

# Yong Kong

## 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.

102  
papers

6,750  
citations

32  
h-index

82  
g-index

111  
ext. papers

7,941  
ext. citations

8.3  
avg, IF

5.72  
L-index

| #   | Paper   | IF   | Citations |
|-----|---|------|-----------|
| 102 | APOBEC3A regulates transcription from interferon-stimulated response elements.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2022</b> , 119, e2011665119   | 11.5 | 1         |
| 101 | Endogenous Retroviruses Provide Protection Against Vaginal HSV-2 Disease.. <i>Frontiers in Immunology</i> , <b>2021</b> , 12, 758721  | 8.4  |           |
| 100 | Bacterial Signatures of Paediatric Respiratory Disease: An Individual Participant Data Meta-Analysis.. <i>Frontiers in Microbiology</i> , <b>2021</b> , 12, 711134  | 5.7  | 0         |
| 99  | A phase 2 evaluation of pembrolizumab for recurrent Lynch-like versus sporadic endometrial cancers with microsatellite instability. <i>Cancer</i> , <b>2021</b> ,   | 6.4  | 6         |
| 98  | A phase II evaluation of pembrolizumab in recurrent microsatellite instability-high (MSI-H) endometrial cancer patients with Lynch-like versus MLH-1 methylated characteristics (NCT02899793).. <i>Journal of Clinical Oncology</i> , <b>2021</b> , 39, 5523-5523 | 2.2  | 4         |
| 97  | Antibodies against human endogenous retrovirus K102 envelope activate neutrophils in systemic lupus erythematosus. <i>Journal of Experimental Medicine</i> , <b>2021</b> , 218,   | 16.6 | 6         |
| 96  | Differential immunomodulatory effect of PARP inhibition in BRCA1 deficient and competent tumor cells. <i>Biochemical Pharmacology</i> , <b>2021</b> , 184, 114359   | 6    | 2         |
| 95  | A phase II evaluation of pembrolizumab in recurrent microsatellite instability-high (MSI-H) endometrial cancer patients with Lynch-like versus MLH-1 methylated characteristics (NCT02899793). <i>Annals of Oncology</i> , <b>2021</b> , 32, 1045-1046            | 10.3 | 8         |
| 94  | Multiple consecutive runs of multi-state trials: Distributions of $(k_1, k_2, \dots, k_r)$ patterns. <i>Journal of Computational and Applied Mathematics</i> , <b>2021</b> , 403, 113846  | 2.4  | 0         |
| 93  | Distributions of successions of arbitrary multisets. <i>Communications in Statistics - Theory and Methods</i> , <b>2020</b> , 1-13  | 0.5  | 1         |
| 92  | RUNX Binding Sites Are Enriched in Herpesvirus Genomes, and RUNX1 Overexpression Leads to Herpes Simplex Virus 1 Suppression. <i>Journal of Virology</i> , <b>2020</b> , 94,  | 6.6  | 3         |
| 91  | Dolosigranulum pigrum Cooperation and Competition in Human Nasal Microbiota. <i>MSphere</i> , <b>2020</b> , 5,  | 5    | 30        |
| 90  | Type 3 Inositol 1,4,5-Trisphosphate Receptor Is Increased and Enhances Malignant Properties in Cholangiocarcinoma. <i>Hepatology</i> , <b>2020</b> , 71, 583-599  | 11.2 | 32        |
| 89  | The Lupus Susceptibility Locus Sgp3 Encodes the Suppressor of Endogenous Retrovirus Expression SNERV. <i>Immunity</i> , <b>2019</b> , 50, 334-347.e9  | 32.3 | 43        |
| 88  | Generating Function Methods for Run and Scan Statistics <b>2019</b> , 1-19  |      | 2         |
| 87  | Desynchronization of the molecular clock contributes to the heterogeneity of the inflammatory response. <i>Science Signaling</i> , <b>2019</b> , 12,  | 8.8  | 17        |
| 86  | Joint distribution of rises, falls, and number of runs in random sequences. <i>Communications in Statistics - Theory and Methods</i> , <b>2019</b> , 48, 493-499  | 0.5  | 5         |

