## Claude Brezinski

## List of Publications by Year in descending order

Source: https:/|exaly.com/author-pdf/3453291/publications.pdf
Version: 2024-02-01


Shanks and Anderson-type acceleration techniques for systems of nonlinear equations. IMA Journal
of Numerical Analysis, 2022, 42, 3058-3093. of Numerical Analysis, 2022, 42, 3058-3093.

Extrapolation and prediction of sequences in a vector space. Journal of Computational and Applied Mathematics, 2022, 409, 114164.
2
$3 \quad$ The Legacy of Peter Wynn. Mathematics, 2021, 9, 1240.
2.2

A Survey of Shanksâ $€^{\text {TM }}$ Extrapolation Methods and Their Applications. Computational Mathematics and Mathematical Physics, 2021, 61, 699-718.

Some unusual results on extrapolation methods. Numerical Algorithms, 2020, 84, 1241-1264.
1.9

Extrapolation and Rational Approximation. , 2020, , .
$7 \quad$ VitÃ $\mid ., 2020$, , 311-338.

8 The Works of Peter Wynn. , 2020, , 85-168.

9 The Mathematical Landscape up to the Mid-Twentieth Century., 2020, , 49-77.

10 Commentaries and Further Developments. , 2020, , 169-215.
11 The genesis and early developments of Aitkenâ $\epsilon^{T M}$ s process, Shanksấ $€^{T M}$ transformation, the $\hat{\mu} \mu \hat{\not} €^{\prime \prime}$ algorithm, and related fixed point methods. Numerical Algorithms, 2019, 80, 11-133.

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.
Journal of Integral Equations and Applications, 2019, 31, .

Zeros of quadratic quasi-orthogonal order 2 polynomials. Applied Numerical Mathematics, 2019, 135, 143-145.

15 Shanks Sequence Transformations and Anderson Acceleration. SIAM Review, 2018, 60, 646-669.
9.5

38

The simplified topological $̂$ Iि-algorithms: software and applications. Numerical Algorithms, 2017, 74, 1237-1260.

17 Shanks function transformations in a vector space. Applied Numerical Mathematics, 2017, 116, 57-63.
2.1

3
$19 \quad$ Convergence acceleration of Kaczmarzâ $€^{\mathrm{TM}}$ s method. Journal of Engineering Mathematics, 2015, 93, 3-19. 2.2
A rational Arnoldi approach for ill-conditioned linear systems. Journal of Computational and Applied
Mathematics, 2012, 236, 2063-2077.

$24 \quad$| Confluent Form of the Multistep ÉrấAlgorithm, and the Relevant Integrable System. Studies in Applied |
| :--- |
| Mathematics, 2011, 127, 191-209. |


$25 \quad$| Extensions of Drummond's process for convergence acceleration. Applied Numerical Mathematics, |
| :--- |
| $2010,60,1231-1241$. |


$26 \quad$| A generalization of the G-transformation and the related algorithms. Applied Numerical Mathematics, |
| :--- |
| $2010,60,1221-1230$. |

27 From numerical quadrature to PadÃ© approximation. Applied Numerical Mathematics, 2010, 60, 1209-1220.

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.
$2.0 \quad 3$
$30 \quad$ Cross rules of some extrapolation algorithms. Inverse Problems, 2010, 26, 095013.
$2.0 \quad 2$
31 Cross rules and non-Abelian lattice equations for the discrete and confluent non-scalar $\hat{\mu} \mu$-algorithms.
Journal of Physics A: Mathematical and Theoretical, 2010, 43, 205201.

32 Error estimates for the regularization of least squares problems. Numerical Algorithms, 2009, 51,
1.9

51

> A review of vector convergence acceleration methods, with applications to linear algebra problems.
> International Journal of Quantum Chemistry, $2009,109,1631-1639$.
2.0

5

34 Some pioneers of extrapolation methods. , 2009, , 1-22.
5

Error estimates for linear systems with applications to regularization. Numerical Algorithms, 2008,
$45,85-104$.
49, 85-104.
1.9

57

$$
\begin{aligned}
& 37 \text { A brief introduction to integrable systems. International Journal of Computing Science and } \\
& \text { Mathematics, 2007, 1, } 98 \text {. }
\end{aligned}
$$

Cauchyâ€"Schwarz and Kantorovich type inequalities for scalar and matrix moment sequences. Advances in Computational Mathematics, 2007, 26, 71-80.

The PageRank Vector: Properties, Computation, Approximation, and Acceleration. SIAM Journal on
Matrix Analysis and Applications, 2006, 28, 551-575.
1.4

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.

Extrapolation Algorithms for Filtering Series of Functions, and Treating the Gibbs Phenomenon.
Numerical Algorithms, 2004, 36, 309-329.

Quasi-orthogonality with applications to some families of classical orthogonal polynomials. Applied
Numerical Mathematics, 2004, 48, 157-168.

Altman's methods revisited. Applicationes Mathematicae, 2004, 31, 353-368.

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

A Schur complement approach to a general extrapolation algorithm. Linear Algebra and Its
Applications, 2003, 368, 279-301.
0.9

19

A review of formal orthogonality in Lanczos-based methods. Journal of Computational and Applied
Mathematics, 2002, 140, 81-98.
2.0

8

Biorthogonal vector sequence transformations and PadÃ® approximation of vector series. Applied
Numerical Mathematics, 2002, 41, 437-442.

