

Christer Johansson

List of Publications by Year in descending order

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99
papers

3,549
citations

117453

34
h-index

143772

57
g-index

100
all docs

100
docs citations

100
times ranked

4573
citing authors

#	ARTICLE	IF	CITATIONS
1	New materials for micro-scale sensors and actuators. <i>Materials Science and Engineering Reports</i> , 2007, 56, 1-129.	14.8	438
2	Characterisation of Dynabeads® by magnetization measurements and Mössbauer spectroscopy. <i>Journal of Magnetism and Magnetic Materials</i> , 2005, 293, 41-47.	1.0	244
3	Biomolecular reactions studied using changes in Brownian rotation dynamics of magnetic particles. <i>Biosensors and Bioelectronics</i> , 2004, 19, 945-951.	5.3	161
4	Crystal size and properties of superparamagnetic iron oxide (SPIO) particles. <i>Magnetic Resonance Imaging</i> , 1997, 15, 55-67.	1.0	128
5	Poling and characterization of piezoelectric polymer fibers for use in textile sensors. <i>Sensors and Actuators A: Physical</i> , 2013, 201, 477-486.	2.0	110
6	Relating Magnetic Properties and High Hyperthermia Performance of Iron Oxide Nanoflowers. <i>Journal of Physical Chemistry C</i> , 2018, 122, 3068-3077.	1.5	107
7	Tailored Magnetic Nanoparticles for Direct and Sensitive Detection of Biomolecules in Biological Samples. <i>Nano Letters</i> , 2008, 8, 3423-3428.	4.5	99
8	Synthesis methods to prepare single- and multi-core iron oxide nanoparticles for biomedical applications. <i>Dalton Transactions</i> , 2015, 44, 2943-2952.	1.6	96
9	Attomolar Zika virus oligonucleotide detection based on loop-mediated isothermal amplification and AC susceptometry. <i>Biosensors and Bioelectronics</i> , 2016, 86, 420-425.	5.3	79
10	Whither Magnetic Hyperthermia? A Tentative Roadmap. <i>Materials</i> , 2021, 14, 706.	1.3	76
11	Motion of nanometer sized magnetic particles in a magnetic field gradient. <i>Journal of Applied Physics</i> , 2008, 104, .	1.1	72
12	Colloidal Flower-Shaped Iron Oxide Nanoparticles: Synthesis Strategies and Coatings. <i>Particle and Particle Systems Characterization</i> , 2017, 34, 1700094.	1.2	71
13	Magnetic characterization of iron oxides for magnetic resonance imaging. <i>Magnetic Resonance in Medicine</i> , 1994, 31, 268-272.	1.9	62
14	Monte Carlo simulation of magnetic multi-core nanoparticles. <i>Journal of Magnetism and Magnetic Materials</i> , 2009, 321, 1400-1403.	1.0	60
15	Detection of rolling circle amplified DNA molecules using probe-tagged magnetic nanobeads in a portable AC susceptometer. <i>Biosensors and Bioelectronics</i> , 2011, 29, 195-199.	5.3	59
16	Classification of Magnetic Nanoparticle Systems—Synthesis, Standardization and Analysis Methods in the NanoMag Project. <i>International Journal of Molecular Sciences</i> , 2015, 16, 20308-20325.	1.8	59
17	Magnetic properties of two-dimensional arrays of epitaxial Fe (001) submicron particles. <i>Journal of Applied Physics</i> , 1999, 85, 2793-2799.	1.1	58
18	Standardisation of magnetic nanoparticles in liquid suspension. <i>Journal Physics D: Applied Physics</i> , 2017, 50, 383003.	1.3	56

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19	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.	0.7	51
20	Effective magnetic moment of magnetic multicore nanoparticles. <i>Physical Review B</i> , 2009, 80, .	1.1	50
21	The influence of magnetic anisotropy on the magnetization of small ferromagnetic particles. <i>Journal of Physics Condensed Matter</i> , 1993, 5, 725-732.	0.7	47
22	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.	0.7	47
23	A new approach for bioassays based on frequency- and time-domain measurements of magnetic nanoparticles. <i>Biosensors and Bioelectronics</i> , 2010, 25, 1008-1013.	5.3	46
24	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.	1.2	45
25	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.	1.0	42
26	Distribution functions of magnetic nanoparticles determined by a numerical inversion method. <i>New Journal of Physics</i> , 2017, 19, 073012.	1.2	42
27	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.	1.0	41
28	Piezoelectric polymeric bicomponent fibers produced by melt spinning. <i>Journal of Applied Polymer Science</i> , 2012, 126, 490-500.	1.3	41
29	Structural and magnetic properties of multi-core nanoparticles analysed using a generalised numerical inversion method. <i>Scientific Reports</i> , 2017, 7, 45990.	1.6	41
30	Effective particle magnetic moment of multi-core particles. <i>Journal of Magnetism and Magnetic Materials</i> , 2015, 380, 221-226.	1.0	40
31	Sensitive High Frequency AC Susceptometry in Magnetic Nanoparticle Applications. <i>AIP Conference Proceedings</i> , 2010, , .	0.3	39
32	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.	4.0	39
33	Dipolar-coupled moment correlations in clusters of magnetic nanoparticles. <i>Physical Review B</i> , 2018, 98, .	1.1	37
34	Magnetic hyperthermia with $\mu\text{-Fe}_2\text{O}_3$ nanoparticles. <i>RSC Advances</i> , 2020, 10, 28786-28797.	1.7	36
35	Magnetic response of thermally blocked magnetic nanoparticles in a pulsed magnetic field. <i>Journal of Magnetism and Magnetic Materials</i> , 2007, 311, 166-170.	1.0	34
36	Functionalized magnetic particles for water treatment. <i>Heliyon</i> , 2019, 5, e02325.	1.4	34

