

# Sander W Van Der Laan

## List of Publications by Year in descending order

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Version: 2024-02-01

88  
papers

11,823  
citations

172457

29  
h-index

76900

74  
g-index

113  
all docs

113  
docs citations

113  
times ranked

21306  
citing authors

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 1  | Enhanced single-cell RNA-seq workflow reveals coronary artery disease cellular cross-talk and candidate drug targets. <i>Atherosclerosis</i> , 2022, 340, 12-22.  | 0.8 | 35        |
| 2  | The Applications of Single-Cell RNA Sequencing in Atherosclerotic Disease. <i>Frontiers in Cardiovascular Medicine</i> , 2022, 9, 826103.   | 2.4 | 14        |
| 3  | Intersecting single-cell transcriptomics and genome-wide association studies identifies crucial cell populations and candidate genes for atherosclerosis. <i>European Heart Journal Open</i> , 2022, 2, oeab043.                    | 2.3 | 34        |
| 4  | Multi-phenotype analyses of hemostatic traits with cardiovascular events reveal novel genetic associations. <i>Journal of Thrombosis and Haemostasis</i> , 2022, 20, 1331-1349.   | 3.8 | 12        |
| 5  | Genetic and clinical determinants of abdominal aortic diameter: genome-wide association studies, exome array data and Mendelian randomization study. <i>Human Molecular Genetics</i> , 2022, 31, 3566-3579.                         | 2.9 | 5         |
| 6  | Genetic variants associated with low-density lipoprotein cholesterol and systolic blood pressure and the risk of recurrent cardiovascular disease in patients with established vascular disease. <i>Atherosclerosis</i> , 2022, , . | 0.8 | 1         |
| 7  | PolarMorphism enables discovery of shared genetic variants across multiple traits from GWAS summary statistics. <i>Bioinformatics</i> , 2022, 38, i212-i219.  | 4.1 | 4         |
| 8  | The hypoxia-sensor carbonic anhydrase IX affects macrophage metabolism, but is not a suitable biomarker for human cardiovascular disease. <i>Scientific Reports</i> , 2021, 11, 425.  | 3.3 | 7         |
| 9  | Unfolding and disentangling coronary vascular disease through genome-wide association studies. <i>European Heart Journal</i> , 2021, 42, 934-937.   | 2.2 | 2         |
| 10 | Abstract P771: Monocyte-Chemoattractant Protein-1 Levels in Human Carotid Atherosclerosis Associate With Hallmarks of Plaque Vulnerability. <i>Stroke</i> , 2021, 52, .   | 2.0 | 0         |
| 11 | Common Genetic Variation in MC4R Does Not Affect Atherosclerotic Plaque Phenotypes and Cardiovascular Disease Outcomes. <i>Journal of Clinical Medicine</i> , 2021, 10, 932.  | 2.4 | 3         |
| 12 | Common Variants Associated With OSMR Expression Contribute to Carotid Plaque Vulnerability, but Not to Cardiovascular Disease in Humans. <i>Frontiers in Cardiovascular Medicine</i> , 2021, 8, 658915.                             | 2.4 | 3         |
| 13 | Hunt for the (Multi)-Marker Grail in the Diverse Landscape of Atherosclerosis. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2021, 41, 1789-1791.   | 2.4 | 0         |
| 14 | Exploring the causal inference of shear stress associated DNA methylation in carotid plaque on cardiovascular risk. <i>Atherosclerosis</i> , 2021, 325, 30-37.  | 0.8 | 2         |
| 15 | Monocyte-Chemoattractant Protein-1 Levels in Human Atherosclerotic Lesions Associate With Plaque Vulnerability. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2021, 41, 2038-2048.                                    | 2.4 | 48        |
| 16 | A hybrid data harmonization workflow using word embeddings for the interlinking of heterogeneous cross-domain clinical data structures. , 2021, , .   |     | 1         |
| 17 | Genome-wide age at onset analysis shows that genetic variation in the APOE locus is associated with earlier onset of ischemic stroke. <i>Atherosclerosis</i> , 2021, 331, e216.   | 0.8 | 0         |
| 18 | Sex-dependent gene regulation of human atherosclerotic plaques by DNA methylation and transcriptome integration points to smooth muscle cell involvement in women.. <i>Atherosclerosis</i> , 2021, 331, e217.                       | 0.8 | 0         |

