

# Riet Hilhorst

## List of Publications by Year in descending order

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55  
papers

2,241  
citations

218677

26  
h-index

214800

47  
g-index

59  
all docs

59  
docs citations

59  
times ranked

2509  
citing authors

#	ARTICLE	IF	CITATIONS
1	Triple-negative breast cancer: Present challenges and new perspectives. <i>Molecular Oncology</i> , 2010, 4, 209-229.	4.6	252
2	Rules for the regulation of enzyme activity in reversed micelles as illustrated by the conversion of apolar steroids by 20beta-hydroxysteroid dehydrogenase. <i>FEBS Journal</i> , 1984, 144, 459-466.	0.2	133
3	Isolating enzymes by reversed micelles. <i>Analytical Biochemistry</i> , 1989, 178, 217-226.	2.4	132
4	Peroxidase-Mediated Cross-Linking of a Tyrosine-Containing Peptide with Ferulic Acid. <i>Journal of Agricultural and Food Chemistry</i> , 2001, 49, 2503-2510.	5.2	131
5	Enzymatic conversion of apolar compounds in organic media using an NADH-regenerating system and dihydrogen as reductant. <i>FEBS Letters</i> , 1983, 159, 225-228.	2.8	121
6	Protein transfer from an aqueous phase into reversed micelles. The effect of protein size and charge distribution. <i>FEBS Journal</i> , 1989, 184, 627-633.	0.2	106
7	Comparison of Content in Phenolic Compounds, Polyphenol Oxidase, and Peroxidase in Grains of Fifty Sorghum Varieties from Burkina Faso. <i>Journal of Agricultural and Food Chemistry</i> , 2002, 50, 3780-3788.	5.2	95
8	Mass transfer rate of protein extraction with reversed micelles. <i>Chemical Engineering Science</i> , 1990, 45, 2949-2957.	3.8	88
9	Description of enzyme kinetics in reversed micelles. 1. Theory. <i>FEBS Journal</i> , 1990, 187, 59-72.	0.2	87
10	Detergentless microemulsions as media for enzymatic reactions. Cholesterol oxidation catalyzed by cholesterol oxidase. <i>FEBS Journal</i> , 1988, 176, 265-271.	0.2	66
11	Modeling and optimization of the reversed micellar extraction of $\alpha$ -amylase. <i>AIChE Journal</i> , 1989, 35, 321-324.	3.6	65
12	Effect of temperature on the reversed micellar extraction of enzymes. <i>The Chemical Engineering Journal</i> , 1991, 46, B69-B74.	0.3	63
13	Peptide microarrays for detailed, high-throughput substrate identification, kinetic characterization, and inhibition studies on protein kinase A. <i>Analytical Biochemistry</i> , 2009, 387, 150-161.	2.4	63
14	Kinome and mRNA expression profiling of high-grade osteosarcoma cell lines implies Akt signaling as possible target for therapy. <i>BMC Medical Genomics</i> , 2014, 7, 4.	1.5	59
15	Increased occurrence of protein kinase CK2 in astrocytes in Alzheimer's disease pathology. <i>Journal of Neuroinflammation</i> , 2016, 13, 4.	7.2	54
16	Fluorescence detection of enzymatically formed hydrogen peroxide in aqueous solution and in reversed micelles. <i>Analytical Biochemistry</i> , 1990, 187, 129-132.	2.4	49
17	Role of Riboflavin in Beer Flavor Instability: Determination of Levels of Riboflavin and Its Origin in Beer by Fluorometric Apoprotein Titration. <i>Journal of Agricultural and Food Chemistry</i> , 2002, 50, 1548-1552.	5.2	46
18	Protein Kinase Activity Decreases with Higher Braak Stages of Alzheimer's Disease Pathology. <i>Journal of Alzheimer's Disease</i> , 2016, 49, 927-943.	2.6	41

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19	Peptide Microarrays for Profiling of Serine/Threonine Kinase Activity of Recombinant Kinases and Lysates of Cells and Tissue Samples. <i>Methods in Molecular Biology</i> , 2013, 977, 259-271.	0.9	40
20	Enzyme inactivation and protection during entrapment in reversed micelles. <i>FEBS Journal</i> , 1993, 211, 73-77.	0.2	37
21	Horseradish Peroxidase-catalyzed Oligomerization of Ferulic Acid on a Template of a Tyrosine-containing Tripeptide. <i>Journal of Biological Chemistry</i> , 2002, 277, 21332-21340.	3.4	36
22	[20] Design of reversed micellar media for the enzymatic synthesis of apolar compounds. <i>Methods in Enzymology</i> , 1987, 136, 216-229.	1.0	35
23	Biochemical characterization of the major sorghum grain peroxidase. <i>FEBS Journal</i> , 2006, 273, 2293-2307.	4.7	33
24	Development of Selective Bisubstrate-Based Inhibitors Against Protein Kinase C (PKC) Isozymes By Using Dynamic Peptide Microarrays. <i>ChemBioChem</i> , 2009, 10, 2042-2051.	2.6	33
25	Analysis of Jak2 Catalytic Function by Peptide Microarrays: The Role of the JH2 Domain and V617F Mutation. <i>PLoS ONE</i> , 2011, 6, e18522.	2.5	32
26	Intracellular and extracellular domains of protein tyrosine phosphatase PTPRZ-B differentially regulate glioma cell growth and motility. <i>Oncotarget</i> , 2014, 5, 8690-8702.	1.8	28
27	Enzyme kinetics in reversed micelles. 3. Behaviour of 20beta-hydroxysteroid dehydrogenase. <i>FEBS Journal</i> , 1990, 187, 81-88.	0.2	26
28	Enzyme kinetics in reversed micelles. 2. Behaviour of enoate reductase. <i>FEBS Journal</i> , 1990, 187, 73-79.	0.2	23
29	The JH2 domain and SH2-JH2 linker regulate JAK2 activity: A detailed kinetic analysis of wild type and V617F mutant kinase domains. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2014, 1844, 1835-1841.	2.3	19
30	Comparative studies of the chemiluminescent horseradish peroxidase-catalysed peroxidation of acridan (GZ-11) and luminol reactions: effect of pH and scavengers of reactive oxygen species on the light intensity of these systems. <i>Luminescence</i> , 2000, 15, 189-197.	2.9	17
31	Phage antibodies against an unstable hapten: Oxygen sensitive reduced flavin. <i>FEBS Letters</i> , 1996, 388, 242-244.	2.8	16
32	Zymography of Monophenolase and o-Diphenolase Activities of Polyphenol Oxidase. <i>Analytical Biochemistry</i> , 2002, 306, 336-339.	2.4	16
33	Kinome Profiling to Predict Sensitivity to MAPK Inhibition in Melanoma and to Provide New Insights into Intrinsic and Acquired Mechanism of Resistance. <i>Cancers</i> , 2020, 12, 512.	3.7	15
34	Identification of Novel Substrates for cGMP Dependent Protein Kinase (PKG) through Kinase Activity Profiling to Understand Its Putative Role in Inherited Retinal Degeneration. <i>International Journal of Molecular Sciences</i> , 2021, 22, 1180.	4.1	15
35	Enhanced sensitivity of Cypridina luciferin analogue (CLA) chemiluminescence for the detection of O <sub>2</sub> with non-ionic detergents. <i>Luminescence</i> , 2001, 16, 45-50.	2.9	13
36	Characterization of protein-containing reversed micelles. <i>Biochemical Society Transactions</i> , 1991, 19, 666-670.	3.4	12

