

# Annelies Coene

## 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.

25  
papers

307  
citations

10  
h-index

16  
g-index

26  
ext. papers

381  
ext. citations

3.7  
avg, IF

3.55  
L-index

#	Paper	IF	Citations
25	Dynamical Magnetic Response of Iron Oxide Nanoparticles Inside Live Cells. <i>ACS Nano</i> , <b>2018</b> , 12, 2741-2752	15.7	85
24	Adaptively time stepping the stochastic Landau-Lifshitz-Gilbert equation at nonzero temperature: Implementation and validation in MuMax3. <i>AIP Advances</i> , <b>2017</b> , 7, 125010	1.5	39
23	Regarding the N <sub>1</sub> relaxation time constant in magnetorelaxometry. <i>Journal of Applied Physics</i> , <b>2014</b> , 116, 163914	2.5	17
22	Adaptive Control of Excitation Coil Arrays for Targeted Magnetic Nanoparticle Reconstruction Using Magnetorelaxometry. <i>IEEE Transactions on Magnetics</i> , <b>2012</b> , 48, 2842-2845	2	17
21	Multi-color magnetic nanoparticle imaging using magnetorelaxometry. <i>Physics in Medicine and Biology</i> , <b>2017</b> , 62, 3139-3157	3.8	16
20	Vinamax: a macrospin simulation tool for magnetic nanoparticles. <i>Medical and Biological Engineering and Computing</i> , <b>2015</b> , 53, 309-17	3.1	16
19	Thermal effects on transverse domain wall dynamics in magnetic nanowires. <i>Applied Physics Letters</i> , <b>2015</b> , 106, 202401	3.4	14
18	The effect of the magnetic nanoparticle size dependence of the relaxation time constant on the specific loss power of magnetic nanoparticle hyperthermia. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2017</b> , 426, 206-210	2.8	12
17	Thermal magnetic noise spectra of nanoparticle ensembles. <i>Applied Physics Letters</i> , <b>2015</b> , 107, 222401	3.4	12
16	Quantitative model selection for enhanced magnetic nanoparticle imaging in magnetorelaxometry. <i>Medical Physics</i> , <b>2015</b> , 42, 6853-62	4.4	10
15	Interpreting the magnetorelaxometry signal of suspended magnetic nanoparticles with Kaczmarz algorithm. <i>Journal Physics D: Applied Physics</i> , <b>2017</b> , 50, 195002	3	9
14	Model-based optimized steering and focusing of local magnetic particle concentrations for targeted drug delivery. <i>Drug Delivery</i> , <b>2021</b> , 28, 63-76	7	8
13	The complementarity and similarity of magnetorelaxometry and thermal magnetic noise spectroscopy for magnetic nanoparticle characterization. <i>Journal Physics D: Applied Physics</i> , <b>2017</b> , 50, 085004	3	7
12	Uncertainty of reconstructions of spatially distributed magnetic nanoparticles under realistic noise conditions. <i>Journal of Applied Physics</i> , <b>2014</b> , 115, 17B509	2.5	7
11	Toward 2D and 3D imaging of magnetic nanoparticles using EPR measurements. <i>Medical Physics</i> , <b>2015</b> , 42, 5007-14	4.4	6
10	Quantitative reconstruction of a magnetic nanoparticle distribution using a non-negativity constraint. <i>Biomedizinische Technik</i> , <b>2013</b> , 58 Suppl 1,	1.3	6
9	Advanced analysis of magnetic nanoflower measurements to leverage their use in biomedicine. <i>Nanoscale Advances</i> , <b>2021</b> , 3, 1633-1645	5.1	6

8	Quantitative estimation of magnetic nanoparticle distributions in one dimension using low-frequency continuous wave electron paramagnetic resonance. <i>Journal Physics D: Applied Physics</i> , <b>2013</b> , 46, 245002	3	5
7	Simultaneous Coercivity and Size Determination of Magnetic Nanoparticles. <i>Sensors</i> , <b>2020</b> , 20,	3.8	5
6	Robustness assessment of 1-d electron paramagnetic resonance for improved magnetic nanoparticle reconstructions. <i>IEEE Transactions on Biomedical Engineering</i> , <b>2015</b> , 62, 1635-43	5	3
5	Magnetic nanoparticles in theranostic applications. <i>Journal of Applied Physics</i> , <b>2022</b> , 131, 160902	2.5	3
4	Magnetic nanoparticle imaging using multiple electron paramagnetic resonance activation sequences. <i>Journal of Applied Physics</i> , <b>2015</b> , 117, 17D105	2.5	2
3	Model-based optimal design of a magnetic nanoparticle tomographic imaging setup <b>2018</b> ,		1
2	Evaluating selection criteria for optimized excitation coils in magnetorelaxometry imaging. <i>Physics in Medicine and Biology</i> , <b>2021</b> , 66,	3.8	1
1	Sensor fusion of electron paramagnetic resonance and magnetorelaxometry data for quantitative magnetic nanoparticle imaging. <i>Journal Physics D: Applied Physics</i> , <b>2017</b> , 50, 085008	3	