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| 85 | Glycerol phosphate shuttle enzyme GPD2 regulates macrophage inflammatory responses. <i>Nature Immunology</i> , <b>2019</b> , 20, 1186-1195   | 19.1 | 57  |
| 84 | Human APOBEC3G Prevents Emergence of Infectious Endogenous Retrovirus in Mice. <i>Journal of Virology</i> , <b>2019</b> , 93,  | 6.6  | 10  |
| 83 | Intratumoral delivery of RIG-I agonist SLR14 induces robust antitumor responses. <i>Journal of Experimental Medicine</i> , <b>2019</b> , 216, 2854-2868  | 16.6 | 23  |
| 82 | Ketogenic diet activates protective $\gamma$ T cell responses against influenza virus infection. <i>Science Immunology</i> , <b>2019</b> , 4,  | 28   | 51  |
| 81 | Reply to Ifiguez et al.: ERVmap is a validated approach to mapping proviral endogenous retroviruses in the human genome. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2019</b> , 116, 21352-21353 | 11.5 | 0   |
| 80 | Exosomal MicroRNAs Associate With Neuropsychological Performance in Individuals With HIV Infection on Antiretroviral Therapy. <i>Journal of Acquired Immune Deficiency Syndromes (1999)</i> , <b>2019</b> , 82, 514-522                          | 3.1  | 7   |
| 79 | Decoupling Combinatorial Complexity: a Two-Step Approach to Distributions of Runs. <i>Methodology and Computing in Applied Probability</i> , <b>2019</b> , 21, 789-803   | 0.6  | 4   |
| 78 | Gastrointestinal Microbiota Disruption and Risk of Colonization With Carbapenem-resistant <i>Pseudomonas aeruginosa</i> in Intensive Care Unit Patients. <i>Clinical Infectious Diseases</i> , <b>2019</b> , 69, 604-613                         | 11.6 | 21  |
| 77 | Type I interferons instigate fetal demise after Zika virus infection. <i>Science Immunology</i> , <b>2018</b> , 3,   | 28   | 133 |
| 76 | genome evolution during persistence in the human airways in chronic obstructive pulmonary disease. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2018</b> , 115, E3256-E3265                       | 11.5 | 40  |
| 75 | ERVmap analysis reveals genome-wide transcription of human endogenous retroviruses. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2018</b> , 115, 12565-12572                                      | 11.5 | 70  |
| 74 | Regional Differences in Airway Epithelial Cells Reveal Tradeoff between Defense against Oxidative Stress and Defense against Rhinovirus. <i>Cell Reports</i> , <b>2018</b> , 24, 3000-3007.e3  | 10.6 | 30  |
| 73 | Changes in IgA Protease Expression Are Conferred by Changes in Genomes during Persistent Infection by Nontypeable <i>Haemophilus influenzae</i> in Chronic Obstructive Pulmonary Disease. <i>Infection and Immunity</i> , <b>2018</b> , 86,      | 3.7  | 13  |
| 72 | Number of appearances of events in random sequences: a new generating function approach to Type II and Type III runs. <i>Annals of the Institute of Statistical Mathematics</i> , <b>2017</b> , 69, 489-495                                      | 1    | 6   |
| 71 | The mth longest runs of multivariate random sequences. <i>Annals of the Institute of Statistical Mathematics</i> , <b>2017</b> , 69, 497-512   | 1    | 4   |
| 70 | IFT56 regulates vertebrate developmental patterning by maintaining IFTB complex integrity and ciliary microtubule architecture. <i>Development (Cambridge)</i> , <b>2017</b> , 144, 1544-1553  | 6.6  | 18  |
| 69 | Macrophage function in tissue repair and remodeling requires IL-4 or IL-13 with apoptotic cells. <i>Science</i> , <b>2017</b> , 356, 1072-1076   | 33.3 | 273 |
| 68 | Aging impairs both primary and secondary RIG-I signaling for interferon induction in human monocytes. <i>Science Signaling</i> , <b>2017</b> , 10,   | 8.8  | 72  |

