Jan G Korvink

List of Publications by Year in Descending Order

380 papers	5,644 citations	38 h-index	59 g-index
450 ext. papers	6,614 ext. citations	3.6 avg, IF	5.88 L-index

#	Paper	IF	Citations
380	Deep regression with ensembles enables fast, first-order shimming in low-field NMR.. *Journal of Magnetic Resonance*, **2022**, 336, 107151	3	0
379	Taxonomy for engineered living materials. *Cell Reports Physical Science*, **2022**, 100807	6.1	1
378	Skin stimulation and recording: Moving towards metal-free electrodes. *Biosensors and Bioelectronics: X*, **2022**, 100143	2.9	0
377	A Technological Approach for Miniaturization of 3D Inductive Levitation Micro-Suspensions. *IEEE Magnetics Letters*, **2022**, 1-1	1.6	
376	Microengineering Improves MR Sensitivity **2022**, 1-23		
375	Net-phase flow NMR for compact applications. *Journal of Magnetic Resonance*, **2022**, 107233	3	
374	Selective excitation enables encoding and measurement of multiple diffusion parameters in a single experiment. *Magnetic Resonance*, **2021**, 2, 835-842	2.9	1
373	Carbon-Based Materials for Articular Tissue Engineering: From Innovative Scaffolding Materials toward Engineered Living Carbon. *Advanced Healthcare Materials*, **2021**, e2101834	10.1	4
372	Siphon-Controlled Automation on a Lab-on-a-Disc Using Event-Triggered Dissolvable Film Valves. *Biosensors*, **2021**, 11,	5.9	2
371	Untuned broadband spiral micro-coils achieve sensitive multi-nuclear NMR TX/RX from microfluidic samples. *Scientific Reports*, **2021**, 11, 7798	4.9	1
370	Integrated impedance sensing of liquid sample plug flow enables automated high throughput NMR spectroscopy. *Microsystems and Nanoengineering*, **2021**, 7, 30	7.7	3
369	Real-Time NMR Monitoring of Spatially Segregated Enzymatic Reactions in Multilayered Hydrogel Assemblies**. *Angewandte Chemie*, **2021**, 133, 19325-19331	3.6	1
368	Real-Time NMR Monitoring of Spatially Segregated Enzymatic Reactions in Multilayered Hydrogel Assemblies*. *Angewandte Chemie - International Edition*, **2021**, 60, 19176-19182	16.4	2
367	Numerical Study of Perturbators Influence on Heat Transfer and Investigation of Collector Performance for a Micro-Combined Heat and Power System Application. *Heat Transfer Engineering*, **2021**, 42, 456-478	1.7	3
366	Toward a Compact Wireless Surface Acoustic Wave Pirani Microsensor with Extended Range and Sensitivity. *Heat Transfer Engineering*, **2021**, 42, 565-578	1.7	2
365	Wireless Double Micro-Resonator for Orientation Free Tracking of MR-Catheter During Interventional MRI. *IEEE Journal of Electromagnetics, RF and Microwaves in Medicine and Biology*, **2021**, 5, 78-83	2.8	1
364	Unraveling the dependency on multiple passes in laser-induced graphene electrodes for supercapacitor and H2O2 sensing. *Materials Science for Energy Technologies*, **2021**, 4, 407-412	5.2	0

363	Mixing mechanism of a straight channel micromixer based on light-actuated oscillating electroosmosis in low-frequency sinusoidal AC electric field. *Microfluidics and Nanofluidics*, **2021**, 25, 1	2.8	10
362	Microfluidic Overhauser DNP chip for signal-enhanced compact NMR. *Scientific Reports*, **2021**, 11, 4671	4.9	5
361	Carbon fiber/microlattice 3D hybrid architecture as multi-scale scaffold for tissue engineering. *Materials Science and Engineering C*, **2021**, 126, 112140	8.3	6
360	Magnetostatic reciprocity for MR magnet design. *Magnetic Resonance*, **2021**, 2, 607-617	2.9	
359	Nano- and Microstructured Copper/Copper Oxide Composites on Laser-Induced Carbon for Enzyme-Free Glucose Sensors. *ACS Applied Nano Materials*, **2021**, 4, 13747-13760	5.6	2
