

Liesbet Lagae

List of Publications by Year in descending order

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95
papers

4,658
citations

94433

37
h-index

98798

67
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96
all docs

96
docs citations

96
times ranked

7086
citing authors

#	ARTICLE	IF	CITATIONS
1	Capillary stop valve actuation by thermo-pneumatic- pressure for lab-on-chip systems. <i>Microsystem Technologies</i> , 2021, 27, 681-692.	2.0	3
2	Synthetic Antiferromagnetic Gold Nanoparticles as Bimodal Contrast Agents in MRI and CT—An Experimental In Vitro and In Vivo Study. <i>Pharmaceutics</i> , 2021, 13, 1494.	4.5	4
3	Assessment of the Theranostic Potential of Gold Nanostars—A Multimodal Imaging and Photothermal Treatment Study. <i>Nanomaterials</i> , 2020, 10, 2112.	4.1	10
4	Fast compressive lens-free tomography for 3D biological cell culture imaging. <i>Optics Express</i> , 2020, 28, 26935.	3.4	8
5	Pixel super-resolution for lens-free holographic microscopy using deep learning neural networks. <i>Optics Express</i> , 2019, 27, 13581.	3.4	42
6	High spatial resolution nanoslit SERS for single-molecule nucleobase sensing. <i>Nature Communications</i> , 2018, 9, 1733.	12.8	127
7	Direct on-chip DNA synthesis using electrochemically modified gold electrodes as solid support. <i>Japanese Journal of Applied Physics</i> , 2018, 57, 04FM01.	1.5	3
8	Accurate label-free 3-part leukocyte recognition with single cell lens-free imaging flow cytometry. <i>Computers in Biology and Medicine</i> , 2018, 96, 147-156.	7.0	23
9	Full-wafer in-situ fabrication and packaging of microfluidic flow cytometer with photo-patternable adhesive polymers. <i>Biomedical Microdevices</i> , 2018, 20, 2.	2.8	0
10	Reflective lens-free imaging on high-density silicon microelectrode arrays for monitoring and evaluation of in vitro cardiac contractility. <i>Biomedical Optics Express</i> , 2018, 9, 1827.	2.9	5
11	Fast and robust Fourier domain-based classification for on-chip lens-free flow cytometry. <i>Optics Express</i> , 2018, 26, 14329.	3.4	4
12	Limiting the protein corona: A successful strategy for in vivo active targeting of anti-HER2 nanobody-functionalized nanostars. <i>Biomaterials</i> , 2017, 123, 15-23.	11.4	36
13	Probing Local Potentials inside Metallic Nanopores with SERS and Bipolar Electrochemistry. <i>Advanced Optical Materials</i> , 2017, 5, 1600907.	7.3	11
14	Micro vapor bubble jet flow for safe and high-rate fluorescence-activated cell sorting. <i>Lab on A Chip</i> , 2017, 17, 1287-1296.	6.0	25
15	Single Asymmetric Plasmonic Antenna as a Directional Coupler to a Dielectric Waveguide. <i>ACS Photonics</i> , 2017, 4, 1398-1402.	6.6	39
16	Integrated Nanophotonic Excitation and Detection of Fluorescent Microparticles. <i>ACS Photonics</i> , 2017, 4, 1937-1944.	6.6	13
17	Development of nanostars as a biocompatible tumor contrast agent: toward in vivo SERS imaging. <i>International Journal of Nanomedicine</i> , 2016, Volume 11, 3703-3714.	6.7	30
18	Density controlled nanophotonic waveguide gratings for efficient on-chip out-coupling in the near field (Conference Presentation)., 2016,,.		1

