

# Robert Karlsson

## List of Publications by Year in descending order

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43  
papers

5,439  
citations

186265  
28  
h-index

315739  
38  
g-index

45  
all docs

45  
docs citations

45  
times ranked

5090  
citing authors

#	ARTICLE	IF	CITATIONS
1	Surrogate potency assays: Comparison of binding profiles complements dose response curves for unambiguous assessment of relative potencies. <i>Journal of Pharmaceutical Analysis</i> , 2018, 8, 138-146.	5.3	10
2	Elucidating the Origin of Long Residence Time Binding for Inhibitors of the Metalloprotease Thermolysin. <i>ACS Chemical Biology</i> , 2017, 12, 225-233.	3.4	14
3	Identification of Fc Gamma Receptor Glycoforms That Produce Differential Binding Kinetics for Rituximab. <i>Molecular and Cellular Proteomics</i> , 2017, 16, 1770-1788.	3.8	64
4	Comparison of surface plasmon resonance binding curves for characterization of protein interactions and analysis of screening data. <i>Analytical Biochemistry</i> , 2016, 502, 53-63.	2.4	31
5	Evaluation of calibration-free concentration analysis provided by Biacore <sup>®</sup> systems. <i>Analytical Biochemistry</i> , 2016, 510, 88-97.	2.4	35
6	Rational Design of Thermodynamic and Kinetic Binding Profiles by Optimizing Surface Water Networks Coating Protein-Bound Ligands. <i>Journal of Medicinal Chemistry</i> , 2016, 59, 10530-10548.	6.4	64
7	Biosensor binding data and its applicability to the determination of active concentration. <i>Biophysical Reviews</i> , 2016, 8, 347-358.	3.2	21
8	Calibration-free concentration analysis of protein biomarkers in human serum using surface plasmon resonance. <i>Talanta</i> , 2015, 144, 801-808.	5.5	22
9	Pre-labeling of diverse protein samples with a fixed amount of Cy5 for sodium dodecyl sulfate <sup>®</sup> polyacrylamide gel electrophoresis analysis. <i>Analytical Biochemistry</i> , 2015, 484, 51-57.	2.4	6
10	Fc Gamma Receptor Glycosylation Modulates the Binding of IgG Glycoforms: A Requirement for Stable Antibody Interactions. <i>Journal of Proteome Research</i> , 2014, 13, 5471-5485.	3.7	61
11	Surface Plasmon Resonance in Binding Site, Kinetic, and Concentration Analyses. , 2013, , 209-221.		4
12	New insights into DNA-binding behavior of Wilms Tumor Protein (WT1) <sup>®</sup> A dual study. <i>Biophysical Chemistry</i> , 2009, 145, 116-125.	2.8	11
13	Label-Free Primary Screening and Affinity Ranking of Fragment Libraries Using Parallel Analysis of Protein Panels. <i>Journal of Biomolecular Screening</i> , 2008, 13, 202-209.	2.6	50
14	Biosensor-based characterization of serum antibodies during development of an anti-IgE immunotherapeutic against allergy and asthma. <i>Journal of Molecular Recognition</i> , 2007, 20, 22-31.	2.1	30
15	Statistical aspects of van't Hoff analysis: a simulation study. <i>Journal of Molecular Recognition</i> , 2007, 20, 379-385.	2.1	21
16	Label-free kinetic binding data as a decisive element in drug discovery. <i>Expert Opinion on Drug Discovery</i> , 2006, 1, 439-446.	5.0	26
17	Analyzing a kinetic titration series using affinity biosensors. <i>Analytical Biochemistry</i> , 2006, 349, 136-147.	2.4	352
18	Screening antibody <sup>®</sup> antigen interactions in parallel using Biacore A100. <i>Analytical Biochemistry</i> , 2006, 353, 181-190.	2.4	108