358	Fiber bundle topology optimization of hierarchical microtextures for wetting behavior in Cassie-Baxter mode. *Structural and Multidisciplinary Optimization*, **2020**, 61, 2523-2556	3.6	0
357	Facile template-free synthesis of multifunctional 3D cellular carbon from edible rice paper.. *RSC Advances*, **2020**, 10, 16616-16628	3.7	4
356	Histological Correlates of Diffusion-Weighted Magnetic Resonance Microscopy in a Mouse Model of Mesial Temporal Lobe Epilepsy. *Frontiers in Neuroscience*, **2020**, 14, 543	5.1	4
355	Topology optimization on two-dimensional manifolds. *Computer Methods in Applied Mechanics and Engineering*, **2020**, 364, 112937	5.7	3
354	Numerical and Experimental Study of Microchannel Performance on Flow Maldistribution. *Micromachines*, **2020**, 11,	3.3	5
353	Microarchitectured Carbon Structures as Innovative Tissue-Engineering Scaffolds. *Advanced Engineering Materials*, **2020**, 22, 2000083	3.5	9
352	Pulse Tube Cryocooler: Phasor Analysis and One-Dimensional Numerical Simulation. *Journal of Low Temperature Physics*, **2020**, 199, 1179-1197	1.3	4
351	Prototyping a Microfluidic Sensor for Real-Time Detection of Airborne Formaldehyde. *International Journal of Chemical Engineering and Applications (IJCEA)*, **2020**, 11, 23-28	0.2	3
350	Topologically optimized magnetic lens for magnetic resonance applications. *Magnetic Resonance*, **2020**, 1, 225-236	2.9	0
349	Development of Control Circuit for Inductive Levitation Micro-Actuators. *Proceedings (mdpi)*, **2020**, 64, 39	0.3	2
348	Characterization of a Wireless Vacuum Sensor Prototype Based on the SAW-Pirani Principle. *Processes*, **2020**, 8, 1685	2.9	0
347	ArduiTaM: accurate and inexpensive NMR auto tune and match system. *Magnetic Resonance*, **2020**, 1, 105-113	2.9	0
346	Geometrically-differential NMR in a stripline front-end. *Journal of Magnetic Resonance*, **2020**, 310, 106659	3	2

345	Polyaramid-Based Flexible Antibacterial Coatings Fabricated Using Laser-Induced Carbonization and Copper Electroplating. *ACS Applied Materials & Interfaces*, **2020**, 12, 53193-53205	9.5	8
344	Miniaturization of fluorescence sensing in optofluidic devices. *Microfluidics and Nanofluidics*, **2020**, 24, 1	2.8	14
343	Optofluidic Formaldehyde Sensing: Towards On-Chip Integration. *Micromachines*, **2020**, 11,	3.3	2
342	Electrodeposition of chitosan enables synthesis of copper/carbon composites for H2O2 sensing. *Materials Today Chemistry*, **2020**, 17, 100338	6.2	4
341	An NMR-compatible microfluidic platform enabling electrochemistry. *Lab on A Chip*, **2020**, 20, 3202-3212	7.2	9
340	Gradient-Induced Mechanical Vibration of Neural Interfaces During MRI. *IEEE Transactions on Biomedical Engineering*, **2020**, 67, 915-923	5	2
339	Advanced Numerical Methodology to Analyze High-Temperature Wire-Net Compact Heat Exchangers For a Micro-Combined Heat and Power System Application. *Heat Transfer Engineering*, **2020**, 41, 934-946	1.7	6
338	Pyrolysis-induced shrinking of three-dimensional structures fabricated by two-photon polymerization: experiment and theoretical model. *Microsystems and Nanoengineering*, **2019**, 5, 38	7.7	20
337	Wireless colorimetric readout to enable resource-limited point-of-care. *Lab on A Chip*, **2019**, 19, 3344-3353	7.2	6
336	A multi-purpose, rolled-up, double-helix resonator. *Journal of Magnetic Resonance*, **2019**, 309, 106599	3	
335	Parahydrogen based NMR hyperpolarisation goes micro: an alveolus for small molecule chemosensing. *Lab on A Chip*, **2019**, 19, 503-512	7.2	21