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19	Multiplexed site-specific electrode functionalization for multitarget biosensors. <i>Bioelectrochemistry</i> , 2016, 112, 61-66.	4.6	13
20	Time-lapse lens-free imaging of cell migration in diverse physical microenvironments. <i>Lab on A Chip</i> , 2016, 16, 3304-3316.	6.0	29
21	Asymmetric plasmonic induced ionic noise in metallic nanopores. <i>Nanoscale</i> , 2016, 8, 12324-12329.	5.6	9
22	All-Dielectric Antenna Wavelength Router with Bidirectional Scattering of Visible Light. <i>Nano Letters</i> , 2016, 16, 4396-4403.	9.1	93
23	Photoresistance Switching of Plasmonic Nanopores. <i>Nano Letters</i> , 2015, 15, 776-782.	9.1	38
24	Revisiting the Surface Sensitivity of Nanoplasmonic Biosensors. <i>ACS Photonics</i> , 2015, 2, 425-431.	6.6	83
25	Three-part differential of unlabeled leukocytes with a compact lens-free imaging flow cytometer. <i>Lab on A Chip</i> , 2015, 15, 1123-1132.	6.0	65
26	Raman fingerprinting of single dielectric nanoparticles in plasmonic nanopores. <i>Nanoscale</i> , 2015, 7, 18612-18618.	5.6	28
27	Full wetting of plasmonic nanopores through two-component droplets. <i>Chemical Science</i> , 2015, 6, 6564-6571.	7.4	11
28	Microscope-on-chip: combining lens-free microscopy with integrated photonics. , 2015, , .		4
29	Robustness of surface-enhanced Raman scattering substrate with a mercaptosilane adhesive layer for in vivo sensing applications. <i>Japanese Journal of Applied Physics</i> , 2015, 54, 067002.	1.5	4
30	Biosensing Using Diffractively Coupled Plasmonic Crystals: the Figure of Merit Revisited. <i>Advanced Optical Materials</i> , 2015, 3, 176-181.	7.3	52
31	Nanoplasmonic Sensors with Various Photonic Coupling Effects for Detecting Different Targets. <i>Journal of Physical Chemistry C</i> , 2015, 119, 29116-29122.	3.1	36
32	Ion Current Rectification, Limiting and Overlimiting Conductances in Nanopores. <i>PLoS ONE</i> , 2015, 10, e0124171.	2.5	15
33	Unidirectional Scattering and Emission of Light Mediated by a Single-Element Nanoantenna. , 2014, , .		0
34	Tuning the interaction between propagating and localized surface plasmons for surface enhanced Raman scattering in water for biomedical and environmental applications. <i>Applied Physics Letters</i> , 2014, 104, 243102.	3.3	31
35	Investigation of the correlation between the bulk and surface sensing performance in plasmonic crystals. , 2014, , .		1
36	Raman spectroscopy and optical trapping of 20 nm polystyrene particles in plasmonic nanopores. , 2014, , .		1

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37	Biosensing with SiO ₂ -covered SPR substrates in a commercial SPR-tool. Sensors and Actuators B: Chemical, 2014, 200, 167-172.	7.8	16
38	Sensitive in vivo cell detection using size-optimized superparamagnetic nanoparticles. Biomaterials, 2014, 35, 1627-1635.	11.4	37
39	300 mm Wafer-level, ultra-dense arrays of Au-capped nanopillars with sub-10 nm gaps as reliable SERS substrates. Nanoscale, 2014, 6, 12391-12396.	5.6	62
40	Directional Fluorescence Emission by Individual V-Antennas Explained by Mode Expansion. ACS Nano, 2014, 8, 8232-8241.	14.6	84
41	Measuring Mass of Nanoparticles and Viruses in Liquids with Nanometer-Scale Pores. Analytical Chemistry, 2014, 86, 4637-4641.	6.5	27
42	Integration of clinical point-of-care requirements in a DNA microarray genotyping test. Biosensors and Bioelectronics, 2014, 61, 605-611.	10.1	1
43	Mode Parity-Controlled Fano- and Lorentz-like Line Shapes Arising in Plasmonic Nanorods. Nano Letters, 2014, 14, 2322-2329.	9.1	65
44	Synthetic Antiferromagnetic Nanoparticles as Potential Contrast Agents in MRI. ACS Nano, 2014, 8, 2269-2278.	14.6	33
45	Nanopore fluidic SERS. , 2014, , .		0
46	Unidirectional Side Scattering of Light by a Single-Element Nanoantenna. Nano Letters, 2013, 13, 3843-3849.	9.1	152
47	Plasmonic nanoslit for fluidic SERS: A strategy towards genome sequencing. , 2013, , .		1
48	Synthesis of PEGylated Magnetic Nanoparticles With Different Core Sizes. IEEE Transactions on Magnetics, 2013, 49, 219-226.	2.1	9
49	Tuning the Fano Resonance Between Localized and Propagating Surface Plasmon Resonances for Refractive Index Sensing Applications. Plasmonics, 2013, 8, 1379-1385.	3.4	66
50	Harnessing Plasmon-Induced Ionic Noise in Metallic Nanopores. Nano Letters, 2013, 13, 1724-1729.	9.1	23
51	Detection of DNA Bases and Oligonucleotides in Plasmonic Nanoslits Using Fluidic SERS. IEEE Journal of Selected Topics in Quantum Electronics, 2013, 19, 4600707-4600707.	2.9	12
52	Vector separation of particles and cells using an array of slanted open cavities. Lab on A Chip, 2013, 13, 1086.	6.0	18
53	High Q-factor plasmonic filters in nanoscale metal-insulator-metal waveguides. , 2013, , .		0
54	Gold nanoring as a sensitive plasmonic biosensor for on-chip DNA detection. Applied Physics Letters, 2012, 100, .	3.3	155

