

# Mario van der Stelt

## List of Publications by Year in descending order

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Version: 2024-02-01

94  
papers

5,542  
citations

109264

35  
h-index

82499

72  
g-index

98  
all docs

98  
docs citations

98  
times ranked

6554  
citing authors

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 1  | CB1 Cannabinoid Receptors and On-Demand Defense Against Excitotoxicity. <i>Science</i> , 2003, 302, 84-88.  | 6.0 | 1,083     |
| 2  | Endovanilloids. Putative endogenous ligands of transient receptor potential vanilloid 1 channels. <i>FEBS Journal</i> , 2004, 271, 1827-1834.   | 0.2 | 342       |
| 3  | Cannabinoid CB2 receptor ligand profiling reveals biased signalling and off-target activity. <i>Nature Communications</i> , 2017, 8, 13958.   | 5.8 | 265       |
| 4  | Activity-based protein profiling reveals off-target proteins of the FAAH inhibitor BIA 10-2474. <i>Science</i> , 2017, 356, 1084-1087.  | 6.0 | 251       |
| 5  | Anandamide acts as an intracellular messenger amplifying Ca <sup>2+</sup> influx via TRPV1 channels. <i>EMBO Journal</i> , 2005, 24, 3026-3037.   | 3.5 | 210       |
| 6  | A role for endocannabinoids in the generation of parkinsonism and levodopa-induced dyskinesia in MPTP-lesioned non-human primate models of Parkinson's disease. <i>FASEB Journal</i> , 2005, 19, 1140-1142.   | 0.2 | 189       |
| 7  | Cannabinoid Receptors and Their Role in Neuroprotection. <i>NeuroMolecular Medicine</i> , 2005, 7, 037-050.   | 1.8 | 169       |
| 8  | 2-Arachidonoylglycerol: A signaling lipid with manifold actions in the brain. <i>Progress in Lipid Research</i> , 2018, 71, 1-17.   | 5.3 | 144       |
| 9  | N-Arachidonoyl-Dopamine Tunes Synaptic Transmission onto Dopaminergic Neurons by Activating both Cannabinoid and Vanilloid Receptors. <i>Neuropsychopharmacology</i> , 2007, 32, 298-308.   | 2.8 | 141       |
| 10 | Oxygenated Metabolites of Anandamide and 2-Arachidonoylglycerol: Conformational Analysis and Interaction with Cannabinoid Receptors, Membrane Transporter, and Fatty Acid Amide Hydrolase. <i>Journal of Medicinal Chemistry</i> , 2002, 45, 3709-3720. | 2.9 | 136       |
| 11 | Acute Neuronal Injury, Excitotoxicity, and the Endocannabinoid System. <i>Molecular Neurobiology</i> , 2002, 26, 317-346.   | 1.9 | 127       |
| 12 | Rapid and profound rewiring of brain lipid signaling networks by acute diacylglycerol lipase inhibition. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 26-33.                                     | 3.3 | 127       |
| 13 | The endocannabinoid system and its therapeutic exploitation in multiple sclerosis: Clues for other neuroinflammatory diseases. <i>Progress in Neurobiology</i> , 2018, 160, 82-100.   | 2.8 | 104       |
| 14 | Structure-Based Design of <sup>125</sup> I or <sup>125</sup> I Specific Inhibitors of Human Immunoproteasomes. <i>Journal of Medicinal Chemistry</i> , 2014, 57, 6197-6209.   | 2.9 | 89        |
| 15 | Identification of an allosteric binding site for ROR <sup>1</sup> inhibition. <i>Nature Communications</i> , 2015, 6, 8833.   | 5.8 | 87        |
| 16 | A Set of Activity-Based Probes to Visualize Human (Immuno)proteasome Activities. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 4199-4203.  | 7.2 | 86        |
| 17 | Incorporation of Non-natural Amino Acids Improves Cell Permeability and Potency of Specific Inhibitors of Proteasome Trypsin-like Sites. <i>Journal of Medicinal Chemistry</i> , 2013, 56, 1262-1275.   | 2.9 | 79        |
| 18 | Localization of the cannabinoid type 1 receptor in subcellular astrocyte compartments of mutant mouse hippocampus. <i>Glia</i> , 2018, 66, 1417-1431.   | 2.5 | 78        |