334	Design and Simulation of a Wireless SAW-Pirani Sensor with Extended Range and Sensitivity. *Sensors*, **2019**, 19,	3.8	4
333	Comparison of Storage Methods for Microfluidically Produced Water-in-Oil Droplets. *Chemical Engineering and Technology*, **2019**, 42, 2028-2034	2	1
332	Broadband and multi-resonant sensors for NMR. *Progress in Nuclear Magnetic Resonance Spectroscopy*, **2019**, 112-113, 34-54	10.4	6
331	Micro-textures inversely designed with overlayed-lithography manufacturability for wetting behavior in Cassie-Baxter status. *Applied Mathematical Modelling*, **2019**, 74, 621-640	4.5	4
330	Efficient calculation of the mutual inductance of arbitrarily oriented circular filaments via a generalisation of the Kalantarov-Zeitlin method. *Journal of Magnetism and Magnetic Materials*, **2019**, 483, 10-20	2.8	14
329	Numerical and experimental investigation of a wire-net compact heat exchanger performance for high-temperature applications. *Applied Thermal Engineering*, **2019**, 154, 208-216	5.8	4
328	Porous Silicon Based Rugate Filter Wheel for Multispectral Imaging Applications. *ECS Journal of Solid State Science and Technology*, **2019**, 8, Q43-Q49	2	2

327	Elastic reversible valves on centrifugal microfluidic platforms. *Lab on A Chip*, **2019**, 19, 1090-1100	7.2	17
326	Microfluidic Chips for Life Sciences-A Comparison of Low Entry Manufacturing Technologies. *Small*, **2019**, 15, e1901956	11	11
325	"Small is beautiful" in NMR. *Journal of Magnetic Resonance*, **2019**, 306, 112-117	3	12
324	Load sensitive stable current source for complex precision pulsed electroplating. *Review of Scientific Instruments*, **2019**, 90, 104704	1.7	3
323	Spatial scanning hyperspectral imaging combining a rotating slit with a Dove prism. *Optics Express*, **2019**, 27, 20290-20304	3.3	9
322	Printed, flexible wireless temperature logging system **2019**,		1
321	A Novel Sensor Design and Fabrication for Wireless Interventional MRI Through Induction Coupling **2019**,		2
320	Motion prediction enables simulated MR-imaging of freely moving model organisms. *PLoS Computational Biology*, **2019**, 15, e1006997	5	
319	Glassy carbon microelectrodes minimize induced voltages, mechanical vibrations, and artifacts in magnetic resonance imaging. *Microsystems and Nanoengineering*, **2019**, 5, 61	7.7	12
318	Inductively coupled magic angle spinning microresonators benchmarked for high-resolution single embryo metabolomic profiling. *Analyst, The*, **2019**, 144, 7192-7199	5	3
317	On the application of balanced steady-state free precession to MR microscopy. *Magnetic Resonance Materials in Physics, Biology, and Medicine*, **2019**, 32, 437-447	2.8	
316	Microscale 3D imaging by magnetic resonance force microscopy using full-volume Fourier- and Hadamard-encoding. *Journal of Magnetic Resonance*, **2019**, 299, 196-201	3	4
315	Automatic Adaptive Gain for Magnetic Resonance Sensitivity Enhancement. *Analytical Chemistry*, **2019**, 91, 2376-2383	7.8	2
314	Should patients with brain implants undergo MRI?. *Journal of Neural Engineering*, **2018**, 15, 041002	5	56
313	Mechanical Thermal Noise in Micro-Machined Levitated Two-Axis Rate Gyroscopes. *IEEE Sensors Journal*, **2018**, 18, 1390-1402	4	5
312	Functional screen printed radio frequency identification tags on flexible substrates, facilitating low-cost and integrated point-of-care diagnostics. *Flexible and Printed Electronics*, **2018**, 3, 025002	3.1	11
311	Self-consistent adjoint analysis for topology optimization of electromagnetic waves. *Journal of Computational Physics*, **2018**, 361, 353-376	4.1	11
