

# Reinout Raijmakers

## List of Publications by Citations

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54 papers	4,572 citations	33 h-index	56 g-index
56 ext. papers	4,978 ext. citations	7.6 avg, IF	4.98 L-index

#	Paper	IF	Citations
54	Multiplex peptide stable isotope dimethyl labeling for quantitative proteomics. <i>Nature Protocols</i> , <b>2009</b> , 4, 484-94	18.8	1072
53	AU binding proteins recruit the exosome to degrade ARE-containing mRNAs. <i>Cell</i> , <b>2001</b> , 107, 451-64	56.2	738
52	The mammalian exosome mediates the efficient degradation of mRNAs that contain AU-rich elements. <i>EMBO Journal</i> , <b>2002</b> , 21, 165-74	13	288
51	Increased citrullination of histone H3 in multiple sclerosis brain and animal models of demyelination: a role for tumor necrosis factor-induced peptidylarginine deiminase 4 translocation. <i>Journal of Neuroscience</i> , <b>2006</b> , 26, 11387-96	6.6	197
50	Methylation of arginine residues interferes with citrullination by peptidylarginine deiminases in vitro. <i>Journal of Molecular Biology</i> , <b>2007</b> , 367, 1118-29	6.5	119
49	Dis3-like 1: a novel exoribonuclease associated with the human exosome. <i>EMBO Journal</i> , <b>2010</b> , 29, 2358-67	10.9	109
48	Myelin localization of peptidylarginine deiminases 2 and 4: comparison of PAD2 and PAD4 activities. <i>Laboratory Investigation</i> , <b>2008</b> , 88, 354-64	5.9	101
47	Novel aspects of autoantibodies to the PM/Scl complex: clinical, genetic and diagnostic insights. <i>Autoimmunity Reviews</i> , <b>2007</b> , 6, 432-7	13.6	100
46	Profiling of N-acetylated protein termini provides in-depth insights into the N-terminal nature of the proteome. <i>Molecular and Cellular Proteomics</i> , <b>2010</b> , 9, 928-39	7.6	92
45	Three novel components of the human exosome. <i>Journal of Biological Chemistry</i> , <b>2001</b> , 276, 6177-84	5.4	89
44	In vivo profiling and visualization of cellular protein-lipid interactions using bifunctional fatty acids. <i>Angewandte Chemie - International Edition</i> , <b>2013</b> , 52, 4033-8	16.4	86
43	MPP6 is an exosome-associated RNA-binding protein involved in 5.8S rRNA maturation. <i>Nucleic Acids Research</i> , <b>2005</b> , 33, 6795-804	20.1	85
42	Protein-protein interactions between human exosome components support the assembly of RNase PH-type subunits into a six-membered PNPase-like ring. <i>Journal of Molecular Biology</i> , <b>2002</b> , 323, 653-63	6.5	82
41	Inhibition of peptidyl-arginine deiminases reverses protein-hypercitrullination and disease in mouse models of multiple sclerosis. <i>DMM Disease Models and Mechanisms</i> , <b>2013</b> , 6, 467-78	4.1	71
40	Exploring the human leukocyte phosphoproteome using a microfluidic reversed-phase-TiO2-reversed-phase high-performance liquid chromatography phosphochip coupled to a quadrupole time-of-flight mass spectrometer. <i>Analytical Chemistry</i> , <b>2010</b> , 82, 824-32	7.8	70
39	Autoantibodies directed to novel components of the PM/Scl complex, the human exosome. <i>Arthritis Research</i> , <b>2002</b> , 4, 134-8		69
38	The exosome, a molecular machine for controlled RNA degradation in both nucleus and cytoplasm. <i>European Journal of Cell Biology</i> , <b>2004</b> , 83, 175-83	6.1	68

37	Experimental autoimmune encephalomyelitis induction in peptidylarginine deiminase 2 knockout mice. <i>Journal of Comparative Neurology</i> , <b>2006</b> , 498, 217-26	3.4	66
36	Automated online sequential isotope labeling for protein quantitation applied to proteasome tissue-specific diversity. <i>Molecular and Cellular Proteomics</i> , <b>2008</b> , 7, 1755-62	7.6	63
35	Metal-free and pH-controlled introduction of azides in proteins. <i>Chemical Science</i> , <b>2011</b> , 2, 701	9.4	60
34	Applications of stable isotope dimethyl labeling in quantitative proteomics. <i>Analytical and Bioanalytical Chemistry</i> , <b>2012</b> , 404, 991-1009	4.4	57
33	Elevated levels of fibrinogen-derived endogenous citrullinated peptides in synovial fluid of rheumatoid arthritis patients. <i>Arthritis Research and Therapy</i> , <b>2012</b> , 14, R114	5.7	52
32	PM-Scl-75 is the main autoantigen in patients with the polymyositis/scleroderma overlap syndrome. <i>Arthritis and Rheumatism</i> , <b>2004</b> , 50, 565-9		51
31	Comparative multiplexed mass spectrometric analyses of endogenously expressed yeast nuclear and cytoplasmic exosomes. <i>Journal of Molecular Biology</i> , <b>2009</b> , 385, 1300-13	6.5	46
30	The human peptidylarginine deiminases type 2 and type 4 have distinct substrate specificities. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , <b>2014</b> , 1844, 829-36	4	45
29	Mapping of citrullinated fibrinogen B-cell epitopes in rheumatoid arthritis by imaging surface plasmon resonance. <i>Arthritis Research and Therapy</i> , <b>2010</b> , 12, R219	5.7	44
28	Cleavage specificities of the brother and sister proteases Lys-C and Lys-N. <i>Chemical Communications</i> , <b>2010</b> , 46, 8827-9	5.8	44
27	Citrullination of central nervous system proteins during the development of experimental autoimmune encephalomyelitis. <i>Journal of Comparative Neurology</i> , <b>2005</b> , 486, 243-53	3.4	43
26	The heterogeneous nuclear ribonucleoproteins I and K interact with a subset of the ro ribonucleoprotein-associated Y RNAs in vitro and in vivo. <i>Journal of Biological Chemistry</i> , <b>2001</b> , 276, 20711-8	5.4	41
25	Clinical evaluation of autoantibodies to a novel PM/Scl peptide antigen. <i>Arthritis Research</i> , <b>2005</b> , 7, R704-13		40
24	Increased peptidylarginine deiminase type II in hypoxic astrocytes. <i>Biochemical and Biophysical Research Communications</i> , <b>2004</b> , 325, 1324-9	3.4	36
23	Peptidylarginine deiminase expression and activity in PAD2 knock-out and PAD4-low mice. <i>Biochimie</i> , <b>2013</b> , 95, 299-308	4.6	34
22	Site-specific methionine oxidation in calmodulin affects structural integrity and interaction with Ca <sup>2+</sup> /calmodulin-dependent protein kinase II. <i>Journal of Structural Biology</i> , <b>2011</b> , 174, 187-95	3.4	33
21	Protein-protein interactions of hCsl4p with other human exosome subunits. <i>Journal of Molecular Biology</i> , <b>2002</b> , 315, 809-18	6.5	33
20	RockerBox: analysis and filtering of massive proteomics search results. <i>Journal of Proteome Research</i> , <b>2011</b> , 10, 1420-4	5.6	28

