

# 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	Kinetic analysis of monoclonal antibody-antigen interactions with a new biosensor based analytical system. <i>Journal of Immunological Methods</i> , 1991, 145, 229-240.	1.4	1,080
2	Experimental design for kinetic analysis of protein-protein interactions with surface plasmon resonance biosensors. <i>Journal of Immunological Methods</i> , 1997, 200, 121-133.	1.4	524
3	Biospecific interaction analysis using surface plasmon resonance detection applied to kinetic, binding site and concentration analysis. <i>Journal of Chromatography A</i> , 1992, 597, 397-410.	3.7	431
4	SPR for molecular interaction analysis: a review of emerging application areas. <i>Journal of Molecular Recognition</i> , 2004, 17, 151-161.	2.1	391
5	Analyzing a kinetic titration series using affinity biosensors. <i>Analytical Biochemistry</i> , 2006, 349, 136-147.	2.4	352
6	Biosensor Analysis of the Interaction between Immobilized Human Serum Albumin and Drug Compounds for Prediction of Human Serum Albumin Binding Levels. <i>Journal of Medicinal Chemistry</i> , 2000, 43, 1986-1992.	6.4	288
7	Kinetic and Concentration Analysis Using BIA Technology. <i>Methods</i> , 1994, 6, 99-110.	3.8	251
8	Detection of antigen-antibody interactions by surface plasmon resonance. Application to Epitope Mapping. <i>Journal of Molecular Recognition</i> , 1990, 3, 208-214.	2.1	218
9	Analysis of macromolecular interactions using immobilized ligands. <i>Analytical Biochemistry</i> , 1992, 201, 197-210.	2.4	195
10	Biosensor Analysis of Drug-Target Interactions: Direct and Competitive Binding Assays for Investigation of Interactions between Thrombin and Thrombin Inhibitors. <i>Analytical Biochemistry</i> , 2000, 278, 1-13.	2.4	133
11	SPR Biosensor Studies of the Direct Interaction between 27 Drugs and a Liposome Surface: Correlation with Fraction Absorbed in Humans. <i>Journal of Medicinal Chemistry</i> , 2000, 43, 2083-2086.	6.4	133
12	Analysis of active antibody concentration. Separation of affinity and concentration parameters. <i>Journal of Immunological Methods</i> , 1993, 166, 75-84.	1.4	130
13	Biomolecular interaction analysis: affinity biosensor technologies for functional analysis of proteins. <i>Current Opinion in Chemical Biology</i> , 1997, 1, 378-383.	6.1	127
14	Screening antibody-antigen interactions in parallel using Biacore A100. <i>Analytical Biochemistry</i> , 2006, 353, 181-190.	2.4	108
15	Thermodynamic analysis of protein interactions with biosensor technology. , 1998, 11, 204-210.		95
16	Affinity analysis of non-steady-state data obtained under mass transport limited conditions using BIAcore technology. , 1999, 12, 285-292.		95
17	Kinetic studies of small molecule interactions with protein kinases using biosensor technology. <i>Analytical Biochemistry</i> , 2005, 340, 359-368.	2.4	94
18	Kinetic analysis of the interaction between protein a domain variants and human Fc using plasmon resonance detection. <i>Journal of Molecular Recognition</i> , 1995, 8, 270-278.	2.1	80

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19	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
20	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
21	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
22	Determination of Interaction Kinetic Constants for HIV-1 Protease Inhibitors Using Optical Biosensor Technology. <i>Analytical Biochemistry</i> , 2001, 291, 207-218.	2.4	58
23	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
24	Binding of autoreactive mouse anti-type II collagen antibodies derived from the primary and the secondary immune response investigated with the biosensor technique. <i>Journal of Immunological Methods</i> , 1995, 188, 63-71.	1.4	49
25	A Thermodynamic Characterization of the Binding of Thrombin Inhibitors to Human Thrombin, Combining Biosensor Technology, Stopped-Flow Spectrophotometry, and Microcalorimetry. <i>Analytical Biochemistry</i> , 2002, 300, 152-162.	2.4	40
26	Evaluation of calibration-free concentration analysis provided by Biacore <sup>®</sup> systems. <i>Analytical Biochemistry</i> , 2016, 510, 88-97.	2.4	35
27	Biosensor Analysis of the Interaction between Drug Compounds and Liposomes of Different Properties; a Two-Dimensional Characterization Tool for Estimation of Membrane Absorption. <i>Journal of Pharmaceutical Sciences</i> , 2005, 94, 25-37.	3.3	33
28	Direct and competitive kinetic analysis of the interaction between human IgG1 and a one domain analogue of protein A. <i>Journal of Immunological Methods</i> , 1995, 183, 43-49.	1.4	32
29	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
30	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
31	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
32	Affinity Measurement Using Surface Plasmon Resonance. , 2004, 248, 389-416.		25
33	Calibration-free concentration analysis of protein biomarkers in human serum using surface plasmon resonance. <i>Talanta</i> , 2015, 144, 801-808.	5.5	22
34	Statistical aspects of van't Hoff analysis: a simulation study. <i>Journal of Molecular Recognition</i> , 2007, 20, 379-385.	2.1	21
35	Biosensor binding data and its applicability to the determination of active concentration. <i>Biophysical Reviews</i> , 2016, 8, 347-358.	3.2	21
36	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

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37	New insights into DNA-binding behavior of Wilms Tumor Protein (WT1) – A dual study. Biophysical Chemistry, 2009, 145, 116-125.	2.8	11
38	Surrogate potency assays: Comparison of binding profiles complements dose response curves for unambiguous assessment of relative potencies. Journal of Pharmaceutical Analysis, 2018, 8, 138-146.	5.3	10
39	Use of Isotachophoresis for Identification of Pollen Allergens. International Archives of Allergy and Immunology, 1982, 68, 222-225.	2.1	6
40	Pre-labeling of diverse protein samples with a fixed amount of Cy5 for sodium dodecyl sulfate–polyacrylamide gel electrophoresis analysis. Analytical Biochemistry, 2015, 484, 51-57.	2.4	6
41	Surface Plasmon Resonance in Binding Site, Kinetic, and Concentration Analyses. , 2013, , 209-221.		4
42	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
43	BIACore Technology – A Marriage Partner to Mass Spectrometry ?. , 1998, , 295-303.		0