

Iwijn De Vlaminck

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.

64

papers

3,305

citations

29

h-index

57

g-index

87

ext. papers

4,329

ext. citations

11.6

avg, IF

5.27

L-index

#	Paper	IF	Citations
64	Electrical detection of confined gap plasmons in metal-insulator-metal waveguides. <i>Nature Photonics</i> , 2009 , 3, 283-286	33.9	296
63	Temporal response of the human virome to immunosuppression and antiviral therapy. <i>Cell</i> , 2013 , 155, 1178-87	56.2	285
62	Circulating cell-free DNA enables noninvasive diagnosis of heart transplant rejection. <i>Science Translational Medicine</i> , 2014 , 6, 241ra77	17.5	285
61	Recent advances in magnetic tweezers. <i>Annual Review of Biophysics</i> , 2012 , 41, 453-72	21.1	244
60	Multifunctional nanomechanical systems via tunably coupled piezoelectric actuation. <i>Science</i> , 2007 , 317, 780-3	33.3	230
59	A quantitative comparison of single-cell whole genome amplification methods. <i>PLoS ONE</i> , 2014 , 9, e105585	3.85	215
58	Noninvasive monitoring of infection and rejection after lung transplantation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, 13336-41	11.5	206
57	Single-stranded DNA library preparation uncovers the origin and diversity of ultrashort cell-free DNA in plasma. <i>Scientific Reports</i> , 2016 , 6, 27859	4.9	105
56	Tunable optical forces between nanophotonic waveguides. <i>Nature Nanotechnology</i> , 2009 , 4, 510-3	28.7	104
55	Numerous uncharacterized and highly divergent microbes which colonize humans are revealed by circulating cell-free DNA. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, 9623-9628	11.5	94
54	Highly parallel magnetic tweezers by targeted DNA tethering. <i>Nano Letters</i> , 2011 , 11, 5489-93	11.5	89
53	Single-Cell Analysis of the Muscle Stem Cell Hierarchy Identifies Heterotypic Communication Signals Involved in Skeletal Muscle Regeneration. <i>Cell Reports</i> , 2020 , 30, 3583-3595.e5	10.6	84
52	Urinary cell-free DNA is a versatile analyte for monitoring infections of the urinary tract. <i>Nature Communications</i> , 2018 , 9, 2412	17.4	78
51	Non-bias-limited tracking of spherical particles, enabling nanometer resolution at low magnification. <i>Biophysical Journal</i> , 2012 , 102, 2362-71	2.9	74
50	Localized surface plasmon resonance biosensor integrated with microfluidic chip. <i>Biomedical Microdevices</i> , 2009 , 11, 893-901	3.7	72
49	Fabrication and Optical Properties of Gold Semishells. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 3110-3115	3.85	71
48	Mechanism of homology recognition in DNA recombination from dual-molecule experiments. <i>Molecular Cell</i> , 2012 , 46, 616-24	17.6	66

47	Gut uropathogen abundance is a risk factor for development of bacteriuria and urinary tract infection. <i>Nature Communications</i> , 2019 , 10, 5521	17.4	59
46	Magnetic forces and DNA mechanics in multiplexed magnetic tweezers. <i>PLoS ONE</i> , 2012 , 7, e41432	3.7	55
45	Simultaneous multiplexed amplicon sequencing and transcriptome profiling in single cells. <i>Nature Methods</i> , 2019 , 16, 59-62	21.6	41
44	Donor-derived cell-free DNA predicts allograft failure and mortality after lung transplantation. <i>EBioMedicine</i> , 2019 , 40, 541-553	8.8	38
43	Torsional regulation of hRPA-induced unwinding of double-stranded DNA. <i>Nucleic Acids Research</i> , 2010 , 38, 4133-42	20.1	38
42	Quantification of transplant-derived circulating cell-free DNA in absence of a donor genotype. <i>PLoS Computational Biology</i> , 2017 , 13, e1005629	5	36
41	Highly multiplexed spatial mapping of microbial communities. <i>Nature</i> , 2020 , 588, 676-681	50.4	36
40	Applying rigor and reproducibility standards to assay donor-derived cell-free DNA as a non-invasive method for detection of acute rejection and graft injury after heart transplantation. <i>Journal of Heart and Lung Transplantation</i> , 2017 , 36, 1004-1012	5.8	35
39	Detection of nanomechanical motion by evanescent light wave coupling. <i>Applied Physics Letters</i> , 2007 , 90, 233116	3.4	35
38	Focusing plasmons in nanoslits for surface-enhanced Raman scattering. <i>Small</i> , 2009 , 5, 2876-82	11	34
37	A cell-free DNA metagenomic sequencing assay that integrates the host injury response to infection. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 18738-18744	11.5	32
36	Local electrical detection of single nanoparticle plasmon resonance. <i>Nano Letters</i> , 2007 , 7, 703-6	11.5	30
35	Myriad Applications of Circulating Cell-Free DNA in Precision Organ Transplant Monitoring. <i>Annals of the American Thoracic Society</i> , 2017 , 14, S237-S241	4.7	28
34	Spatiotemporal single-cell RNA sequencing of developing chicken hearts identifies interplay between cellular differentiation and morphogenesis. <i>Nature Communications</i> , 2021 , 12, 1771	17.4	22
33	Scanning a DNA molecule for bound proteins using hybrid magnetic and optical tweezers. <i>PLoS ONE</i> , 2013 , 8, e65329	3.7	17
32	Monitoring pharmacologically induced immunosuppression by immune repertoire sequencing to detect acute allograft rejection in heart transplant patients: a proof-of-concept diagnostic accuracy study. <i>PLoS Medicine</i> , 2015 , 12, e1001890	11.6	17
31	Single-Cell-Genomics-Facilitated Read Binning of Candidate Phylum EM19 Genomes from Geothermal Spring Metagenomes. <i>Applied and Environmental Microbiology</i> , 2016 , 82, 992-1003	4.8	16
30	Separating the signal from the noise in metagenomic cell-free DNA sequencing. <i>Microbiome</i> , 2020 , 8, 18	16.6	13