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|----|--|-----|-----------|
| 19 | Forebrain-Specific Inactivation of G <sub>q</sub> /G <sub>11</sub> Family G Proteins Results in Age-Dependent Epilepsy and Impaired Endocannabinoid Formation. <i>Molecular and Cellular Biology</i> , 2006, 26, 5888-5894.                  | 1.1 | 73        |
| 20 | Development of an Activity-Based Probe and In Silico Design Reveal Highly Selective Inhibitors for Diacylglycerol Lipase in Brain. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 12081-12085.                                 | 7.2 | 73        |
| 21 | Selective Photoaffinity Probe That Enables Assessment of Cannabinoid CB <sub>2</sub> Receptor Expression and Ligand Engagement in Human Cells. <i>Journal of the American Chemical Society</i> , 2018, 140, 6067-6075.                       | 6.6 | 68        |
| 22 | The novel, orally available and peripherally restricted selective cannabinoid CB <sub>2</sub> receptor agonist LEI-101 prevents cisplatin-induced nephrotoxicity. <i>British Journal of Pharmacology</i> , 2016, 173, 446-458.               | 2.7 | 55        |
| 23 | Anti-neuroinflammatory effects of GPR55 antagonists in LPS-activated primary microglial cells. <i>Journal of Neuroinflammation</i> , 2018, 15, 322.  | 3.1 | 53        |
| 24 | Discovery of a NAPE-PLD inhibitor that modulates emotional behavior in mice. <i>Nature Chemical Biology</i> , 2020, 16, 667-675.   | 3.9 | 53        |
| 25 | Targeting Endocannabinoid Signaling: FAAH and MAG Lipase Inhibitors. <i>Annual Review of Pharmacology and Toxicology</i> , 2021, 61, 441-463.  | 4.2 | 51        |
| 26 | <i>In Vivo</i> Excitotoxicity Induced by Ouabain, a Na <sup>+</sup> /K <sup>+</sup> -ATPase Inhibitor. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2003, 23, 62-74.   | 2.4 | 50        |
| 27 | A Fluorescence Polarization Activity-Based Protein Profiling Assay in the Discovery of Potent, Selective Inhibitors for Human Nonlysosomal Glucosylceramidase. <i>Journal of the American Chemical Society</i> , 2017, 139, 14192-14197.     | 6.6 | 50        |
| 28 | Stress-induced modulation of endocannabinoid signaling leads to delayed strengthening of synaptic connectivity in the amygdala. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 650-655. | 3.3 | 50        |
| 29 | Highly Selective, Reversible Inhibitor Identified by Comparative Chemoproteomics Modulates Diacylglycerol Lipase Activity in Neurons. <i>Journal of the American Chemical Society</i> , 2015, 137, 8851-8857.                                | 6.6 | 49        |
| 30 | The role of the CB1 cannabinoid receptor and its endogenous ligands, anandamide and 2-arachidonoylglycerol, in amphetamine-induced behavioural sensitization. <i>Behavioural Brain Research</i> , 2008, 187, 289-296.                        | 1.2 | 48        |
| 31 | Mapping in vivo target interaction profiles of covalent inhibitors using chemical proteomics with label-free quantification. <i>Nature Protocols</i> , 2018, 13, 752-767.  | 5.5 | 48        |
| 32 | Drug Discovery Maps, a Machine Learning Model That Visualizes and Predicts Kinome-Inhibitor Interaction Landscapes. <i>Journal of Chemical Information and Modeling</i> , 2019, 59, 1221-1229.   | 2.5 | 46        |
| 33 | Regulation of Adipose Tissue Metabolism by the Endocannabinoid System. <i>Trends in Endocrinology and Metabolism</i> , 2018, 29, 326-337.  | 3.1 | 45        |
| 34 | Identification and Development of Biphenyl Substituted Iminosugars as Improved Dual Glucosylceramide Synthase/Neutral Glucosylceramidase Inhibitors. <i>Journal of Medicinal Chemistry</i> , 2014, 57, 9096-9104.                            | 2.9 | 43        |
| 35 | High Fat Diet Increases Circulating Endocannabinoids Accompanied by Increased Synthesis Enzymes in Adipose Tissue. <i>Frontiers in Physiology</i> , 2018, 9, 1913.   | 1.3 | 40        |
| 36 | Improving CLL cell fitness for cellular therapy by ex vivo activation and ibrutinib. <i>Blood</i> , 2018, 132, 2260-2272.  | 0.6 | 39        |

