

# Jan G Korvink

## List of Publications by Citations

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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.

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	Printed electronics: the challenges involved in printing devices, interconnects, and contacts based on inorganic materials. <i>Journal of Materials Chemistry</i> , <b>2010</b> , 20, 8446		569
379	Cascaded digital lattice Boltzmann automata for high Reynolds number flow. <i>Physical Review E</i> , <b>2006</b> , 73, 066705	2.4	216
378	A hyperpolarized equilibrium for magnetic resonance. <i>Nature Communications</i> , <b>2013</b> , 4, 2946	17.4	107
377	Parallel imaging in non-bijective, curvilinear magnetic field gradients: a concept study. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , <b>2008</b> , 21, 5-14	2.8	107
376	Cyanobacteria use micro-optics to sense light direction. <i>ELife</i> , <b>2016</b> , 5,	8.9	87
375	A fully MEMS-compatible process for 3D high aspect ratio micro coils obtained with an automatic wire bonder. <i>Journal of Micromechanics and Microengineering</i> , <b>2010</b> , 20, 015021	2	83
374	Inkjet printed, conductive, 25 $\mu$ m wide silver tracks on unstructured polyimide. <i>Physica Status Solidi (A) Applications and Materials Science</i> , <b>2009</b> , 206, 1626-1630	1.6	79
373	Terahertz metamaterials fabricated by inkjet printing. <i>Applied Physics Letters</i> , <b>2009</b> , 95, 251107	3.4	76
372	4D flow magnetic resonance imaging in bicuspid aortic valve disease demonstrates altered distribution of aortic blood flow helicity. <i>Magnetic Resonance in Medicine</i> , <b>2014</b> , 71, 1542-53	4.4	71
371	Enhanced reproducibility of inkjet printed organic thin film transistors based on solution processable polymer-small molecule blends. <i>Journal of Materials Chemistry</i> , <b>2010</b> , 20, 9155		69
370	Review: Automatic Model Reduction for Transient Simulation of MEMS-based Devices. <i>Sensors Update</i> , <b>2002</b> , 11, 3-33		67
369	CD-Based Microfluidics for Primary Care in Extreme Point-of-Care Settings. <i>Micromachines</i> , <b>2016</b> , 7,	3.3	67
368	Structure topology optimization: fully coupled level set method via FEMLAB. <i>Structural and Multidisciplinary Optimization</i> , <b>2005</b> , 29, 407-417	3.6	66
367	Efficient optimization of transient dynamic problems in MEMS devices using model order reduction. <i>Journal of Micromechanics and Microengineering</i> , <b>2005</b> , 15, 822-832	2	61
366	Microscale nuclear magnetic resonance: a tool for soft matter research. <i>Soft Matter</i> , <b>2012</b> , 8, 10583	3.6	59
365	Dynamic electro-thermal simulation of microsystems—review. <i>Journal of Micromechanics and Microengineering</i> , <b>2005</b> , 15, R17-R31	2	59
364	On-chip three dimensional microcoils for MRI at the microscale. <i>Lab on A Chip</i> , <b>2010</b> , 10, 1387-90	7.2	58

363	Should patients with brain implants undergo MRI?. <i>Journal of Neural Engineering</i> , <b>2018</b> , 15, 041002	5	56
362	A factorized central moment lattice Boltzmann method. <i>European Physical Journal: Special Topics</i> , <b>2009</b> , 171, 55-61	2.3	55
361	Assessment of flow instabilities in the healthy aorta using flow-sensitive MRI. <i>Journal of Magnetic Resonance Imaging</i> , <b>2011</b> , 33, 839-46	5.6	53
360	Microfluidic laboratories for <i>C. elegans</i> enhance fundamental studies in biology. <i>RSC Advances</i> , <b>2014</b> , 4, 4691-4709	3.7	52
359	The potential of paper-based diagnostics to meet the ASSURED criteria.. <i>RSC Advances</i> , <b>2018</b> , 8, 34012-34034	3.7	52
