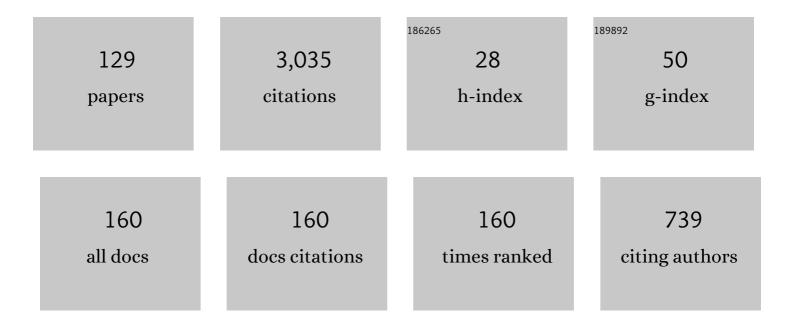
## Claude Brezinski

List of Publications by Year in descending order

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| #  | Article   | IF  | CITATIONS |
|----|---|-----|-----------|
| 1  | Shanks and Anderson-type acceleration techniques for systems of nonlinear equations. IMA Journal of Numerical Analysis, 2022, 42, 3058-3093.                              | 2.9 | 4         |
| 2  | Extrapolation and prediction of sequences in a vector space. Journal of Computational and Applied Mathematics, 2022, 409, 114164.   | 2.0 | 2         |
| 3  | The Legacy of Peter Wynn. Mathematics, 2021, 9, 1240.   | 2.2 | 4         |
| 4  | A Survey of Shanks' Extrapolation Methods and Their Applications. Computational Mathematics and Mathematical Physics, 2021, 61, 699-718.                                  | 0.8 | 2         |
| 5  | Some unusual results on extrapolation methods. Numerical Algorithms, 2020, 84, 1241-1264.   | 1.9 | 0         |
| 6  | Extrapolation and Rational Approximation. , 2020, , .   |     | 10        |
| 7  | Vitæ., 2020,, 311-338.  |     | 0         |
| 8  | The Works of Peter Wynn. , 2020, , 85-168.  |     | 0         |
| 9  | The Mathematical Landscape up to the Mid-Twentieth Century. , 2020, , 49-77.  |     | 0         |
| 10 | Commentaries and Further Developments. , 2020, , 169-215.   |     | 0         |
| 11 | The genesis and early developments of Aitken's process, Shanks' transformation, the ε–algorithm, and related fixed point methods. Numerical Algorithms, 2019, 80, 11-133. | 1.9 | 25        |
| 12 | Reminiscences of Peter Wynn. Numerical Algorithms, 2019, 80, 5-10.  | 1.9 | 3         |
| 13 | Extrapolation methods for the numerical solution of nonlinear Fredholm integral equations.<br>Journal of Integral Equations and Applications, 2019, 31, .                 | 0.6 | 10        |
| 14 | Zeros of quadratic quasi-orthogonal order 2 polynomials. Applied Numerical Mathematics, 2019, 135,<br>143-145.  | 2.1 | 4         |
| 15 | Shanks Sequence Transformations and Anderson Acceleration. SIAM Review, 2018, 60, 646-669.  | 9.5 | 38        |
| 16 | The simplified topological ε-algorithms: software and applications. Numerical Algorithms, 2017, 74,<br>1237-1260.   | 1.9 | 14        |
| 17 | Shanks function transformations in a vector space. Applied Numerical Mathematics, 2017, 116, 57-63.   | 2.1 | 3         |
| 18 | New representations of Padé, Padé-type, and partial Padé approximants. Journal of Computational and<br>Applied Mathematics, 2015, 284, 69-77.                             | 2.0 | 25        |