310	3D Carbon Scaffolds for Neural Stem Cell Culture and Magnetic Resonance Imaging. *Advanced Healthcare Materials*, **2018**, 7, 1700915	10.1	15

309	DPD enables mesoscopic MRI simulation of slow flow. *Microfluidics and Nanofluidics*, **2018**, 22, 1	2.8	0
308	Wireless closed-loop control of centrifugo-pneumatic valving towards large-scale microfluidic process integration **2018**,		1
307	DPD of diffusion-weighted MRI. *Computers and Fluids*, **2018**, 172, 467-473	2.8	0
306	Insertable biplanar gradient coils for magnetic resonance microscopy: theoretical minimization of power dissipation for different fabrication methods. *Biomedical Physics and Engineering Express*, **2018**, 4, 035019	1.5	4
305	Wirelessly powered and remotely controlled valve-array for highly multiplexed analytical assay automation on a centrifugal microfluidic platform. *Biosensors and Bioelectronics*, **2018**, 109, 214-223	11.8	27
304	Production of self-immobilised enzyme microspheres using microfluidics. *Process Biochemistry*, **2018**, 69, 75-81	4.8	8
303	Modeling a Pull-In Instability in Micro-Machined Hybrid Contactless Suspension. *Actuators*, **2018**, 7, 11	2.4	7
302	Levitating Micro-Actuators: A Review. *Actuators*, **2018**, 7, 17	2.4	13
301	In vivo MRI with Concurrent Excitation and Acquisition using Automated Active Analog Cancellation. *Scientific Reports*, **2018**, 8, 10631	4.9	7
300	A novel passive micromixer with modified asymmetric lateral wall structures. *Asia-Pacific Journal of Chemical Engineering*, **2018**, 13, e2202	1.3	8
299	Optical tweezers for trapping in a microfluidic environment. *Applied Optics*, **2018**, 57, 5733-5742	1.7	5
298	Dual-mode pushbroom hyperspectral imaging using active system components and feed-forward compensation. *Review of Scientific Instruments*, **2018**, 89, 083113	1.7	5
297	The eLoaD platform endows centrifugal microfluidics with on-disc power and communication. *Biosensors and Bioelectronics*, **2018**, 117, 464-473	11.8	12
296	Fast prototyping of microtubes with embedded sensing elements made possible with an inkjet printing and rolling process. *Journal of Micromechanics and Microengineering*, **2018**, 28, 025003	2	9
295	Pull-in actuation in hybrid micro-machined contactless suspension. *Journal of Physics: Conference Series*, **2018**, 1052, 012035	0.3	4
294	Energy-aware 3D micro-machined inductive suspensions with polymer magnetic composite core. *Journal of Physics: Conference Series*, **2018**, 1052, 012048	0.3	1
293	Novel concept of a series linear electromagnetic array artificial muscle. *Journal of Physics: Conference Series*, **2018**, 1052, 012047	0.3	1
292	The potential of paper-based diagnostics to meet the ASSURED criteria.. *RSC Advances*, **2018**, 8, 34012-34034	3.7	52

291	Evolution of Glassy Carbon Microstructure: In Situ Transmission Electron Microscopy of the Pyrolysis Process. *Scientific Reports*, **2018**, 8, 16282	4.9	32
290	Microscale Hyperpolarization. *Advanced Micro & Nanosystems*, **2018**, 297-351		
289	Small-Volume Hyphenated NMR Techniques. *Advanced Micro & Nanosystems*, **2018**, 353-379		1
288	Compact Modeling Techniques for Magnetic Resonance Detectors. *Advanced Micro & Nanosystems*, **2018**, 21-56		
287	Wave Guides for Micromagnetic Resonance. *Advanced Micro & Nanosystems*, **2018**, 75-108		
286	Innovative Coil Fabrication Techniques for Miniaturized Magnetic Resonance Detectors. *Advanced Micro & Nanosystems*, **2018**, 109-141		
285	Thin-Film Catheter-Based Receivers for Internal MRI. *Advanced Micro & Nanosystems*, **2018**, 237-263		
