

Mikkel Fougt Hansen

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166
papers

5,398
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h-index

65
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168
ext. papers

5,953
ext. citations

5.1
avg, IF

5.66
L-index

#	Paper	IF	Citations
166	Dynamics of an Interacting Particle System: Evidence of Critical Slowing Down. <i>Physical Review Letters</i> , 1997 , 79, 5154-5157	7.4	310
165	Magnetic properties of hematite nanoparticles. <i>Physical Review B</i> , 2000 , 61, 6826-6838	3.3	298
164	Magnetic interactions between nanoparticles. <i>Beilstein Journal of Nanotechnology</i> , 2010 , 1, 182-90	3	248
163	Estimation of blocking temperatures from ZFC/FC curves. <i>Journal of Magnetism and Magnetic Materials</i> , 1999 , 203, 214-216	2.8	205
162	Magnetic dynamics of weakly and strongly interacting hematite nanoparticles. <i>Physical Review B</i> , 2000 , 62, 1124-1135	3.3	183
161	Planar Hall effect sensor for magnetic micro- and nanobead detection. <i>Applied Physics Letters</i> , 2004 , 84, 4729-4731	3.4	162
160	Static Scaling on an Interacting Magnetic Nanoparticle System. <i>Physical Review Letters</i> , 1998 , 81, 3976-3979	3.7	152
159	Experimental and theoretical studies of nanoparticles of antiferromagnetic materials. <i>Journal of Physics Condensed Matter</i> , 2007 , 19, 213202	1.8	142
158	On-chip manipulation of protein-coated magnetic beads via domain-wall conduits. <i>Advanced Materials</i> , 2010 , 22, 2706-10	24	123
157	Magnetic separation in microfluidic systems using microfabricated electromagnets: Experiments and simulations. <i>Journal of Magnetism and Magnetic Materials</i> , 2005 , 293, 597-604	2.8	123
156	Particle interaction effects in antiferromagnetic NiO nanoparticles. <i>Journal of Magnetism and Magnetic Materials</i> , 2000 , 221, 32-36	2.8	92
155	Dynamics of Magnetic Nanoparticles Studied by Neutron Scattering. <i>Physical Review Letters</i> , 1997 , 79, 4910-4913	7.4	86
154	Relating Magnetic Properties and High Hyperthermia Performance of Iron Oxide Nanoflowers. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 3068-3077	3.8	78
153	Critical dynamics of an interacting magnetic nanoparticle system. <i>Journal of Physics Condensed Matter</i> , 2002 , 14, 4901-4914	1.8	73
152	Homogeneous circle-to-circle amplification for real-time optomagnetic detection of SARS-CoV-2 RdRp coding sequence. <i>Biosensors and Bioelectronics</i> , 2020 , 165, 112356	11.8	70
151	Nonequilibrium dynamics in an interacting Fe-C nanoparticle system. <i>Physical Review B</i> , 2000 , 61, 1261-1266	3.6	65
150	Planar Hall effect bridge magnetic field sensors. <i>Applied Physics Letters</i> , 2010 , 97, 013507	3.4	62