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37	Zero-field cooled magnetization of amorphous Fe _{1-x} C _x particles-field dependence of the maximum. <i>Journal of Physics Condensed Matter</i> , 1995, 7, 9263-9268.	0.7	32
38	Magnetic tracer-particle tracking in a fluid dynamically down-scaled bubbling fluidized bed. <i>Fuel Processing Technology</i> , 2015, 138, 368-377.	3.7	32
39	Influence of clustering on the magnetic properties and hyperthermia performance of iron oxide nanoparticles. <i>Nanotechnology</i> , 2018, 29, 425705.	1.3	31
40	Evolution of Structural and Magnetic Properties of Magnetite Nanoparticles for Biomedical Applications. <i>Crystal Growth and Design</i> , 2010, 10, 2278-2284.	1.4	30
41	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.	1.0	30
42	Characterization of fine particles using optomagnetic measurements. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 8802-8814.	1.3	29
43	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.	1.0	28
44	Lanthanide-based susceptibility contrast agents: Assessment of the magnetic properties. <i>Magnetic Resonance in Medicine</i> , 1996, 35, 201-206.	1.9	26
45	Analysis of AC Susceptibility Spectra for the Characterization of Magnetic Nanoparticles. <i>IEEE Transactions on Magnetics</i> , 2017, 53, 1-4.	1.2	24
46	Size analysis of single-core magnetic nanoparticles. <i>Journal of Magnetism and Magnetic Materials</i> , 2017, 427, 19-24.	1.0	23
47	Experimental mixtures of superparamagnetic and single-domain magnetite with respect to Day-Dunlop plots. <i>Geochemistry, Geophysics, Geosystems</i> , 2015, 16, 1739-1752.	1.0	20
48	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.	1.0	20
49	Particle interaction effects in systems of ultrafine iron oxide particles. <i>Nuclear Instruments & Methods in Physics Research B</i> , 1993, 76, 138-139.	0.6	18
50	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.	1.1	18
51	Polymer/Iron Oxide Nanoparticle Composites "A Straight Forward and Scalable Synthesis Approach. <i>International Journal of Molecular Sciences</i> , 2015, 16, 19752-19768.	1.8	18
52	Colossal Anisotropy of the Dynamic Magnetic Susceptibility in Low-Dimensional Nanocube Assemblies. <i>ACS Nano</i> , 2018, 12, 1403-1412.	7.3	18
53	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.	1.3	18
54	Chip-Based Measurements of Brownian Relaxation of Magnetic Beads Using a Planar Hall Effect Magnetic Field Sensor. <i>AIP Conference Proceedings</i> , 2010, , .	0.3	17

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55	Particle size- and concentration-dependent separation of magnetic nanoparticles. Journal of Magnetism and Magnetic Materials, 2017, 427, 320-324.	1.0	17
56	Magnetic and mechanical coupling between ultrafine maghemite particles. Journal of Magnetism and Magnetic Materials, 1995, 140-144, 409-410.	1.0	16
57	Brownian motion of aggregating nanoparticles studied by photon correlation spectroscopy and measurements of dynamic magnetic properties. Analytica Chimica Acta, 2006, 573-574, 138-146.	2.6	16
58	Layer-by-layer assembled magnetic prednisolone microcapsules (MPC) for controlled and targeted drug release at rheumatoid arthritic joints. Journal of Magnetism and Magnetic Materials, 2017, 427, 258-267.	1.0	16
59	Supernanospin Ice States with a Fast Monopole Hopping Rate in CdEr_2		

