

Christer Johansson

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98
papers

2,954
citations

31
h-index

51
g-index

99
ext. papers

3,263
ext. citations

4.3
avg, IF

4.66
L-index

#	Paper	IF	Citations
98	New materials for micro-scale sensors and actuators. <i>Materials Science and Engineering Reports</i> , 2007 , 56, 1-129	30.9	384
97	Characterisation of Dynabeads [®] by magnetization measurements and Mössbauer spectroscopy. <i>Journal of Magnetism and Magnetic Materials</i> , 2005 , 293, 41-47	2.8	218
96	Biomolecular reactions studied using changes in Brownian rotation dynamics of magnetic particles. <i>Biosensors and Bioelectronics</i> , 2004 , 19, 945-51	11.8	145
95	Crystal size and properties of superparamagnetic iron oxide (SPIO) particles. <i>Magnetic Resonance Imaging</i> , 1997 , 15, 55-67	3.3	118
94	Tailored magnetic nanoparticles for direct and sensitive detection of biomolecules in biological samples. <i>Nano Letters</i> , 2008 , 8, 3423-8	11.5	92
93	Poling and characterization of piezoelectric polymer fibers for use in textile sensors. <i>Sensors and Actuators A: Physical</i> , 2013 , 201, 477-486	3.9	88
92	Synthesis methods to prepare single- and multi-core iron oxide nanoparticles for biomedical applications. <i>Dalton Transactions</i> , 2015 , 44, 2943-52	4.3	84
91	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
90	Attomolar Zika virus oligonucleotide detection based on loop-mediated isothermal amplification and AC susceptometry. <i>Biosensors and Bioelectronics</i> , 2016 , 86, 420-425	11.8	66
89	Magnetic properties of two-dimensional arrays of epitaxial Fe (001) submicron particles. <i>Journal of Applied Physics</i> , 1999 , 85, 2793-2799	2.5	58
88	Motion of nanometer sized magnetic particles in a magnetic field gradient. <i>Journal of Applied Physics</i> , 2008 , 104, 093918	2.5	55
87	Detection of rolling circle amplified DNA molecules using probe-tagged magnetic nanobeads in a portable AC susceptometer. <i>Biosensors and Bioelectronics</i> , 2011 , 29, 195-9	11.8	53
86	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
85	Magnetic characterization of iron oxides for magnetic resonance imaging. <i>Magnetic Resonance in Medicine</i> , 1994 , 31, 268-72	4.4	50
84	Colloidal Flower-Shaped Iron Oxide Nanoparticles: Synthesis Strategies and Coatings. <i>Particle and Particle Systems Characterization</i> , 2017 , 34, 1700094	3.1	49
83	Monte Carlo simulation of magnetic multi-core nanoparticles. <i>Journal of Magnetism and Magnetic Materials</i> , 2009 , 321, 1400-1403	2.8	48
82	Standardisation of magnetic nanoparticles in liquid suspension. <i>Journal Physics D: Applied Physics</i> , 2017 , 50, 383003	3	47