358	Prospective motion correction with continuous gradient updates in diffusion weighted imaging. <i>Magnetic Resonance in Medicine</i> , <b>2012</b> , 67, 326-38	4.4	51
357	. <i>IEEE Sensors Journal</i> , <b>2011</b> , 11, 107-113	4	51
356	MEMS: A Practical Guide to Design, Analysis, and Applications <b>2006</b> ,		50
355	Inkjet technology for crystalline silicon photovoltaics. <i>Advanced Materials</i> , <b>2015</b> , 27, 599-626	24	49
354	Design, Simulation, and Fabrication of a Quadstable Monolithic Mechanism With X- and Y-Directional Bistable Curved Beams. <i>Journal of Mechanical Design, Transactions of the ASME</i> , <b>2007</b> , 129, 1198-1203	3	45
353	Unconventional applications of wire bonding create opportunities for microsystem integration. <i>Journal of Micromechanics and Microengineering</i> , <b>2013</b> , 23, 083001	2	44
352	Lab on a chip phased-array MR multi-platform analysis system. <i>Lab on A Chip</i> , <b>2012</b> , 12, 495-502	7.2	43
351	Miniaturized Fourier Transform Spectrometer for the near infrared wavelength regime incorporating an electromagnetic linear actuator. <i>Sensors and Actuators A: Physical</i> , <b>2005</b> , 123-124, 459-467	3.9	43
350	Adaptive moving mesh level set method for structure topology optimization. <i>Engineering Optimization</i> , <b>2008</b> , 40, 529-558	2	42
349	A dissipative particle dynamics model of carbon nanotubes. <i>Molecular Simulation</i> , <b>2008</b> , 34, 737-748	2	42
348	Modeling, Simulation, and Optimization of Electrowetting. <i>IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems</i> , <b>2006</b> , 25, 234-247	2.5	42
347	Contactless NMR spectroscopy on a chip. <i>Analytical Chemistry</i> , <b>2012</b> , 84, 3696-702	7.8	41
346	An MRI receiver coil produced by inkjet printing directly on to a flexible substrate. <i>IEEE Transactions on Medical Imaging</i> , <b>2010</b> , 29, 482-7	11.7	41

345	Preserving the film coefficient as a parameter in the compact thermal model for fast electrothermal simulation. <i>IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems</i> , <b>2005</b> , 24, 1838-1847	2.5	41
344	Model Order Reduction for Large Scale Engineering Models Developed in ANSYS. <i>Lecture Notes in Computer Science</i> , <b>2006</b> , 349-356	0.9	39
343	Polydimethylsiloxane bilayer films with an embedded spontaneous curvature. <i>Soft Matter</i> , <b>2016</b> , 12, 45-52	3.6	38
342	Electrostatic aluminum micromirrors using double-pass metallization. <i>Journal of Microelectromechanical Systems</i> , <b>1997</b> , 6, 126-135	2.5	38
341	Determination of the thermal conductivity of CMOS IC polysilicon. <i>Sensors and Actuators A: Physical</i> , <b>1994</b> , 41, 161-164	3.9	38
340	Heteronuclear Micro-Helmholtz Coil Facilitates $\mu\text{m}$ -Range Spatial and Sub-Hz Spectral Resolution NMR of nL-Volume Samples on Customisable Microfluidic Chips. <i>PLoS ONE</i> , <b>2016</b> , 11, e0146384	3.7	38
339	SOLIDIS: a tool for microactuator simulation in 3-D. <i>Journal of Microelectromechanical Systems</i> , <b>1997</b> , 6, 70-82	2.5	36
338	Micromachined Mid-Infrared Emitter for Fast Transient Temperature Operation for Optical Gas Sensing Systems. <i>IEEE Sensors Journal</i> , <b>2010</b> , 10, 353-362	4	35
337	Micro-fabricated Helmholtz coil featuring disposable microfluidic sample inserts for applications in nuclear magnetic resonance. <i>Journal of Micromechanics and Microengineering</i> , <b>2014</b> , 24, 034004	2	34
336	Bottom-up coarse-graining of a simple graphene model: the blob picture. <i>Journal of Chemical Physics</i> , <b>2011</b> , 134, 064106	3.9	34