284	Design of small-scale gradient coils in magnetic resonance imaging by using the topology optimization method. *Chinese Physics B*, **2018**, 27, 050201	1.2	3
283	Microcoils for Broadband Multinuclei Detection. *Advanced Micro & Nanosystems*, **2018**, 265-296		3
282	Microarrays and Microelectronics for Magnetic Resonance. *Advanced Micro & Nanosystems*, **2018**, 59-73		
281	IC-Based and IC-Assisted NMR Detectors. *Advanced Micro & Nanosystems*, **2018**, 143-176		2
280	Improved method for MR microscopy of brain tissue cultured with the interface method combined with Lenz lenses. *Magnetic Resonance Imaging*, **2018**, 52, 24-32	3.3	2
279	Inversely designed micro-textures for robust Cassie–Baxter mode of super-hydrophobicity. *Computer Methods in Applied Mechanics and Engineering*, **2018**, 341, 113-132	5.7	15
278	Topology optimization of electrode patterns for electroosmotic micromixer. *International Journal of Heat and Mass Transfer*, **2018**, 126, 1299-1315	4.9	18
277	Design of microfluidic channel networks with specified output flow rates using the CFD-based optimization method. *Microfluidics and Nanofluidics*, **2017**, 21, 1	2.8	32
276	Micro-NMR elucidates altered metabolites in the Parkinson's disease-related catp-6 genotype of Caenorhabditis elegans. *Metabolomics*, **2017**, 13, 1	4.7	1
275	Development of paper-based wireless communication modules for point-of-care diagnostic applications **2017**,		1
274	Root Cause Analysis of Zero-Rate Output Sources in an MEMS Gyroscope. *IEEE Sensors Journal*, **2017**, 17, 959-966	4	1

273	One-second MRI of a three-dimensional vocal tract to measure dynamic articulator modifications. *Journal of Magnetic Resonance Imaging*, **2017**, 46, 94-101	5.6	17
272	Ink-jet printed optical waveguides. *Flexible and Printed Electronics*, **2017**, 2, 045003	3.1	7
271	Early tissue damage and microstructural reorganization predict disease severity in experimental epilepsy. *ELife*, **2017**, 6,	8.9	20
270	Optical gauge head to evaluate gradient field induced vibrations of conductive structures during MRI **2017**,		2
269	Capacitor re-design overcomes the rotation rate limit of MACS resonators **2017**, 47B, e21362		1
268	Relevance of the Implementation of Teeth in Three-Dimensional Vocal Tract Models. *Journal of Speech, Language, and Hearing Research*, **2017**, 60, 2379-2393	2.8	8
267	Stable dynamics of micro-machined inductive contactless suspensions. *International Journal of Mechanical Sciences*, **2017**, 131-132, 753-766	5.5	13
266	Magnetic flux tailoring through Lenz lenses for ultrasmall samples: A new pathway to high-pressure nuclear magnetic resonance. *Science Advances*, **2017**, 3, eaao5242	14.3	24
265	A comparison of Lenz lenses and LC resonators for NMR signal enhancement **2017**, 47B, e21357		8
264	The noise factor of receiver coil matching networks in MRI. *Magnetic Resonance Imaging*, **2017**, 37, 252-259	3.3	2
263	A qualitative technique to study stability and dynamics of micro-machined inductive contactless suspensions **2017**,		5
262	Custom-Designed Glassy Carbon Tips for Atomic Force Microscopy. *Micromachines*, **2017**, 8,	3.3	23
261	Automatic correction of diffraction pattern shift in a pushbroom hyperspectral imager with a piezoelectric internal line-scanning unit **2017**,		2
260	Magnetic Lenz lenses improve the limit-of-detection in nuclear magnetic resonance. *PLoS ONE*, **2017**, 12, e0182779	3.7	12
259	Microelectromechanical System-Based Micro Hot-Plate Devices **2017**, 257-280		
258	Advanced Microfluidic Assays for Caenorhabditis elegans **2016**,		1
257	A universal and stand-alone datalogger for lab-on-a-disc applications **2016**,		2
