Gabriel A Kwong

List of Publications by Year
in descending order

38 papers	3,337 citations	304602 22 h-index	330025 37 g-index
50 all docs	50 docs citations	50 times ranked	4540 citing authors

#	Article	IF	Citations
1	Integrated barcode chips for rapid, multiplexed analysis of proteins in microliter quantities of blood. Nature Biotechnology, 2008, 26, 1373-1378.	9.4	507
2	Quantitative Real-Time Measurements of DNA Hybridization with Alkylated Nonoxidized Silicon Nanowires in Electrolyte Solution. Journal of the American Chemical Society, 2006, 128, 16323-16331.	6.6	469
3	A clinical microchip for evaluation of single immune cells reveals high functional heterogeneity in phenotypically similar T cells. Nature Medicine, 2011, 17, 738-743.	15.2	403
4	Programmable probiotics for detection of cancer in urine. Science Translational Medicine, 2015, 7, 289ra84.	5.8	326
5	DNA-Encoded Antibody Libraries:Â A Unified Platform for Multiplexed Cell Sorting and Detection of Genes and Proteins. Journal of the American Chemical Society, 2007, 129, 1959-1967.	6.6	255
6	Mass-encoded synthetic biomarkers for multiplexed urinary monitoring of disease. Nature Biotechnology, 2013, 31, 63-70.	9.4	176
7	Point-of-care diagnostics for noncommunicable diseases using synthetic urinary biomarkers and paper microfluidics. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 3671-3676.	3.3	167
8	Nanoparticles That Sense Thrombin Activity As Synthetic Urinary Biomarkers of Thrombosis. ACS Nano, 2013, 7, 9001-9009.	7.3	98
9	Modular Nucleic Acid Assembled p/MHC Microarrays for Multiplexed Sorting of Antigen-Specific T Cells. Journal of the American Chemical Society, 2009, 131, 9695-9703.	6.6	84
10	Synthetic biomarkers: a twenty-first century path to early cancer detection. Nature Reviews Cancer, 2021, 21, 655-668.	12.8	84
11	Non-invasive early detection of acute transplant rejection via nanosensors of granzymeâ€‰B activity. Nature Biomedical Engineering, 2019, 3, 281-291.	11.6	79
12	Enhanced intratumoural activity of CAR T cells engineered to produce immunomodulators under photothermal control. Nature Biomedical Engineering, 2021, 5, 1348-1359.	11.6	74
13	Highâ€Density, Multiplexed Patterning of Cells at Singleâ€Cell Resolution for Tissue Engineering and Other Applications. Angewandte Chemie - International Edition, 2011, 50, 7378-7380.	7.2	57
14	Disease Detection by Ultrasensitive Quantification of Microdosed Synthetic Urinary Biomarkers. Journal of the American Chemical Society, 2014, 136, 13709-13714.	6.6	50
15	Mathematical framework for activity-based cancer biomarkers. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 12627-12632.	3.3	50
16	Iterative in Situ Click Chemistry Assembles a Branched Capture Agent and Allosteric Inhibitor for Akt1. Journal of the American Chemical Society, 2011, 133, 18280-18288.	6.6	46
17	Remote Control of Mammalian Cells with Heat-Triggered Gene Switches and Photothermal Pulse Trains. ACS Synthetic Biology, 2018, 7, 1167-1173.	1.9	42
18	STAR particles for enhanced topical drug and vaccine delivery. Nature Medicine, 2020, 26, 341-347.	15.2	40

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19	Self-Titrating Anticoagulant Nanocomplexes That Restore Homeostatic Regulation of the Coagulation Cascade. ACS Nano, 2014, 8, 8776-8785.	7.3	35
20	Photoactivated Spatiotemporally-Responsive Nanosensors of in Vivo Protease Activity. ACS Nano, 2015, 9, 11708-11717.	7.3	28
21	Sustainedâ€Release Synthetic Biomarkers for Monitoring Thrombosis and Inflammation Using Pointâ€ofâ€Care Compatible Readouts. Advanced Functional Materials, 2016, 26, 2919-2928.	7.8	28
22	DNA Gold Nanoparticle Motors Demonstrate Processive Motion with Bursts of Speed Up to 50 nm Per Second. ACS Nano, 2021, 15, 8427-8438.	7.3	28
23	Heat-Triggered Remote Control of CRISPR-dCas9 for Tunable Transcriptional Modulation. ACS Chemical Biology, 2020, 15, 533-542.	1.6	23
24	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.	4.7	22
25	Individually addressable and dynamic DNA gates for multiplexed cell sorting. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 4357-4362.	3.3	17
26	Synthetic immunity by remote control. Theranostics, 2020, 10, 3652-3667.	4.6	17
27	Peptide-based urinary monitoring of fibrotic nonalcoholic steatohepatitis by mass-barcoded activity-based sensors. Science Translational Medicine, 2021, 13, eabe8939.	5.8	17
28	Urinary detection of early responses to checkpoint blockade and of resistance to it via protease-cleaved antibody-conjugated sensors. Nature Biomedical Engineering, 2022, 6, 310-324.	11.6	16
29	DNA-Barcoded pMHC Tetramers for Detection of Single Antigen-Specific T Cells by Digital PCR. Analytical Chemistry, 2019, 91, 2695-2700.	3.2	14
30	Protease circuits for processing biological information. Nature Communications, 2020, 11, 5021.	5.8	14
31	Harnessing lipid signaling pathways to target specialized pro-angiogenic neutrophil subsets for regenerative immunotherapy. Science Advances, 2020, 6, .	4.7	13
32	Synthetic Antigenâ€Presenting Cells for Adoptive T Cell Therapy. Advanced Therapeutics, 2021, 4, 2100034.	1.6	10
33	Nanosensors to Detect Protease Activity In Vivo for Noninvasive Diagnostics. Journal of Visualized Experiments, 2018, , .	0.2	9
34	Deconvolving multiplexed protease signatures with substrate reduction and activity clustering. PLoS Computational Biology, 2019, 15, e1006909.	1.5	6
35	Interfacing Biomaterials with Synthetic T Cell Immunity. Advanced Healthcare Materials, 2021, 10, e2100157.	3.9	4
36	Dimensionless parameter predicts bacterial prodrug success. Molecular Systems Biology, 2022, 18, e10495.	3.2	2

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37	Macrophage Sensors for Early Cancer Detection. Clinical Chemistry, 2020, 66, 268-270.	1.5	0
38	17â€…Activity sensors for noninvasive monitoring of immune response and tumor resistance during immune checkpoint blockade therapy. , 2020, , .		0