335	Structural optimization of a large-displacement electromagnetic Lorentz force microactuator for optical switching applications. <i>Journal of Micromechanics and Microengineering</i> , <b>2004</b> , 14, 1585-1596	2	34
334	Error indicators for fully automatic extraction of heat-transfer macromodels for MEMS. <i>Journal of Micromechanics and Microengineering</i> , <b>2005</b> , 15, 430-440	2	34
333	Molecular MRI in the Earth's Magnetic Field Using Continuous Hyperpolarization of a Biomolecule in Water. <i>Journal of Physical Chemistry B</i> , <b>2016</b> , 120, 5670-7	3.4	33
332	Reproduction of motion artifacts for performance analysis of prospective motion correction in MRI. <i>Magnetic Resonance in Medicine</i> , <b>2014</b> , 71, 182-90	4.4	33
331	A Fully Adaptive Scheme for Model Order Reduction Based on Moment Matching. <i>IEEE Transactions on Components, Packaging and Manufacturing Technology</i> , <b>2015</b> , 5, 1872-1884	1.7	33
330	Influence of eddy current, Maxwell and gradient field corrections on 3D flow visualization of 3D CINE PC-MRI data. <i>Magnetic Resonance in Medicine</i> , <b>2014</b> , 72, 33-40	4.4	33
329	Design of microfluidic channel networks with specified output flow rates using the CFD-based optimization method. <i>Microfluidics and Nanofluidics</i> , <b>2017</b> , 21, 1	2.8	32
328	Evolution of Glassy Carbon Microstructure: In Situ Transmission Electron Microscopy of the Pyrolysis Process. <i>Scientific Reports</i> , <b>2018</b> , 8, 16282	4.9	32

327	Enhanced multipole acceleration technique for the solution of large Poisson computations. <i>IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems</i> , <b>1996</b> , 15, 1541-1546	2.5	31
326	Parameter preserving model order reduction for MEMS applications. <i>Mathematical and Computer Modelling of Dynamical Systems</i> , <b>2011</b> , 17, 297-317	1	30
325	Reduced order fully coupled structural-acoustic analysis via implicit moment matching. <i>Applied Mathematical Modelling</i> , <b>2009</b> , 33, 4097-4119	4.5	30
324	Variable aperture stop based on the design of a single chamber silicone membrane lens with integrated actuation. <i>Optics Letters</i> , <b>2011</b> , 36, 2032-4	3	28
323	PROPERTIES OF THE CASCADED LATTICE BOLTZMANN AUTOMATON. <i>International Journal of Modern Physics C</i> , <b>2007</b> , 18, 455-462	1.1	28
322	Wirelessly powered and remotely controlled valve-array for highly multiplexed analytical assay automation on a centrifugal microfluidic platform. <i>Biosensors and Bioelectronics</i> , <b>2018</b> , 109, 214-223	11.8	27
321	Bubble functions for the lattice Boltzmann method and their application to grid refinement. <i>European Physical Journal: Special Topics</i> , <b>2009</b> , 171, 173-179	2.3	27
320	Microfabricated inserts for magic angle coil spinning (MACS) wireless NMR spectroscopy. <i>PLoS ONE</i> , <b>2012</b> , 7, e42848	3.7	26
319	Printing and preparation of integrated optical waveguides for optronic sensor networks. <i>Mechatronics</i> , <b>2016</b> , 34, 119-127	3	25
318	Microfluidic integration of wirebonded microcoils for on-chip applications in nuclear magnetic resonance. <i>Journal of Micromechanics and Microengineering</i> , <b>2014</b> , 24, 045021	2	25
317	Micro powder injection molding: process characterization and modeling. <i>Microsystem Technologies</i> , <b>2006</b> , 12, 941-946	1.7	25
316	Magnetic flux tailoring through Lenz lenses for ultrasmall samples: A new pathway to high-pressure nuclear magnetic resonance. <i>Science Advances</i> , <b>2017</b> , 3, eaao5242	14.3	24