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|----|---|------|-----|
| 67 | Antimicrobial activity of antisense peptide-peptide nucleic acid conjugates against non-typeable Haemophilus influenzae in planktonic and biofilm forms. <i>Journal of Antimicrobial Chemotherapy</i> , <b>2017</b> , 72, 137-144 | 5.1  | 20  |
| 66 | IFT56 regulates vertebrate developmental patterning by maintaining IFTB complex integrity and ciliary microtubule architecture. <i>Journal of Cell Science</i> , <b>2017</b> , 130, e1.2-e1.2                                     | 5.3  |     |
| 65 | The regulatory element READ1 epistatically influences reading and language, with both deleterious and protective alleles. <i>Journal of Medical Genetics</i> , <b>2016</b> , 53, 163-71   | 5.8  | 20  |
| 64 | Viral Spread to Enteric Neurons Links Genital HSV-1 Infection to Toxic Megacolon and Lethality. <i>Cell Host and Microbe</i> , <b>2016</b> , 19, 788-99   | 23.4 | 37  |
| 63 | Number of appearances of events in random sequences: A new approach to non-overlapping runs. <i>Communications in Statistics - Theory and Methods</i> , <b>2016</b> , 45, 6765-6772   | 0.5  | 5   |
| 62 | A uniform survey of allele-specific binding and expression over 1000-Genomes-Project individuals. <i>Nature Communications</i> , <b>2016</b> , 7, 11101   | 17.4 | 51  |
| 61 | Effect of Fluoroquinolones and Macrolides on Eradication and Resistance of Haemophilus influenzae in Chronic Obstructive Pulmonary Disease. <i>Antimicrobial Agents and Chemotherapy</i> , <b>2016</b> , 60, 4151-8               | 5.9  | 23  |
| 60 | The Adventitious Angles Problem: The Lonely Fractional Derived Angle. <i>American Mathematical Monthly</i> , <b>2016</b> , 123, 814   | 0.3  |     |
| 59 | Association of sputum microbiota profiles with severity of community-acquired pneumonia in children. <i>BMC Infectious Diseases</i> , <b>2016</b> , 16, 317   | 4    | 29  |
| 58 | Exome sequencing identifies recurrent mutations in NF1 and RASopathy genes in sun-exposed melanomas. <i>Nature Genetics</i> , <b>2015</b> , 47, 996-1002  | 36.3 | 261 |
| 57 | Nanoparticles that deliver triplex-forming peptide nucleic acid molecules correct F508del CFTR in airway epithelium. <i>Nature Communications</i> , <b>2015</b> , 6, 6952   | 17.4 | 88  |
| 56 | Expression of IgA Proteases by Haemophilus influenzae in the Respiratory Tract of Adults With Chronic Obstructive Pulmonary Disease. <i>Journal of Infectious Diseases</i> , <b>2015</b> , 212, 1798-805                          | 7    | 24  |
| 55 | Distributions of Runs Revisited. <i>Communications in Statistics - Theory and Methods</i> , <b>2015</b> , 44, 4663-4678   | 0.5  | 6   |
| 54 | Analysis of gene-environment interactions in postnatal development of the mammalian intestine. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2015</b> , 112, 1929-36                | 11.5 | 63  |
| 53 | Dynamic changes in the Streptococcus pneumoniae transcriptome during transition from biofilm formation to invasive disease upon influenza A virus infection. <i>Infection and Immunity</i> , <b>2014</b> , 82, 4607-19            | 3.7  | 74  |
| 52 | An international effort towards developing standards for best practices in analysis, interpretation and reporting of clinical genome sequencing results in the CLARITY Challenge. <i>Genome Biology</i> , <b>2014</b> , 15, R53   | 18.3 | 86  |
| 51 | Rare SF3B1 R625 mutations in cutaneous melanoma. <i>Melanoma Research</i> , <b>2014</b> , 24, 332-4   | 3.3  | 42  |
| 50 | Forward genetics defines Xylt1 as a key, conserved regulator of early chondrocyte maturation and skeletal length. <i>Developmental Biology</i> , <b>2014</b> , 385, 67-82   | 3.1  | 31  |