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55	Boosting the Figure-Of-Merit of LSPR-Based Refractive Index Sensing by Phase-Sensitive Measurements. Nano Letters, 2012, 12, 1655-1659.	9.1	161
56	Nano-Scale Electrical Transducers of Surface Plasmons for Integrated Biosensing. , 2012, , 369-384.		1
57	Measuring the Electric Charge and Zeta Potential of Nanometer-Sized Objects Using Pyramidal-Shaped Nanopores. Analytical Chemistry, 2012, 84, 8490-8496.	6.5	112
58	Excitation wavelength dependent surface enhanced Raman scattering of 4-aminothiophenol on gold nanorings. Nanoscale, 2012, 4, 1606.	5.6	117
59	Method for flow measurement in microfluidic channels based on electrical impedance spectroscopy. Microfluidics and Nanofluidics, 2012, 12, 17-23.	2.2	22
60	A versatile method to fabricate particle-in-cavity plasmonic nanostructures. Journal of Materials Chemistry, 2011, 21, 14394.	6.7	10
61	Plasmon Line Shaping Using Nanocrosses for High Sensitivity Localized Surface Plasmon Resonance Sensing. Nano Letters, 2011, 11, 391-397.	9.1	432
62	Specific Cell Targeting with Nanobody Conjugated Branched Gold Nanoparticles for Photothermal Therapy. ACS Nano, 2011, 5, 4319-4328.	14.6	338
63	Fluorescence Near Gold Nanoparticles for DNA Sensing. Analytical Chemistry, 2011, 83, 1307-1314.	6.5	111
64	Nanoscale Origami for 3D Optics. Small, 2011, 7, 1943-1948.	10.0	145
65	3D Nanofabrication: Nanoscale Origami for 3D Optics (Small 14/2011). Small, 2011, 7, 1850-1850.	10.0	1
66	Label-free genosensor based on immobilized DNA hairpins on gold surface. Biosensors and Bioelectronics, 2011, 26, 3121-3126.	10.1	14
67	Highly confined surface plasmon polariton resonances in rectangular nanopore cavities. Physica Status Solidi - Rapid Research Letters, 2010, 4, 247-249.	2.4	11
68	Raman scattered photon transmission through a single nanoslit. Applied Physics Letters, 2010, 96, .	3.3	8
69	Tuning plasmonic interaction between gold nanorings and a gold film for surface enhanced Raman scattering. Applied Physics Letters, 2010, 97, .	3.3	81
70	Local solid-state modification of nanopore surface charges. Nanotechnology, 2010, 21, 335703.	2.6	8
71	Study on Localized SERS by Spatially Selective Deposition of Raman Analytes. , 2010, , .		0
72	Groove-gratings to optimize the electric field enhancement in a plasmonic nanoslit-cavity. Journal of Applied Physics, 2010, 108, 034319.	2.5	14