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 |
| :--- | :--- | :--- |

52 Numerical analysis in the twentieth century. , 2001, , 1-40.
5

Convergence acceleration during the 20th century. Journal of Computational and Applied
Mathematics, 2000, 122, 1-21.
2.0

131
55 Acceleration procedures for matrix iterative methods. Numerical Algorithms, 2000, 25, 63-73. 1.9

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. | 14 |
| :--- | :--- | :--- |

58 Krylov subspace methods, biorthogonal polynomials and PadÃ©-type approximants. Numerical
$1.9 \quad 4$
Algorithms, 1999, 21, 97-107.
Error Estimates for the Solution of Linear Systems. SIAM Journal of Scientific Computing, 1999, 21,
$764-781$.
Multiparameter Iterative Schemes for the Solution of Systems of Linear and Nonlinear Equations.
$60 \quad 2.8$
SIAM Journal of Scientific Computing, 1999, 20, 2140-2159.
61 Transpose-free Lanczos-type algorithms for nonsymmetric linear systems. Numerical Algorithms, 1998,

17, 67-103.

Vector sequence transformations: Methodology and applications to linear systems. Journal of
Computational and Applied Mathematics, 1998, 98, 149-175.
$2.0 \quad 18$

Nonlinear hybrid procedures and fixed point iterations. Numerical Functional Analysis and
Optimization, 1998, 19, 465-487.

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.
$0.8 \quad 0$

The algebra of linear functionals on polynomials, with applications to PadÃ® approximation. Numerical
66 Algorithms, 1996, 11, 25-33.
$1.9 \quad 7$

A look-ahead strategy for the implementation of some old and new extrapolation methods. Numerical
67 Alook-anead strategy for the
$1.9 \quad 4$

A derivation of extrapolation algorithms based on error estimates. Journal of Computational and
2.0

24
Applied Mathematics, 1996, 66, 5-26.
$2.1 \quad 73$

> Mathematics, 1996, 20, 299-318.

Extrapolation algorithms and PadÃ© approximations: a historical survey. Applied Numerical

70 The methods of Vorobyev and Lanczos. Linear Algebra and Its Applications, 1996, 234, 21-41.
$0.9 \quad 5$

71 Vector and matrix sequence transformations based on biorthogonality. Applied Numerical
Mathematics, 1996, 21, 353-373.
$2.1 \quad 16$
16
73 Look-ahead in Bi-CGSTAB and other product methods for linear systems. BIT Numerical Mathematics, 2.0 ..... 29 1995, 35, 169-201.
$0.3 \quad 12$Society, 1995, 38, 495-510.74 Matrix and vector sequence transformations revisited. Proceedings of the Edinburgh Mathematical
10.7 ..... 3075 A Taste of PadÃ@ Approximation. Acta Numerica, 1995, 4, 53-103.
76 PadÃ® approximations. Handbook of Numerical Analysis, 1994, 3, 47-222. ..... 1.8 ..... 24
77 Extrapolation methods. Applied Numerical Mathematics, 1994, 15, 123-131. $2.1 \quad 29$
78 Treatment of near-breakdown in the CGS algorithm. Numerical Algorithms, 1994, 7, 33-73.1.929
79 Biorthogonal polynomials and the bordering method for linear systems. Milan Journal of
Mathematics, 1994, 64, 85-98. ..... $0.1 \quad 2$
80 On the kernel of sequence transformations. Applied Numerical Mathematics, 1994, 16, 239-244.2.110
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, 922-937.1.48
83 Orthogonal polynomials and the Lanczos method. Banach Center Publications, 1994, 29, 19-33. 0.1 ..... 0
84 Lanczos-type algorithms for solving systems of linear equations. Applied Numerical Mathematics, 1993,2.158
11, 443-473.
4.4 ..... 0
85 The Mellin transformation and Fuchsian type partial differential equations. Mathematics and
Computers in Simulation, 1993, 35, 188.
2.0 ..... 14Least-squares orthogonal polynomials. Journal of Computational and Applied Mathematics, 1993, 46,
229-239.1.912Some vector sequence transformations with applications to systems of equations. Numerical1.9Algorithms, 1992, 3, 75-80.Addendum to â€œAvoiding breakdown and near-breakdown in Lanczos type algorithmsâ€: Numerical1.920
Algorithms, 1992, 2, 133-136.2.21
89 Implementing the jackknife. Applied Mathematics and Computation, 1991, 42, 111-119.1
Optimal linear contractive sequence transformations. Journal of Computational and Applied
Mathematics, 1991, 38, 45-59.
A new presentation of orthogonal polynomials with applications to their computation. Numerical
Algorithms, 1991, 1, 207-221.

96 Avoiding breakdown and near-breakdown in Lanczos type algorithms. Numerical Algorithms, 1991, 1,
261-284.
1.9
$97 \quad$ Duality in PadÃ ©-type approximation. Journal of Computational and Applied Mathematics, 1990, 30, 351-357. $2.0 \quad 6$

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
101 Partial PadÃ© approximation. Journal of Approximation Theory, 1988, 54, 210-233.0.8
103 Quasi-Linear Extrapolation Processes. International Series of Numerical Mathematics, 1988, , 61-78. ..... 1.1 ..... 12Successive modifications of limit periodic continued fractions. Journal of Computational and Applied

| \# | Article | IF | Citations |
| :---: | :---: | :---: | :---: |
| 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 mÃ $1 / 4$ hlbach-neville-aitken algorithm and some extensions. BIT Numerical Mathematics, 1980, 20, 443-451. | 2.0 | 39 |
| 116 | PadÃ®-Type Approximation and General Orthogonal Polynomials. International Series of Numerical 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 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 PadÃ® 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'Î $\mu$-algorithme. Calcolo, 1975, 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 $\hat{\mu} \mu$-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 Î $\mu$-algorithm. Linear Algebra and Its Applications, 1974, 8, 77-86. | 0.9 | 26 |