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73	Structural and magnetic properties of $\text{Me}_2[\text{Fe}(\text{CN})_6]$ compounds, where Me are 3d transition metals. Journal of Magnetism and Magnetic Materials, 1994, 138, 281-286.	1.0	8
74	Development of a Sensitive Induction-Based Magnetic Nanoparticle Biodetection Method. Nanomaterials, 2018, 8, 887.	1.9	8
75	Interaction effects in the dynamic response of magnetic liquids. Journal of Magnetism and Magnetic Materials, 1991, 101, 45-46.	1.0	7
76	High-field magnetization of magnetic liquids containing amorphous iron-carbon particles. Journal of Magnetism and Magnetic Materials, 1994, 134, 25-28.	1.0	7
77	High magnetoelectric coupling of Metglas and P(VDF-TrFE) laminates. Scientific Reports, 2022, 12, 5233.	1.6	7
78	Deposited nano-metre sized iron clusters. Scripta Materialia, 1999, 12, 287-290.	0.5	6
79	Magnetic properties of $\text{Cr}_2[\text{Ni}_2(\text{CN})_4]_3$. Journal of Magnetism and Magnetic Materials, 1994, 136, 45-48.	1.0	5
80	Field-induced magnetic moments in a metastable iron-mercury alloy. Journal of Magnetism and Magnetic Materials, 1996, 164, 327-334.	1.0	5
81	Nanorheological studies of xanthan/water solutions using magnetic nanoparticles. Journal of Magnetism and Magnetic Materials, 2019, 473, 268-271.	1.0	5
82	European Research on Magnetic Nanoparticles for Biomedical Applications: Standardisation Aspects. Advances in Intelligent Systems and Computing, 2020, , 316-326.	0.5	5
83	Tunable spring balanced magnetic energy harvester for low frequencies and small displacements. Energy Conversion and Management, 2022, 259, 115568.	4.4	5
84	Influence of sample geometry in a vibrating sample magnetometer. IEEE Transactions on Magnetics, 1994, 30, 1064-1066.	1.2	4
85	The need for stable, mono-dispersed, and biofunctional magnetic nanoparticles for one-step magnetic immunoassays. Journal of Physics: Conference Series, 2010, 200, 122006.	0.3	4
86	Identifying the presence of magnetite in an ensemble of iron-oxide nanoparticles: a comparative neutron diffraction study between bulk and nanoscale. Nanoscale Advances, 2021, 3, 3491-3496.	2.2	4
87	Material Selection Methodology for an Induction Welding Magnetic Susceptor Based on Hysteresis Losses. Advanced Engineering Materials, 2022, 24, .	1.6	4
88	Magnetic interaction between ultrafine amorphous $\text{Fe}_{1-x}\text{C}_x$ alloy particles in ferrofluids. Hyperfine Interactions, 1994, 93, 1433-1437.	0.2	3
89	The effect of dipolar interactions in clusters of magnetic nanocrystals. Journal of Physics: Conference Series, 2010, 200, 072085.	0.3	3
90	Determination of Nanocrystal Size Distribution in Magnetic Multicore Particles Including Dipole-Dipole Interactions and Magnetic Anisotropy: a Monte Carlo Study. AIP Conference Proceedings, 2010, , .	0.3	3

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91	AC susceptometry and magnetorelaxometry for magnetic nanoparticle based biomolecule detection. IFMBE Proceedings, 2009, , 2317-2321.	0.2	3
92	Magnetic and structural properties of $Me^{2+} [Me^{3+}(CN)] \cdot nH_2O$ compounds, where Me^{2+} are 3d transition metals. Journal of Magnetism and Magnetic Materials, 1996, 157-158, 499-500.	1.0	2
93	Field-induced anisotropy in a magnetic liquid. Journal of Magnetism and Magnetic Materials, 1996, 157-158, 599-600.	1.0	2
94	Preparation and characterisation of a sensing system for wireless pH measurements in vivo, in a rumen of a cow. Sensors and Actuators B: Chemical, 2017, 242, 637-644.	4.0	2
95	Characterization of Binding of Magnetic Nanoparticles to Rolling Circle Amplification Products by Turn-On Magnetic Assay. Biosensors, 2019, 9, 109.	2.3	2
96	Noncollinear spin structure in $Zn_{0.825}Cu_{0.175}Cr_2Se_4$. Physics Letters, Section A: General, Atomic and Solid State Physics, 1994, 192, 429-434.	0.9	1
97	Cast Iron Components with Intelligence. Materials Science Forum, 0, 925, 512-519.	0.3	1
98	Revealing a masked Verwey transition in nanoparticles of coexisting Fe-oxide phases. RSC Advances, 2021, 11, 390-396.	1.7	1
99	A magnetic phase transition studied with high-Tc SQUIDs. Journal of Magnetism and Magnetic Materials, 1998, 177-181, 519-520.	1.0	0