19	Cell and molecular biology of the exosome: how to make or break an RNA. <i>International Review of Cytology</i> , <b>2006</b> , 251, 159-208		28
18	A search for ceramide binding proteins using bifunctional lipid analogs yields CERT-related protein StarD7. <i>Journal of Lipid Research</i> , <b>2018</b> , 59, 515-530	6.3	27
17	Synthetic peptides: the future of patient management in systemic rheumatic diseases?. <i>Current Medicinal Chemistry</i> , <b>2007</b> , 14, 2831-8	4.3	26
16	Evaluation of the deuterium isotope effect in zwitterionic hydrophilic interaction liquid chromatography separations for implementation in a quantitative proteomic approach. <i>Analytical Chemistry</i> , <b>2011</b> , 83, 8352-6	7.8	25
15	ABAP: antibody-based assay for peptidylarginine deiminase activity. <i>Analytical Biochemistry</i> , <b>2007</b> , 369, 232-40	3.1	23
14	The association of the human PM/Scl-75 autoantigen with the exosome is dependent on a newly identified N terminus. <i>Journal of Biological Chemistry</i> , <b>2003</b> , 278, 30698-704	5.4	23
13	Quantifying cross-tissue diversity in proteasome complexes by mass spectrometry. <i>Molecular BioSystems</i> , <b>2010</b> , 6, 1450-3		18
12	Target profiling of a small library of phosphodiesterase 5 (PDE5) inhibitors using chemical proteomics. <i>ChemMedChem</i> , <b>2010</b> , 5, 1927-36	3.7	17
11	Deep proteome profiling of circulating granulocytes reveals bactericidal/permeability-increasing protein as a biomarker for severe atherosclerotic coronary stenosis. <i>Journal of Proteome Research</i> , <b>2012</b> , 11, 5235-44	5.6	16
10	Fully automated isotopic dimethyl labeling and phosphopeptide enrichment using a microfluidic HPLC phosphochip. <i>Analytical and Bioanalytical Chemistry</i> , <b>2012</b> , 404, 2507-12	4.4	15
9	Kinetics of human peptidylarginine deiminase 2 (hPAD2)--reduction of Ca <sup>2+</sup> dependence by phospholipids and assessment of proposed inhibition by paclitaxel side chains. <i>Biochemistry and Cell Biology</i> , <b>2008</b> , 86, 437-47	3.6	15
8	Autoantigenicity of nucleolar complexes. <i>Autoimmunity Reviews</i> , <b>2003</b> , 2, 313-21	13.6	15
7	Bifunktionalisierte Fettsäuren zur Visualisierung und Identifizierung von Protein-Lipid-Interaktionen in lebenden Zellen. <i>Angewandte Chemie</i> , <b>2013</b> , 125, 4125-4130	3.6	14
6	C1D is a major autoantibody target in patients with the polymyositis-scleroderma overlap syndrome. <i>Arthritis and Rheumatism</i> , <b>2007</b> , 56, 2449-54		13
5	Challenges and Controversies in Autoantibodies Associated with Systemic Rheumatic Diseases. <i>Current Rheumatology Reviews</i> , <b>2007</b> , 3, 67-78	1.6	12
4	Phosphatidylethanolamine-binding proteins, including RKIP, exhibit affinity for phosphodiesterase-5 inhibitors. <i>ChemBioChem</i> , <b>2009</b> , 10, 2654-62	3.8	11
3	Assessing biological variation and protein processing in primary human leukocytes by automated multiplex stable isotope labeling coupled to 2 dimensional peptide separation. <i>Molecular BioSystems</i> , <b>2009</b> , 5, 992-1003		10
2	Caspase-mediated cleavage of the exosome subunit PM/Scl-75 during apoptosis. <i>Arthritis Research and Therapy</i> , <b>2007</b> , 9, R12	5.7	7

- 1 Oxidative stress-induced modifications of histidyl-tRNA synthetase affect its tRNA aminoacylation activity but not its immunoreactivity. *Biochemistry and Cell Biology*, **2011**, 89, 545-53 3.6 2