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|----|---|-------|-----------|
| 19 | Convergence acceleration of Kaczmarz's method. Journal of Engineering Mathematics, 2015, 93, 3-19.  | 1.2   | 15        |
| 20 | The Simplified Topological \$varepsilon\$-Algorithms for Accelerating Sequences in a Vector Space.<br>SIAM Journal of Scientific Computing, 2014, 36, A2227-A2247.                    | 2.8   | 21        |
| 21 | Multistep \$?\$–algorithm, Shanks' transformation, and the Lotka–Volterra system by Hirota's method<br>Mathematics of Computation, 2012, 81, 1527-1549.                               | · 2.1 | 17        |
| 22 | Moments of a linear operator, with applications to the trace of the inverse of matrices and the solution of equations. Numerical Linear Algebra With Applications, 2012, 19, 937-953. | 1.6   | 18        |
| 23 | A rational Arnoldi approach for ill-conditioned linear systems. Journal of Computational and Applied Mathematics, 2012, 236, 2063-2077.   | 2.0   | 6         |
| 24 | Confluent Form of the Multistep É›â€Algorithm, and the Relevant Integrable System. Studies in Applied<br>Mathematics, 2011, 127, 191-209.   | 2.4   | 6         |
| 25 | Extensions of Drummond's process for convergence acceleration. Applied Numerical Mathematics, 2010, 60, 1231-1241.  | 2.1   | 5         |
| 26 | A generalization of the G-transformation and the related algorithms. Applied Numerical Mathematics, 2010, 60, 1221-1230.  | 2.1   | 5         |
| 27 | From numerical quadrature to PadÃ $	ilde{	extbf{c}}$ approximation. Applied Numerical Mathematics, 2010, 60, 1209-1220.   | 2.1   | 7         |
| 28 | Nonlinear functional equations satisfied by orthogonal polynomials. Journal of Approximation Theory, 2010, 162, 2290-2302.  | 0.8   | 0         |
| 29 | Extended procedures for extrapolation to the limit. Journal of Computational and Applied Mathematics, 2010, 235, 631-645.   | 2.0   | 3         |
| 30 | Cross rules of some extrapolation algorithms. Inverse Problems, 2010, 26, 095013.   | 2.0   | 2         |
| 31 | Cross rules and non-Abelian lattice equations for the discrete and confluent non-scalar ε-algorithms.<br>Journal of Physics A: Mathematical and Theoretical, 2010, 43, 205201.        | 2.1   | 7         |
| 32 | Error estimates for the regularization of least squares problems. Numerical Algorithms, 2009, 51, 61-76.  | 1.9   | 51        |
| 33 | A review of vector convergence acceleration methods, with applications to linear algebra problems.<br>International Journal of Quantum Chemistry, 2009, 109, 1631-1639.               | 2.0   | 5         |
| 34 | Some pioneers of extrapolation methods. , 2009, , 1-22.   |       | 5         |
| 35 | Error estimates for linear systems with applications to regularization. Numerical Algorithms, 2008, 49, 85-104.   | 1.9   | 57        |
| 36 | Rational extrapolation for the PageRank vector. Mathematics of Computation, 2008, 77, 1585-1598.  | 2.1   | 26        |

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|----|---|-----|-----------|
| 37 | A brief introduction to integrable systems. International Journal of Computing Science and Mathematics, 2007, 1, 98.                                | 0.3 | 3         |
| 38 | Cauchy–Schwarz and Kantorovich type inequalities for scalar and matrix moment sequences.<br>Advances in Computational Mathematics, 2007, 26, 71-80. | 1.6 | 3         |
| 39 | The PageRank Vector: Properties, Computation, Approximation, and Acceleration. SIAM Journal on Matrix Analysis and Applications, 2006, 28, 551-575. | 1.4 | 47        |
| 40 | Schur Complements and Applications in Numerical Analysis. , 2005, , 227-258.  |     | 6         |
| 41 | New vector sequence transformations. Linear Algebra and Its Applications, 2004, 389, 189-213.   | 0.9 | 7         |
| 42 | Extrapolation Algorithms for Filtering Series of Functions, and Treating the Gibbs Phenomenon.<br>Numerical Algorithms, 2004, 36, 309-329.          | 1.9 | 55        |
| 43 | Quasi-orthogonality with applications to some families of classical orthogonal polynomials. Applied<br>Numerical Mathematics, 2004, 48, 157-168.    | 2.1 | 60        |
| 44 | Altman's methods revisited. Applicationes Mathematicae, 2004, 31, 353-368.  | 0.1 | 0         |
| 45 | A Classification of Quasi-Newton Methods. Numerical Algorithms, 2003, 33, 123-135.  | 1.9 | 29        |
| 46 | A Tribute. Numerical Algorithms, 2003, 33, 3-9.   | 1.9 | 0         |
| 47 | A Schur complement approach to a general extrapolation algorithm. Linear Algebra and Its<br>Applications, 2003, 368, 279-301.                       | 0.9 | 19        |
| 48 | A review of formal orthogonality in Lanczos-based methods. Journal of Computational and Applied<br>Mathematics, 2002, 140, 81-98.                   | 2.0 | 8         |
| 49 | Biorthogonal vector sequence transformations and Padé approximation of vector series. Applied Numerical Mathematics, 2002, 41, 437-442.             | 2.1 | 3         |
| 50 | Block Descent Methods and Hybrid Procedures for Linear Systems. Numerical Algorithms, 2002, 29, 21-32.  | 1.9 | 9         |
| 51 | Block Projection Methods for Linear Systems. Numerical Algorithms, 2002, 29, 33-43.   | 1.9 | 3         |
| 52 | Numerical analysis in the twentieth century. , 2001, , 1-40.  |     | 5         |
| 53 | Convergence acceleration during the 20th century. Journal of Computational and Applied Mathematics, 2000, 122, 1-21.                                | 2.0 | 131       |
| 54 | The matrix and polynomial approaches to Lanczos-type algorithms. Journal of Computational and Applied Mathematics, 2000, 123, 241-260.              | 2.0 | 7         |