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|----|--|------|-----------|
| 19 | Cardiovascular susceptibility Loci through the lens of single-cells in plaques: Discovery of crucial cell populations and candidate genes for atherosclerosis.. <i>Atherosclerosis</i> , 2021, 331, e26.                     | 0.8  | 0         |
| 20 | The power of genetic diversity in genome-wide association studies of lipids. <i>Nature</i> , 2021, 600, 675-679.   | 27.8 | 353       |
| 21 | PCSK6 Is a Key Protease in the Control of Smooth Muscle Cell Function in Vascular Remodeling. <i>Circulation Research</i> , 2020, 126, 571-585.  | 4.5  | 38        |
| 22 | Microanatomy of the Human Atherosclerotic Plaque by Single-Cell Transcriptomics. <i>Circulation Research</i> , 2020, 127, 1437-1455.   | 4.5  | 283       |
| 23 | Genetic Regulation of Atherosclerosis-Relevant Phenotypes in Human Vascular Smooth Muscle Cells. <i>Circulation Research</i> , 2020, 127, 1552-1565.   | 4.5  | 60        |
| 24 | Association of Factor V Leiden With Subsequent Atherothrombotic Events. <i>Circulation</i> , 2020, 142, 546-555.   | 1.6  | 11        |
| 25 | Functional investigation of the coronary artery disease gene SVEP1. <i>Basic Research in Cardiology</i> , 2020, 115, 67.   | 5.9  | 25        |
| 26 | Family history and polygenic risk of cardiovascular disease: Independent factors associated with secondary cardiovascular events in patients undergoing carotid endarterectomy. <i>Atherosclerosis</i> , 2020, 307, 121-129. | 0.8  | 13        |
| 27 | Alternate approach to stroke phenotyping identifies a genetic risk locus for small vessel stroke. <i>European Journal of Human Genetics</i> , 2020, 28, 963-972.   | 2.8  | 12        |
| 28 | Beyond GWAS in Atrial Fibrillation Genetics. <i>Circulation Research</i> , 2020, 126, 361-363.   | 4.5  | 0         |
| 29 | Testosterone to oestradiol ratio reflects systemic and plaque inflammation and predicts future cardiovascular events in men with severe atherosclerosis. <i>Cardiovascular Research</i> , 2019, 115, 453-462.                | 3.8  | 48        |
| 30 | Family History And Polygenic Risk Of Cardiovascular Disease Are Associated With A Worse Secondary Cardiovascular Outcome In Patients Undergoing Carotid Endarterectomy. <i>Atherosclerosis</i> , 2019, 287, e87.             | 0.8  | 1         |
| 31 | Associations of autozygosity with a broad range of human phenotypes. <i>Nature Communications</i> , 2019, 10, 4957.  | 12.8 | 84        |
| 32 | Autosomal Sexual Dimorphism In Methylation Of Advanced Atherosclerotic Carotid Plaques. <i>Atherosclerosis</i> , 2019, 287, e66.   | 0.8  | 0         |
| 33 | Platelet RNA modules point to coronary calcification in asymptomatic women with former preeclampsia. <i>Atherosclerosis</i> , 2019, 291, 114-121.  | 0.8  | 5         |
| 34 | Mapping Genes To Cardiovascular Susceptibility Loci At A Single-Cell Resolution. <i>Atherosclerosis</i> , 2019, 287, e21.  | 0.8  | 0         |
| 35 | Genetic Risk Loci For Aaa Are Associated With Inflammatory Biomarkers Within The Aneurysm-Express Biobank Study. <i>Atherosclerosis</i> , 2019, 287, e17.  | 0.8  | 0         |
| 36 | Microanatomy Of Advanced Human Atherosclerotic Plaques Through Single-Cell Transcriptomics. <i>Atherosclerosis</i> , 2019, 287, e5.  | 0.8  | 5         |