149	Magnetic microbead detection using the planar Hall effect. <i>Journal of Magnetism and Magnetic Materials</i> , 2005 , 293, 677-684	2.8	61
148	Improved bacteria detection by coupling magneto-immunocapture and amperometry at flow-channel microband electrodes. <i>Biosensors and Bioelectronics</i> , 2011 , 26, 3633-40	11.8	60
147	On-chip magnetic bead microarray using hydrodynamic focusing in a passive magnetic separator. <i>Lab on A Chip</i> , 2005 , 5, 1315-9	7.2	60
146	On the Centre of gravity method for measuring the composition of magnetite/maghemite mixtures, or the stoichiometry of magnetite-maghemite solid solutions, via ^{57}Fe Mössbauer spectroscopy. <i>Journal Physics D: Applied Physics</i> , 2017 , 50, 265005	3	57
145	Quantitative Detection of Trace Level Cloxacillin in Food Samples Using Magnetic Molecularly Imprinted Polymer Extraction and Surface-Enhanced Raman Spectroscopy Nanopillars. <i>Analytical Chemistry</i> , 2017 , 89, 11484-11490	7.8	56
144	Estimation of Nanoparticle Size Distributions by Image Analysis. <i>Journal of Nanoparticle Research</i> , 2000 , 2, 267-277	2.3	56
143	Scalable DNA-Based Magnetic Nanoparticle Agglutination Assay for Bacterial Detection in Patient Samples. <i>ACS Nano</i> , 2015 , 9, 7374-82	16.7	55
142	Magnetic domain wall conduits for single cell applications. <i>Lab on A Chip</i> , 2011 , 11, 2976-83	7.2	55
141	Optomagnetic Detection of MicroRNA Based on Duplex-Specific Nuclease-Assisted Target Recycling and Multilayer Core-Satellite Magnetic Superstructures. <i>ACS Nano</i> , 2017 , 11, 1798-1806	16.7	52
140	Classification of Magnetic Nanoparticle Systems--Synthesis, Standardization and Analysis Methods in the NanoMag Project. <i>International Journal of Molecular Sciences</i> , 2015 , 16, 20308-25	6.3	51
139	Microfluidic magnetic separator using an array of soft magnetic elements. <i>Journal of Applied Physics</i> , 2006 , 99, 08P102	2.5	50
138	Novel readout method for molecular diagnostic assays based on optical measurements of magnetic nanobead dynamics. <i>Analytical Chemistry</i> , 2015 , 87, 1622-9	7.8	49
137	Microelectromagnet for magnetic manipulation in lab-on-a-chip systems. <i>Journal of Magnetism and Magnetic Materials</i> , 2006 , 300, 418-426	2.8	49
136	Theoretical comparison of magnetic and hydrodynamic interactions between magnetically tagged particles in microfluidic systems. <i>Journal of Magnetism and Magnetic Materials</i> , 2005 , 293, 578-583	2.8	49
135	Quantification of NS1 dengue biomarker in serum via optomagnetic nanocluster detection. <i>Scientific Reports</i> , 2015 , 5, 16145	4.9	48
134	Characterization of a microfluidic magnetic bead separator for high-throughput applications. <i>Sensors and Actuators A: Physical</i> , 2008 , 145-146, 430-436	3.9	46
133	Quantification of rolling circle amplified DNA using magnetic nanobeads and a Blu-ray optical pick-up unit. <i>Biosensors and Bioelectronics</i> , 2015 , 67, 649-55	11.8	45
132	Dual-Function Cobalt-Nickel Nanoparticles Tailored for High-Temperature Induction-Heated Steam Methane Reforming. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 10569-10573	16.4	44

131	Magnetic Properties of Nanoparticles of Antiferromagnetic Materials. <i>Hyperfine Interactions</i> , 2002 , 144/145, 347-357	0.8	41
130	Measurements of Brownian relaxation of magnetic nanobeads using planar Hall effect bridge sensors. <i>Biosensors and Bioelectronics</i> , 2013 , 40, 147-52	11.8	40
129	Bead magnetorelaxometry with an on-chip magnetoresistive sensor. <i>Lab on A Chip</i> , 2011 , 11, 296-302	7.2	39
128	Direct Hysteresis Heating of Catalytically Active NiO Nanoparticles as Steam Reforming Catalyst. <i>Industrial & Engineering Chemistry Research</i> , 2017 , 56, 14006-14013	3.9	38
127	Amorphous soft magnetic particles produced by spark erosion. <i>Journal of Magnetism and Magnetic Materials</i> , 2003 , 254-255, 1-6	2.8	36
126	Uniform excitations in magnetic nanoparticles. <i>Beilstein Journal of Nanotechnology</i> , 2010 , 1, 48-54	3	35
125	Capture of DNA in microfluidic channel using magnetic beads: Increasing capture efficiency with integrated microfluidic mixer. <i>Journal of Magnetism and Magnetic Materials</i> , 2007 , 311, 396-400	2.8	35
124	On-chip detection of rolling circle amplified DNA molecules from <i>Bacillus globigii</i> spores and <i>Vibrio cholerae</i> . <i>Small</i> , 2014 , 10, 2877-82	11	34
123	Lab-on-a-disc agglutination assay for protein detection by optomagnetic readout and optical imaging using nano- and micro-sized magnetic beads. <i>Biosensors and Bioelectronics</i> , 2016 , 85, 351-357	11.8	34
122	The magnetic moment of NiO nanoparticles determined by Mössbauer spectroscopy. <i>Journal of Physics Condensed Matter</i> , 2006 , 18, 4161-75	1.8	33
121	Magnetic fluctuations in nanosized goethite (α -FeOOH) grains. <i>Journal of Physics Condensed Matter</i> , 2009 , 21, 016007	1.8	32
120	Mesostructured Iron Oxyhydroxides. 1. Synthesis, Local Structure, and Magnetism. <i>Chemistry of Materials</i> , 2001 , 13, 1453-1466	9.6	31
119	Composition-dependent variation of magnetic properties and interstitial ordering in homogeneous expanded austenite. <i>Acta Materialia</i> , 2016 , 106, 32-39	8.4	30
118	Magnetoresistive sensor for real-time single nucleotide polymorphism genotyping. <i>Biosensors and Bioelectronics</i> , 2014 , 52, 445-51	11.8	30
117	CRISPR-Cas12a based internal negative control for nonspecific products of exponential rolling circle amplification. <i>Nucleic Acids Research</i> , 2020 , 48, e30	20.1	29
116	Flow reversal at low voltage and low frequency in a microfabricated ac electrokinetic pump. <i>Physical Review E</i> , 2007 , 76, 056305	2.4	29
115	On-Particle Rolling Circle Amplification-Based Core-Satellite Magnetic Superstructures for MicroRNA Detection. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 2957-2964	9.5	28
114	Ultrasonic welding for fast bonding of self-aligned structures in lab-on-a-chip systems. <i>Lab on A Chip</i> , 2015 , 15, 1998-2001	7.2	27