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| 49 | Distributions of positive signals in pyrosequencing. <i>Journal of Mathematical Biology</i> , <b>2014</b> , 69, 39-54  | 2    |     |
| 48 | Computational analysis in cancer exome sequencing. <i>Methods in Molecular Biology</i> , <b>2014</b> , 1176, 219-27  | 1.4  | 1   |
| 47 | Length distribution of sequencing by synthesis: fixed flow cycle model. <i>Journal of Mathematical Biology</i> , <b>2013</b> , 67, 389-410   | 2    | 1   |
| 46 | Integrative annotation of variants from 1092 humans: application to cancer genomics. <i>Science</i> , <b>2013</b> , 342, 1235587   | 33.3 | 281 |
| 45 | Forward genetics identifies Kdf1/1810019J16Rik as an essential regulator of the proliferation-differentiation decision in epidermal progenitor cells. <i>Developmental Biology</i> , <b>2013</b> , 383, 201-13 | 3.1  | 21  |
| 44 | Negligible impact of rare autoimmune-locus coding-region variants on missing heritability. <i>Nature</i> , <b>2013</b> , 498, 232-5  | 50.4 | 156 |
| 43 | Alleles of a polymorphic ETV6 binding site in DCDC2 confer risk of reading and language impairment. <i>American Journal of Human Genetics</i> , <b>2013</b> , 93, 19-28  | 11   | 50  |
| 42 | Adjusting for background mutation frequency biases improves the identification of cancer driver genes. <i>IEEE Transactions on Nanobioscience</i> , <b>2013</b> , 12, 150-7                                    | 3.4  | 7   |
| 41 | Forward genetics uncovers Transmembrane protein 107 as a novel factor required for ciliogenesis and Sonic hedgehog signaling. <i>Developmental Biology</i> , <b>2012</b> , 368, 382-92                         | 3.1  | 28  |
| 40 | Upper respiratory tract microbial communities, acute otitis media pathogens, and antibiotic use in healthy and sick children. <i>Applied and Environmental Microbiology</i> , <b>2012</b> , 78, 6262-70        | 4.8  | 133 |
| 39 | Exome sequencing identifies recurrent somatic RAC1 mutations in melanoma. <i>Nature Genetics</i> , <b>2012</b> , 44, 1006-14   | 36.3 | 887 |
| 38 | Exon capture and bulk segregant analysis: rapid discovery of causative mutations using high-throughput sequencing. <i>BMC Genomics</i> , <b>2012</b> , 13, 649   | 4.5  | 13  |
| 37 | The Expectation of Sample Central Moments. <i>American Statistician</i> , <b>2011</b> , 65, 198-199  | 5    | 2   |
| 36 | Btrim: a fast, lightweight adapter and quality trimming program for next-generation sequencing technologies. <i>Genomics</i> , <b>2011</b> , 98, 152-3   | 4.3  | 370 |
| 35 | Microbial communities of the upper respiratory tract and otitis media in children. <i>MBio</i> , <b>2011</b> , 2, e00245-11  | 1.8  | 146 |
| 34 | AlleleSeq: analysis of allele-specific expression and binding in a network framework. <i>Molecular Systems Biology</i> , <b>2011</b> , 7, 522  | 12.2 | 228 |
| 33 | MU2A--reconciling the genome and transcriptome to determine the effects of base substitutions. <i>Bioinformatics</i> , <b>2011</b> , 27, 416-8   | 7.2  | 6   |
| 32 | Analysis of genomic variation in non-coding elements using population-scale sequencing data from the 1000 Genomes Project. <i>Nucleic Acids Research</i> , <b>2011</b> , 39, 7058-76                           | 20.1 | 58  |

