

Gabriel A Kwong

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

39
papers

2,510
citations

18
h-index

50
g-index

50
ext. papers

2,966
ext. citations

16.6
avg, IF

4.71
L-index

#	Paper	IF	Citations
39	Integrated barcode chips for rapid, multiplexed analysis of proteins in microliter quantities of blood. <i>Nature Biotechnology</i> , 2008 , 26, 1373-8	44.5	451
38	Quantitative real-time measurements of DNA hybridization with alkylated nonoxidized silicon nanowires in electrolyte solution. <i>Journal of the American Chemical Society</i> , 2006 , 128, 16323-31	16.4	422
37	A clinical microchip for evaluation of single immune cells reveals high functional heterogeneity in phenotypically similar T cells. <i>Nature Medicine</i> , 2011 , 17, 738-43	50.5	341
36	Programmable probiotics for detection of cancer in urine. <i>Science Translational Medicine</i> , 2015 , 7, 289ra84	17.5	238
35	DNA-encoded antibody libraries: a unified platform for multiplexed cell sorting and detection of genes and proteins. <i>Journal of the American Chemical Society</i> , 2007 , 129, 1959-67	16.4	228
34	Point-of-care diagnostics for noncommunicable diseases using synthetic urinary biomarkers and paper microfluidics. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 3671-6	11.5	133
33	Mass-encoded synthetic biomarkers for multiplexed urinary monitoring of disease. <i>Nature Biotechnology</i> , 2013 , 31, 63-70	44.5	121
32	Nanoparticles that sense thrombin activity as synthetic urinary biomarkers of thrombosis. <i>ACS Nano</i> , 2013 , 7, 9001-9	16.7	77
31	Modular nucleic acid assembled p/MHC microarrays for multiplexed sorting of antigen-specific T cells. <i>Journal of the American Chemical Society</i> , 2009 , 131, 9695-703	16.4	74
30	High-density, multiplexed patterning of cells at single-cell resolution for tissue engineering and other applications. <i>Angewandte Chemie - International Edition</i> , 2011 , 50, 7378-80	16.4	50
29	Iterative in situ click chemistry assembles a branched capture agent and allosteric inhibitor for Akt1. <i>Journal of the American Chemical Society</i> , 2011 , 133, 18280-8	16.4	44
28	Disease detection by ultrasensitive quantification of microdosed synthetic urinary biomarkers. <i>Journal of the American Chemical Society</i> , 2014 , 136, 13709-14	16.4	40
27	Non-invasive early detection of acute transplant rejection via nanosensors of granzyme B activity. <i>Nature Biomedical Engineering</i> , 2019 , 3, 281-291	19	39
26	Mathematical framework for activity-based cancer biomarkers. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, 12627-32	11.5	29
25	Self-titrating anticoagulant nanocomplexes that restore homeostatic regulation of the coagulation cascade. <i>ACS Nano</i> , 2014 , 8, 8776-85	16.7	28
24	Remote Control of Mammalian Cells with Heat-Triggered Gene Switches and Photothermal Pulse Trains. <i>ACS Synthetic Biology</i> , 2018 , 7, 1167-1173	5.7	26
23	Photoactivated Spatiotemporally-Responsive Nanosensors of in Vivo Protease Activity. <i>ACS Nano</i> , 2015 , 9, 11708-17	16.7	20

22	Sustained-release synthetic biomarkers for monitoring thrombosis and inflammation using point-of-care compatible readouts. <i>Advanced Functional Materials</i> , 2016 , 26, 2919-2928	15.6	20
21	STAR particles for enhanced topical drug and vaccine delivery. <i>Nature Medicine</i> , 2020 , 26, 341-347	50.5	16
20	Individually addressable and dynamic DNA gates for multiplexed cell sorting. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, 4357-4362	11.5	14
19	Enhanced intratumoural activity of CAR T cells engineered to produce immunomodulators under photothermal control. <i>Nature Biomedical Engineering</i> , 2021 , 5, 1348-1359	19	13
18	Synthetic immunity by remote control. <i>Theranostics</i> , 2020 , 10, 3652-3667	12.1	12
17	High-Density, Multiplexed Patterning of Cells at Single-Cell Resolution for Tissue Engineering and Other Applications. <i>Angewandte Chemie</i> , 2011 , 123, 7516-7518	3.6	12
16	Heat-Triggered Remote Control of CRISPR-dCas9 for Tunable Transcriptional Modulation. <i>ACS Chemical Biology</i> , 2020 , 15, 533-542	4.9	10
15	DNA Gold Nanoparticle Motors Demonstrate Processive Motion with Bursts of Speed Up to 50 nm Per Second. <i>ACS Nano</i> , 2021 , 15, 8427-8438	16.7	8
14	DNA-Barcoded pMHC Tetramers for Detection of Single Antigen-Specific T Cells by Digital PCR. <i>Analytical Chemistry</i> , 2019 , 91, 2695-2700	7.8	8
13	Synthetic biomarkers: a twenty-first century path to early cancer detection. <i>Nature Reviews Cancer</i> , 2021 , 21, 655-668	31.3	8
12	Protease circuits for processing biological information. <i>Nature Communications</i> , 2020 , 11, 5021	17.4	7
11	Nanosensors to Detect Protease Activity In Vivo for Noninvasive Diagnostics. <i>Journal of Visualized Experiments</i> , 2018 ,	1.6	5
10	Synthetic Antigen-Presenting Cells for Adoptive T Cell Therapy. <i>Advanced Therapeutics</i> , 2021 , 4, 2100034	4.9	4
9	Peptide-based urinary monitoring of fibrotic nonalcoholic steatohepatitis by mass-barcode activity-based sensors. <i>Science Translational Medicine</i> , 2021 , 13, eabe8939	17.5	3
8	Deconvolving multiplexed protease signatures with substrate reduction and activity clustering. <i>PLoS Computational Biology</i> , 2019 , 15, e1006909	5	3
7	Bacterial defiance as a form of prodrug failure		2
6	Activity-based urinary biomarkers of response and resistance to checkpoint blockade immunotherapy		1
5	Harnessing lipid signaling pathways to target specialized pro-angiogenic neutrophil subsets for regenerative immunotherapy. <i>Science Advances</i> , 2020 , 6,	14.3	1

- 4 Interfacing Biomaterials with Synthetic T Cell Immunity. *Advanced Healthcare Materials*, **2021**, 10, e2100157. 1
- 3 In vivo mRNA delivery to virus-specific T cells by light-induced ligand exchange of MHC class I antigen-presenting nanoparticles.. *Science Advances*, **2022**, 8, eabm7950 14.3 1
- 2 Dimensionless parameter predicts bacterial prodrug success.. *Molecular Systems Biology*, **2022**, 18, e10495.2 0
- 1 Macrophage Sensors for Early Cancer Detection. *Clinical Chemistry*, **2020**, 66, 268-270 5.5