315	Flexographic and Inkjet Printing of Polymer Optical Waveguides for Fully Integrated Sensor Systems. <i>Procedia Technology</i> , <b>2014</b> , 15, 521-529		24
314	Topology optimization for three-dimensional electromagnetic waves using an edge element-based finite-element method. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , <b>2016</b> , 472, 20150835	2.4	24
313	Influence of hydrodynamic drag model on shear stress in the simulation of magnetorheological fluids. <i>Journal of Non-Newtonian Fluid Mechanics</i> , <b>2015</b> , 218, 16-26	2.7	23
312	Ethanolamine-assisted synthesis of size-controlled indium tin oxide nanoinks for low temperature solution deposited transparent conductive films. <i>Journal of Materials Chemistry C</i> , <b>2015</b> , 3, 11464-11470	7.1	23
311	Custom-Designed Glassy Carbon Tips for Atomic Force Microscopy. <i>Micromachines</i> , <b>2017</b> , 8,	3.3	23
310	Tailored probes for atomic force microscopy fabricated by two-photon polymerization. <i>Applied Physics Letters</i> , <b>2016</b> , 109, 063101	3.4	23

309	Hydrodynamic particle focusing design using fluid-particle interaction. <i>Biomicrofluidics</i> , <b>2013</b> , 7, 54104	3.2	22
308	MST MEMS model order reduction: Requirements and benchmarks. <i>Linear Algebra and Its Applications</i> , <b>2006</b> , 415, 469-498	0.9	22
307	Parahydrogen based NMR hyperpolarisation goes micro: an alveolus for small molecule chemosensing. <i>Lab on A Chip</i> , <b>2019</b> , 19, 503-512	7.2	21
306	Simulation of micro powder injection moulding: Powder segregation and yield stress effects during form filling. <i>Journal of the European Ceramic Society</i> , <b>2011</b> , 31, 2525-2534	6	21
305	High aspect ratio PMMA posts and characterization method for micro coils manufactured with an automatic wire bonder. <i>Sensors and Actuators A: Physical</i> , <b>2009</b> , 156, 328-333	3.9	21
304	Pyrolysis-induced shrinking of three-dimensional structures fabricated by two-photon polymerization: experiment and theoretical model. <i>Microsystems and Nanoengineering</i> , <b>2019</b> , 5, 38	7.7	20
303	Early tissue damage and microstructural reorganization predict disease severity in experimental epilepsy. <i>ELife</i> , <b>2017</b> , 6,	8.9	20
302	Effect of cannula position in the thoracic aorta with continuous left ventricular support: four-dimensional flow-sensitive magnetic resonance imaging in an in vitro model. <i>European Journal of Cardio-thoracic Surgery</i> , <b>2013</b> , 44, 551-8	3	20
301	Computationally efficient and stable order reduction methods for a large-scale model of MEMS piezoelectric energy harvester. <i>Microelectronics Reliability</i> , <b>2015</b> , 55, 747-757	1.2	19
300	Miniaturization limits of piezoresistive MEMS accelerometers. <i>Microsystem Technologies</i> , <b>2009</b> , 15, 1835-1844	1.8	19
299	Validation of X-ray lithography and development simulation system for moving mask deep X-ray lithography. <i>Journal of Microelectromechanical Systems</i> , <b>2006</b> , 15, 159-168	2.5	19
298	Electrifying the disk: a modular rotating platform for wireless power and data transmission for Lab on a disk application. <i>Lab on A Chip</i> , <b>2015</b> , 15, 2584-7	7.2	18
297	Vapour processed self-rolled poly(dimethylsiloxane) microcapillaries form microfluidic devices with engineered inner surface. <i>Lab on A Chip</i> , <b>2013</b> , 13, 3827-31	7.2	18
296	Acceleration of MRI of the vocal tract provides additional insight into articulator modifications. <i>Journal of Magnetic Resonance Imaging</i> , <b>2015</b> , 42, 925-35	5.6	18