81	Ferromagnetism of the $\text{Me}_3(\text{Fe}(\text{CN})_6)_2 \cdot \text{H}_2\text{O}$ compounds, where $\text{Me}=\text{Ni}$ and Co . <i>Journal of Physics Condensed Matter</i> , 1994 , 6, 5697-5706	1.8	47
80	A new approach for bioassays based on frequency- and time-domain measurements of magnetic nanoparticles. <i>Biosensors and Bioelectronics</i> , 2010 , 25, 1008-13	11.8	44
79	The influence of magnetic anisotropy on the magnetization of small ferromagnetic particles. <i>Journal of Physics Condensed Matter</i> , 1993 , 5, 725-732	1.8	44
78	Effective magnetic moment of magnetic multicore nanoparticles. <i>Physical Review B</i> , 2009 , 80,	3.3	43
77	The influence of particle size and interactions on the magnetization and susceptibility of nanometre-size particles. <i>Journal of Physics Condensed Matter</i> , 1995 , 7, 9269-9277	1.8	43
76	Size-Dependent Relaxation Properties of Monodisperse Magnetite Nanoparticles Measured Over Seven Decades of Frequency by AC Susceptometry. <i>IEEE Transactions on Magnetics</i> , 2013 , 49, 3441-3444 ²		39
75	Whither Magnetic Hyperthermia? A Tentative Roadmap. <i>Materials</i> , 2021 , 14,	3.5	39
74	Preparation of iron oxide nanocrystals by surfactant-free or oleic acid-assisted thermal decomposition of a Fe(III) alkoxide. <i>Journal of Magnetism and Magnetic Materials</i> , 2008 , 320, 781-787	2.8	38
73	The magnetization of magnetic liquids containing amorphous $\text{Fe}_{1-x}\text{C}_x$ particles. <i>Journal of Magnetism and Magnetic Materials</i> , 1993 , 122, 125-128	2.8	38
72	Piezoelectric polymeric bicomponent fibers produced by melt spinning. <i>Journal of Applied Polymer Science</i> , 2012 , 126, 490-500	2.9	36
71	Effective particle magnetic moment of multi-core particles. <i>Journal of Magnetism and Magnetic Materials</i> , 2015 , 380, 221-226	2.8	34
70	Distribution functions of magnetic nanoparticles determined by a numerical inversion method. <i>New Journal of Physics</i> , 2017 , 19, 073012	2.9	33
69	Structural and magnetic properties of multi-core nanoparticles analysed using a generalised numerical inversion method. <i>Scientific Reports</i> , 2017 , 7, 45990	4.9	32
68	Sensitive High Frequency AC Susceptometry in Magnetic Nanoparticle Applications 2010 ,		32
67	Magnetic response of thermally blocked magnetic nanoparticles in a pulsed magnetic field. <i>Journal of Magnetism and Magnetic Materials</i> , 2007 , 311, 166-170	2.8	31
66	Zero-field cooled magnetization of amorphous $\text{Fe}_{1-x}\text{C}_x$ particles-field dependence of the maximum. <i>Journal of Physics Condensed Matter</i> , 1995 , 7, 9263-9268	1.8	31
65	Dipolar-coupled moment correlations in clusters of magnetic nanoparticles. <i>Physical Review B</i> , 2018 , 98,	3.3	31
64	Evolution of Structural and Magnetic Properties of Magnetite Nanoparticles for Biomedical Applications. <i>Crystal Growth and Design</i> , 2010 , 10, 2278-2284	3.5	29

63	Magnetic properties of magnetic liquids with iron-oxide particles – The influence of anisotropy and interactions. <i>Journal of Magnetism and Magnetic Materials</i> , 1997 , 173, 5-14	2.8	25
62	Lanthanide-based susceptibility contrast agents: assessment of the magnetic properties. <i>Magnetic Resonance in Medicine</i> , 1996 , 35, 201-6	4.4	25
61	Characterization of fine particles using optomagnetic measurements. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 8802-8814	3.6	24
60	Combined Magnetoliposome Formation and Drug Loading in One Step for Efficient Alternating Current-Magnetic Field Remote-Controlled Drug Release. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 4295-4307	9.5	23
59	Analysis of AC Susceptibility Spectra for the Characterization of Magnetic Nanoparticles. <i>IEEE Transactions on Magnetics</i> , 2017 , 53, 1-4	2	21
58	Functionalized magnetic particles for water treatment. <i>Heliyon</i> , 2019 , 5, e02325	3.6	21
57	Encapsulation of methotrexate loaded magnetic microcapsules for magnetic drug targeting and controlled drug release. <i>Journal of Magnetism and Magnetic Materials</i> , 2015 , 380, 285-294	2.8	19
56	Influence of clustering on the magnetic properties and hyperthermia performance of iron oxide nanoparticles. <i>Nanotechnology</i> , 2018 , 29, 425705	3.4	19
55	Size analysis of single-core magnetic nanoparticles. <i>Journal of Magnetism and Magnetic Materials</i> , 2017 , 427, 19-24	2.8	19
54	Magnetic tracer-particle tracking in a fluid dynamically down-scaled bubbling fluidized bed. <i>Fuel Processing Technology</i> , 2015 , 138, 368-377	7.2	18
53	Fast and Sensitive Measurement of Specific Antigen-Antibody Binding Reactions With Magnetic Nanoparticles and HTS SQUID. <i>IEEE Transactions on Applied Superconductivity</i> , 2009 , 19, 848-852	1.8	17
52	Particle interaction effects in systems of ultrafine iron oxide particles. <i>Nuclear Instruments & Methods in Physics Research B</i> , 1993 , 76, 138-139	1.2	17
51	Modelling the effect of different core sizes and magnetic interactions inside magnetic nanoparticles on hyperthermia performance. <i>Journal of Magnetism and Magnetic Materials</i> , 2019 , 477, 198-202	2.8	17
50	Experimental mixtures of superparamagnetic and single-domain magnetite with respect to Day-Dunlop plots. <i>Geochemistry, Geophysics, Geosystems</i> , 2015 , 16, 1739-1752	3.6	16
49	Chip-Based Measurements of Brownian Relaxation of Magnetic Beads Using a Planar Hall Effect Magnetic Field Sensor 2010 ,		16
48	Magnetic and mechanical coupling between ultrafine maghemite particles. <i>Journal of Magnetism and Magnetic Materials</i> , 1995 , 140-144, 409-410	2.8	16
47	Colossal Anisotropy of the Dynamic Magnetic Susceptibility in Low-Dimensional Nanocube Assemblies. <i>ACS Nano</i> , 2018 , 12, 1403-1412	16.7	15
46	Brownian motion of aggregating nanoparticles studied by photon correlation spectroscopy and measurements of dynamic magnetic properties. <i>Analytica Chimica Acta</i> , 2006 , 573-574, 138-46	6.6	15