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|----|--|------|-----------|
| 37 | Serum magnesium and calcium levels in relation to ischemic stroke. <i>Neurology</i> , 2019, 92, e944-e950.   | 1.1  | 38        |
| 38 | Subsequent Event Risk in Individuals With Established Coronary Heart Disease. <i>Circulation Genomic and Precision Medicine</i> , 2019, 12, e002470.   | 3.6  | 17        |
| 39 | Association of Chromosome 9p21 With Subsequent Coronary Heart Disease Events. <i>Circulation Genomic and Precision Medicine</i> , 2019, 12, e002471.   | 3.6  | 22        |
| 40 | Relative effects of LDL-C on ischemic stroke and coronary disease. <i>Neurology</i> , 2019, 92, e1176-e1187.   | 1.1  | 40        |
| 41 | Polygenic Susceptibility of Aortic Aneurysms Associates to the Diameter of the Aneurysm Sac: the Aneurysm-Express Biobank Cohort. <i>Scientific Reports</i> , 2019, 9, 19844.  | 3.3  | 3         |
| 42 | Genetic Risk Locus for AAA is Associated with Inflammatory Biomarker Within The Aneurysm-express Biobank Study. <i>European Journal of Vascular and Endovascular Surgery</i> , 2019, 58, e435-e436.  | 1.5  | 0         |
| 43 | Testosterone to Estradiol Ratio Reflects Systemic and Plaque Inflammation and Predicts Future Cardiovascular Events in Men After Carotid Endarterectomy. <i>European Journal of Vascular and Endovascular Surgery</i> , 2019, 58, e279-e280.                               | 1.5  | 0         |
| 44 | Single Cell Rna-Sequencing Identifies Numerous Cell Sub-Types And Suggests Lineage Plasticity In Human Atherosclerotic Plaques. <i>Atherosclerosis</i> , 2019, 287, e96-e97.   | 0.8  | 0         |
| 45 | Circulating CD14 <sup>+</sup> CD16 <sup>+</sup> classical monocytes do not associate with a vulnerable plaque phenotype, and do not predict secondary events in severe atherosclerotic patients. <i>Journal of Molecular and Cellular Cardiology</i> , 2019, 127, 260-269. | 1.9  | 16        |
| 46 | Network analysis of coronary artery disease risk genes elucidates disease mechanisms and druggable targets. <i>Scientific Reports</i> , 2018, 8, 3434.   | 3.3  | 43        |
| 47 | GWAS and colocalization analyses implicate carotid intima-media thickness and carotid plaque loci in cardiovascular outcomes. <i>Nature Communications</i> , 2018, 9, 5141.  | 12.8 | 119       |
| 48 | Genetic Susceptibility Loci for Cardiovascular Disease and Their Impact on Atherosclerotic Plaques. <i>Circulation Genomic and Precision Medicine</i> , 2018, 11, e002115.   | 3.6  | 20        |
| 49 | Smoking is Associated to DNA Methylation in Atherosclerotic Carotid Lesions. <i>Circulation Genomic and Precision Medicine</i> , 2018, 11, e002030.  | 3.6  | 23        |
| 50 | From lipid locus to drug target through human genomics. <i>Cardiovascular Research</i> , 2018, 114, 1258-1270.   | 3.8  | 17        |
| 51 | Protein-altering variants associated with body mass index implicate pathways that control energy intake and expenditure in obesity. <i>Nature Genetics</i> , 2018, 50, 26-41.  | 21.4 | 286       |
| 52 | Multiancestry genome-wide association study of 520,000 subjects identifies 32 loci associated with stroke and stroke subtypes. <i>Nature Genetics</i> , 2018, 50, 524-537.   | 21.4 | 1,124     |
| 53 | Rare and low-frequency coding variants alter human adult height. <i>Nature</i> , 2017, 542, 186-190.   | 27.8 | 544       |
| 54 | Common coding variant in <i>SERPINA1</i> increases the risk for large artery stroke. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 3613-3618.  | 7.1  | 46        |