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|----|---|-----|-----------|
| 37 | An Affinity-Based Probe for the Human Adenosine A <sub>2A</sub> Receptor. <i>Journal of Medicinal Chemistry</i> , 2018, 61, 7892-7901.  | 2.9 | 39        |
| 38 | Chemical Proteomics Maps Brain Region Specific Activity of Endocannabinoid Hydrolases. <i>ACS Chemical Biology</i> , 2017, 12, 852-861.   | 1.6 | 35        |
| 39 | Quantitative profiling of endocannabinoids and related N-acylethanolamines in human CSF using nano LC-MS/MS. <i>Journal of Lipid Research</i> , 2017, 58, 615-624.  | 2.0 | 33        |
| 40 | Development of a Multiplexed Activity-Based Protein Profiling Assay to Evaluate Activity of Endocannabinoid Hydrolase Inhibitors. <i>ACS Chemical Biology</i> , 2018, 13, 2406-2413.  | 1.6 | 33        |
| 41 | <i>N</i> -Tetradecylcarbamyl Lipopeptides as Novel Agonists for Toll-like Receptor 2. <i>Journal of Medicinal Chemistry</i> , 2014, 57, 6873-6878.  | 2.9 | 31        |
| 42 | Development of High-Specificity Fluorescent Probes to Enable Cannabinoid Type 2 Receptor Studies in Living Cells. <i>Journal of the American Chemical Society</i> , 2020, 142, 16953-16964.   | 6.6 | 31        |
| 43 | Triazole Ureas Act as Diacylglycerol Lipase Inhibitors and Prevent Fasting-Induced Refeeding. <i>Journal of Medicinal Chemistry</i> , 2017, 60, 428-440.  | 2.9 | 30        |
| 44 | Activity-Based Protein Profiling Delivers Selective Drug Candidate ABX-1431, a Monoacylglycerol Lipase Inhibitor, To Control Lipid Metabolism in Neurological Disorders. <i>Journal of Medicinal Chemistry</i> , 2018, 61, 9059-9061.         | 2.9 | 29        |
| 45 | Discovery of Glycine Sulfonamides as Dual Inhibitors of <i>sn</i> -1-Diacylglycerol Lipase $\hat{\pm}$ and $\hat{\pm}$ / $\hat{\pm}$ -Hydrolase Domain 6. <i>Journal of Medicinal Chemistry</i> , 2014, 57, 6610-6622.                        | 2.9 | 28        |
| 46 | A natural substrate-based fluorescence assay for inhibitor screening on diacylglycerol lipase $\hat{\pm}$ . <i>Journal of Lipid Research</i> , 2015, 56, 927-935.   | 2.0 | 27        |
| 47 | Direct and two-step bioorthogonal probes for Bruton's tyrosine kinase based on ibrutinib: a comparative study. <i>Organic and Biomolecular Chemistry</i> , 2015, 13, 5147-5157.   | 1.5 | 26        |
| 48 | Inhibitors of diacylglycerol lipases in neurodegenerative and metabolic disorders. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2016, 26, 3831-3837.   | 1.0 | 26        |
| 49 | Caloric restriction lowers endocannabinoid tonus and improves cardiac function in type 2 diabetes. <i>Nutrition and Diabetes</i> , 2018, 8, 6.  | 1.5 | 26        |
| 50 | Activity-Based Protein Profiling Identifies $\hat{\pm}$ -Ketoamides as Inhibitors for Phospholipase A2 Group XVI. <i>ACS Chemical Biology</i> , 2019, 14, 164-169.  | 1.6 | 24        |
| 51 | Manno- <i>epi</i> -cyclophellitols Enable Activity-Based Protein Profiling of Human $\hat{\pm}$ -Mannosidases and Discovery of New Golgi Mannosidase II Inhibitors. <i>Journal of the American Chemical Society</i> , 2020, 142, 13021-13029. | 6.6 | 24        |
| 52 | PharmacOSTORM nanoscale pharmacology reveals cariprazine binding on Islands of Calleja granule cells. <i>Nature Communications</i> , 2021, 12, 6505.  | 5.8 | 24        |
| 53 | Endocannabinoid tone is higher in healthy lean South Asian than white Caucasian men. <i>Scientific Reports</i> , 2017, 7, 7558.   | 1.6 | 23        |
| 54 | Biosynthesis of endocannabinoids and their modes of action in neurodegenerative diseases. <i>Neurotoxicity Research</i> , 2003, 5, 183-199.   | 1.3 | 19        |

