

Mattias Strömberg

List of Publications by Year in descending order

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papers

929
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394286

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33
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33
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1141
citing authors

#	ARTICLE	IF	CITATIONS
1	Sensitive Molecular Diagnostics Using Volume-Amplified Magnetic Nanobeads. <i>Nano Letters</i> , 2008, 8, 816-821.	4.5	117
2	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
3	Optomagnetic Detection of MicroRNA Based on Duplex-Specific Nuclease-Assisted Target Recycling and Multilayer Core-Satellite Magnetic Superstructures. <i>ACS Nano</i> , 2017, 11, 1798-1806.	7.3	67
4	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
5	Multiplex Detection of DNA Sequences Using the Volume-Amplified Magnetic Nanobead Detection Assay. <i>Analytical Chemistry</i> , 2009, 81, 3398-3406.	3.2	56
6	Bead magnetorelaxometry with an on-chip magnetoresistive sensor. <i>Lab on A Chip</i> , 2011, 11, 296-302.	3.1	40
7	On-Particle Rolling Circle Amplification-Based Core-Satellite Magnetic Superstructures for MicroRNA Detection. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 2957-2964.	4.0	39
8	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
9	Blu-ray optomagnetic measurement based competitive immunoassay for Salmonella detection. <i>Biosensors and Bioelectronics</i> , 2016, 77, 32-39.	5.3	36
10	Comparison of optomagnetic and AC susceptibility readouts in a magnetic nanoparticle agglutination assay for detection of C-reactive protein. <i>Biosensors and Bioelectronics</i> , 2017, 88, 94-100.	5.3	35
11	MicroRNA Detection through DNAzyme-Mediated Disintegration of Magnetic Nanoparticle Assemblies. <i>ACS Sensors</i> , 2018, 3, 1884-1891.	4.0	35
12	Turn-on optomagnetic bacterial DNA sequence detection using volume-amplified magnetic nanobeads. <i>Biosensors and Bioelectronics</i> , 2015, 66, 405-411.	5.3	33
13	Ferromagnetic Resonance Biosensor for Homogeneous and Volumetric Detection of DNA. <i>ACS Sensors</i> , 2018, 3, 1093-1101.	4.0	33
14	Sensitive Detection of Bacterial DNA by Magnetic Nanoparticles. <i>Analytical Chemistry</i> , 2010, 82, 9138-9140.	3.2	31
15	Rapid Newcastle Disease Virus Detection Based on Loop-Mediated Isothermal Amplification and Optomagnetic Readout. <i>ACS Sensors</i> , 2016, 1, 1228-1234.	4.0	29
16	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
17	Sequence-specific validation of LAMP amplicons in real-time optomagnetic detection of Dengue serotype 2 synthetic DNA. <i>Analyst</i> , 2017, 142, 3441-3450.	1.7	25
18	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

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19	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
20	Multi-scale magnetic nanoparticle based optomagnetic bioassay for sensitive DNA and bacteria detection. <i>Analytical Methods</i> , 2016, 8, 5009-5016.	1.3	22
21	Self-Assembled Magnetic Nanoparticle-Graphene Oxide Nanotag for Optomagnetic Detection of DNA. <i>ACS Applied Nano Materials</i> , 2019, 2, 1683-1690.	2.4	21
22	Shape anisotropy enhanced optomagnetic measurement for prostate-specific antigen detection via magnetic chain formation. <i>Biosensors and Bioelectronics</i> , 2017, 98, 285-291.	5.3	14
23	Insights into the Formation of DNA-Magnetic Nanoparticle Hybrid Structures: Correlations between Morphological Characterization and Output from Magnetic Biosensor Measurements. <i>ACS Sensors</i> , 2020, 5, 3510-3519.	4.0	14
24	General Method for Determining Light Scattering and Absorption of Nanoparticle Composites. <i>Advanced Optical Materials</i> , 2019, 7, 1801315.	3.6	10
25	Magnetophoretic Transport Line System for Rapid On-Chip Attomole Protein Detection. <i>Langmuir</i> , 2015, 31, 10296-10302.	1.6	8
26	Optomagnetic readout enables easy, rapid, and cost-efficient qualitative bplex detection of bacterial DNA sequences. <i>Biotechnology Journal</i> , 2015, 10, 469-472.	1.8	6
27	Extraction of Backscattering and Absorption Coefficients of Magnetite Nanosphere Composites from Light-Scattering Measurements: Implications for Optomagnetic Sensing. <i>ACS Applied Nano Materials</i> , 2020, 3, 11172-11183.	2.4	3
28	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
29	Sensor Systems with Magnetic and Optomagnetic Readout of Rolling Circle Amplification Products. , 2016, , 123-138.		1
30	BIONANOMAGNETISM. , 2010, , 315-341.		1
31	Molecular diagnostics using magnetic nanobeads. <i>Journal of Physics: Conference Series</i> , 2010, 200, 122011.	0.3	0
32	Magnetic nanobeads present during enzymatic amplification and labeling for a simplified DNA detection protocol based on AC susceptometry. <i>AIP Advances</i> , 2015, 5, 127139.	0.6	0