29	Cell-free DNA (cfDNA) and Exosome Profiling from a Year-Long Human Spaceflight Reveals Circulating Biomarkers. <i>IScience</i> , 2020 , 23, 101844	6.1	13
28	Cell-free DNA tissues of origin by methylation profiling reveals significant cell, tissue, and organ-specific injury related to COVID-19 severity. <i>Med</i> , 2021 , 2, 411-422.e5	31.7	13
27	Thick PCL Fibers Improving Host Remodeling of PGS-PCL Composite Grafts Implanted in Rat Common Carotid Arteries. <i>Small</i> , 2020 , 16, e2004133	11	12
26	Adding Insult on Injury: Immunogenic Role for Donor-derived Cell-free DNA?. <i>Transplantation</i> , 2020 , 104, 2266-2271	1.8	10
25	Taxonomic and functional diversity provides insight into microbial pathways and stress responses in the saline Qinghai Lake, China. <i>PLoS ONE</i> , 2014 , 9, e111681	3.7	9
24	Large-scale integration of single-cell transcriptomic data captures transitional progenitor states in mouse skeletal muscle regeneration. <i>Communications Biology</i> , 2021 , 4, 1280	6.7	9
23	Skewed brownian fluctuations in single-molecule magnetic tweezers. <i>PLoS ONE</i> , 2014 , 9, e108271	3.7	8
22	Urinary cell transcriptomics and acute rejection in human kidney allografts. <i>JCI Insight</i> , 2020 , 5,	9.9	8
21	Cell-Free DNA in Blood Reveals Significant Cell, Tissue and Organ Specific injury and Predicts COVID-19 Severity 2020 ,		8
20	Donor-derived, cell-free DNA levels by next-generation targeted sequencing are elevated in allograft rejection after lung transplantation. <i>ERJ Open Research</i> , 2021 , 7,	3.5	6
19	Silicon nanomechanical resonators with a double-triangle cross section leading to an enhanced mass sensitivity. <i>Applied Physics Letters</i> , 2006 , 88, 063112	3.4	3
18	Single-cell analysis of the muscle stem cell hierarchy identifies heterotypic communication signals involved in skeletal muscle regeneration		3
17	Blood-borne biomarkers may help predict COVID-19 mortality. <i>Science Translational Medicine</i> , 2020 , 12, eabb7102	17.5	2
16	Humans are colonized by many uncharacterized and highly divergent microbes		2
15	Highly Multiplexed Spatial Mapping of Microbial Communities		2
14	Recent advances in tools to map the microbiome. <i>Current Opinion in Biomedical Engineering</i> , 2021 , 19, 100289-100289	4.4	2
13	Annealing helicase HARP closes RPA-stabilized DNA bubbles non-processively. <i>Nucleic Acids Research</i> , 2017 , 45, 4687-4695	20.1	1
12	Nano-Scale Electrical Transducers of Surface Plasmons for Integrated Biosensing 2012 , 369-384		1

11	A Study on the 0-Level Package Design of a High Accuracy Silicon MEMS Resonator 2006,		1
10	A metagenomic DNA sequencing assay that is robust against environmental DNA contamination 2021,		1
9	Separating the signal from the noise in metagenomic cell-free DNA sequencing		1
8	Cell-free DNA Profiling Informs Major Complications of Hematopoietic Cell Transplantation		1
7	Strength in numbers: Large-scale integration of single-cell transcriptomic data reveals rare, transient muscle progenitor cell states in muscle regeneration		1
6	Measurement Biases Distort Cell-Free DNA Fragmentation Profiles and Define the Sensitivity of Metagenomic Cell-Free DNA Sequencing Assays. <i>Clinical Chemistry</i> , 2021,	5.5	1
5	Biopsy-free screening for glioma. <i>EMBO Molecular Medicine</i> , 2018, 10,	12	1
4	Precision monitoring of immunotherapies in solid organ and hematopoietic stem cell transplantation. <i>Advanced Drug Delivery Reviews</i> , 2017, 114, 272-284	18.5	o
3	Peritoneal Effluent Cell-Free DNA Sequencing in Peritoneal Dialysis Patients With and Without Peritonitis.. <i>Kidney Medicine</i> , 2022, 4, 100383	2.8	o
2	Uncovering transcriptional dark matter via gene annotation independent single-cell RNA sequencing analysis. <i>Nature Communications</i> , 2021, 12, 2158	17.4	o
1	Molecular Approaches to Transplant Monitoring; Is the Horizon Here?. <i>Clinical Chemistry</i> , 2021, 67, 1443-1449	3.449	o