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|----|--|-----|-----------|
| 55 | Structure-Based Design of $\hat{I}^{25c}$ Selective Inhibitors of Human Constitutive Proteasomes. <i>Journal of Medicinal Chemistry</i> , 2016, 59, 7177-7187.   | 2.9 | 19        |
| 56 | Structure-kinetic relationship studies of cannabinoid CB <sub>2</sub> receptor agonists reveal substituent-specific lipophilic effects on residence time. <i>Biochemical Pharmacology</i> , 2018, 152, 129-142.                  | 2.0 | 19        |
| 57 | Identification of $\hat{I}^{\pm}$ -Hydrolase Domain Containing Protein 6 as a Diacylglycerol Lipase in Neuro-2a Cells. <i>Frontiers in Molecular Neuroscience</i> , 2019, 12, 286.   | 1.4 | 19        |
| 58 | Endocannabinoid contributions to alcohol habits and motivation: Relevance to treatment. <i>Addiction Biology</i> , 2020, 25, e12768.   | 1.4 | 19        |
| 59 | Discovery of <i>N</i> -(Indazol-3-yl)piperidine-4-carboxylic Acids as ROR $\hat{I}^3t$ Allosteric Inhibitors for Autoimmune Diseases. <i>ACS Medicinal Chemistry Letters</i> , 2020, 11, 114-119.                                | 1.3 | 18        |
| 60 | A Novel Selective Inverse Agonist of the CB <sub>2</sub> Receptor as a Radiolabeled Tool Compound for Kinetic Binding Studies. <i>Molecular Pharmacology</i> , 2017, 92, 389-400.  | 1.0 | 17        |
| 61 | Evaluation of different drug classes on transient sciatic nerve injuryâ€“depressed marble burying in mice. <i>Pain</i> , 2018, 159, 1155-1165.   | 2.0 | 16        |
| 62 | Synthetic studies with the brevicidine and laterocidine lipopeptide antibiotics including analogues with enhanced properties and <i>in vivo</i> efficacy. <i>Chemical Science</i> , 2022, 13, 3563-3570.                         | 3.7 | 14        |
| 63 | Comprehensive Analysis of Structureâ€“Activity Relationships of $\hat{I}^{\pm}$ -Ketoamides as <i>sn</i> -1-Diacylglycerol Lipase $\hat{I}^{\pm}$ Inhibitors. <i>Journal of Medicinal Chemistry</i> , 2015, 58, 9742-9753.       | 2.9 | 13        |
| 64 | Development of a Retinal-Based Probe for the Profiling of Retinaldehyde Dehydrogenases in Cancer Cells. <i>ACS Central Science</i> , 2019, 5, 1965-1974.   | 5.3 | 13        |
| 65 | Detection of cannabinoid receptor type 2 in native cells and zebrafish with a highly potent, cell-permeable fluorescent probe. <i>Chemical Science</i> , 2022, 13, 5539-5545.  | 3.7 | 12        |
| 66 | Cyclopentitol as a scaffold for a natural product-like compound library for drug discovery. <i>Bioorganic and Medicinal Chemistry</i> , 2015, 23, 2650-2655.   | 1.4 | 11        |
| 67 | Protocol to Study $\hat{I}^2$ -Arrestin Recruitment by CB1 and CB2 Cannabinoid Receptors. <i>Methods in Molecular Biology</i> , 2016, 1412, 103-111.   | 0.4 | 11        |
| 68 | Chemical Proteomic Analysis of Serine Hydrolase Activity in Niemann-Pick Type C Mouse Brain. <i>Frontiers in Neuroscience</i> , 2018, 12, 440.   | 1.4 | 11        |
| 69 | Structureâ€“Activity Relationship Studies of $\hat{I}^{\pm}$ -Ketoamides as Inhibitors of the Phospholipase A and Acyltransferase Enzyme Family. <i>Journal of Medicinal Chemistry</i> , 2020, 63, 9340-9359.                    | 2.9 | 11        |
| 70 | Development of a Cannabinoid-Based Photoaffinity Probe to Determine the $\hat{I}^{8/9}$ -Tetrahydrocannabinol Protein Interaction Landscape in Neuroblastoma Cells. <i>Cannabis and Cannabinoid Research</i> , 2018, 3, 136-151. | 1.5 | 10        |
| 71 | ABHD2 Inhibitor Identified by Activity-Based Protein Profiling Reduces Acrosome Reaction. <i>ACS Chemical Biology</i> , 2019, 14, 2295-2304.   | 1.6 | 10        |
| 72 | Activity-based protein profiling of the human failing ischemic heart reveals alterations in hydrolase activities involving the endocannabinoid system. <i>Pharmacological Research</i> , 2020, 151, 104578.                      | 3.1 | 10        |