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|----|---|-----|-----------|
| 55 | Acceleration procedures for matrix iterative methods. Numerical Algorithms, 2000, 25, 63-73.  | 1.9 | 5         |
| 56 | Variations on Lanczos' tridiagonalization process. Calcolo, 2000, 37, 159-179.  | 1.1 | 2         |
| 57 | Multiparameter descent methods. Linear Algebra and Its Applications, 1999, 296, 113-141.  | 0.9 | 14        |
| 58 | Krylov subspace methods, biorthogonal polynomials and Padé-type approximants. Numerical<br>Algorithms, 1999, 21, 97-107.                                      | 1.9 | 4         |
| 59 | Error Estimates for the Solution of Linear Systems. SIAM Journal of Scientific Computing, 1999, 21, 764-781.  | 2.8 | 34        |
| 60 | Multiparameter Iterative Schemes for the Solution of Systems of Linear and Nonlinear Equations.<br>SIAM Journal of Scientific Computing, 1999, 20, 2140-2159. | 2.8 | 16        |
| 61 | Transpose-free Lanczos-type algorithms for nonsymmetric linear systems. Numerical Algorithms, 1998, 17, 67-103.   | 1.9 | 15        |
| 62 | Vector sequence transformations: Methodology and applications to linear systems. Journal of Computational and Applied Mathematics, 1998, 98, 149-175.         | 2.0 | 18        |
| 63 | Nonlinear hybrid procedures and fixed point iterations. Numerical Functional Analysis and Optimization, 1998, 19, 465-487.                                    | 1.4 | 26        |
| 64 | Projection methods for linear systems. Journal of Computational and Applied Mathematics, 1997, 77, 35-51.   | 2.0 | 13        |
| 65 | Guido Walz,Asymptotics and Extrapolation. Journal of Approximation Theory, 1997, 90, 457-458.   | 0.8 | Ο         |
| 66 | The algebra of linear functionals on polynomials, with applications to Padé approximation. Numerical Algorithms, 1996, 11, 25-33.                             | 1.9 | 7         |
| 67 | A look-ahead strategy for the implementation of some old and new extrapolation methods. Numerical<br>Algorithms, 1996, 11, 35-55.                             | 1.9 | 4         |
| 68 | A derivation of extrapolation algorithms based on error estimates. Journal of Computational and<br>Applied Mathematics, 1996, 66, 5-26.                       | 2.0 | 24        |
| 69 | Extrapolation algorithms and Padé approximations: a historical survey. Applied Numerical Mathematics, 1996, 20, 299-318.                                      | 2.1 | 73        |
| 70 | The methods of Vorobyev and Lanczos. Linear Algebra and Its Applications, 1996, 234, 21-41.   | 0.9 | 5         |
| 71 | Vector and matrix sequence transformations based on biorthogonality. Applied Numerical<br>Mathematics, 1996, 21, 353-373.                                     | 2.1 | 16        |
| 72 | Acceleration properties of the hybrid procedure for solving linear systems. Applicationes<br>Mathematicae, 1996, 23, 417-432.                                 | 0.1 | 1         |

