

# Richard O kennedy

## List of Publications by Citations

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84  
papers

5,119  
citations

37  
h-index

71  
g-index

85  
ext. papers

5,502  
ext. citations

5.5  
avg, IF

5.4  
L-index

#	Paper	IF	Citations
84	Studies on coumarins and coumarin-related compounds to determine their therapeutic role in the treatment of cancer. <i>Current Pharmaceutical Design</i> , <b>2004</b> , 10, 3797-811	3.3	438
83	The pharmacology, metabolism, analysis, and applications of coumarin and coumarin-related compounds. <i>Drug Metabolism Reviews</i> , <b>1990</b> , 22, 503-29	7	429
82	Oriented immobilization of antibodies and its applications in immunoassays and immunosensors. <i>Analyst, The</i> , <b>1996</b> , 121, 29R-32R	5	295
81	Mastitis detection: current trends and future perspectives. <i>Trends in Biotechnology</i> , <b>2009</b> , 27, 486-93	15.1	282
80	Antibody-based sensors: principles, problems and potential for detection of pathogens and associated toxins. <i>Sensors</i> , <b>2009</b> , 9, 4407-45	3.8	248
79	Biosensor developments: application to prostate-specific antigen detection. <i>Trends in Biotechnology</i> , <b>2007</b> , 25, 125-31	15.1	216
78	Cardiac biomarkers and the case for point-of-care testing. <i>Clinical Biochemistry</i> , <b>2009</b> , 42, 549-61	3.5	195
77	Development of surface plasmon resonance-based immunoassay for aflatoxin B(1). <i>Journal of Agricultural and Food Chemistry</i> , <b>2000</b> , 48, 5097-104	5.7	162
76	A generic approach for the detection of whole <i>Listeria monocytogenes</i> cells in contaminated samples using surface plasmon resonance. <i>Biosensors and Bioelectronics</i> , <b>2004</b> , 19, 1331-5	11.8	144
75	Development and application of surface plasmon resonance-based biosensors for the detection of cell-ligand interactions. <i>Analytical Biochemistry</i> , <b>2000</b> , 281, 135-43	3.1	128
74	Integrated microfluidic tmRNA purification and real-time NASBA device for molecular diagnostics. <i>Lab on A Chip</i> , <b>2008</b> , 8, 2071-8	7.2	125
73	Effect of antibody immobilization strategies on the analytical performance of a surface plasmon resonance-based immunoassay. <i>Analyst, The</i> , <b>2011</b> , 136, 4431-6	5	122
72	Multisubstrate-compatible ELISA procedures for rapid and high-sensitivity immunoassays. <i>Nature Protocols</i> , <b>2011</b> , 6, 439-45	18.8	113
71	Development of a high sensitivity rapid sandwich ELISA procedure and its comparison with the conventional approach. <i>Analytical Chemistry</i> , <b>2010</b> , 82, 7049-52	7.8	113
70	Sialic acids: carbohydrate moieties that influence the biological and physical properties of biopharmaceutical proteins and living cells. <i>Drug Discovery Today</i> , <b>2007</b> , 12, 319-26	8.8	110
69	Studies on the cytostatic and cytotoxic effects and mode of action of 8-nitro-7-hydroxycoumarin. <i>Cancer Letters</i> , <b>1997</b> , 118, 201-11	9.9	108
68	The preparation of a molecular imprinted polymer to 7-hydroxycoumarin and its use as a solid-phase extraction material. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , <b>1997</b> , 16, 319-25	3.5	97

