

# Iwijn De Vlaminck

## List of Publications by Year in Descending Order

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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	Peritoneal Effluent Cell-Free DNA Sequencing in Peritoneal Dialysis Patients With and Without Peritonitis.. <i>Kidney Medicine</i> , <b>2022</b> , 4, 100383	2.8	0
63	Donor-derived, cell-free DNA levels by next-generation targeted sequencing are elevated in allograft rejection after lung transplantation. <i>ERJ Open Research</i> , <b>2021</b> , 7,	3.5	6
62	A metagenomic DNA sequencing assay that is robust against environmental DNA contamination <b>2021</b> ,		1
61	Large-scale integration of single-cell transcriptomic data captures transitional progenitor states in mouse skeletal muscle regeneration. <i>Communications Biology</i> , <b>2021</b> , 4, 1280	6.7	9
60	Spatiotemporal single-cell RNA sequencing of developing chicken hearts identifies interplay between cellular differentiation and morphogenesis. <i>Nature Communications</i> , <b>2021</b> , 12, 1771	17.4	22
59	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> , <b>2021</b> , 2, 411-422.e5	31.7	13
58	Uncovering transcriptional dark matter via gene annotation independent single-cell RNA sequencing analysis. <i>Nature Communications</i> , <b>2021</b> , 12, 2158	17.4	0
57	Measurement Biases Distort Cell-Free DNA Fragmentation Profiles and Define the Sensitivity of Metagenomic Cell-Free DNA Sequencing Assays. <i>Clinical Chemistry</i> , <b>2021</b> ,	5.5	1
56	Recent advances in tools to map the microbiome. <i>Current Opinion in Biomedical Engineering</i> , <b>2021</b> , 19, 100289-100289	4.4	2
55	Molecular Approaches to Transplant Monitoring; Is the Horizon Here?. <i>Clinical Chemistry</i> , <b>2021</b> , 67, 1443-1449	3.49	0
54	Adding Insult on Injury: Immunogenic Role for Donor-derived Cell-free DNA?. <i>Transplantation</i> , <b>2020</b> , 104, 2266-2271	1.8	10
53	Single-Cell Analysis of the Muscle Stem Cell Hierarchy Identifies Heterotypic Communication Signals Involved in Skeletal Muscle Regeneration. <i>Cell Reports</i> , <b>2020</b> , 30, 3583-3595.e5	10.6	84
52	Separating the signal from the noise in metagenomic cell-free DNA sequencing. <i>Microbiome</i> , <b>2020</b> , 8, 18	16.6	13
51	Blood-borne biomarkers may help predict COVID-19 mortality. <i>Science Translational Medicine</i> , <b>2020</b> , 12, eabb7102	17.5	2
50	Urinary cell transcriptomics and acute rejection in human kidney allografts. <i>JCI Insight</i> , <b>2020</b> , 5,	9.9	8
49	Cell-Free DNA in Blood Reveals Significant Cell, Tissue and Organ Specific injury and Predicts COVID-19 Severity <b>2020</b> ,		8
48	Thick PCL Fibers Improving Host Remodeling of PGS-PCL Composite Grafts Implanted in Rat Common Carotid Arteries. <i>Small</i> , <b>2020</b> , 16, e2004133	11	12

47	Highly multiplexed spatial mapping of microbial communities. <i>Nature</i> , <b>2020</b> , 588, 676-681	50.4	36
46	Cell-free DNA (cfDNA) and Exosome Profiling from a Year-Long Human Spaceflight Reveals Circulating Biomarkers. <i>IScience</i> , <b>2020</b> , 23, 101844	6.1	13
45	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> , <b>2019</b> , 116, 18738-18744	11.5	32
44	Donor-derived cell-free DNA predicts allograft failure and mortality after lung transplantation. <i>EBioMedicine</i> , <b>2019</b> , 40, 541-553	8.8	38
43	Gut uropathogen abundance is a risk factor for development of bacteriuria and urinary tract infection. <i>Nature Communications</i> , <b>2019</b> , 10, 5521	17.4	59
42	Simultaneous multiplexed amplicon sequencing and transcriptome profiling in single cells. <i>Nature Methods</i> , <b>2019</b> , 16, 59-62	21.6	41
41	Urinary cell-free DNA is a versatile analyte for monitoring infections of the urinary tract. <i>Nature Communications</i> , <b>2018</b> , 9, 2412	17.4	78
40	Biopsy-free screening for glioma. <i>EMBO Molecular Medicine</i> , <b>2018</b> , 10,	12	1
39	Annealing helicase HARP closes RPA-stabilized DNA bubbles non-processively. <i>Nucleic Acids Research</i> , <b>2017</b> , 45, 4687-4695	20.1	1
38	Precision monitoring of immunotherapies in solid organ and hematopoietic stem cell transplantation. <i>Advanced Drug Delivery Reviews</i> , <b>2017</b> , 114, 272-284	18.5	0
37	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> , <b>2017</b> , 36, 1004-1012	5.8	35
36	Myriad Applications of Circulating Cell-Free DNA in Precision Organ Transplant Monitoring. <i>Annals of the American Thoracic Society</i> , <b>2017</b> , 14, S237-S241	4.7	28
35	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> , <b>2017</b> , 114, 9623-9628	11.5	94
34	Quantification of transplant-derived circulating cell-free DNA in absence of a donor genotype. <i>PLoS Computational Biology</i> , <b>2017</b> , 13, e1005629	5	36
33	Single-stranded DNA library preparation uncovers the origin and diversity of ultrashort cell-free DNA in plasma. <i>Scientific Reports</i> , <b>2016</b> , 6, 27859	4.9	105
32	Single-Cell-Genomics-Facilitated Read Binning of Candidate Phylum EM19 Genomes from Geothermal Spring Metagenomes. <i>Applied and Environmental Microbiology</i> , <b>2016</b> , 82, 992-1003	4.8	16
31	Noninvasive monitoring of infection and rejection after lung transplantation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2015</b> , 112, 13336-41	11.5	206
30	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> , <b>2015</b> , 12, e1001890	11.6	17