256	Magnetic resonance imaging reveals functional anatomy and biomechanics of a living dragon tree. *Scientific Reports*, **2016**, 6, 32685	4.9	13

255	A new fully integrated multichannel receiver design for magnetic resonance imaging **2016**, 46B, 134-145		5
254	Ink-jet printed fluorescent materials as light sources for planar optical waveguides on polymer foils. *Optical Engineering*, **2016**, 55, 107107	1.1	8
253	Dissipative particle dynamics of diffusion-NMR requires high Schmidt-numbers. *Journal of Chemical Physics*, **2016**, 144, 244101	3.9	5
252	Ink-jet printing of host-guest systems based on acrylates with fluorescent dopants **2016**,		1
251	Molecular MRI in the Earth's Magnetic Field Using Continuous Hyperpolarization of a Biomolecule in Water. *Journal of Physical Chemistry B*, **2016**, 120, 5670-7	3.4	33
250	Printing and preparation of integrated optical waveguides for optronic sensor networks. *Mechatronics*, **2016**, 34, 119-127	3	25
249	Resonatory Properties in Professional Tenors Singing Above the Passaggio. *Acta Acustica United With Acustica*, **2016**, 102, 298-306	1.5	6
248	Design of a 3T preamplifier which stability is insensitive to coil loading. *Journal of Magnetic Resonance*, **2016**, 265, 215-23	3	3
247	Topology optimization of metal nanostructures for localized surface plasmon resonances. *Structural and Multidisciplinary Optimization*, **2016**, 53, 967-972	3.6	15
246	Polydimethylsiloxane bilayer films with an embedded spontaneous curvature. *Soft Matter*, **2016**, 12, 45-52	3.6	38
245	Cyanobacteria use micro-optics to sense light direction. *ELife*, **2016**, 5,	8.9	87
244	CD-Based Microfluidics for Primary Care in Extreme Point-of-Care Settings. *Micromachines*, **2016**, 7,	3.3	67
243	Heteronuclear Micro-Helmholtz Coil Facilitates µm-Range Spatial and Sub-Hz Spectral Resolution NMR of nL-Volume Samples on Customisable Microfluidic Chips. *PLoS ONE*, **2016**, 11, e0146384	3.7	38
242	Hollow microcoils made possible with external support structures manufactured with a two-solvent process. *Journal of Micromechanics and Microengineering*, **2016**, 26, 065002	2	10
241	Polymer Magnetic Composite Core Boosts Performance of Three-Dimensional Micromachined Inductive Contactless Suspension. *IEEE Magnetics Letters*, **2016**, 7, 1-3	1.6	12
240	Micro and nano patternable magnetic carbon. *Journal of Applied Physics*, **2016**, 120, 235107	2.5	6
239	Tailored probes for atomic force microscopy fabricated by two-photon polymerization. *Applied Physics Letters*, **2016**, 109, 063101	3.4	23
238	Dual-mode spectral imaging system employing a focus variable lens. *Advanced Optical Technologies*, **2016**, 5,	0.9	2

237	Topology optimization for three-dimensional electromagnetic waves using an edge element-based finite-element method. *Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences*, **2016**, 472, 20150835	2.4	24
236	Novel selective TOCSY method enables NMR spectral elucidation of metabolomic mixtures. *Journal of Magnetic Resonance*, **2016**, 272, 147-157	3	11
235	A microwave resonator integrated on a polymer microfluidic chip. *Journal of Magnetic Resonance*, **2016**, 270, 169-175	3	10
234	Incorporation of image data from a previous examination in 3D serial MR imaging. *Magnetic Resonance Materials in Physics, Biology, and Medicine*, **2015**, 28, 413-25	2.8	3
233	Improving the robustness of 3D turbo spin echo imaging to involuntary motion. *Magnetic Resonance Materials in Physics, Biology, and Medicine*, **2015**, 28, 329-45	2.8	16
