

# Wing-Sum Cheung

## List of Publications by Year in descending order

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111  
papers

1,049  
citations

430754

18  
h-index

501076

28  
g-index

115  
all docs

115  
docs citations

115  
times ranked

306  
citing authors

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 1  | Some new nonlinear inequalities and applications to boundary value problems. <i>Nonlinear Analysis: Theory, Methods &amp; Applications</i> , 2006, 64, 2112-2128.   | 0.6 | 82        |
| 2  | Discrete non-linear inequalities and applications to boundary value problems. <i>Journal of Mathematical Analysis and Applications</i> , 2006, 319, 708-724.  | 0.5 | 77        |
| 3  | Periodic solutions for $\Delta$ -Laplacian Rayleigh equations. <i>Nonlinear Analysis: Theory, Methods &amp; Applications</i> , 2006, 65, 2003-2012.   | 0.6 | 41        |
| 4  | Some new nonlinear difference inequalities and their applications. <i>Journal of Computational and Applied Mathematics</i> , 2007, 202, 339-351.  | 1.1 | 39        |
| 5  | Some Discrete Nonlinear Inequalities and Applications to Boundary Value Problems for Difference Equations. <i>Journal of Difference Equations and Applications</i> , 2004, 10, 213-223.                                       | 0.7 | 37        |
| 6  | Some generalized Opial-type inequalities. <i>Journal of Mathematical Analysis and Applications</i> , 1991, 162, 317-321.  | 0.5 | 34        |
| 7  | On the existence of periodic solutions for $\Delta$ -Laplacian generalized Liénard equation. <i>Nonlinear Analysis: Theory, Methods &amp; Applications</i> , 2005, 60, 65-75.   | 0.6 | 33        |
| 8  | Positive periodic solution of second-order neutral functional differential equations. <i>Nonlinear Analysis: Theory, Methods &amp; Applications</i> , 2009, 71, 3948-3955.  | 0.6 | 30        |
| 9  | On Opial-type inequalities in two variables. <i>Aequationes Mathematicae</i> , 1989, 38, 236-244.   | 0.4 | 28        |
| 10 | Some new Opial-type inequalities. <i>Mathematika</i> , 1990, 37, 136-142.   | 0.3 | 27        |
| 11 | Sharp Cusa and Becker-Stark inequalities. <i>Journal of Inequalities and Applications</i> , 2011, 2011, .   | 0.5 | 25        |
| 12 | On certain new Gronwall-Ou-lang type integral inequalities in two variables and their applications. <i>Journal of Inequalities and Applications</i> , 2005, 2005, 541438.   | 0.5 | 24        |
| 13 | Plastic dynamics of the Al <sub>0.5</sub> CoCrCuFeNi high entropy alloy at cryogenic temperatures: Jerky flow, stair-like fluctuation, scaling behavior, and non-chaotic state. <i>Applied Physics Letters</i> , 2017, 111, . | 1.5 | 23        |
| 14 | Positive solution for m-point boundary value problems. <i>Journal of Mathematical Analysis and Applications</i> , 2005, 303, 565-575.   | 0.5 | 22        |
| 15 | Opial-type inequalities with m functions in n variables. <i>Mathematika</i> , 1992, 39, 319-326.  | 0.3 | 21        |
| 16 | Wilker- and Huygens-type inequalities and solution to Oppenheim's problem. <i>Integral Transforms and Special Functions</i> , 2012, 23, 325-336.  | 0.8 | 21        |
| 17 | Multiple positive solutions for discrete nonlocal boundary value problems. <i>Journal of Mathematical Analysis and Applications</i> , 2007, 330, 900-915.   | 0.5 | 20        |
| 18 | Bohr's inequalities for Hilbert space operators. <i>Journal of Mathematical Analysis and Applications</i> , 2006, 323, 403-412.   | 0.5 | 19        |

