

Gabriel A Kwong

List of Publications by Year in Descending Order

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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 | Dimensionless parameter predicts bacterial prodrug success.. <i>Molecular Systems Biology</i> , 2022 , 18, e10495.2 | 15.2 | 0 |
| 38 | In vivo mRNA delivery to virus-specific T cells by light-induced ligand exchange of MHC class I antigen-presenting nanoparticles.. <i>Science Advances</i> , 2022 , 8, eabm7950 | 14.3 | 1 |
| 37 | Peptide-based urinary monitoring of fibrotic nonalcoholic steatohepatitis by mass-barcoded activity-based sensors. <i>Science Translational Medicine</i> , 2021 , 13, eabe8939 | 17.5 | 3 |
| 36 | Synthetic Antigen-Presenting Cells for Adoptive T Cell Therapy. <i>Advanced Therapeutics</i> , 2021 , 4, 2100034 | 4.9 | 4 |
| 35 | Interfacing Biomaterials with Synthetic T Cell Immunity. <i>Advanced Healthcare Materials</i> , 2021 , 10, e2100157 | 15.1 | 1 |
| 34 | 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 |
| 33 | 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 |
| 32 | Synthetic biomarkers: a twenty-first century path to early cancer detection. <i>Nature Reviews Cancer</i> , 2021 , 21, 655-668 | 31.3 | 8 |
| 31 | STAR particles for enhanced topical drug and vaccine delivery. <i>Nature Medicine</i> , 2020 , 26, 341-347 | 50.5 | 16 |
| 30 | Synthetic immunity by remote control. <i>Theranostics</i> , 2020 , 10, 3652-3667 | 12.1 | 12 |
| 29 | Macrophage Sensors for Early Cancer Detection. <i>Clinical Chemistry</i> , 2020 , 66, 268-270 | 5.5 | |
| 28 | Heat-Triggered Remote Control of CRISPR-dCas9 for Tunable Transcriptional Modulation. <i>ACS Chemical Biology</i> , 2020 , 15, 533-542 | 4.9 | 10 |
| 27 | Protease circuits for processing biological information. <i>Nature Communications</i> , 2020 , 11, 5021 | 17.4 | 7 |
| 26 | Harnessing lipid signaling pathways to target specialized pro-angiogenic neutrophil subsets for regenerative immunotherapy. <i>Science Advances</i> , 2020 , 6, | 14.3 | 1 |
| 25 | 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 |
| 24 | Deconvolving multiplexed protease signatures with substrate reduction and activity clustering. <i>PLoS Computational Biology</i> , 2019 , 15, e1006909 | 5 | 3 |
| 23 | 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 |

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| 22 | 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 |
| 21 | 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 |
| 20 | Nanosensors to Detect Protease Activity In Vivo for Noninvasive Diagnostics. <i>Journal of Visualized Experiments</i> , 2018 , | 1.6 | 5 |
| 19 | 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 |
| 18 | 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 |
| 17 | Programmable probiotics for detection of cancer in urine. <i>Science Translational Medicine</i> , 2015 , 7, 289ra84 | 17.5 | 238 |
| 16 | Photoactivated Spatiotemporally-Responsive Nanosensors of in Vivo Protease Activity. <i>ACS Nano</i> , 2015 , 9, 11708-17 | 16.7 | 20 |
| 15 | 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 |
| 14 | 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 |
| 13 | Self-titrating anticoagulant nanocomplexes that restore homeostatic regulation of the coagulation cascade. <i>ACS Nano</i> , 2014 , 8, 8776-85 | 16.7 | 28 |
| 12 | Nanoparticles that sense thrombin activity as synthetic urinary biomarkers of thrombosis. <i>ACS Nano</i> , 2013 , 7, 9001-9 | 16.7 | 77 |
| 11 | Mass-encoded synthetic biomarkers for multiplexed urinary monitoring of disease. <i>Nature Biotechnology</i> , 2013 , 31, 63-70 | 44.5 | 121 |
| 10 | 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 |
| 9 | 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 |
| 8 | 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 |
| 7 | 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 |
| 6 | 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 |
| 5 | 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 |

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| 4 | 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 |
| 3 | 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 |
| 2 | Bacterial defiance as a form of prodrug failure | | 2 |
| 1 | Activity-based urinary biomarkers of response and resistance to checkpoint blockade immunotherapy | | 1 |