45	Polymer/Iron Oxide Nanoparticle Composites--A Straight Forward and Scalable Synthesis Approach. <i>International Journal of Molecular Sciences</i> , 2015 , 16, 19752-68	6.3	14
44	Magnetic hyperthermia with FeO nanoparticles.. <i>RSC Advances</i> , 2020 , 10, 28786-28797	3.7	14
43	Layer-by-layer assembled magnetic prednisolone microcapsules (MPC) for controlled and targeted drug release at rheumatoid arthritic joints. <i>Journal of Magnetism and Magnetic Materials</i> , 2017 , 427, 258-267	2.8	13
42	High field magnetization of the colloidal Mn ₂ N ferrite. <i>Journal of Magnetism and Magnetic Materials</i> , 1999 , 201, 95-97	2.8	13
41	Dipolar Spin Ice States with a Fast Monopole Hopping Rate in CdEr ₂ X ₄ (X=Se, S). <i>Physical Review Letters</i> , 2018 , 120, 137201	7.4	12
40	Comment on Macroscopic Resonant Tunneling of Magnetization in Ferritin <i>Physical Review Letters</i> , 1998 , 81, 735-735	7.4	12
39	Sensitive magnetic biodetection using magnetic multi-core nanoparticles and RCA coils. <i>Journal of Magnetism and Magnetic Materials</i> , 2017 , 427, 14-18	2.8	11
38	Particle size- and concentration-dependent separation of magnetic nanoparticles. <i>Journal of Magnetism and Magnetic Materials</i> , 2017 , 427, 320-324	2.8	11
37	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
36	Volume-amplified magnetic bioassay integrated with microfluidic sample handling and high- SQUID magnetic readout. <i>APL Bioengineering</i> , 2018 , 2, 016102	6.6	10
35	Magnetic properties of nanoparticles as a function of their spatial distribution on liposomes and cells. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 17829-17838	3.6	10
34	Inter-particle interactions and the magnetocaloric effect in a sample of ultrafine particles in Hg. <i>Journal of Physics Condensed Matter</i> , 1997 , 9, 7173-7188	1.8	10
33	Magnetic properties of epitaxial Ni (001) films and sub-micron particles. <i>Journal of Magnetism and Magnetic Materials</i> , 2001 , 236, 139-150	2.8	9
32	The Anisotropy of the AC Susceptibility of Immobilized Magnetic Nanoparticles The Influence of Intra-Potential-Well Contribution on the AC Susceptibility Spectrum. <i>IEEE Transactions on Magnetics</i> , 2017 , 53, 1-4	2	8
31	Homogeneous Differential Magnetic Assay. <i>ACS Sensors</i> , 2019 , 4, 2381-2388	9.2	8
30	Structural and magnetic properties of Me ₂ [Fe(CN) ₆] compounds, where Me are 3d transition metals. <i>Journal of Magnetism and Magnetic Materials</i> , 1994 , 138, 281-286	2.8	8
29	Magnetization and Mössbauer study of partially oxidized iron cluster films deposited on HOPG. <i>Journal of Magnetism and Magnetic Materials</i> , 2014 , 367, 40-46	2.8	6
28	Deposited nano-metre sized iron clusters. <i>Scripta Materialia</i> , 1999 , 12, 287-290		6