232	Influence of hydrodynamic drag model on shear stress in the simulation of magnetorheological fluids. *Journal of Non-Newtonian Fluid Mechanics*, **2015**, 218, 16-26	2.7	23
231	An L1-norm phase constraint for half-Fourier compressed sensing in 3D MR imaging. *Magnetic Resonance Materials in Physics, Biology, and Medicine*, **2015**, 28, 459-72	2.8	12
230	Fast PRF-based MR thermometry using double-echo EPI: in vivo comparison in a clinical hyperthermia setting. *Magnetic Resonance Materials in Physics, Biology, and Medicine*, **2015**, 28, 305-14	2.8	17
229	Computationally efficient and stable order reduction methods for a large-scale model of MEMS piezoelectric energy harvester. *Microelectronics Reliability*, **2015**, 55, 747-757	1.2	19
228	Ink-jet printing technology enables self-aligned mould patterning for electroplating in a single step. *Journal of Micromechanics and Microengineering*, **2015**, 25, 065015	2	7
227	Novel ionic liquid - polymer composite and an approach for its patterning by conventional photolithography **2015**,		1
226	Electrifying the disk: a modular rotating platform for wireless power and data transmission for Lab on a disk application. *Lab on A Chip*, **2015**, 15, 2584-7	7.2	18
225	Bio-inspired variable imaging system simplified to the essentials: modelling accommodation and gaze movement. *Optics Express*, **2015**, 23, 929-42	3.3	9
224	Phased-array of microcoils allows MR microscopy of ex vivo human skin samples at 9.4 T. *Skin Research and Technology*, **2015**, 21, 61-8	1.9	10
223	Relationship Between Zero-Rate Output and the MEMS Element in a Closed-Loop System. *IEEE Sensors Journal*, **2015**, 15, 7200-7207	4	3
222	Ethanolamine-assisted synthesis of size-controlled indium tin oxide nanoinks for low temperature solution deposited transparent conductive films. *Journal of Materials Chemistry C*, **2015**, 3, 11464-11470	7.1	23
221	Inkjet technology for crystalline silicon photovoltaics. *Advanced Materials*, **2015**, 27, 599-626	24	49
220	Photolithography: Two-Photon Nanolithography Enhances the Performance of an Ionic Liquid–Polymer Composite Sensor (Adv. Funct. Mater. 11/2015). *Advanced Functional Materials*, **2015**, 25, 1682-1682	15.6	1

219	Implementation of an in-field CMOS frequency division multiplexer for 9.4 T magnetic resonance applications. *International Journal of Circuit Theory and Applications*, **2015**, 43, 1861-1878	2	10
218	Acceleration of MRI of the vocal tract provides additional insight into articulator modifications. *Journal of Magnetic Resonance Imaging*, **2015**, 42, 925-35	5.6	18
217	Subthreshold CMOS transistors are largely immune to magnetic field effects when operated above 11 T **2015**, 45, 97-105		4
216	A Comparison of Different Methods to Generate Tooth Surface Models Without Applying Ionizing Radiation for Digital 3-Dimensional Image Fusion With Magnetic Resonance Imaging-Based Data of the Head and Neck Region. *Journal of Computer Assisted Tomography*, **2015**, 39, 882-9	2.2	6
215	A Fully Adaptive Scheme for Model Order Reduction Based on Moment Matching. *IEEE Transactions on Components, Packaging and Manufacturing Technology*, **2015**, 5, 1872-1884	1.7	33
214	A compact parametric model of magnetic resonance micro sensor **2015**,		2
213	Two-Photon Nanolithography Enhances the Performance of an Ionic Liquid/Polymer Composite Sensor. *Advanced Functional Materials*, **2015**, 25, 1683-1693	15.6	16
212	Printable poly(methylsilsesquioxane) dielectric ink and its application in solution processed metal oxide thin-film transistors. *RSC Advances*, **2015**, 5, 20924-20930	3.7	13