67	The development of rapid fluorescence-based immunoassays, using quantum dot-labelled antibodies for the detection of <i>Listeria monocytogenes</i> cell surface proteins. <i>International Journal of Biological Macromolecules</i> , <b>2006</b> , 39, 127-34	7.9	84
66	Detection of blood group antigens utilising immobilised antibodies and surface plasmon resonance. <i>Journal of Immunological Methods</i> , <b>1997</b> , 206, 87-96	2.5	80
65	Expression of terminal alpha2-6-linked sialic acid on von Willebrand factor specifically enhances proteolysis by ADAMTS13. <i>Blood</i> , <b>2010</b> , 115, 2666-73	2.2	71
64	The increasing importance of carbon nanotubes and nanostructured conducting polymers in biosensors. <i>Analytical and Bioanalytical Chemistry</i> , <b>2010</b> , 398, 1575-89	4.4	70
63	Production, characterisation and potential application of a novel monoclonal antibody for rapid identification of virulent <i>Listeria monocytogenes</i> . <i>Journal of Microbiological Methods</i> , <b>2006</b> , 66, 294-312	2.8	66
62	High throughput ranking of recombinant avian scFv antibody fragments from crude lysates using the Biacore A100. <i>Journal of Immunological Methods</i> , <b>2007</b> , 323, 172-9	2.5	62
61	The development of a 'labelless' immunosensor for the detection of <i>Listeria monocytogenes</i> cell surface protein, Internalin B. <i>Biosensors and Bioelectronics</i> , <b>2008</b> , 23, 906-12	11.8	62
60	Immunoassay for the determination of morphine-3-glucuronide using a surface plasmon resonance-based biosensor. <i>Biosensors and Bioelectronics</i> , <b>2003</b> , 18, 217-27	11.8	62
59	Nanobiotechnologies for the detection and reduction of pathogens. <i>Enzyme and Microbial Technology</i> , <b>2012</b> , 50, 87-95	3.8	56
58	Detection of prostate specific antigen based on electrocatalytic platinum nanoparticles conjugated to a recombinant scFv antibody. <i>Biosensors and Bioelectronics</i> , <b>2016</b> , 77, 759-66	11.8	54
57	The use of regenerable, affinity ligand-based surfaces for immunosensor applications. <i>Biosensors and Bioelectronics</i> , <b>1999</b> , 14, 587-95	11.8	54
56	Detection of fungal spores using a generic surface plasmon resonance immunoassay. <i>Biosensors and Bioelectronics</i> , <b>2007</b> , 22, 2724-9	11.8	51
55	Evaluation of apparent non-specific protein loss due to adsorption on sample tube surfaces and/or altered immunogenicity. <i>Analyst, The</i> , <b>2011</b> , 136, 1406-11	5	43
54	Surface Plasmon Resonance-Based Immunoassay for the Detection of Aflatoxin B1 Using Single-Chain Antibody Fragments. <i>Spectroscopy Letters</i> , <b>2005</b> , 38, 229-245	1.1	41
53	The development and application of a surface plasmon resonance-based inhibition immunoassay for the determination of warfarin in plasma ultrafiltrate. <i>Journal of Immunological Methods</i> , <b>2004</b> , 291, 11-25	2.5	39
52	Production and Characterization of Murine Single Chain Fv Antibodies to Aflatoxin B 1 Derived From a Pre-immunized Antibody Phage Display Library System. <i>Food and Agricultural Immunology</i> , <b>2002</b> , 14, 255-274	2.9	39
51	Kinetics of immunoassays with particles as labels: effect of antibody coupling using dendrimers as linkers. <i>Analyst, The</i> , <b>2011</b> , 136, 2533-41	5	38
50	Development of a surface plasmon resonance-based immunoassay for <i>Listeria monocytogenes</i> . <i>Journal of Food Protection</i> , <b>2005</b> , 68, 728-35	2.5	38