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|----|---|------|-----------|
| 55 | Genome-wide meta-analysis of 241,258 adults accounting for smoking behaviour identifies novel loci for obesity traits. <i>Nature Communications</i> , 2017, 8, 14977.   | 12.8 | 169       |
| 56 | Genetic loci associated with heart rate variability and their effects on cardiac disease risk. <i>Nature Communications</i> , 2017, 8, 15805.   | 12.8 | 95        |
| 57 | Genetic variation within the Y chromosome is not associated with histological characteristics of the atherosclerotic carotid artery or aneurysmal wall. <i>Atherosclerosis</i> , 2017, 259, 114-119.                    | 0.8  | 6         |
| 58 | Additional Candidate Genes for Human Atherosclerotic Disease Identified Through Annotation Based on Chromatin Organization. <i>Circulation: Cardiovascular Genetics</i> , 2017, 10, .                                   | 5.1  | 17        |
| 59 | Impact of Selection Bias on Estimation of Subsequent Event Risk. <i>Circulation: Cardiovascular Genetics</i> , 2017, 10, .  | 5.1  | 28        |
| 60 | Impaired kidney function is associated with intraplaque hemorrhage in patients undergoing carotid endarterectomy. <i>Atherosclerosis</i> , 2017, 266, 128-135.  | 0.8  | 6         |
| 61 | Loss of Y Chromosome in Blood Is Associated With Major Cardiovascular Events During Follow-Up in Men After Carotid Endarterectomy. <i>Circulation: Cardiovascular Genetics</i> , 2017, 10, e001544.                     | 5.1  | 78        |
| 62 | Abstract 23: Identification of NCF4 as a Novel Regulator in Arterial Remodeling and Advanced Atherosclerosis. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2017, 37, .                                   | 2.4  | 0         |
| 63 | Meta-analysis of 49â€¦549 individuals imputed with the 1000 Genomes Project reveals an exonic damaging variant in <i>ANGPTL4</i> determining fasting TG levels. <i>Journal of Medical Genetics</i> , 2016, 53, 441-449. | 3.2  | 34        |
| 64 | Human Validation of Genes Associated With a Murine Atherosclerotic Phenotype. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2016, 36, 1240-1246.  | 2.4  | 44        |
| 65 | Genetic variants associated with subjective well-being, depressive symptoms, and neuroticism identified through genome-wide analyses. <i>Nature Genetics</i> , 2016, 48, 624-633.                                       | 21.4 | 870       |
| 66 | Cystatin C and Cardiovascular Disease. <i>Journal of the American College of Cardiology</i> , 2016, 68, 934-945.  | 2.8  | 109       |
| 67 | Genome-wide analysis identifies 12 loci influencing human reproductive behavior. <i>Nature Genetics</i> , 2016, 48, 1462-1472.  | 21.4 | 284       |
| 68 | Fine mapping the CETP region reveals a common intronic insertion associated to HDL-C. <i>Npj Aging and Mechanisms of Disease</i> , 2015, 1, 15011.  | 4.5  | 8         |
| 69 | The Influence of Age and Sex on Genetic Associations with Adult Body Size and Shape: A Large-Scale Genome-Wide Interaction Study. <i>PLoS Genetics</i> , 2015, 11, e1005378.  | 3.5  | 331       |
| 70 | Atmospheric transport and chemistry of trace gases in LMDz5B: evaluation and implications for inverse modelling. <i>Geoscientific Model Development</i> , 2015, 8, 129-150.   | 3.6  | 44        |
| 71 | Deficiency of the Stroke Relevant <i>HDAC9</i> Gene Attenuates Atherosclerosis in Accord With Allele-Specific Effects at 7p21.1. <i>Stroke</i> , 2015, 46, 197-202.   | 2.0  | 73        |
| 72 | Variants in <i>ALOX5</i> , <i>ALOX5AP</i> and <i>LTA4H</i> are not associated with atherosclerotic plaque phenotypes: The Athero-Express Genomics Study. <i>Atherosclerosis</i> , 2015, 239, 528-538.                   | 0.8  | 22        |

