

Willem Van Roy

List of Publications by Year in descending order

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32
papers

864
citations

623574

14
h-index

477173

29
g-index

32
all docs

32
docs citations

32
times ranked

1693
citing authors

#	ARTICLE	IF	CITATIONS
1	Surface Charge Modulation and Reduction of Non-Linear Electrolytic Screening in FET-Based Biosensing. <i>IEEE Sensors Journal</i> , 2021, 21, 4143-4151.	2.4	7
2	The Significance of Nonlinear Screening and the pH Interference Mechanism in Field-Effect Transistor Molecular Sensors. <i>ACS Sensors</i> , 2021, 6, 1049-1056.	4.0	14
3	Waveguide-based absorption measurement system for visible wavelength applications. <i>Biomedical Optics Express</i> , 2021, 12, 2041.	1.5	3
4	Size Independent Sensitivity to Biomolecular Surface Density Using Nanoscale CMOS Technology Transistors. <i>IEEE Sensors Journal</i> , 2020, 20, 8956-8964.	2.4	9
5	Analytical description of the lag phase in coupled-enzyme substrate assays. <i>Biochemical Engineering Journal</i> , 2020, 161, 107699.	1.8	2
6	Size Independent pH Sensitivity for Ion Sensitive FinFETs Down to 10 nm Width. <i>IEEE Sensors Journal</i> , 2019, 19, 6578-6586.	2.4	9
7	Mitigation of UV-Induced Propagation Loss in PECVD Silicon Nitride Photonic Waveguides. <i>ACS Photonics</i> , 2018, 5, 2145-2150.	3.2	8
8	Influence of UV Light on PECVD Silicon Nitride Waveguide Propagation Loss. , 2018, , .		1
9	Analysis of Fully On-Chip Microfluidic Electrochemical Systems under Laminar Flow. <i>Electrochimica Acta</i> , 2017, 231, 200-208.	2.6	9
10	Effects of laminar flow within a versatile microfluidic chip for in-situ electrode characterization and fuel cells. <i>Microelectronic Engineering</i> , 2017, 181, 47-54.	1.1	8
11	An ELISA-based amperometric biosensor within a photo-patternable adhesive microfluidic channel. , 2015, , .		1
12	Ion Current Rectification, Limiting and Overlimiting Conductances in Nanopores. <i>PLoS ONE</i> , 2015, 10, e0124171.	1.1	15
13	Biosensing with SiO ₂ -covered SPR substrates in a commercial SPR-tool. <i>Sensors and Actuators B: Chemical</i> , 2014, 200, 167-172.	4.0	16
14	Sensitive in-vivo cell detection using size-optimized superparamagnetic nanoparticles. <i>Biomaterials</i> , 2014, 35, 1627-1635.	5.7	37
15	Measuring Mass of Nanoparticles and Viruses in Liquids with Nanometer-Scale Pores. <i>Analytical Chemistry</i> , 2014, 86, 4637-4641.	3.2	27
16	Synthetic Antiferromagnetic Nanoparticles as Potential Contrast Agents in MRI. <i>ACS Nano</i> , 2014, 8, 2269-2278.	7.3	33
17	Effects of Counter Electrode Induced Redox Cycling on Fe(III) Reduction within Microfluidic Electrochemical Cells. <i>Journal of the Electrochemical Society</i> , 2014, 161, E128-E134.	1.3	9
18	Synthesis of PEGylated Magnetic Nanoparticles With Different Core Sizes. <i>IEEE Transactions on Magnetics</i> , 2013, 49, 219-226.	1.2	9

#	ARTICLE	IF	CITATIONS
19	Tuning the Fano Resonance Between Localized and Propagating Surface Plasmon Resonances for Refractive Index Sensing Applications. <i>Plasmonics</i> , 2013, 8, 1379-1385.	1.8	66
20	Ultralocal Modification of Surface Plasmons Properties in Silver Nanocubes. <i>Nano Letters</i> , 2012, 12, 1288-1294.	4.5	99
21	Boosting the Figure-Of-Merit of LSPR-Based Refractive Index Sensing by Phase-Sensitive Measurements. <i>Nano Letters</i> , 2012, 12, 1655-1659.	4.5	161
22	Measuring the Electric Charge and Zeta Potential of Nanometer-Sized Objects Using Pyramidal-Shaped Nanopores. <i>Analytical Chemistry</i> , 2012, 84, 8490-8496.	3.2	112
23	Method for flow measurement in microfluidic channels based on electrical impedance spectroscopy. <i>Microfluidics and Nanofluidics</i> , 2012, 12, 17-23.	1.0	22
24	Effect of sputtering on ferromagnet-oxide-silicon spin injection contacts. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2011, 29, 040602.	0.6	3
25	Self-assembled hexagonal double fishnets as negative index materials. <i>Applied Physics Letters</i> , 2011, 98, 091101.	1.5	27
26	Fast thermally assisted switching at low current density in (Ga,Mn)As magnetic tunnel junctions. <i>Applied Physics Letters</i> , 2010, 96, 052513.	1.5	2
27	Plasmonic Modes of Metallic Semishells in a Polymer Film. <i>ACS Nano</i> , 2010, 4, 1457-1464.	7.3	66
28	Brillouin Light Scattering Study of the Magnetic Anisotropy in bcc-Fe(100) Ultrathin Films Grown on GaAs(100) Surfaces With Different Reconstructions. <i>IEEE Transactions on Magnetics</i> , 2009, 45, 2527-2530.	1.2	5
29	Surface morphology changes on silica-coated gold colloids. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2008, 322, 225-233.	2.3	43
30	Spin Injection and Detection in Semiconductors – Electrical Issues and Device Aspects. <i>IEEE Transactions on Electron Devices</i> , 2007, 54, 933-944.	1.6	17
31	Growth and characterization of In _{1-x} MnxAs diluted magnetic semiconductors quantum dots. <i>Journal of Crystal Growth</i> , 2005, 280, 32-43.	0.7	8
32	Spin-injection in semiconductors: materials challenges and device aspects. <i>Physica Status Solidi (B): Basic Research</i> , 2004, 241, 1470-1476.	0.7	16