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|----|---|-----|-----------|
| 19 | Logarithmically completely monotonic functions concerning gamma and digamma functions. <i>Integral Transforms and Special Functions</i> , 2007, 18, 435-443.                                  | 0.8 | 19        |
| 20 | Various sizes of sliding event bursts in the plastic flow of metallic glasses based on a spatiotemporal dynamic model. <i>Journal of Applied Physics</i> , 2014, 116, .                       | 1.1 | 19        |
| 21 | Generalizations of Hölder's inequality. <i>International Journal of Mathematics and Mathematical Sciences</i> , 2001, 26, 7-10.   | 0.3 | 18        |
| 22 | Periodic solutions for $p$ -Laplacian Liénard equation with a deviating argument. <i>Nonlinear Analysis: Theory, Methods &amp; Applications</i> , 2004, 59, 107-120.                          | 0.6 | 18        |
| 23 | Radial Blaschke-Minkowski homomorphisms and volume differences. <i>Geometriae Dedicata</i> , 2011, 154, 81-91.  | 0.1 | 18        |
| 24 | On the existence of periodic solutions for $p$ -Laplacian generalized Liénard equation. <i>Nonlinear Analysis: Theory, Methods &amp; Applications</i> , 2005, 60, 65-75.                      | 0.6 | 17        |
| 25 | Sharpness of Wilker and Huygens type inequalities. <i>Journal of Inequalities and Applications</i> , 2012, 2012, .  | 0.5 | 17        |
| 26 | $N$ -tuple Diamond-Alpha integral and inequalities on time scales. <i>Revista De La Real Academia De Ciencias Exactas, Fisicas Y Naturales - Serie A: Matematicas</i> , 2019, 113, 2189-2200. | 0.6 | 17        |
| 27 | Twin positive solutions for quasi-linear multi-point boundary value problems. <i>Nonlinear Analysis: Theory, Methods &amp; Applications</i> , 2005, 62, 167-177.                              | 0.6 | 15        |
| 28 | LOGARITHMIC CONVEXITY OF THE ONE-PARAMETER MEAN VALUES. <i>Taiwanese Journal of Mathematics</i> , 2007, 11, .   | 0.2 | 14        |
| 29 | Some New Poincaré-type inequalities. <i>Bulletin of the Australian Mathematical Society</i> , 2001, 63, 321-327.  | 0.3 | 12        |
| 30 | Periodic solutions for $p$ -Laplacian differential equation with multiple deviating arguments. <i>Nonlinear Analysis: Theory, Methods &amp; Applications</i> , 2005, 62, 727-742.             | 0.6 | 12        |
| 31 | Gronwall-Bellman-Type Integral Inequalities and Applications to BVPs. <i>Journal of Inequalities and Applications</i> , 2009, 2009, 258569.   | 0.5 | 12        |
| 32 | On some Opial-type inequalities. <i>Journal of Inequalities and Applications</i> , 2011, 2011, .  | 0.5 | 11        |
| 33 | On Shafer and Carlson Inequalities. <i>Journal of Inequalities and Applications</i> , 2011, 2011, 840206.   | 0.5 | 11        |
| 34 | Some Hardy-Type Inequalities. <i>Journal of Mathematical Analysis and Applications</i> , 2000, 250, 621-634.  | 0.5 | 10        |
| 35 | Opial-type inequalities for differential operators. <i>Nonlinear Analysis: Theory, Methods &amp; Applications</i> , 2007, 66, 2028-2039.  | 0.6 | 10        |
| 36 | Some New Nonlinear Weakly Singular Integral Inequalities of Wendroff Type with Applications. <i>Journal of Inequalities and Applications</i> , 2008, 2008, 909156.                            | 0.5 | 10        |