113	Turn-on optomagnetic bacterial DNA sequence detection using volume-amplified magnetic nanobeads. <i>Biosensors and Bioelectronics</i> , 2015 , 66, 405-11	11.8	27
112	Exchange-biased planar Hall effect sensor optimized for biosensor applications. <i>Journal of Applied Physics</i> , 2008 , 103, 07A302	2.5	27
111	The correlation between superparamagnetic blocking temperatures and peak temperatures obtained from ac magnetization measurements. <i>Journal of Physics Condensed Matter</i> , 2008 , 20, 345209	1.8	27
110	Theoretical analysis of a new, efficient microfluidic magnetic bead separator based on magnetic structures on multiple length scales. <i>Microfluidics and Nanofluidics</i> , 2008 , 4, 565-573	2.8	27
109	Comparison of optomagnetic and AC susceptibility readouts in a magnetic nanoparticle agglutination assay for detection of C-reactive protein. <i>Biosensors and Bioelectronics</i> , 2017 , 88, 94-100	11.8	26
108	Relaxation in interacting nanoparticle systems. <i>Journal of Molecular Liquids</i> , 2004 , 114, 131-135	6	26
107	Spin-glass-like transition in a highly concentrated Fe ₃ O ₄ nanoparticle system. <i>Journal of Magnetism and Magnetic Materials</i> , 2001 , 226-230, 1315-1316	2.8	26
106	On the interpretation of Mössbauer spectra of magnetic nanoparticles. <i>Journal of Magnetism and Magnetic Materials</i> , 2018 , 445, 11-21	2.8	25
105	Blu-ray based optomagnetic aptasensor for detection of small molecules. <i>Biosensors and Bioelectronics</i> , 2016 , 75, 396-403	11.8	25
104	Construction and characterisation of a modular microfluidic system: coupling magnetic capture and electrochemical detection. <i>Microfluidics and Nanofluidics</i> , 2010 , 8, 393-402	2.8	25
103	Quantitative characterization of magnetic separators: comparison of systems with and without integrated microfluidic mixers. <i>Biomedical Microdevices</i> , 2007 , 9, 195-205	3.7	25
102	Characterization of fine particles using optomagnetic measurements. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 8802-8814	3.6	24
101	Microstripes for transport and separation of magnetic particles. <i>Biomicrofluidics</i> , 2012 , 6, 24110-241106	3.2	24
100	Denaturation strategies for detection of double stranded PCR products on GMR magnetic biosensor array. <i>Biosensors and Bioelectronics</i> , 2017 , 93, 155-160	11.8	23
99	Field-dependent dynamic responses from dilute magnetic nanoparticle dispersions. <i>Nanoscale</i> , 2018 , 10, 2052-2066	7.7	22
98	Simultaneous Profiling of DNA Mutation and Methylation by Melting Analysis Using Magneto-resistive Biosensor Array. <i>ACS Nano</i> , 2017 , 11, 8864-8870	16.7	22
97	Low-frequency noise in planar Hall effect bridge sensors. <i>Sensors and Actuators A: Physical</i> , 2011 , 171, 212-218	3.9	22
96	Magnetic bead micromixer: Influence of magnetic element geometry and field amplitude. <i>Journal of Applied Physics</i> , 2008 , 103, 07E902	2.5	22