295	Characterization of a 3D MEMS fabricated micro-solenoid at 9.4 T. <i>Journal of Magnetic Resonance</i> , <b>2011</b> , 208, 20-6	3	18
294	Optimization of no-moving part fluidic resistance microvalves with low reynolds number <b>2010</b> ,		18
293	Modeling, Design, and Verification for the Analog Front-End of a MEMS-Based Parallel Scanning-Probe Storage Device. <i>IEEE Journal of Solid-State Circuits</i> , <b>2007</b> , 42, 1779-1789	5.5	18
292	Topology optimization of electrode patterns for electroosmotic micromixer. <i>International Journal of Heat and Mass Transfer</i> , <b>2018</b> , 126, 1299-1315	4.9	18

291	One-second MRI of a three-dimensional vocal tract to measure dynamic articulator modifications. <i>Journal of Magnetic Resonance Imaging</i> , <b>2017</b> , 46, 94-101	5.6	17
290	Elastic reversible valves on centrifugal microfluidic platforms. <i>Lab on A Chip</i> , <b>2019</b> , 19, 1090-1100	7.2	17
289	Fast PRF-based MR thermometry using double-echo EPI: in vivo comparison in a clinical hyperthermia setting. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , <b>2015</b> , 28, 305-14	2.8	17
288	Wire bonded 3D coils render air core microtransformers competitive. <i>Journal of Micromechanics and Microengineering</i> , <b>2013</b> , 23, 114020	2	17
287	An error indicator and automatic adaptive meshing for electrostatic boundary element simulations. <i>IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems</i> , <b>1997</b> , 16, 1439-1446	2.5	17
286	Simulation aspects of a thermal accelerometer. <i>Sensors and Actuators A: Physical</i> , <b>1996</b> , 55, 3-6	3.9	17
285	Improving the robustness of 3D turbo spin echo imaging to involuntary motion. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , <b>2015</b> , 28, 329-45	2.8	16
284	Closed circuit MR compatible pulsatile pump system using a ventricular assist device and pressure control unit. <i>Magnetic Resonance in Medicine</i> , <b>2012</b> , 67, 258-68	4.4	16
283	Two-Photon Nanolithography Enhances the Performance of an Ionic Liquid Polymer Composite Sensor. <i>Advanced Functional Materials</i> , <b>2015</b> , 25, 1683-1693	15.6	16
282	Solvent-free inkjet printing process for the fabrication of conductive, transparent, and flexible ionic liquid-polymer gel structures. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , <b>2012</b> , 50, 38-46	2.6	16
281	3D Carbon Scaffolds for Neural Stem Cell Culture and Magnetic Resonance Imaging. <i>Advanced Healthcare Materials</i> , <b>2018</b> , 7, 1700915	10.1	15
280	Topology optimization of metal nanostructures for localized surface plasmon resonances. <i>Structural and Multidisciplinary Optimization</i> , <b>2016</b> , 53, 967-972	3.6	15
279	Discrete element study of viscous flow in magnetorheological fluids. <i>Rheologica Acta</i> , <b>2014</b> , 53, 417-443	2.3	15
278	Polymer Coated Capacitive Microintegrated Gas Sensor		15
277	Inversely designed micro-textures for robust Cassie-Baxter mode of super-hydrophobicity. <i>Computer Methods in Applied Mechanics and Engineering</i> , <b>2018</b> , 341, 113-132	5.7	15
276	Efficient calculation of the mutual inductance of arbitrarily oriented circular filaments via a generalisation of the Kalantarov-Zeitlin method. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2019</b> , 483, 10-20	2.8	14
275	Euler force actuation mechanism for siphon valving in compact disk-like microfluidic chips. <i>Biomicrofluidics</i> , <b>2014</b> , 8, 024101	3.2	14