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 37 | Some new nonlinear retarded sum-difference inequalities with applications. <i>Advances in Difference Equations</i> , 2011, 2011, .  | 3.5 | 10        |
| 38 | On the Hermite-Hadamard type inequalities. <i>Journal of Inequalities and Applications</i> , 2013, 2013, .  | 0.5 | 10        |
| 39 | On Minkowski's inequality and its application. <i>Journal of Inequalities and Applications</i> , 2011, 2011, .  | 0.5 | 8         |
| 40 | Periodic boundary value problems for first-order impulsive difference equations with time delay. <i>Advances in Difference Equations</i> , 2018, 2018, .                          | 3.5 | 8         |
| 41 | Some properties of functions related to certain classes of completely monotonic functions and logarithmically completely monotonic functions. <i>Filomat</i> , 2014, 28, 821-828. | 0.2 | 8         |
| 42 | On Hilbert's inequalities with alternating signs. <i>Journal of Mathematical Inequalities</i> , 2018, , 191-200.  | 0.5 | 8         |
| 43 | On some new Hilbert-type inequalities. <i>Mathematica Slovaca</i> , 2011, 61, 15-28.  | 0.3 | 7         |
| 44 | Determination of convex bodies from $\hat{I}^n$ -section functions. <i>Journal of Shanghai University</i> , 2008, 12, 200-203.  | 0.1 | 6         |
| 45 | On Lyapunov-Type Inequalities for Two-Dimensional Nonlinear Partial Systems. <i>Journal of Inequalities and Applications</i> , 2010, 2010, 504982.                                | 0.5 | 6         |
| 46 | On improvements of the Rozanova's inequality. <i>Journal of Inequalities and Applications</i> , 2011, 2011, .   | 0.5 | 6         |
| 47 | Note on weighted Carleman-type inequality. <i>International Journal of Mathematics and Mathematical Sciences</i> , 2005, 2005, 475-481.   | 0.3 | 5         |
| 48 | Higher order conservation laws and a higher order Noether's theorem. <i>Advances in Applied Mathematics</i> , 1987, 8, 446-485.   | 0.4 | 4         |
| 49 | Inverses of new Hilbert-Pachpatte-type inequalities. <i>Journal of Inequalities and Applications</i> , 2006, 2006, 1-11.  | 0.5 | 4         |
| 50 | Oscillation criteria for first and second order forced difference equations with mixed nonlinearities. <i>Mathematical and Computer Modelling</i> , 2007, 45, 965-973.            | 2.0 | 4         |
| 51 | Fixed-sign solutions for a system of singular focal boundary value problems. <i>Journal of Mathematical Analysis and Applications</i> , 2007, 329, 851-869.                       | 0.5 | 4         |
| 52 | Chord power integrals and radial mean bodies. <i>Journal of Mathematical Analysis and Applications</i> , 2008, 342, 629-637.  | 0.5 | 4         |
| 53 | Bounds for inclusion measures of convex bodies. <i>Advances in Applied Mathematics</i> , 2008, 41, 584-598.   | 0.4 | 4         |
| 54 | On Multivariate Gr $\ddot{A}$ ss Inequalities. <i>Journal of Inequalities and Applications</i> , 2008, 2008, 249438.  | 0.5 | 4         |

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|----|--|-----|-----------|
| 55 | Lp-Brunn-Minkowski inequality. <i>Indagationes Mathematicae</i> , 2009, 20, 179-190.   | 0.2 | 4         |
| 56 | Existence and Lyapunov Stability of Periodic Solutions for Generalized Higher-Order Neutral Differential Equations. <i>Boundary Value Problems</i> , 2011, 2011, 1-21. | 0.3 | 4         |
| 57 | On Opial-type integral inequalities and applications. <i>Mathematical Inequalities and Applications</i> , 2014, , 223-232.   | 0.1 | 4         |
| 58 | On integral inequalities of the Sobolev type. <i>Aequationes Mathematicae</i> , 1995, 49, 153-159.   | 0.4 | 3         |
| 59 | Some discrete Poincaré-type inequalities. <i>International Journal of Mathematics and Mathematical Sciences</i> , 2001, 25, 479-488.                                   | 0.3 | 3         |
| 60 | Some remarks on the local moduli of tangent bundles over complex surfaces. <i>American Journal of Mathematics</i> , 2003, 125, 1029-1035.                              | 0.5 | 3         |
| 61 | On Opial-type inequalities with higher order partial derivatives. <i>Applied Mathematics Letters</i> , 2012, 25, 2156-2161.  | 1.5 | 3         |
| 62 | On Hilbert type inequalities. <i>Journal of Inequalities and Applications</i> , 2012, 2012, .  | 0.5 | 3         |
| 63 | ON OPIAL INEQUALITIES INVOLVING HIGHER ORDER DERIVATIVES. <i>Bulletin of the Korean Mathematical Society</i> , 2012, 49, 1263-1274.                                    | 0.3 | 3         |
| 64 | DISCRETE POINCARÉ-TYPE INEQUALITIES. <i>Tamkang Journal of Mathematics</i> , 1998, 29, 145-153.  | 0.3 | 3         |
| 65 | An Integral Inequality of an Intrinsic Measure on Bounded Domains in $\mathbb{R}^n$ . <i>Rocky Mountain Journal of Mathematics</i> , 1992, 22, 825.                    | 0.2 | 2         |
| 66 | On Opial-Type Integral Inequalities. <i>Journal of Inequalities and Applications</i> , 2007, 2007, 1-16.   | 0.5 | 2         |
| 67 | Polar duals of convex and star bodies. <i>Journal of Inequalities and Applications</i> , 2012, 2012, .   | 0.5 | 2         |
| 68 | On Inequalities of Lyapunov for Two-Dimensional Nonlinear Dynamic Systems on Time Scales. <i>Abstract and Applied Analysis</i> , 2013, 2013, 1-8.                      | 0.3 | 2         |
| 69 | Orlicz Mean Dual Affine Quermassintegrals. <i>Journal of Function Spaces</i> , 2018, 2018, 1-13.   | 0.4 | 2         |
| 70 | Radial mean bodies of simplices. <i>Journal of Shanghai University</i> , 2007, 11, 49-51.  | 0.1 | 1         |
| 71 | Remarks on two theorems of Qi-Keng Lu. <i>Science in China Series A: Mathematics</i> , 2008, 51, 773-776.  | 0.5 | 1         |
| 72 | CHORD POWER INTEGRALS OF SIMPLICES. <i>Asian-European Journal of Mathematics</i> , 2009, 02, 557-565.  | 0.2 | 1         |