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|----|--|------|-----------|
| 73 | Look-ahead in Bi-CGSTAB and other product methods for linear systems. BIT Numerical Mathematics, 1995, 35, 169-201.  | 2.0  | 29        |
| 74 | Matrix and vector sequence transformations revisited. Proceedings of the Edinburgh Mathematical Society, 1995, 38, 495-510.  | 0.3  | 12        |
| 75 | A Taste of Padé Approximation. Acta Numerica, 1995, 4, 53-103.   | 10.7 | 30        |
| 76 | Padé approximations. Handbook of Numerical Analysis, 1994, 3, 47-222.  | 1.8  | 24        |
| 77 | Extrapolation methods. Applied Numerical Mathematics, 1994, 15, 123-131.   | 2.1  | 29        |
| 78 | Treatment of near-breakdown in the CGS algorithm. Numerical Algorithms, 1994, 7, 33-73.  | 1.9  | 29        |
| 79 | Biorthogonal polynomials and the bordering method for linear systems. Milan Journal of<br>Mathematics, 1994, 64, 85-98.  | 0.1  | 2         |
| 80 | On the kernel of sequence transformations. Applied Numerical Mathematics, 1994, 16, 239-244.   | 2.1  | 10        |
| 81 | A general extrapolation procedure revisited. Advances in Computational Mathematics, 1994, 2, 461-477.  | 1.6  | 23        |
| 82 | The Reverse Bordering Method. SIAM Journal on Matrix Analysis and Applications, 1994, 15, 922-937.   | 1.4  | 8         |
| 83 | Orthogonal polynomials and the Lanczos method. Banach Center Publications, 1994, 29, 19-33.  | 0.1  | Ο         |
| 84 | Lanczos-type algorithms for solving systems of linear equations. Applied Numerical Mathematics, 1993, 11, 443-473.   | 2.1  | 58        |
| 85 | The Mellin transformation and Fuchsian type partial differential equations. Mathematics and Computers in Simulation, 1993, 35, 188.  | 4.4  | Ο         |
| 86 | Least-squares orthogonal polynomials. Journal of Computational and Applied Mathematics, 1993, 46, 229-239.   | 2.0  | 14        |
| 87 | Some vector sequence transformations with applications to systems of equations. Numerical Algorithms, 1992, 3, 75-80.  | 1.9  | 12        |
| 88 | Addendum to "Avoiding breakdown and near-breakdown in Lanczos type algorithms― Numerical<br>Algorithms, 1992, 2, 133-136.  | 1.9  | 20        |
| 89 | Implementing the jackknife. Applied Mathematics and Computation, 1991, 42, 111-119.  | 2.2  | 1         |
| 90 | Sequences of transformations and triangular recursion schemes, with applications in numerical analysis. Journal of Computational and Applied Mathematics, 1991, 34, 361-383. | 2.0  | 33        |

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|-----|--|-----|-----------|
| 91  | Generalizations of the Christoffel-Darboux identity for adjacent families of orthogonal polynomials.<br>Applied Numerical Mathematics, 1991, 8, 193-199.                     | 2.1 | 3         |
| 92  | Construction of extrapolation processes. Applied Numerical Mathematics, 1991, 8, 11-23.  | 2.1 | 13        |
| 93  | Optimal linear contractive sequence transformations. Journal of Computational and Applied<br>Mathematics, 1991, 38, 45-59.   | 2.0 | 2         |
| 94  | Avoiding breakdown in the CGS algorithm. Numerical Algorithms, 1991, 1, 199-206.   | 1.9 | 38        |
| 95  | A new presentation of orthogonal polynomials with applications to their computation. Numerical Algorithms, 1991, 1, 207-221.   | 1.9 | 30        |
| 96  | Avoiding breakdown and near-breakdown in Lanczos type algorithms. Numerical Algorithms, 1991, 1, 261-284.  | 1.9 | 77        |
| 97  | Duality in Padé-type approximation. Journal of Computational and Applied Mathematics, 1990, 30, 351-357.   | 2.0 | 6         |
| 98  | A direct proof of the Christoffel-Darboux identity and its equivalence to the recurrence relationship.<br>Journal of Computational and Applied Mathematics, 1990, 32, 17-25. | 2.0 | 17        |
| 99  | Procedures for Estimating the Error in Pade Approximation. Mathematics of Computation, 1989, 53, 639.  | 2.1 | 9         |
| 100 | On the asymptotic behaviour of continued fractions. Applied Numerical Mathematics, 1988, 4, 231-239.   | 2.1 | 2         |
| 101 | Partial Padé approximation. Journal of Approximation Theory, 1988, 54, 210-233.  | 0.8 | 27        |
| 102 | Other manifestations of the Schur complement. Linear Algebra and Its Applications, 1988, 111, 231-247.   | 0.9 | 72        |
| 103 | Quasi-Linear Extrapolation Processes. International Series of Numerical Mathematics, 1988, , 61-78.  | 1.1 | 12        |
| 104 | Successive modifications of limit periodic continued fractions. Journal of Computational and Applied Mathematics, 1987, 19, 67-74.   | 2.0 | 8         |
| 105 | The linear convergence of limit periodic continued fractions. Journal of Computational and Applied Mathematics, 1987, 19, 75-77.   | 2.0 | 11        |
| 106 | Acceleration of extended fibonacci sequences. Applied Numerical Mathematics, 1986, 2, 1-8.   | 2.1 | 13        |
| 107 | On interpolatory multivariate Padé-type approximants. BIT Numerical Mathematics, 1986, 26, 254-258.  | 2.0 | 4         |
| 108 | Prediction properties of some extrapolation methods. Applied Numerical Mathematics, 1985, 1, 457-462.  | 2.1 | 20        |