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37	Monoclonal Antibodies Against Two Electron Reduced Riboflavin and a Quantification of Affinity Constants for this Oxygen-Sensitive Molecule. <i>FEBS Journal</i> , 1995, 234, 245-250.	0.2	12
38	AKN-028 induces cell cycle arrest, downregulation of Myc associated genes and dose dependent reduction of tyrosine kinase activity in acute myeloid leukemia. <i>Biochemical Pharmacology</i> , 2014, 87, 284-291.	4.4	12
39	Evaluation of the neurotoxic effects of engineered nanomaterials in C57BL/6J mice in 28-day oral exposure studies. <i>NeuroToxicology</i> , 2021, 84, 155-171.	3.0	12
40	Kinase activity profiling identifies putative downstream targets of cGMP/PKG signaling in inherited retinal neurodegeneration. <i>Cell Death Discovery</i> , 2022, 8, 93.	4.7	12
41	Regulation and Prediction of Enzyme Activity in Reversed Micelles. <i>Biocatalysis</i> , 1988, 1, 293-299.	0.9	11
42	Protein Kinase Activity Profiling of Postmortem Human Brain Tissue. <i>Neurodegenerative Diseases</i> , 2012, 10, 46-48.	1.4	10
43	Chemical genetics strategy to profile kinase target engagement reveals role of FES in neutrophil phagocytosis. <i>Nature Communications</i> , 2020, 11, 3216.	12.8	10
44	Regulation of the Flavin Redox Potential by Flavin-Binding Antibodies. <i>FEBS Journal</i> , 1997, 249, 393-400.	0.2	9
45	Chemiluminescent determination of Ce(IV) using Cypridina luciferin analog. <i>Analytica Chimica Acta</i> , 2000, 422, 81-87.	5.4	9
46	Polysaccharide Hydrolases from Leaves of <i>Boscia senegalensis</i> : Properties of Endo-(1→3)- $\beta$ -D-Glucanase. <i>Applied Biochemistry and Biotechnology</i> , 2001, 94, 225-242.	2.9	8
47	KRSA: An R package and R Shiny web application for an end-to-end upstream kinase analysis of kinome array data. <i>PLoS ONE</i> , 2021, 16, e0260440.	2.5	8
48	Hapten Design for Antibody-Catalyzed Decarboxylation and Ring-Opening Reactions of Benzisoxazoles. <i>Israel Journal of Chemistry</i> , 1996, 36, 177-183.	2.3	7
49	Analysis of steady-state Förster resonance energy transfer data by avoiding pitfalls: Interaction of JAK2 tyrosine kinase with N-methylantraniloyl nucleotides. <i>Analytical Biochemistry</i> , 2013, 442, 213-222.	2.4	6
50	Peptide Microarrays for Real-Time Kinetic Profiling of Tyrosine Phosphatase Activity of Recombinant Phosphatases and Phosphatases in Lysates of Cells or Tissue Samples. <i>Methods in Molecular Biology</i> , 2016, 1447, 67-78.	0.9	2
51	Kinomic profiling of tumour xenografts derived from patients with non-small cell lung cancer confirms their fidelity and reveals potentially actionable pathways. <i>European Journal of Cancer</i> , 2021, 144, 17-30.	2.8	2
52	Time dependent effect of cold ischemia on the phosphoproteome and protein kinase activity in fresh-frozen colorectal cancer tissue obtained from patients. <i>Clinical Proteomics</i> , 2021, 18, 8.	2.1	2
53	Technological advancements to study cellular signaling pathways in inherited retinal degenerative diseases. <i>Current Opinion in Pharmacology</i> , 2021, 60, 102-110.	3.5	2
54	Inactive immune pathways in triple negative breast cancers that showed resistance to neoadjuvant chemotherapy as inferred from kinase activity profiles. <i>Oncotarget</i> , 2018, 9, 34229-34239.	1.8	2

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55	Photoinduced Charge Separation in Microemulsions. Progress in Biotechnology, 1992, 8, 313-320.	0.2	0