27	High-field magnetization of magnetic liquids containing amorphous iron-carbon particles. <i>Journal of Magnetism and Magnetic Materials</i> , 1994 , 134, 25-28	2.8	6
26	Interaction effects in the dynamic response of magnetic liquids. <i>Journal of Magnetism and Magnetic Materials</i> , 1991 , 101, 45-46	2.8	6
25	Tuning the dynamics in Fe ₃ O ₄ nanoparticles for hyperthermia optimization. <i>Applied Physics Letters</i> , 2020 , 117, 073702	3.4	6
24	Field-induced magnetic moments in a metastable iron-mercury alloy. <i>Journal of Magnetism and Magnetic Materials</i> , 1996 , 164, 327-334	2.8	5
23	Miniaturized wireless water content and conductivity soil sensor system. <i>Computers and Electronics in Agriculture</i> , 2019 , 167, 105076	6.5	5
22	Development of a Sensitive Induction-Based Magnetic Nanoparticle Biodetection Method. <i>Nanomaterials</i> , 2018 , 8,	5.4	5
21	Design and implementation of a low temperature, inductance based high frequency alternating current susceptometer. <i>Review of Scientific Instruments</i> , 2019 , 90, 073908	1.7	4
20	The need for stable, mono-dispersed, and biofunctional magnetic nanoparticles for one-step magnetic immunoassays. <i>Journal of Physics: Conference Series</i> , 2010 , 200, 122006	0.3	4
19	Magnetic properties of Cr ₂ [Ni ₂ (CN) ₄] ₃ . <i>Journal of Magnetism and Magnetic Materials</i> , 1994 , 136, 45-48	2.8	4
18	. <i>IEEE Transactions on Magnetics</i> , 1994 , 30, 1064-1066	2	4
17	The effect of dipolar interactions in clusters of magnetic nanocrystals. <i>Journal of Physics: Conference Series</i> , 2010 , 200, 072085	0.3	3
16	Magnetic interaction between ultrafine amorphous Fe _{1-x} C _x alloy particles in ferrofluids. <i>Hyperfine Interactions</i> , 1994 , 93, 1433-1437	0.8	3
15	European Research on Magnetic Nanoparticles for Biomedical Applications: Standardisation Aspects. <i>Advances in Intelligent Systems and Computing</i> , 2020 , 316-326	0.4	3
14	Characterization of Binding of Magnetic Nanoparticles to Rolling Circle Amplification Products by Turn-On Magnetic Assay. <i>Biosensors</i> , 2019 , 9,	5.9	2
13	Preparation and characterisation of a sensing system for wireless pH measurements in vivo, in a rumen of a cow. <i>Sensors and Actuators B: Chemical</i> , 2017 , 242, 637-644	8.5	2
12	Determination of Nanocrystal Size Distribution in Magnetic Multicore Particles Including Dipole-Dipole Interactions and Magnetic Anisotropy: a Monte Carlo Study 2010 ,		2
11	Magnetic and structural properties of Me ₂ [Me ₂ (CN) ₄] · mH ₂ O compounds, where Me ₂ are 3d transition metals. <i>Journal of Magnetism and Magnetic Materials</i> , 1996 , 157-158, 499-500	2.8	2
10	Field-induced anisotropy in a magnetic liquid. <i>Journal of Magnetism and Magnetic Materials</i> , 1996 , 157-158, 599-600	2.8	2

9	AC susceptometry and magnetorelaxometry for magnetic nanoparticle based biomolecule detection. <i>IFMBE Proceedings</i> , 2009 , 2317-2321	0.2	2
8	Nanorheological studies of xanthan/water solutions using magnetic nanoparticles. <i>Journal of Magnetism and Magnetic Materials</i> , 2019 , 473, 268-271	2.8	2
7	Noncollinear spin structure in Zn _{0.825} Cu _{0.175} Cr ₂ Se ₄ . <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1994 , 192, 429-434	2.3	1
6	Revealing a masked Verwey transition in nanoparticles of coexisting Fe-oxide phases.. <i>RSC Advances</i> , 2020 , 11, 390-396	3.7	1
5	Identifying the presence of magnetite in an ensemble of iron-oxide nanoparticles: a comparative neutron diffraction study between bulk and nanoscale. <i>Nanoscale Advances</i> , 2021 , 3, 3491-3496	5.1	1
4	Tunable spring balanced magnetic energy harvester for low frequencies and small displacements. <i>Energy Conversion and Management</i> , 2022 , 259, 115568	10.6	1
3	High magnetoelectric coupling of Metglas and P(VDF-TrFE) laminates.. <i>Scientific Reports</i> , 2022 , 12, 5233	4.9	0
2	Cast Iron Components with Intelligence. <i>Materials Science Forum</i> , 2018 , 925, 512-519	0.4	
1	A magnetic phase transition studied with high-Tc SQUIDs. <i>Journal of Magnetism and Magnetic Materials</i> , 1998 , 177-181, 519-520	2.8	