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|----|---|-----|-----|
| 31 | Streptococcus pneumoniae serotype 6C: an intra- and interclonal complex comparison. <i>Journal of Bacteriology</i> , <b>2011</b> , 193, 3409-10   | 3.5 | 3   |
| 30 | Note: solution of one-dimensional self-assembly problem in multiple-component systems with correction of overcounting of non-symmetrical complexes. <i>Journal of Chemical Physics</i> , <b>2011</b> , 135, 15610-19        | 3.9 | 5   |
| 29 | Construction and maintenance of randomized retroviral expression libraries for transmembrane protein engineering. <i>Protein Engineering, Design and Selection</i> , <b>2011</b> , 24, 311-20                               | 1.9 | 6   |
| 28 | Streptococcus pneumoniae clonal complex 199: genetic diversity and tissue-specific virulence. <i>PLoS ONE</i> , <b>2011</b> , 6, e18649   | 3.7 | 13  |
| 27 | Heterologous quaternary structure of CXCL12 and its relationship to the CC chemokine family. <i>Proteins: Structure, Function and Bioinformatics</i> , <b>2010</b> , 78, 1331-7   | 4.2 | 35  |
| 26 | Statistical distributions of pyrosequencing. <i>Journal of Computational Biology</i> , <b>2009</b> , 16, 31-42  | 1.7 | 4   |
| 25 | Integrating sequencing technologies in personal genomics: optimal low cost reconstruction of structural variants. <i>PLoS Computational Biology</i> , <b>2009</b> , 5, e1000432   | 5   | 13  |
| 24 | Calculating complexity of large randomized libraries. <i>Journal of Theoretical Biology</i> , <b>2009</b> , 259, 641-5  | 2.3 | 5   |
| 23 | Statistical distributions of sequencing by synthesis with probabilistic nucleotide incorporation. <i>Journal of Computational Biology</i> , <b>2009</b> , 16, 817-27  | 1.7 | 4   |
| 22 | Substrate discrimination among mitogen-activated protein kinases through distinct docking sequence motifs. <i>Journal of Biological Chemistry</i> , <b>2008</b> , 283, 19511-20   | 5.4 | 115 |
| 21 | Generalized correlation functions and their applications in selection of optimal multiple spaced seeds for homology search. <i>Journal of Computational Biology</i> , <b>2007</b> , 14, 238-54                              | 1.7 | 7   |
| 20 | Asymptotics of the monomer-dimer model on two-dimensional semi-infinite lattices. <i>Physical Review E</i> , <b>2007</b> , 75, 051123   | 2.4 | 5   |
| 19 | Keck Foundation Biotechnology Resource Laboratory, Yale University. <i>Yale Journal of Biology and Medicine</i> , <b>2007</b> , 80, 195-211   | 2.4 | 3   |
| 18 | Logarithmic corrections in the free energy of monomer-dimer model on plane lattices with free boundaries. <i>Physical Review E</i> , <b>2006</b> , 74, 011102   | 2.4 | 21  |
| 17 | Monomer-dimer model in two-dimensional rectangular lattices with fixed dimer density. <i>Physical Review E</i> , <b>2006</b> , 74, 061102   | 2.4 | 20  |
| 16 | Packing dimers on $(2p+1) \times (2q+1)$ lattices. <i>Physical Review E</i> , <b>2006</b> , 73, 016106  | 2.4 | 25  |
| 15 | Distribution of Runs and Longest Runs. <i>Journal of the American Statistical Association</i> , <b>2006</b> , 101, 1253-1263  | 2.3 | 22  |
| 14 | Extension of Goulden-Jackson cluster method on pattern occurrences in random sequences and comparison with RijnierBzpankowski method. <i>Journal of Difference Equations and Applications</i> , <b>2005</b> , 11, 1265-1271 | 1   | 4   |

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| 13 | MicroRNA: biological and computational perspective. <i>Genomics, Proteomics and Bioinformatics</i> , <b>2005</b> , 3, 62-72  | 6.5  | 33   |
| 12 | Fluorescence anisotropy studies on the Ku-DNA interaction: anion and cation effects. <i>Journal of Biological Chemistry</i> , <b>2004</b> , 279, 42826-35                                  | 5.4  | 30   |
| 11 | A protein interaction map of <i>Drosophila melanogaster</i> . <i>Science</i> , <b>2003</b> , 302, 1727-36  | 33.3 | 1914 |
| 10 | A note on the quantitative properties of McGhee-von Hippel model. <i>Biophysical Chemistry</i> , <b>2002</b> , 95, 1-6   | 3.5  | 3    |
| 9  | A Simple Method for Evaluating Partition Functions of Linear Polymers. <i>Journal of Physical Chemistry B</i> , <b>2001</b> , 105, 10111-10114   | 3.4  | 14   |
| 8  | Ligand binding on ladder lattices. <i>Biophysical Chemistry</i> , <b>1999</b> , 81, 7-21   | 3.5  | 4    |
| 7  | General recurrence theory of ligand binding on a three-dimensional lattice. <i>Journal of Chemical Physics</i> , <b>1999</b> , 111, 4790-4799  | 3.9  | 9    |
| 6  | Crystal structures of the Klenow fragment of <i>Thermus aquaticus</i> DNA polymerase I complexed with deoxyribonucleoside triphosphates. <i>Protein Science</i> , <b>1998</b> , 7, 1116-23 | 6.3  | 96   |
| 5  | Calculation of the reaction field due to off-center point multipoles. <i>Journal of Chemical Physics</i> , <b>1997</b> , 107, 481-492  | 3.9  | 53   |
| 4  | Theory of multivalent binding in one and two-dimensional lattices. <i>Biophysical Chemistry</i> , <b>1996</b> , 61, 107-245  | 3.5  | 34   |
| 3  | Human APOBEC3G prevents emergence of infectious endogenous retrovirus in mice  |      | 1    |
| 2  | <i>Dolosigranulum pigrum</i> cooperation and competition in human nasal microbiota   |      | 3    |
| 1  | Antibody against envelope protein from human endogenous retrovirus activates neutrophils in systemic lupus erythematosus   |      | 2    |