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|----|---|------|-----------|
| 73 | Genetic studies of body mass index yield new insights for obesity biology. <i>Nature</i> , 2015, 518, 197-206.  | 27.8 | 3,823     |
| 74 | Common variants associated with blood lipid levels do not affect carotid plaque composition. <i>Atherosclerosis</i> , 2015, 242, 351-356.   | 0.8  | 6         |
| 75 | Directional dominance on stature and cognition in diverse human populations. <i>Nature</i> , 2015, 523, 459-462.  | 27.8 | 173       |
| 76 | Gene-based meta-analysis of genome-wide association studies implicates new loci involved in obesity. <i>Human Molecular Genetics</i> , 2015, 24, 6849-6860.   | 2.9  | 55        |
| 77 | Impact of carotid atherosclerosis loci on cardiovascular events. <i>Atherosclerosis</i> , 2015, 243, 466-468.   | 0.8  | 18        |
| 78 | Defining the role of common variation in the genomic and biological architecture of adult human height. <i>Nature Genetics</i> , 2014, 46, 1173-1186.   | 21.4 | 1,818     |
| 79 | Time-Dependent Changes in Atherosclerotic Plaque Composition in Patients Undergoing Carotid Surgery. <i>Circulation</i> , 2014, 129, 2269-2276.   | 1.6  | 96        |
| 80 | Polygenic risk scores of lipid-spectra associate with increased risk of cardiovascular events in patients that underwent carotid endarterectomy. <i>Atherosclerosis</i> , 2014, 235, e224.  | 0.8  | 0         |
| 81 | Human validation of genes associated with a murine atherosclerotic phenotype. <i>Atherosclerosis</i> , 2014, 237, e3.   | 0.8  | 0         |
| 82 | Leukotriene B4 Levels in Human Atherosclerotic Plaques and Abdominal Aortic Aneurysms. <i>PLoS ONE</i> , 2014, 9, e86522.   | 2.5  | 11        |
| 83 | Human Genetic Evidence that Common Variants near PIK3CG are Associated with Atherosclerotic Plaque Hemorrhage and Vessel Density. <i>European Heart Journal</i> , 2013, 34, 770-770.  | 2.2  | 1         |
| 84 | Taking Risk Prediction to the Next Level. Advances in Biomarker Research for Atherosclerosis. <i>Current Pharmaceutical Design</i> , 2013, 19, 5929-5941.   | 1.9  | 2         |
| 85 | A concise history of genome-wide association studies. <i>Saudi Journal of Medicine and Medical Sciences</i> , 2013, 1, 4.   | 0.8  | 1         |
| 86 | Lack of association between connexin40 polymorphisms and coronary artery disease. <i>Atherosclerosis</i> , 2012, 222, 148-153.  | 0.8  | 14        |
| 87 | Tissue-Specific Alteration of Metabolic Pathways Influences Glycemic Regulation. <i>SSRN Electronic Journal</i> , 0, , .  | 0.4  | 0         |
| 88 | Associations of Polymorphisms in the Peroxisome Proliferator-Activated Receptor Gamma Coactivator-1 Alpha Gene With Subsequent Coronary Heart Disease: An Individual-Level Meta-Analysis. <i>Frontiers in Physiology</i> , 0, 13, . | 2.8  | 1         |