95	Rapid Newcastle Disease Virus Detection Based on Loop-Mediated Isothermal Amplification and Optomagnetic Readout. <i>ACS Sensors</i> , 2016 , 1, 1228-1234	9.2	21
94	On the interpretation of magnetization data for antiferromagnetic nanoparticles. <i>Journal of Magnetism and Magnetic Materials</i> , 2006 , 305, 95-99	2.8	21
93	An inelastic neutron scattering study of hematite nanoparticles. <i>Journal of Magnetism and Magnetic Materials</i> , 2003 , 266, 68-78	2.8	21
92	MicroRNA Detection through DNAzyme-Mediated Disintegration of Magnetic Nanoparticle Assemblies. <i>ACS Sensors</i> , 2018 , 3, 1884-1891	9.2	21
91	Fabrication and modelling of injection moulded all-polymer capillary microvalves for passive microfluidic control. <i>Journal of Micromechanics and Microengineering</i> , 2014 , 24, 125007	2	20
90	Theoretical study of in-plane response of magnetic field sensor to magnetic beads magnetized by the sensor self-field. <i>Journal of Applied Physics</i> , 2010 , 107, 124511	2.5	20
89	Influence of clustering on the magnetic properties and hyperthermia performance of iron oxide nanoparticles. <i>Nanotechnology</i> , 2018 , 29, 425705	3.4	19
88	On-chip magnetic bead-based DNA melting curve analysis using a magnetoresistive sensor. <i>Journal of Magnetism and Magnetic Materials</i> , 2015 , 380, 215-220	2.8	19
87	Modelling and design of planar Hall effect bridge sensors for low-frequency applications. <i>Sensors and Actuators A: Physical</i> , 2013 , 189, 459-465	3.9	19
86	Magnetic dynamics of fine particles studied by inelastic neutron scattering. <i>Journal of Magnetism and Magnetic Materials</i> , 2000 , 221, 10-25	2.8	19
85	Ultrasensitive Real-Time Rolling Circle Amplification Detection Enhanced by Nicking-Induced Tandem-Acting Polymerases. <i>Analytical Chemistry</i> , 2019 , 91, 10102-10109	7.8	18
84	The copper binding properties of metformin--QCM-D, XPS and nanobead agglomeration. <i>Chemical Communications</i> , 2015 , 51, 17313-6	5.8	18
83	Size-dependent effects in exchange-biased planar Hall effect sensor crosses. <i>Journal of Applied Physics</i> , 2011 , 109, 064511	2.5	18
82	Theoretical study of in-plane response of magnetic field sensor to magnetic beads in an in-plane homogeneous field. <i>Journal of Applied Physics</i> , 2008 , 103, 064512	2.5	18
81	A neutron scattering study of spin precession in ferrimagnetic maghemite nanoparticles. <i>Europhysics Letters</i> , 2001 , 54, 526-532	1.6	18
80	On-chip measurement of the Brownian relaxation frequency of magnetic beads using magnetic tunneling junctions. <i>Applied Physics Letters</i> , 2011 , 98, 073702	3.4	17
79	On the analysis of magnetization and Mössbauer data for ferritin. <i>Nanotechnology</i> , 2008 , 19, 315712	3.4	17
78	Sensitive on-chip quantitative real-time PCR performed on an adaptable and robust platform. <i>Biomedical Microdevices</i> , 2008 , 10, 769-776	3.7	17

