3	30

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31	A planar conducting microstructure to guide and confine magnetic beads to a sensing zone. <i>Microelectronic Engineering</i> , 2011 , 88, 1757-1760	2.5	16
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27	A giant magnetoresistance ring-sensor based microsystem for magnetic bead manipulation and detection. <i>Journal of Applied Physics</i> , 2011 , 109, 07E517	2.5	21
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16	Development of a microgripping system for handling of microcomponents. <i>Precision Engineering</i> , 2008 , 32, 148-152	2.9	22
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6	Stress dependence of the differential susceptibility of soft magnetic ribbons. <i>Journal of Applied Physics</i> , 2005 , 97, 10F902	2.5	3
5	Magnetostrictive bilayer sensors – survey. <i>Journal of Alloys and Compounds</i> , 2004 , 369, 202-204	5.7	18
4	Optimisation of sensitivity and time constant of thermal sensors based on magnetoelastic amorphous bilayers. <i>Journal of Alloys and Compounds</i> , 2004 , 369, 198-201	5.7	5
3	Magnetostrictive bilayer sensors [multifunction sensors]		3

2	Magnetoelastic skin curvature sensor for biomedical applications	7
1	Theoretical investigation of magnetostrictive bilayers sensitive to bending or temperature changes	2