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| 109 | Some determinantal identities in a vector space, with applications. Lecture Notes in Mathematics, 1984, , 1-11.                        | 0.2 | 15        |
| 110 | Recursive interpolation, extrapolation and projection. Journal of Computational and Applied Mathematics, 1983, 9, 369-376.             | 2.0 | 53        |
| 111 | Convergence Acceleration by Extraction of Linear Subsequences. SIAM Journal on Numerical Analysis, 1983, 20, 1099-1105.                | 2.3 | 20        |
| 112 | Error Control in Convergence Acceleration Processes. IMA Journal of Numerical Analysis, 1983, 3, 65-80.                                | 2.9 | 26        |
| 113 | Some new convergence acceleration methods. Mathematics of Computation, 1982, 39, 133-133.  | 2.1 | 33        |
| 114 | A general extrapolation algorithm. Numerische Mathematik, 1980, 35, 175-187.   | 1.9 | 228       |
| 115 | The mühlbach-neville-aitken algorithm and some extensions. BIT Numerical Mathematics, 1980, 20, 443-451.                               | 2.0 | 39        |
| 116 | Padé-Type Approximation and General Orthogonal Polynomials. International Series of Numerical<br>Mathematics, 1980, , .                | 1.1 | 384       |
| 117 | Approximants de Pade Mathematics of Computation, 1980, 35, 1034.   | 2.1 | 1         |
| 118 | Rational approximation to formal power series. Journal of Approximation Theory, 1979, 25, 295-317.                                     | 0.8 | 54        |
| 119 | Limiting relationships and comparison theorems for sequences. Rendiconti Del Circolo Matematico Di<br>Palermo, 1979, 28, 273-280.      | 1.3 | 8         |
| 120 | Sur le calcul de certains rapports de determinants. Lecture Notes in Mathematics, 1979, , 184-210.                                     | 0.2 | 7         |
| 121 | Computation of Padé approximants and continued fractions. Journal of Computational and Applied Mathematics, 1976, 2, 113-123.          | 2.0 | 22        |
| 122 | Generalisations de la transformation de shanks, de la table de Pade et de l'ε-algorithme. Calcolo, 1975,<br>12, 317-360.               | 1.1 | 102       |
| 123 | Numerical stability of a quadratic method for solving systems of non linear equations. Computing (Vienna/New York), 1975, 14, 205-211. | 4.8 | 11        |
| 124 | Computation of the Eigenelements of a matrix by the $\hat{I}\mu$ -algorithm. Linear Algebra and Its Applications, 1975, 11, 7-20.      | 0.9 | 22        |
| 125 | Forme confluente de l'?-algorithme topologique. Numerische Mathematik, 1974, 23, 363-370.  | 1.9 | 7         |
| 126 | Some results in the theory of the vector ε-algorithm. Linear Algebra and Its Applications, 1974, 8, 77-86.                             | 0.9 | 26        |

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| 127 | The solution of systems of equations using the ?-algorithm, and an application to boundary-value problems. Mathematics of Computation, 1974, 28, 731-741. | 2.1 | 21        |
| 128 | Etudes sur les ?- et ?-algorithmes. Numerische Mathematik, 1971, 17, 153-162.   | 1.9 | 27        |
| 129 | Matrix Shanks Transformations. Electronic Journal of Linear Algebra, 0, 35, 248-265.  | 0.6 | 2         |