77	Improving performance of induction-heated steam methane reforming. <i>Catalysis Today</i> , 2020 , 342, 13-20	5.3	17
76	Integration of rolling circle amplification and optomagnetic detection on a polymer chip. <i>Biosensors and Bioelectronics</i> , 2019 , 142, 111485	11.8	16
75	A temperature control method for shortening thermal cycling time to achieve rapid polymerase chain reaction (PCR) in a disposable polymer microfluidic device. <i>Journal of Micromechanics and Microengineering</i> , 2013 , 23, 074002	2	16
74	Chip-Based Measurements of Brownian Relaxation of Magnetic Beads Using a Planar Hall Effect Magnetic Field Sensor 2010 ,		16
73	Nicking-assisted on-loop and off-loop enzymatic cascade amplification for optomagnetic detection of a highly conserved dengue virus sequence. <i>Biosensors and Bioelectronics</i> , 2020 , 160, 112219	11.8	15
72	Sequence-specific validation of LAMP amplicons in real-time optomagnetic detection of Dengue serotype 2 synthetic DNA. <i>Analyst, The</i> , 2017 , 142, 3441-3450	5	15
71	Temperature effects in exchange-biased planar hall sensors for bioapplications. <i>Sensors and Actuators A: Physical</i> , 2009 , 156, 103-108	3.9	15
70	Bead Capture on Magnetic Sensors in a Microfluidic System. <i>IEEE Sensors Journal</i> , 2009 , 9, 682-688	4	15
69	Towards a programmable magnetic bead microarray in a microfluidic channel. <i>Journal of Magnetism and Magnetic Materials</i> , 2007 , 311, 409-415	2.8	15
68	Dual-Function Cobalt-Nickel Nanoparticles Tailored for High-Temperature Induction-Heated Steam Methane Reforming. <i>Angewandte Chemie</i> , 2018 , 130, 10729-10733	3.6	15
67	Multi-scale magnetic nanoparticle based optomagnetic bioassay for sensitive DNA and bacteria detection. <i>Analytical Methods</i> , 2016 , 8, 5009-5016	3.2	14
66	Planar Hall effect bridge geometries optimized for magnetic bead detection. <i>Journal of Applied Physics</i> , 2014 , 115, 184505	2.5	13
65	A magnetic adsorbent-based process for semi-continuous PEGylation of proteins. <i>Biotechnology Journal</i> , 2011 , 6, 396-409	5.6	13
64	Flow-orthogonal bead oscillation in a microfluidic chip with a magnetic anisotropic flux-guide array. <i>Biomedical Microdevices</i> , 2011 , 13, 353-9	3.7	13
63	Establishing exchange bias below TN with polycrystalline Ni _{0.52} Co _{0.48} O bilayers. <i>Physical Review B</i> , 2005 , 72,	3.3	13
62	Optimization of magnetoresistive sensor current for on-chip magnetic bead detection using the sensor self-field. <i>Journal of Magnetism and Magnetic Materials</i> , 2015 , 380, 209-214	2.8	12
61	Uncertainty budget for determinations of mean isomer shift from Mössbauer spectra. <i>Hyperfine Interactions</i> , 2016 , 237, 1	0.8	12
60	Exchange-Biased AMR Bridges for Magnetic Field Sensing and Biosensing. <i>IEEE Transactions on Magnetics</i> , 2017 , 53, 1-11	2	12