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|----|--|-----|-----------|
| 73 | Firey linear combinations of convex bodies. Journal of Shanghai University, 2009, 13, 102-104.   | 0.1 | 1         |
| 74 | Sharp discrete inequalities and applications to discrete variational problems. Journal of Computational and Applied Mathematics, 2009, 232, 176-186. | 1.1 | 1         |
| 75 | $L_p$ -mixed intersection bodies and star duality. Proceedings of the Indian Academy of Sciences: Mathematical Sciences, 2010, 120, 429-440.         | 0.2 | 1         |
| 76 | On Hilbert-Pachpatte Multiple Integral Inequalities. Journal of Inequalities and Applications, 2010, 2010, 820857.                                   | 0.5 | 1         |
| 77 | On Ostrowski-Type Inequalities for Higher-Order Partial Derivatives. Journal of Inequalities and Applications, 2010, 2010, 1-8.                      | 0.5 | 1         |
| 78 | On Bohr's Inequalities. Springer Optimization and Its Applications, 2012, , 147-160.   | 0.6 | 1         |
| 79 | On Opial's type inequalities for an integral operator with homogeneous kernel. Journal of Inequalities and Applications, 2012, 2012, .               | 0.5 | 1         |
| 80 | On Reverse Minkowski-Type Inequalities. Mediterranean Journal of Mathematics, 2015, 12, 1085-1094.   | 0.4 | 1         |
| 81 | A Class of Coupled Causal Differential Equations. Symmetry, 2018, 10, 421.   | 1.1 | 1         |
| 82 | Inequalities for Katugampola conformable partial derivatives. Journal of Inequalities and Applications, 2019, 2019, .                                | 0.5 | 1         |
| 83 | On Improvements of Kantorovich Type Inequalities. Mathematics, 2019, 7, 259.   | 1.1 | 1         |
| 84 | AN EQUIVALENCE FORM OF THE BRUNN-MINKOWSKI INEQUALITY FOR VOLUME DIFFERENCES. Journal of the Korean Mathematical Society, 2007, 44, 1373-1381.       | 0.4 | 1         |
| 85 | On a half-discrete Mulholland-type inequality. Mathematical Inequalities and Applications, 2013, , 527-534.  | 0.1 | 1         |
| 86 | Multi-dimensional integral inequalities of the Wirtinger-type. Mathematical Inequalities and Applications, 1998, , 481-489.                          | 0.1 | 1         |
| 87 | On Multi-Dimensional Integral Inequalities and Applications. , 1999, , 53-67.  |     | 1         |
| 88 | Two-Point Boundary Value Problems for First Order Causal Difference Equations. Indian Journal of Pure and Applied Mathematics, 2020, 51, 1399-1416.  | 0.3 | 1         |
| 89 | On a non-abelian invariant on complex surfaces of general type. Science in China Series A: Mathematics, 2006, 49, 1897-1900.                         | 0.5 | 0         |
| 90 | Inclusion measures of convex bodies (II). Journal of Shanghai University, 2007, 11, 545-548.   | 0.1 | 0         |