29	Taxonomic and functional diversity provides insight into microbial pathways and stress responses in the saline Qinghai Lake, China. <i>PLoS ONE</i> , <b>2014</b> , 9, e111681	3.7	9
28	Circulating cell-free DNA enables noninvasive diagnosis of heart transplant rejection. <i>Science Translational Medicine</i> , <b>2014</b> , 6, 241ra77	17.5	285
27	Skewed brownian fluctuations in single-molecule magnetic tweezers. <i>PLoS ONE</i> , <b>2014</b> , 9, e108271	3.7	8
26	A quantitative comparison of single-cell whole genome amplification methods. <i>PLoS ONE</i> , <b>2014</b> , 9, e105585	3.7	215
25	Temporal response of the human virome to immunosuppression and antiviral therapy. <i>Cell</i> , <b>2013</b> , 155, 1178-87	56.2	285
24	Scanning a DNA molecule for bound proteins using hybrid magnetic and optical tweezers. <i>PLoS ONE</i> , <b>2013</b> , 8, e65329	3.7	17
23	Recent advances in magnetic tweezers. <i>Annual Review of Biophysics</i> , <b>2012</b> , 41, 453-72	21.1	244
22	Mechanism of homology recognition in DNA recombination from dual-molecule experiments. <i>Molecular Cell</i> , <b>2012</b> , 46, 616-24	17.6	66
21	Nano-Scale Electrical Transducers of Surface Plasmons for Integrated Biosensing <b>2012</b> , 369-384		1
20	Non-bias-limited tracking of spherical particles, enabling nanometer resolution at low magnification. <i>Biophysical Journal</i> , <b>2012</b> , 102, 2362-71	2.9	74
19	Magnetic forces and DNA mechanics in multiplexed magnetic tweezers. <i>PLoS ONE</i> , <b>2012</b> , 7, e41432	3.7	55
18	Highly parallel magnetic tweezers by targeted DNA tethering. <i>Nano Letters</i> , <b>2011</b> , 11, 5489-93	11.5	89
17	Torsional regulation of hRPA-induced unwinding of double-stranded DNA. <i>Nucleic Acids Research</i> , <b>2010</b> , 38, 4133-42	20.1	38
16	Localized surface plasmon resonance biosensor integrated with microfluidic chip. <i>Biomedical Microdevices</i> , <b>2009</b> , 11, 893-901	3.7	72
15	Focusing plasmons in nanoslits for surface-enhanced Raman scattering. <i>Small</i> , <b>2009</b> , 5, 2876-82	11	34
14	Tunable optical forces between nanophotonic waveguides. <i>Nature Nanotechnology</i> , <b>2009</b> , 4, 510-3	28.7	104
13	Electrical detection of confined gap plasmons in metal-insulator-metal waveguides. <i>Nature Photonics</i> , <b>2009</b> , 3, 283-286	33.9	296
12	Fabrication and Optical Properties of Gold Semishells. <i>Journal of Physical Chemistry C</i> , <b>2009</b> , 113, 3110-3115	3.7	71

11	Local electrical detection of single nanoparticle plasmon resonance. <i>Nano Letters</i> , <b>2007</b> , 7, 703-6	11.5	30
10	Detection of nanomechanical motion by evanescent light wave coupling. <i>Applied Physics Letters</i> , <b>2007</b> , 90, 233116	3.4	35
9	Multifunctional nanomechanical systems via tunably coupled piezoelectric actuation. <i>Science</i> , <b>2007</b> , 317, 780-3	33.3	230
8	Silicon nanomechanical resonators with a double-triangle cross section leading to an enhanced mass sensitivity. <i>Applied Physics Letters</i> , <b>2006</b> , 88, 063112	3.4	3
7	A Study on the 0-Level Package Design of a High Accuracy Silicon MEMS Resonator <b>2006</b> ,		1
6	Single-cell analysis of the muscle stem cell hierarchy identifies heterotypic communication signals involved in skeletal muscle regeneration		3
5	Separating the signal from the noise in metagenomic cell-free DNA sequencing		1
4	Humans are colonized by many uncharacterized and highly divergent microbes		2
3	Cell-free DNA Profiling Informs Major Complications of Hematopoietic Cell Transplantation		1
2	Strength in numbers: Large-scale integration of single-cell transcriptomic data reveals rare, transient muscle progenitor cell states in muscle regeneration		1
1	Highly Multiplexed Spatial Mapping of Microbial Communities		2