59	On-chip measurements of Brownian relaxation of magnetic beads with diameters from 10 nm to 250 nm. <i>Journal of Applied Physics</i> , 2013 , 113, 154507	2.5	12
58	Integration of a zero dead-volume PDMS rotary switch valve in a miniaturised (bio)electroanalytical system. <i>Lab on A Chip</i> , 2010 , 10, 1841-7	7.2	12
57	A Mössbauer study of the chemical stability of iron oxide nanoparticles in PMMA and PVB beads. <i>Journal of Magnetism and Magnetic Materials</i> , 2008 , 320, 2099-2105	2.8	12
56	Exchange-spring permanent magnet particles produced by spark-erosion. <i>Applied Physics Letters</i> , 2003 , 82, 1574-1576	3.4	12
55	Magnetic dynamics of small Fe ₂ O ₃ and NiO particles studied by neutron scattering. <i>European Physical Journal D</i> , 1999 , 9, 491-494	1.3	12
54	Self-Assembled Magnetic Nanoparticle-Graphene Oxide Nanotag for Optomagnetic Detection of DNA. <i>ACS Applied Nano Materials</i> , 2019 , 2, 1683-1690	5.6	11
53	On the importance of sensor height variation for detection of magnetic labels by magnetoresistive sensors. <i>Scientific Reports</i> , 2015 , 5, 12282	4.9	11
52	Magnetic, Structural, and Particle Size Analysis of Single- and Multi-Core Magnetic Nanoparticles. <i>IEEE Transactions on Magnetics</i> , 2014 , 50, 1-4	2	11
51	Martensite formation in Fe-C alloys at cryogenic temperatures. <i>Scripta Materialia</i> , 2017 , 141, 129-132	5.6	10
50	Interactions between goethite particles subjected to heat treatment. <i>Journal of Physics Condensed Matter</i> , 2008 , 20, 135215	1.8	10
49	Comment on "Magnetic relaxation of interacting Co clusters: crossover from two- to three-dimensional lattices". <i>Physical Review Letters</i> , 2003 , 90, 059705; author reply 059706	7.4	10
48	Isothermal Martensite Formation at Sub-Zero Temperatures. <i>Journal of ASTM International</i> , 2011 , 8, 103459		10
47	Two-dimensional salt and temperature DNA denaturation analysis using a magnetoresistive sensor. <i>Lab on A Chip</i> , 2017 , 17, 2256-2263	7.2	9
46	Experimental comparison of ring and diamond shaped planar Hall effect bridge magnetic field sensors. <i>Journal of Applied Physics</i> , 2015 , 118, 103901	2.5	9
45	Combined detection of C-reactive protein and PBMC quantification from whole blood in an integrated lab-on-a-disc microfluidic platform. <i>Sensors and Actuators B: Chemical</i> , 2018 , 272, 634-642	8.5	9
44	Planar Hall effect bridge sensors with NiFe/Cu/IrMn stack optimized for self-field magnetic bead detection. <i>Journal of Applied Physics</i> , 2016 , 119, 093910	2.5	9
43	Microfluidic approaches for the production of monodisperse, superparamagnetic microspheres in the low micrometer size range. <i>Journal of Magnetism and Magnetic Materials</i> , 2019 , 471, 286-293	2.8	9
42	Integration of microbead DNA handling with optomagnetic detection in rolling circle amplification assays. <i>Mikrochimica Acta</i> , 2019 , 186, 528	5.8	8

41	Thermally activated growth of lath martensite in FeCrNiAl stainless steel. <i>Materials Science and Technology</i> , 2015 , 31, 115-122	1.5	8
40	Double layer resist process scheme for metal lift-off with application in inductive heating of microstructures. <i>Microelectronic Engineering</i> , 2010 , 87, 1226-1228	2.5	8
39	Search for magnetic minerals in Martian rocks: Overview of the Rock Abrasion Tool (RAT) magnet investigation on Spirit and Opportunity. <i>Journal of Geophysical Research</i> , 2008 , 113,		8
38	Optomagnetic detection of DNA triplex nanoswitches. <i>Analyst, The</i> , 2017 , 142, 582-585	5	7
37	Shape anisotropy enhanced optomagnetic measurement for prostate-specific antigen detection via magnetic chain formation. <i>Biosensors and Bioelectronics</i> , 2017 , 98, 285-291	11.8	7
36	Superparamagnetic bead interactions with functionalized surfaces characterized by an immunomicroarray. <i>Acta Biomaterialia</i> , 2010 , 6, 3936-46	10.8	7
35	Mesostructured Iron Oxyhydroxides. 2. Soft Hydrothermal Restructuring Processes. <i>Chemistry of Materials</i> , 2001 , 13, 1467-1472	9.6	7
34	Geometrical optimization of microstripe arrays for microbead magnetophoresis. <i>Biomicrofluidics</i> , 2015 , 9, 054123	3.2	6
33	Planar Hall effect sensor with magnetostatic compensation layer. <i>Sensors and Actuators A: Physical</i> , 2012 , 174, 1-8	3.9	6
32	On-chip Brownian relaxation measurements of magnetic nanobeads in the time domain. <i>Journal of Applied Physics</i> , 2013 , 113, 234508	2.5	6
31	Comment on Planar Hall resistance ring sensor based on NiFe/Cu/IrMn trilayer structure[J. Appl. Phys. 113, 063903 (2013)]. <i>Journal of Applied Physics</i> , 2013 , 114, 106101	2.5	6
30	Magnetic phase of the Fe-containing inclusions in synthetic diamond grits. <i>Physica B: Condensed Matter</i> , 2002 , 321, 29-36	2.8	6
29	Memory effects in an interacting magnetic nano-particle sample. <i>Physica B: Condensed Matter</i> , 2000 , 284-288, 1754-1755	2.8	6
28	Magnetoresistive sensors for measurements of DNA hybridization kinetics - effect of TINA modifications. <i>Scientific Reports</i> , 2017 , 7, 41940	4.9	4
27	Anomalous kinetics of lath martensite formation in stainless steel. <i>Materials Science and Technology</i> , 2015 , 31, 1355-1361	1.5	4
26	Automated on-chip analysis of tuberculosis drug-resistance mutation with integrated DNA ligation and amplification. <i>Analytical and Bioanalytical Chemistry</i> , 2020 , 412, 2705-2710	4.4	4
25	On-chip measurements of Brownian relaxation vs. concentration of 40 nm magnetic beads. <i>Journal of Applied Physics</i> , 2012 , 112, 124512	2.5	4
24	Magnetic properties of non-interacting Fe-C nanoparticles. <i>Journal of Magnetism and Magnetic Materials</i> , 1998 , 177-181, 928-930	2.8	4

