

# Annelies Coene

## List of Publications by Year in descending order

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Version: 2024-02-01

26  
papers

474  
citations

686830

13  
h-index

676716

22  
g-index

26  
all docs

26  
docs citations

26  
times ranked

731  
citing authors

#	ARTICLE	IF	CITATIONS
1	Dynamical Magnetic Response of Iron Oxide Nanoparticles Inside Live Cells. ACS Nano, 2018, 12, 2741-2752.	7.3	131
2	Adaptively time stepping the stochastic Landau-Lifshitz-Gilbert equation at nonzero temperature: Implementation and validation in MuMax3. AIP Advances, 2017, 7, .	0.6	76
3	Multi-color magnetic nanoparticle imaging using magnetorelaxometry. Physics in Medicine and Biology, 2017, 62, 3139-3157.	1.6	24
4	Vinamax: a macrospin simulation tool for magnetic nanoparticles. Medical and Biological Engineering and Computing, 2015, 53, 309-317.	1.6	23
5	Adaptive Control of Excitation Coil Arrays for Targeted Magnetic Nanoparticle Reconstruction Using Magnetorelaxometry. IEEE Transactions on Magnetics, 2012, 48, 2842-2845.	1.2	21
6	Model-based optimized steering and focusing of local magnetic particle concentrations for targeted drug delivery. Drug Delivery, 2021, 28, 63-76.	2.5	19
7	Magnetic nanoparticles in theranostic applications. Journal of Applied Physics, 2022, 131, .	1.1	19
8	Regarding the Néel relaxation time constant in magnetorelaxometry. Journal of Applied Physics, 2014, 116, .	1.1	18
9	The effect of the magnetic nanoparticle's size dependence of the relaxation time constant on the specific loss power of magnetic nanoparticle hyperthermia. Journal of Magnetism and Magnetic Materials, 2017, 426, 206-210.	1.0	18
10	Thermal effects on transverse domain wall dynamics in magnetic nanowires. Applied Physics Letters, 2015, 106, .	1.5	16
11	Thermal magnetic noise spectra of nanoparticle ensembles. Applied Physics Letters, 2015, 107, .	1.5	14
12	Interpreting the magnetorelaxometry signal of suspended magnetic nanoparticles with Kaczmarz's algorithm. Journal Physics D: Applied Physics, 2017, 50, 195002.	1.3	14
13	Quantitative model selection for enhanced magnetic nanoparticle imaging in magnetorelaxometry. Medical Physics, 2015, 42, 6853-6862.	1.6	13
14	Uncertainty of reconstructions of spatially distributed magnetic nanoparticles under realistic noise conditions. Journal of Applied Physics, 2014, 115, .	1.1	10
15	Advanced analysis of magnetic nanoflower measurements to leverage their use in biomedicine. Nanoscale Advances, 2021, 3, 1633-1645.	2.2	9
16	Simultaneous Coercivity and Size Determination of Magnetic Nanoparticles. Sensors, 2020, 20, 3882.	2.1	8
17	Quantitative reconstruction of a magnetic nanoparticle distribution using a non-negativity constraint. Biomedizinische Technik, 2013, 58 Suppl 1, .	0.9	7
18	The complementarity and similarity of magnetorelaxometry and thermal magnetic noise spectroscopy for magnetic nanoparticle characterization. Journal Physics D: Applied Physics, 2017, 50, 085004.	1.3	7

#	ARTICLE	IF	CITATIONS
19	Quantitative estimation of magnetic nanoparticle distributions in one dimension using low-frequency continuous wave electron paramagnetic resonance. <i>Journal Physics D: Applied Physics</i> , 2013, 46, 245002.	1.3	6
20	Toward 2D and 3D imaging of magnetic nanoparticles using EPR measurements. <i>Medical Physics</i> , 2015, 42, 5007-5014.	1.6	6
21	Evaluating selection criteria for optimized excitation coils in magnetorelaxometry imaging. <i>Physics in Medicine and Biology</i> , 2021, 66, 235001.	1.6	5
22	Robustness Assessment of 1-D Electron Paramagnetic Resonance for Improved Magnetic Nanoparticle Reconstructions. <i>IEEE Transactions on Biomedical Engineering</i> , 2015, 62, 1635-1643.	2.5	3
23	Model-based optimal design of a magnetic nanoparticle tomographic imaging setup. , 2018, , .		3
24	Magnetic nanoparticle imaging using multiple electron paramagnetic resonance activation sequences. <i>Journal of Applied Physics</i> , 2015, 117, 17D105.	1.1	2
25	Magnetic measurement methods to probe nanoparticleâ€“matrix interactions. <i>ChemistrySelect</i> , 2023, 8, 1273-1303.	0.7	2
26	Sensor fusion of electron paramagnetic resonance and magnetorelaxometry data for quantitative magnetic nanoparticle imaging. <i>Journal Physics D: Applied Physics</i> , 2017, 50, 085008.	1.3	0