274	Subspace recycling accelerates the parametric macro-modeling of MEMS. <i>International Journal for Numerical Methods in Engineering</i> , <b>2013</b> , 94, 84-110	2.4	14



273	Complex three-dimensional high aspect ratio microfluidic network manufactured in combined PerMX dry-resist and SU-8 technology. <i>Biomicrofluidics</i> , <b>2011</b> , 5, 34111-3411110	3.2	14
272	Miniaturization of fluorescence sensing in optofluidic devices. <i>Microfluidics and Nanofluidics</i> , <b>2020</b> , 24, 1	2.8	14
271	Magnetic resonance imaging reveals functional anatomy and biomechanics of a living dragon tree. <i>Scientific Reports</i> , <b>2016</b> , 6, 32685	4.9	13
270	Levitating Micro-Actuators: A Review. <i>Actuators</i> , <b>2018</b> , 7, 17	2.4	13
269	Stable dynamics of micro-machined inductive contactless suspensions. <i>International Journal of Mechanical Sciences</i> , <b>2017</b> , 131-132, 753-766	5.5	13
268	Printable poly(methylsilsesquioxane) dielectric ink and its application in solution processed metal oxide thin-film transistors. <i>RSC Advances</i> , <b>2015</b> , 5, 20924-20930	3.7	13
267	Inkjet Ink Formulations. <i>Advanced Micro &amp; Nanosystems</i> , <b>2012</b> , 173-189		13
266	. <i>Journal of Microelectromechanical Systems</i> , <b>2011</b> , 20, 466-475	2.5	13
265	Integrated process simulation of primary shaping: multi scale approaches. <i>Microsystem Technologies</i> , <b>2008</b> , 14, 1789-1796	1.7	13
264	Thermostat with a local heat-bath coupling for exact energy conservation in dissipative particle dynamics. <i>Physical Review E</i> , <b>2006</b> , 73, 037701	2.4	13
263	A two-sided Arnoldi algorithm with stopping criterion and MIMO selection procedure. <i>Mathematical and Computer Modelling of Dynamical Systems</i> , <b>2005</b> , 11, 79-93	1	13
262	An L1-norm phase constraint for half-Fourier compressed sensing in 3D MR imaging. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , <b>2015</b> , 28, 459-72	2.8	12
261	The eLoaD platform endows centrifugal microfluidics with on-disc power and communication. <i>Biosensors and Bioelectronics</i> , <b>2018</b> , 117, 464-473	11.8	12
260	"Small is beautiful" in NMR. <i>Journal of Magnetic Resonance</i> , <b>2019</b> , 306, 112-117	3	12
259	Theoretical design of gradient coils with minimum power dissipation: accounting for the discretization of current density into coil windings. <i>Journal of Magnetic Resonance</i> , <b>2013</b> , 235, 85-94	3	12
258	Design of high stroke electrostatic micropumps: a charge control approach with ring electrodes. <i>Microsystem Technologies</i> , <b>2011</b> , 17, 165-173	1.7	12
257	Process for the fabrication of hollow core solenoidal microcoils in borosilicate glass. <i>Journal of Micromechanics and Microengineering</i> , <b>2008</b> , 18, 075002	2	12
256	Design and characterization of in-plane silicon stress sensors with isotropic sensitivity <b>2008</b> ,		12



255	Connecting heat transfer macromodels for array MEMS structures. <i>Journal of Micromechanics and Microengineering</i> , <b>2005</b> , 15, 1205-1214	2	12
254	Magnetic Lenz lenses improve the limit-of-detection in nuclear magnetic resonance. <i>PLoS ONE</i> , <b>2017</b> , 12, e0182779	3.7	12
253	Polymer Magnetic Composite Core Boosts Performance of Three-Dimensional Micromachined Inductive Contactless Suspension. <i>IEEE Magnetics Letters</i> , <b>2016</b> , 7, 1-3	1.6	12
252	Glassy carbon microelectrodes minimize induced voltages, mechanical vibrations, and artifacts in magnetic resonance imaging. <i>Microsystems and Nanoengineering</i> , <b>2019</b> , 5, 61	7.7	12