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73	Electrical Excitation of Confined Surface Plasmon Polaritons in Metallic Slot Waveguides. Nano Letters, 2010, 10, 1429-1432.	9.1	52
74	Plasmonic Modes of Metallic Semishells in a Polymer Film. ACS Nano, 2010, 4, 1457-1464.	14.6	66
75	Lab-on-a-chip for the isolation and characterization of circulating tumor cells. , 2010, 2010, 292-4.		3
76	Strong location dependent surface enhanced Raman scattering on individual gold semishell and nanobowl particles. Physical Chemistry Chemical Physics, 2010, 12, 11222.	2.8	41
77	Enhanced resolution of poly(methyl methacrylate) electron resist by thermal processing. Journal of Vacuum Science & Technology B, 2009, 27, 1915-1918.	1.3	19
78	Cell manipulation with magnetic particles toward microfluidic cytometry. Journal of Applied Physics, 2009, 105, .	2.5	106
79	Observation of plasmonic dipolar anti-bonding mode in silver nanoring structures. Nanotechnology, 2009, 20, 465203.	2.6	67
80	Direct Evidence of High Spatial Localization of Hot Spots in Surface-Enhanced Raman Scattering. Angewandte Chemie - International Edition, 2009, 48, 9932-9935.	13.8	58
81	Discrimination of specific and non-specific bindings by dielectrophoretic repulsion in on-chip magnetic bio-assays. Biosensors and Bioelectronics, 2009, 24, 2294-2297.	10.1	9
82	Localized surface plasmon resonance biosensor integrated with microfluidic chip. Biomedical Microdevices, 2009, 11, 893-901.	2.8	78
83	Focusing Plasmons in Nanoslits for Surface-Enhanced Raman Scattering. Small, 2009, 5, 2876-2882.	10.0	44
84	Electrical detection of confined gap plasmons in metal-insulator-metal waveguides. Nature Photonics, 2009, 3, 283-286.	31.4	346
85	Symmetry breaking induced optical properties of gold open shell nanostructures. Optics Express, 2009, 17, 23765.	3.4	75
86	Shrinking solid-state nanopores using electron-beam-induced deposition. Nanotechnology, 2009, 20, 115302.	2.6	37
87	Microelectronics-Based Biosensors for the Detection of Proteins and Nucleic Acids. NATO Science for Peace and Security Series C: Environmental Security, 2009, , 319-332.	0.2	1
88	Impact of spacers on the hybridization efficiency of mixed self-assembled DNA/alkanethiol films. Biosensors and Bioelectronics, 2008, 24, 72-77.	10.1	71
89	Magnetic Bead Sensing Platform for the Detection of Proteins. Analytical Chemistry, 2007, 79, 8669-8677.	6.5	48
90	On-chip separation of magnetic particles with different magnetophoretic mobilities. Journal of Applied Physics, 2007, 101, 024913.	2.5	47

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91	Manipulation of magnetic particles on chip by magnetophoretic actuation and dielectrophoretic levitation. Applied Physics Letters, 2007, 90, 184109.	3.3	57
92	Local Electrical Detection of Single Nanoparticle Plasmon Resonance. Nano Letters, 2007, 7, 703-706.	9.1	32
93	Amplifying Waveguide Optical Isolator With an Integrated Electromagnet. IEEE Photonics Technology Letters, 2007, 19, 1949-1951.	2.5	6
94	Transverse magnetic mode nonreciprocal propagation in an amplifying AlGaInAs [∧] InP optical waveguide isolator. Applied Physics Letters, 2006, 88, 071115.	3.3	83
95	Experimental demonstration of nonreciprocal amplified spontaneous emission in a CoFe clad semiconductor optical amplifier for use as an integrated optical isolator. Applied Physics Letters, 2004, 85, 3980-3982.	3.3	59