23	1.04 Magnetic Nanoparticles 2019 , 89-140		3
22	Burst pressure of phaseguide structures of different heights in all-polymer microfluidic channels. <i>Journal of Micromechanics and Microengineering</i> , 2017 , 27, 125015	2	3
21	Effect of carbon on interstitial ordering and magnetic properties of $\text{Fe}_2(\text{N,C})_1$. <i>Journal of Alloys and Compounds</i> , 2017 , 694, 282-291	5.7	3
20	Configurational Statistics of Magnetic Bead Detection with Magnetoresistive Sensors. <i>PLoS ONE</i> , 2015 , 10, e0141115	3.7	3
19	Liquid carry-over in an injection moulded all-polymer chip system for immiscible phase magnetic bead-based solid-phase extraction. <i>Journal of Magnetism and Magnetic Materials</i> , 2015 , 380, 191-196	2.8	3
18	RAT magnet experiment on the Mars Exploration Rovers: Spirit and Opportunity beyond sol 500. <i>Journal of Geophysical Research</i> , 2011 , 116,		3
17	Martensitbildung in Fe-basierten Legierungen während der Erwärmung von Stickstoff-Siedetemperatur*. <i>HTM - Journal of Heat Treatment and Materials</i> , 2016 , 71, 12-19	0.7	3
16	Laser ablated micropillar energy directors for ultrasonic welding of microfluidic systems. <i>Journal of Micromechanics and Microengineering</i> , 2016 , 26, 067001	2	3
15	Superparamagnetic Particles		3
14	Optomagnetic Detection of Rolling Circle Amplification Products. <i>Methods in Molecular Biology</i> , 2020 , 2063, 3-15	1.4	3
13	Bead capture and release on a magnetic sensor in a microfluidic system 2008 ,		2
12	Temperature and Field Dependent Mössbauer Studies of the Metallic Inclusions in Synthetic MDAS Diamond Grits. <i>Hyperfine Interactions</i> , 2001 , 136, 35-44	0.8	2
11	Optimized CoNi Nanoparticle Composition for Curie-Temperature-Controlled Induction-Heated Catalysis. <i>ACS Applied Nano Materials</i> ,	5.6	2
10	Prenormative verification and validation of a protocol for measuring magnetite-maghemite ratios in magnetic nanoparticles. <i>Metrologia</i> ,	2.1	2
9	Effective electrical resistivity in a square array of oriented square inclusions. <i>Nanotechnology</i> , 2021 , 32, 185706	3.4	2
8	On-Chip DNA Analysis of Tuberculosis Based on Magnetic Nanoparticle Clustering Induced by Rolling Circle Amplification Products. <i>IEEE Magnetics Letters</i> , 2020 , 11, 1-5	1.6	1
7	Real-time analysis of switchable nanocomposites of magnesium pyrophosphates and rolling circle amplification products. <i>ChemNanoMat</i> , 2020 , 6, 1276-1282	3.5	1
6	Structure and dynamics of magnetic nanoparticles. <i>Physica B: Condensed Matter</i> , 2000 , 276-278, 830-832.8		1

5	Isothermal Martensite Formation at Sub-Zero Temperatures 2012 , 44-56	1
4	Sensor Systems with Magnetic and Optomagnetic Readout of Rolling Circle Amplification Products 2016 , 123-138	1
3	Correction method for eliminating resistance measurement error due to Joule heating. <i>Review of Scientific Instruments</i> , 2021 , 92, 094711	1.7 0
2	Magnetic Properties of Nanoparticles of Antiferromagnetic Materials 2003 , 347-357	
1	Isothermal Martensite Formation at Sub-Zero Temperatures 2012 , 44-56	