211	Design multiple-layer gradient coils using least-squares finite element method. *Structural and Multidisciplinary Optimization*, **2014**, 49, 523-535	3.6	8
210	Euler force actuation mechanism for siphon valving in compact disk-like microfluidic chips. *Biomicrofluidics*, **2014**, 8, 024101	3.2	14
209	Microfluidic laboratories for C. elegans enhance fundamental studies in biology. *RSC Advances*, **2014**, 4, 4691-4709	3.7	52
208	Computationally efficient and stable order reduction method for a large-scale model of MEMS piezoelectric energy harvester **2014**,		2
207	Microfluidic channel structures speed up mixing of multiple emulsions by a factor of ten. *Biomicrofluidics*, **2014**, 8, 054101	3.2	4
206	Discrete element study of viscous flow in magnetorheological fluids. *Rheologica Acta*, **2014**, 53, 417-443	2.3	15
205	SYMPLER: SYMbolic ParticLE simulatoR with grid-computing interface. *Computer Physics Communications*, **2014**, 185, 1085-1099	4.2	4
204	Reproduction of motion artifacts for performance analysis of prospective motion correction in MRI. *Magnetic Resonance in Medicine*, **2014**, 71, 182-90	4.4	33
203	4D flow magnetic resonance imaging in bicuspid aortic valve disease demonstrates altered distribution of aortic blood flow helicity. *Magnetic Resonance in Medicine*, **2014**, 71, 1542-53	4.4	71
202	Circuit level simulation of MRI receive chain using excitation derived from images **2014**, 44, 102-113		1

201	Micro-fabricated Helmholtz coil featuring disposable microfluidic sample inserts for applications in nuclear magnetic resonance. *Journal of Micromechanics and Microengineering*, **2014**, 24, 034004	2	34
200	Flexographic and Inkjet Printing of Polymer Optical Waveguides for Fully Integrated Sensor Systems. *Procedia Technology*, **2014**, 15, 521-529		24
199	Structure preserving model order reduction and system level simulation of MEMS piezoelectric energy harvester **2014**,		1
198	Influence of eddy current, Maxwell and gradient field corrections on 3D flow visualization of 3D CINE PC-MRI data. *Magnetic Resonance in Medicine*, **2014**, 72, 33-40	4.4	33
197	Designing MR shim arrays with irregular coil geometry: theoretical considerations. *IEEE Transactions on Biomedical Engineering*, **2014**, 61, 1614-20	5	11
196	Microfluidic integration of wirebonded microcoils for on-chip applications in nuclear magnetic resonance. *Journal of Micromechanics and Microengineering*, **2014**, 24, 045021	2	25
195	Optimal magnetic susceptibility matching in 3D. *Magnetic Resonance in Medicine*, **2013**, 69, 1146-56	4.4	1
194	Unconventional applications of wire bonding create opportunities for microsystem integration. *Journal of Micromechanics and Microengineering*, **2013**, 23, 083001	2	44
193	Vapour processed self-rolled poly(dimethylsiloxane) microcapillaries form microfluidic devices with engineered inner surface. *Lab on A Chip*, **2013**, 13, 3827-31	7.2	18
192	Hydrodynamic particle focusing design using fluid-particle interaction. *Biomicrofluidics*, **2013**, 7, 54104	3.2	22
191	A hyperpolarized equilibrium for magnetic resonance. *Nature Communications*, **2013**, 4, 2946	17.4	107
190	Theoretical design of gradient coils with minimum power dissipation: accounting for the discretization of current density into coil windings. *Journal of Magnetic Resonance*, **2013**, 235, 85-94	3	12
189	System-Level Modeling of MEMS by Means of Model Order Reduction (Mathematical Approximations) Mathematical Background. *Advanced Micro & Nanosystems*, **2013**, 53-93		4
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