251	Functional screen printed radio frequency identification tags on flexible substrates, facilitating low-cost and integrated point-of-care diagnostics. <i>Flexible and Printed Electronics</i> , <b>2018</b> , 3, 025002	3.1	11
250	Self-consistent adjoint analysis for topology optimization of electromagnetic waves. <i>Journal of Computational Physics</i> , <b>2018</b> , 361, 353-376	4.1	11
249	Microfluidic Chips for Life Sciences-A Comparison of Low Entry Manufacturing Technologies. <i>Small</i> , <b>2019</b> , 15, e1901956	11	11
248	Designing MR shim arrays with irregular coil geometry: theoretical considerations. <i>IEEE Transactions on Biomedical Engineering</i> , <b>2014</b> , 61, 1614-20	5	11
247	Three-dimensional microcoils as terahertz metamaterial with electric and magnetic response. <i>Applied Physics Letters</i> , <b>2010</b> , 97, 261105	3.4	11
246	Parametric Model Reduction for Fast Simulation of Cyclic Voltammograms. <i>Sensor Letters</i> , <b>2006</b> , 4, 165-173	17.3	11
245	Novel selective TOCSY method enables NMR spectral elucidation of metabolomic mixtures. <i>Journal of Magnetic Resonance</i> , <b>2016</b> , 272, 147-157	3	11
244	Phased-array of microcoils allows MR microscopy of ex vivo human skin samples at 9.4 T. <i>Skin Research and Technology</i> , <b>2015</b> , 21, 61-8	1.9	10
243	Implementation of an in-field CMOS frequency division multiplexer for 9.4 T magnetic resonance applications. <i>International Journal of Circuit Theory and Applications</i> , <b>2015</b> , 43, 1861-1878	2	10
242	Microtransformer-Based Isolated Signal and Power Transmission. <i>IEEE Transactions on Power Electronics</i> , <b>2012</b> , 27, 3996-4004	7.2	10
241	3D solenoidal microcoil arrays with CMOS integrated amplifiers for parallel MR imaging and spectroscopy <b>2011</b> ,		10
240	Low cost fabrication and assembly process for re-usable 3D polydimethylsiloxane (PDMS) microfluidic networks. <i>Biomicrofluidics</i> , <b>2011</b> , 5, 36502-365026	3.2	10
239	3D high aspect ratio, MEMS integrated micro-solenoids and Helmholtz micro-coils <b>2009</b> ,		10
238	Investigation of the Dynamic Behavior of Bridged Nanotube Resonators by Dissipative Particle Dynamics Simulation. <i>International Journal for Multiscale Computational Engineering</i> , <b>2008</b> , 6, 549-562	2.4	10

237	Hollow microcoils made possible with external support structures manufactured with a two-solvent process. <i>Journal of Micromechanics and Microengineering</i> , <b>2016</b> , 26, 065002	2	10
236	A microwave resonator integrated on a polymer microfluidic chip. <i>Journal of Magnetic Resonance</i> , <b>2016</b> , 270, 169-175	3	10
235	Mixing mechanism of a straight channel micromixer based on light-actuated oscillating electroosmosis in low-frequency sinusoidal AC electric field. <i>Microfluidics and Nanofluidics</i> , <b>2021</b> , 25, 1	2.8	10
234	Bio-inspired variable imaging system simplified to the essentials: modelling accommodation and gaze movement. <i>Optics Express</i> , <b>2015</b> , 23, 929-42	3.3	9
233	Microarchitected Carbon Structures as Innovative Tissue-Engineering Scaffolds. <i>Advanced Engineering Materials</i> , <b>2020</b> , 22, 2000083	3.5	9
232	Using artificial reaction force to design compliant mechanism with multiple equality displacement constraints. <i>Finite Elements in Analysis and Design</i> , <b>2009</b> , 45, 555-568	2.2	9
231	IC MEMS microtransducers		9
230	Spatial scanning hyperspectral imaging combining a rotating slit with a Dove prism. <i>Optics Express</i> , <b>2019</b> , 27, 20290-20304	3.3	9
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