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|----|--|-----|-----------|
| 73 | Chemical genetics strategy to profile kinase target engagement reveals role of FES in neutrophil phagocytosis. <i>Nature Communications</i> , 2020, 11, 3216.  | 5.8 | 10        |
| 74 | Cannabinoid type 1 receptor inverse agonism attenuates dyslipidemia and atherosclerosis in APOE <sup>-3</sup> -Leiden.CETP mice. <i>Journal of Lipid Research</i> , 2021, 62, 100070.                                  | 2.0 | 9         |
| 75 | Chiral disubstituted piperidinyl ureas: a class of dual diacylglycerol lipase- $\pm$ and ABHD6 inhibitors. <i>MedChemComm</i> , 2017, 8, 982-988.  | 3.5 | 8         |
| 76 | Structure Kinetics Relationships and Molecular Dynamics Show Crucial Role for Heterocycle Leaving Group in Irreversible Diacylglycerol Lipase Inhibitors. <i>Journal of Medicinal Chemistry</i> , 2019, 62, 7910-7922. | 2.9 | 8         |
| 77 | Structure-Activity Relationship Studies of Pyrimidine-4-Carboxamides as Inhibitors of <i>N</i> -Acylphosphatidylethanolamine Phospholipase D. <i>Journal of Medicinal Chemistry</i> , 2021, 64, 481-515.               | 2.9 | 8         |
| 78 | Novel activity-based probes for N-acylethanolamine acid amidase. <i>Chemical Communications</i> , 2017, 53, 11810-11813.   | 2.2 | 7         |
| 79 | Gene Expression of Endocannabinoid System Components in Skeletal Muscle and Adipose Tissue of South Asians and White Caucasians with Overweight. <i>Obesity</i> , 2018, 26, 1332-1337.                                 | 1.5 | 7         |
| 80 | The Chemical Biology-Medicinal Chemistry Continuum: EFMC's Vision. <i>ChemBioChem</i> , 2021, 22, 2823-2825.   | 1.3 | 7         |
| 81 | Chemical tools to modulate 2 $\omega$ -arachidonoylglycerol biosynthesis. <i>Biotechnology and Applied Biochemistry</i> , 2018, 65, 9-15.  | 1.4 | 6         |
| 82 | Two-step activity-based protein profiling of diacylglycerol lipase. <i>Organic and Biomolecular Chemistry</i> , 2018, 16, 5250-5253.   | 1.5 | 6         |
| 83 | Protein Dynamics Influence the Enzymatic Activity of Phospholipase A/Acyltransferases 3 and 4. <i>Biochemistry</i> , 2021, 60, 1178-1190.  | 1.2 | 6         |
| 84 | Olaparib-Based Photoaffinity Probes for PARP-1 Detection in Living Cells. <i>ChemBioChem</i> , 2020, 21, 2431-2434.  | 1.3 | 5         |
| 85 | STA-55, an Easily Accessible, Broad-Spectrum, Activity-Based Aldehyde Dehydrogenase Probe. <i>ChemBioChem</i> , 2020, 21, 1911-1917.   | 1.3 | 5         |
| 86 | Chemical Proteomics Reveals Off-Targets of the Anandamide Reuptake Inhibitor WOBE437. <i>ACS Chemical Biology</i> , 2022, 17, 1174-1183.   | 1.6 | 5         |
| 87 | Opportunities for Lipid-Based Probes in the Field of Immunology. <i>Current Topics in Microbiology and Immunology</i> , 2018, 420, 283-319.  | 0.7 | 4         |
| 88 | Comprehensive structure-activity-relationship of azaindoles as highly potent FLT3 inhibitors. <i>Bioorganic and Medicinal Chemistry</i> , 2019, 27, 692-699.   | 1.4 | 4         |
| 89 | Plasma Levels of Endocannabinoids and Their Analogues Are Related to Specific Fecal Bacterial Genera in Young Adults: Role in Gut Barrier Integrity. <i>Nutrients</i> , 2022, 14, 2143.                                | 1.7 | 4         |
| 90 | Asymmetric Synthesis of Lysine Analogues with Reduced Basicity, and their Incorporation into Proteasome Inhibitors. <i>European Journal of Organic Chemistry</i> , 2017, 2017, 5921-5934.                              | 1.2 | 3         |

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|----|---|-----|-----------|
| 91 | Piperidine and octahydropyrano[3,4-c] pyridine scaffolds for drug-like molecular libraries of the European Lead Factory. <i>Bioorganic and Medicinal Chemistry</i> , 2017, 25, 5160-5170. | 1.4 | 3         |
| 92 | Clickable Vitamins as a New Tool to Track Vitamin A and Retinoic Acid in Immune Cells. <i>Frontiers in Immunology</i> , 2021, 12, 671283.   | 2.2 | 3         |
| 93 | Oxygenation of Anandamide by Lipoxygenases. <i>Methods in Molecular Biology</i> , 2016, 1412, 217-225.  | 0.4 | 2         |
| 94 | Photo-crosslinking of clinically relevant kinases using H89-derived photo-affinity probes. <i>Molecular BioSystems</i> , 2016, 12, 1809-1817.   | 2.9 | 1         |