

# Mattias Strömberg

## List of Publications by Year in descending order

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32  
papers

929  
citations

394286

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501076

28  
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times ranked

1141  
citing authors

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 1  | Extraction of Backscattering and Absorption Coefficients of Magnetite Nanosphere Composites from Light-Scattering Measurements: Implications for Optomagnetic Sensing. ACS Applied Nano Materials, 2020, 3, 11172-11183. | 2.4 | 3         |
| 2  | Insights into the Formation of DNA-Magnetic Nanoparticle Hybrid Structures: Correlations between Morphological Characterization and Output from Magnetic Biosensor Measurements. ACS Sensors, 2020, 5, 3510-3519.        | 4.0 | 14        |
| 3  | General Method for Determining Light Scattering and Absorption of Nanoparticle Composites. Advanced Optical Materials, 2019, 7, 1801315.   | 3.6 | 10        |
| 4  | Self-Assembled Magnetic Nanoparticle-Graphene Oxide Nanotag for Optomagnetic Detection of DNA. ACS Applied Nano Materials, 2019, 2, 1683-1690.   | 2.4 | 21        |
| 5  | On-Particle Rolling Circle Amplification-Based Core-Satellite Magnetic Superstructures for MicroRNA Detection. ACS Applied Materials & Interfaces, 2018, 10, 2957-2964.  | 4.0 | 39        |
| 6  | MicroRNA Detection through DNAzyme-Mediated Disintegration of Magnetic Nanoparticle Assemblies. ACS Sensors, 2018, 3, 1884-1891.   | 4.0 | 35        |
| 7  | Ferromagnetic Resonance Biosensor for Homogeneous and Volumetric Detection of DNA. ACS Sensors, 2018, 3, 1093-1101.  | 4.0 | 33        |
| 8  | Optomagnetic Detection of MicroRNA Based on Duplex-Specific Nuclease-Assisted Target Recycling and Multilayer Core-Satellite Magnetic Superstructures. ACS Nano, 2017, 11, 1798-1806.                                    | 7.3 | 67        |
| 9  | Shape anisotropy enhanced optomagnetic measurement for prostate-specific antigen detection via magnetic chain formation. Biosensors and Bioelectronics, 2017, 98, 285-291.   | 5.3 | 14        |
| 10 | Sequence-specific validation of LAMP amplicons in real-time optomagnetic detection of Dengue serotype 2 synthetic DNA. Analyst, The, 2017, 142, 3441-3450.   | 1.7 | 25        |
| 11 | Comparison of optomagnetic and AC susceptibility readouts in a magnetic nanoparticle agglutination assay for detection of C-reactive protein. Biosensors and Bioelectronics, 2017, 88, 94-100.                           | 5.3 | 35        |
| 12 | Attomolar Zika virus oligonucleotide detection based on loop-mediated isothermal amplification and AC susceptometry. Biosensors and Bioelectronics, 2016, 86, 420-425.   | 5.3 | 79        |
| 13 | Rapid Newcastle Disease Virus Detection Based on Loop-Mediated Isothermal Amplification and Optomagnetic Readout. ACS Sensors, 2016, 1, 1228-1234.   | 4.0 | 29        |
| 14 | Multi-scale magnetic nanoparticle based optomagnetic bioassay for sensitive DNA and bacteria detection. Analytical Methods, 2016, 8, 5009-5016.  | 1.3 | 22        |
| 15 | Blu-ray optomagnetic measurement based competitive immunoassay for Salmonella detection. Biosensors and Bioelectronics, 2016, 77, 32-39.   | 5.3 | 36        |
| 16 | Sensor Systems with Magnetic and Optomagnetic Readout of Rolling Circle Amplification Products. , 2016, , 123-138.   |     | 1         |
| 17 | Magnetic nanobeads present during enzymatic amplification and labeling for a simplified DNA detection protocol based on AC susceptometry. AIP Advances, 2015, 5, 127139.   | 0.6 | 0         |
| 18 | Optomagnetic readout enables easy, rapid, and cost-efficient qualitative bplex detection of bacterial DNA sequences. Biotechnology Journal, 2015, 10, 469-472.   | 1.8 | 6         |

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 19 | Turn-on optomagnetic bacterial DNA sequence detection using volume-amplified magnetic nanobeads. <i>Biosensors and Bioelectronics</i> , 2015, 66, 405-411.   | 5.3 | 33        |
| 20 | Magnetophoretic Transport Line System for Rapid On-Chip Attomole Protein Detection. <i>Langmuir</i> , 2015, 31, 10296-10302.   | 1.6 | 8         |
| 21 | Novel Readout Method for Molecular Diagnostic Assays Based on Optical Measurements of Magnetic Nanobead Dynamics. <i>Analytical Chemistry</i> , 2015, 87, 1622-1629.   | 3.2 | 60        |
| 22 | A magnetic nanobead-based bioassay provides sensitive detection of single and biplex bacterial DNA using a portable AC susceptometer. <i>Biotechnology Journal</i> , 2014, 9, 137-145.                                 | 1.8 | 25        |
| 23 | 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, 2877-2882.  | 5.2 | 37        |
| 24 | Bead magnetorelaxometry with an on-chip magnetoresistive sensor. <i>Lab on A Chip</i> , 2011, 11, 296-302.   | 3.1 | 40        |
| 25 | Immobilization of oligonucleotide-functionalized magnetic nanobeads in DNA-coils studied by electron microscopy and atomic force microscopy. <i>Materials Research Society Symposia Proceedings</i> , 2011, 1355, 1.   | 0.1 | 1         |
| 26 | Molecular diagnostics using magnetic nanobeads. <i>Journal of Physics: Conference Series</i> , 2010, 200, 122011.  | 0.3 | 0         |
| 27 | Sensitive Detection of Bacterial DNA by Magnetic Nanoparticles. <i>Analytical Chemistry</i> , 2010, 82, 9138-9140.   | 3.2 | 31        |
| 28 | Investigation of Immobilization of Functionalized Magnetic Nanobeads in Rolling Circle Amplified DNA Coils. <i>Journal of Physical Chemistry B</i> , 2010, 114, 3707-3713.   | 1.2 | 23        |
| 29 | Real-Space Transmission Electron Microscopy Investigations of Attachment of Functionalized Magnetic Nanoparticles to DNA-Coils Acting as a Biosensor. <i>Journal of Physical Chemistry B</i> , 2010, 114, 13255-13262. | 1.2 | 24        |
| 30 | BIONANOMAGNETISM. , 2010, , 315-341.   |     | 1         |
| 31 | Multiplex Detection of DNA Sequences Using the Volume-Amplified Magnetic Nanobead Detection Assay. <i>Analytical Chemistry</i> , 2009, 81, 3398-3406.  | 3.2 | 56        |
| 32 | Sensitive Molecular Diagnostics Using Volume-Amplified Magnetic Nanobeads. <i>Nano Letters</i> , 2008, 8, 816-821.   | 4.5 | 117       |