49	Biosensor-based estimation of kinetic and equilibrium constants. <i>Analytical Biochemistry</i> , <b>2001</b> , 290, 36-46	3.1	38
48	Applications and Recent Developments in the use of Antibodies for Analysis. <i>Analytical Letters</i> , <b>2000</b> , 33, 2563-2609	2.2	37
47	Rapid and sensitive determination of coumarin and 7-hydroxycoumarin and its glucuronide conjugate in urine and plasma by high-performance liquid chromatography. <i>Biomedical Applications</i> , <b>1992</b> , 582, 137-43		37
46	Comparison of the tetrazolium salt assay for succinate dehydrogenase with the cytosensor microphysiometer in the assessment of compound toxicities. <i>Analytical Biochemistry</i> , <b>1999</b> , 274, 188-94	3.1	35
45	Determination of free and total 7-hydroxycoumarin in urine and serum by capillary electrophoresis. <i>Biomedical Applications</i> , <b>1995</b> , 663, 371-8		32
44	Immunological activities of IgG antibody on pre-coated Fc receptor surfaces. <i>Analytica Chimica Acta</i> , <b>1996</b> , 331, 97-102	6.6	30
43	Analysis of coumarin and its urinary metabolites by high-performance liquid chromatography. <i>Biomedical Applications</i> , <b>1987</b> , 416, 165-9		30
42	Electrochemiluminescence platform for the detection of C-reactive proteins: application of recombinant antibody technology to cardiac biomarker detection. <i>RSC Advances</i> , <b>2015</b> , 5, 67874-67877	3.7	29
41	Microfluidic sedimentation cytometer for milk quality and bovine mastitis monitoring. <i>Biomedical Microdevices</i> , <b>2010</b> , 12, 1051-9	3.7	28
40	Diagnostic evaluation of a nanobody with picomolar affinity toward the protease RgpB from <i>Porphyromonas gingivalis</i> . <i>Analytical Biochemistry</i> , <b>2011</b> , 415, 158-67	3.1	25
39	Don't blame it all on antibodies   The need for exhaustive characterisation, appropriate handling, and addressing the issues that affect specificity. <i>TrAC - Trends in Analytical Chemistry</i> , <b>2017</b> , 89, 53-59	14.6	24
38	Advances in ovarian cancer diagnosis: A journey from immunoassays to immunosensors. <i>Enzyme and Microbial Technology</i> , <b>2016</b> , 89, 15-30	3.8	23
37	Generation of an anti-NAGase single chain antibody and its application in a biosensor-based assay for the detection of NAGase in milk. <i>Journal of Immunological Methods</i> , <b>2011</b> , 364, 14-20	2.5	23
36	Production of a recombinant anti-morphine-3-glucuronide single-chain variable fragment (scFv) antibody for the development of a "real-time" biosensor-based immunoassay. <i>Journal of Immunological Methods</i> , <b>2003</b> , 276, 151-61	2.5	23
35	Highly sensitive recombinant antibodies capable of reliably differentiating heart-type fatty acid binding protein from noncardiac isoforms. <i>Analytical Biochemistry</i> , <b>2010</b> , 407, 165-71	3.1	22
34	Point-of-Care Compatibility of Ultra-Sensitive Detection Techniques for the Cardiac Biomarker Troponin I-Challenges and Potential Value. <i>Biosensors</i> , <b>2018</b> , 8,	5.9	22
33	Development of a regenerable amperometric immunosensor for 7-hydroxycoumarin. <i>Electroanalysis</i> , <b>1996</b> , 8, 619-622	3	20
32	Development of an antibody-based biosensor for determination of 7-hydroxycoumarin (umbelliferone) using horseradish peroxidase labelled anti-7-hydroxycoumarin antibody. <i>Analytica Chimica Acta</i> , <b>1994</b> , 294, 291-297	6.6	20