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19	Kinetic studies of small molecule interactions with protein kinases using biosensor technology. Analytical Biochemistry, 2005, 340, 359-368.	2.4	94
20	Biosensor Analysis of the Interaction between Drug Compounds and Liposomes of Different Properties; a Two-Dimensional Characterization Tool for Estimation of Membrane Absorption. Journal of Pharmaceutical Sciences, 2005, 94, 25-37.	3.3	33
21	Affinity Measurement Using Surface Plasmon Resonance. , 2004, 248, 389-416.		25
22	SPR for molecular interaction analysis: a review of emerging application areas. Journal of Molecular Recognition, 2004, 17, 151-161.	2.1	391
23	A Thermodynamic Characterization of the Binding of Thrombin Inhibitors to Human Thrombin, Combining Biosensor Technology, Stopped-Flow Spectrophotometry, and Microcalorimetry. Analytical Biochemistry, 2002, 300, 152-162.	2.4	40
24	Determination of Interaction Kinetic Constants for HIV-1 Protease Inhibitors Using Optical Biosensor Technology. Analytical Biochemistry, 2001, 291, 207-218.	2.4	58
25	Biosensor Analysis of Drug-Target Interactions: Direct and Competitive Binding Assays for Investigation of Interactions between Thrombin and Thrombin Inhibitors. Analytical Biochemistry, 2000, 278, 1-13.	2.4	133
26	SPR Biosensor Studies of the Direct Interaction between 27 Drugs and a Liposome Surface: A Correlation with Fraction Absorbed in Humans. Journal of Medicinal Chemistry, 2000, 43, 2083-2086.	6.4	133
27	Biosensor Analysis of the Interaction between Immobilized Human Serum Albumin and Drug Compounds for Prediction of Human Serum Albumin Binding Levels. Journal of Medicinal Chemistry, 2000, 43, 1986-1992.	6.4	288
28	Affinity analysis of non-steady-state data obtained under mass transport limited conditions using BIAcore technology. , 1999, 12, 285-292.		95
29	Thermodynamic analysis of protein interactions with biosensor technology. , 1998, 11, 204-210.		95
30	BIAcore Technology - A Marriage Partner to Mass Spectrometry ?. , 1998, , 295-303.		0
31	Experimental design for kinetic analysis of protein-protein interactions with surface plasmon resonance biosensors. Journal of Immunological Methods, 1997, 200, 121-133.	1.4	524
32	Biomolecular interaction analysis: affinity biosensor technologies for functional analysis of proteins. Current Opinion in Chemical Biology, 1997, 1, 378-383.	6.1	127
33	Kinetic analysis of the interaction between protein a domain variants and human Fc using plasmon resonance detection. Journal of Molecular Recognition, 1995, 8, 270-278.	2.1	80
34	Direct and competitive kinetic analysis of the interaction between human IgG1 and a one domain analogue of protein A. Journal of Immunological Methods, 1995, 183, 43-49.	1.4	32
35	Binding of autoreactive mouse anti-type II collagen antibodies derived from the primary and the secondary immune response investigated with the biosensor technique. Journal of Immunological Methods, 1995, 188, 63-71.	1.4	49
36	Kinetic and Concentration Analysis Using BIA Technology. Methods, 1994, 6, 99-110.	3.8	251

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37	Analysis of active antibody concentration. Separation of affinity and concentration parameters. Journal of Immunological Methods, 1993, 166, 75-84.	1.4	130
38	Biospecific interaction analysis using surface plasmon resonance detection applied to kinetic, binding site and concentration analysis. Journal of Chromatography A, 1992, 597, 397-410.	3.7	431
39	047 Biospecific interaction analysis using surface plasmon resonance detection. Mapping of binding sites on IGF-II and kinetic analysis of the interaction of IGF-II with IGFBP-1 and the IGF-II receptor. Fresenius' Journal of Analytical Chemistry, 1992, 343, 100-101.	1.5	0
40	Analysis of macromolecular interactions using immobilized ligands. Analytical Biochemistry, 1992, 201, 197-210.	2.4	195
41	Kinetic analysis of monoclonal antibody-antigen interactions with a new biosensor based analytical system. Journal of Immunological Methods, 1991, 145, 229-240.	1.4	1,080
42	Detection of antigen-antibody interactions by surface plasmon resonance. Application to Epitope Mapping. Journal of Molecular Recognition, 1990, 3, 208-214.	2.1	218
43	Use of Isotachophoresis for Identification of Pollen Allergens. International Archives of Allergy and Immunology, 1982, 68, 222-225.	2.1	6