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|-----|---|-----|-----------|
| 91  | On Inverse Hilbert-Type Inequalities. Journal of Inequalities and Applications, 2008, 2008, 1-6.  | 0.5 | 0         |
| 92  | Some sharp integral inequalities involving partial derivatives. Journal of Inequalities and Applications, 2012, 2012, .   | 0.5 | 0         |
| 93  | An Opial-Type Inequality on Time Scales. Abstract and Applied Analysis, 2013, 2013, 1-5.  | 0.3 | 0         |
| 94  | On Hardy-Pachpatte-Copson's Inequalities. Scientific World Journal, The, 2014, 2014, 1-7.   | 0.8 | 0         |
| 95  | On Retarded Integral Inequalities for Dynamic Systems on Time Scales. Abstract and Applied Analysis, 2014, 2014, 1-7.   | 0.3 | 0         |
| 96  | Advances in Opial's Type Integral Inequalities. , 2014, , 749-778.  |     | 0         |
| 97  | Reverse Beckenbach-Dresher's inequality. Journal of Inequalities and Applications, 2015, 2015, .  | 0.5 | 0         |
| 98  | On Reverse Hilbert's Pachpatte-Type Inequalities. Iranian Journal of Science and Technology, Transaction A: Science, 2019, 43, 2899-2904.   | 0.7 | 0         |
| 99  | $q$ -dual mixed volumes and $L_p$ -intersection bodies. Georgian Mathematical Journal, 2019, 26, 149-157.   | 0.2 | 0         |
| 100 | Generalizations of Popoviciu's and Bellman's Inequalities. Bulletin of the Brazilian Mathematical Society, 2020, 51, 417-428.   | 0.3 | 0         |
| 101 | The mixed conformable partial derivatives. Periodica Mathematica Hungarica, 2021, 82, 173-180.  | 0.5 | 0         |
| 102 | Higher dimensional Hermite-Hadamard inequality for semiconvex functions of rate $(k_1, k_2, \dots, k_n)$ on the coordinates and optimal mass transportation. Mathematical Methods in the Applied Sciences, 0, , . | 1.2 | 0         |
| 103 | ON A WEAK FORM OF THE BLUMBERG PROPERTY. , 2004, , .  |     | 0         |
| 104 | Integral Inequalities in Higher Dimensional Spaces. Zeitschrift Fur Analysis Und Ihre Anwendung, 2005, 24, 389-400.   | 0.8 | 0         |
| 105 | Some New Weighted Hardy-type Inequalities for Vector-Valued Functions. Mathematical Inequalities and Applications, 2005, , 199-206.   | 0.1 | 0         |
| 106 | Some Discrete Nonlinear Inequalities and Applications to Boundary Value Problems. , 2005, , 83-90.  |     | 0         |
| 107 | On Multivariate Ostrowski Type Inequalities. Springer Optimization and Its Applications, 2011, , 361-369.   | 0.6 | 0         |
| 108 | Reverse Hilbert's type integral inequalities. Mathematical Inequalities and Applications, 2014, , 1551-1561.  | 0.1 | 0         |

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|-----|---|-----|-----------|
| 109 | GRIFFITHS' FORMALISM ON THE CALCULUS OF VARIATIONS VIA EXTERIOR DIFFERENTIAL SYSTEMS. , 1995, , 89-116. |     | 0         |
| 110 | Opial Inequalities Involving Higher-Order Partial Derivatives. , 2016, , 751-759.                       |     | 0         |
| 111 | Hilbert's inequalities with alternating signs. Periodica Mathematica Hungarica, 0, , 1.                 | 0.5 | 0         |