31	Novel assay format permitting the prolonged use of regeneration-based sensor chip technology. <i>Journal of Immunological Methods</i> , <b>2005</b> , 296, 77-82	2.5	17
30	Transduction Platforms and Biointerfacial Design of Biosensors for 'Real-Time' Biomolecular Interaction Analysis. <i>Analytical Letters</i> , <b>1999</b> , 32, 1475-1517	2.2	17
29	Evaluation of Molecularly Imprinted Polymers for Point-of-Care Testing for Cardiovascular Disease. <i>Sensors</i> , <b>2019</b> , 19,	3.8	16
28	Application of an immunosensor for the detection of the $\beta$ -lactam antibiotic, cephalexin. <i>Food and Agricultural Immunology</i> , <b>2003</b> , 15, 225-234	2.9	16
27	Immunoassay for the Determination of 7-Hydroxycoumarin in Serum Using 'Real-Time' Biosensor Analysis. <i>Analytical Letters</i> , <b>1999</b> , 32, 2163-2176	2.2	16
26	Development of an antibody-based amperometric biosensor to study the reaction of 7-hydroxycoumarin with its specific antibody. <i>Analyst, The</i> , <b>1993</b> , 118, 411-3	5	16
25	Study of coumarin metabolism by human liver microsomes using capillary electrophoresis. <i>Analytica Chimica Acta</i> , <b>1995</b> , 310, 101-107	6.6	16
24	Facile domain rearrangement abrogates expression recalcitrance in a rabbit scFv. <i>Applied Microbiology and Biotechnology</i> , <b>2015</b> , 99, 2693-703	5.7	14
23	Monoclonal antibodies for the detection of <i>Puccinia striiformis</i> urediniospores. <i>Mycological Research</i> , <b>2007</b> , 111, 332-8		14
22	Analysis of the glucuronidation of 7-hydroxycoumarin by HPLC. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , <b>1996</b> , 14, 1585-90	3.5	14
21	Spectrofluorimetric method for the quantification of 7-hydroxycoumarin in urine and plasma using both extracted and unextracted samples. <i>Analyst, The</i> , <b>1993</b> , 118, 201-3	5	14
20	Simultaneous determination of coumarin, 7-hydroxycoumarin and 7-hydroxycoumarin glucuronide in human serum and plasma by high-performance liquid chromatography. <i>Biomedical Applications</i> , <b>1996</b> , 686, 267-73		13
19	Measuring protein-protein interactions using Biacore. <i>Methods in Molecular Biology</i> , <b>2011</b> , 681, 403-18	1.4	10
18	Exploiting recombinant antibodies in point-of-care (POC) diagnostics: the combinatorial advantage. <i>Bioengineered Bugs</i> , <b>2011</b> , 2, 182-6		10
17	Novel disposable biochip platform employing supercritical angle fluorescence for enhanced fluorescence collection. <i>Biomedical Microdevices</i> , <b>2011</b> , 13, 759-67	3.7	8
16	Development of a surface plasmon resonance-based assay for the detection of <i>Corynebacterium pseudotuberculosis</i> infection in sheep. <i>Analytica Chimica Acta</i> , <b>2009</b> , 651, 98-104	6.6	8
15	Development and Use of Antibodies in Surface Plasmon Resonance-Based Immunosensors for Environmental Monitoring. <i>International Journal of Environmental Analytical Chemistry</i> , <b>2003</b> , 83, 525-543	1.8	8
14	Development of ELISA and Sensor-based Assays for the Detection of Ethynyl Estradiol in Bile. <i>Food and Agricultural Immunology</i> , <b>2003</b> , 15, 55-64	2.9	8

13	Measuring Protein-Protein Interactions Using Biacore. <i>Methods in Molecular Biology</i> , <b>2017</b> , 1485, 339-354.	4	7
12	Bispecific multivalent antibody studied by real-time interaction analysis for the development of an antigen-inhibition enzyme-linked immunosorbent assay. <i>Analyst, The</i> , <b>1996</b> , 121, 767-71	5	7
11	Speedy, Small, Sensitive, and Specific Reality or Myth for Future Analytical Methods. <i>Analytical Letters</i> , <b>2010</b> , 43, 1630-1648	2.2	5
10	In vitro glucuronidation of 7-hydroxycoumarin and determination of 7-hydroxycoumarin and 7-hydroxycoumarin glucuronide by capillary electrophoresis. <i>Journal of Chromatography A</i> , <b>1997</b> , 772, 321-326	4.5	5
9	PRODUCTION AND ANALYTICAL APPLICATIONS OF scFv ANTIBODY FRAGMENTS. <i>Analytical Letters</i> , <b>2001</b> , 34, 1799-1827	2.2	5
8	Laser-actuated centrifugo-pneumatic flow control towards sample-to-answer integrated detection of multi-marker panels at the point-of-care <b>2018</b> ,		4
7	Development of surface-plasmon-resonance-based immunoassay for cephalixin <b>2003</b> , 4876, 911		1
6	Establishment and preliminary characterization of a new myeloma cell line, C23/11. <i>Biochemical Society Transactions</i> , <b>1989</b> , 17, 1055-6	5.1	1
5	The analysis, metabolism and encapsulation of coumarin. <i>Biochemical Society Transactions</i> , <b>1984</b> , 12, 459-460	5.1	1
4	Biosensors for Sensitive Detection of Agricultural Contaminants, Pathogens and Food-Borne Toxins <b>2012</b> , 858-876		
3	Characterization of monoclonal antibodies against apolipoprotein B. <i>Biochemical Society Transactions</i> , <b>1986</b> , 14, 475-476	5.1	
2	Production and characterization of monoclonal antibodies to mitogen-activated human lymphocytes. <i>Biochemical Society Transactions</i> , <b>1985</b> , 13, 460-461	5.1	
1	Production and characterization of monoclonal antibodies against human apolipoproteins. <i>Biochemical Society Transactions</i> , <b>1985</b> , 13, 478-478	5.1	