Valeria Simoncini

List of Publications by Citations

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| # | Paper | IF | Citations |
|-----|---|------|-----------|
| 102 | A FAMILY OF MIMETIC FINITE DIFFERENCE METHODS ON POLYGONAL AND POLYHEDRAL MESHES. <i>Mathematical Models and Methods in Applied Sciences</i> , 2005 , 15, 1533-1551 | 3.5 | 278 |
| 101 | Recent computational developments in Krylov subspace methods for linear systems. <i>Numerical Linear Algebra With Applications</i> , 2007 , 14, 1-59 | 1.6 | 218 |
| 100 | A New Iterative Method for Solving Large-Scale Lyapunov Matrix Equations. <i>SIAM Journal of Scientific Computing</i> , 2007 , 29, 1268-1288 | 2.6 | 196 |
| 99 | Computational Methods for Linear Matrix Equations. SIAM Review, 2016, 58, 377-441 | 7.4 | 191 |
| 98 | Theory of Inexact Krylov Subspace Methods and Applications to Scientific Computing. <i>SIAM Journal of Scientific Computing</i> , 2003 , 25, 454-477 | 2.6 | 133 |
| 97 | Iterative system solvers for the frequency analysis of linear mechanical systems. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2000 , 190, 1719-1739 | 5.7 | 106 |
| 96 | A new discretization methodology for diffusion problems on generalized polyhedral meshes. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2007 , 196, 3682-3692 | 5.7 | 101 |
| 95 | Adaptive rational Krylov subspaces for large-scale dynamical systems. <i>Systems and Control Letters</i> , 2011 , 60, 546-560 | 2.4 | 96 |
| 94 | An Iterative Method for Nonsymmetric Systems with Multiple Right-Hand Sides. <i>SIAM Journal of Scientific Computing</i> , 1995 , 16, 917-933 | 2.6 | 96 |
| 93 | Block triangular preconditioners for symmetric saddle-point problems. <i>Applied Numerical Mathematics</i> , 2004 , 49, 63-80 | 2.5 | 94 |
| 92 | Block-diagonal and indefinite symmetric preconditioners for mixed finite element formulations. <i>Numerical Linear Algebra With Applications</i> , 2000 , 7, 585-616 | 1.6 | 92 |
| 91 | On the eigenvalues of a class of saddle point matrices. <i>Numerische Mathematik</i> , 2006 , 103, 173-196 | 2.2 | 89 |
| 90 | Convergence properties of block GMRES and matrix polynomials. <i>Linear Algebra and Its Applications</i> , 1996 , 247, 97-119 | 0.9 | 84 |
| 89 | Spectral Properties of the Hermitian and Skew-Hermitian Splitting Preconditioner for Saddle Point Problems. <i>SIAM Journal on Matrix Analysis and Applications</i> , 2004 , 26, 377-389 | 1.5 | 78 |
| 88 | Flexible Inner-Outer Krylov Subspace Methods. <i>SIAM Journal on Numerical Analysis</i> , 2002 , 40, 2219-223 | 92.4 | 77 |
| 87 | A Quasi-Minimal Residual Variant of the Bi-CGSTAB Algorithm for Nonsymmetric Systems. <i>SIAM Journal of Scientific Computing</i> , 1994 , 15, 338-347 | 2.6 | 74 |
| 86 | Inexact Rayleigh Quotient-Type Methods for Eigenvalue Computations. <i>BIT Numerical Mathematics</i> , 2002 , 42, 159-182 | 1.7 | 73 |

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| Efficient algebraic solution of reaction diffusion systems for the cardiac excitation process. <i>Journal of Computational and Applied Mathematics</i> , 2002 , 145, 49-70 | 2.4 | 70 | |
|---|--|--|---|
| Krylov Subspace Methods for Saddle Point Problems with Indefinite Preconditioning. <i>SIAM Journal on Matrix Analysis and Applications</i> , 2002 , 24, 368-391 | 1.5 | 70 | |
| Analysis of the Rational Krylov Subspace and ADI Methods for Solving the Lyapunov Equation. <i>SIAM Journal on Numerical Analysis</i> , 2011 , 49, 1875-1898 | 2.4 | 66 | |
| Analysis of Projection Methods for Rational Function Approximation to the Matrix Exponential. <i>SIAM Journal on Numerical Analysis</i> , 2006 , 44, 613-635 | 2.4 | 59 | |
| Algebraic multigrid preconditioners for the bidomain reaction diffusion system. <i>Applied Numerical Mathematics</i> , 2009 , 59, 3033-3050 | 2.5 | 50 | |
| Acceleration Techniques for Approximating the Matrix Exponential Operator. <i>SIAM Journal on Matrix Analysis and Applications</i> , 2008 , 30, 657-683 | 1.5 | 50 | |
| Restarted Full Orthogonalization Method for Shifted Linear Systems. <i>BIT Numerical Mathematics</i> , 2003 , 43, 459-466 | 1.7 | 48 | |
| On the Numerical Solution of $\frac{1}{2}$ (lambda^2 A + lambda B + C), x = b\$ and Application to Structural Dynamics. SIAM Journal of Scientific Computing, 2002, 23, 1875-1897 | 2.6 | 45 | |
| On the numerical solution of AX B B = C. <i>BIT Numerical Mathematics</i> , 1996 , 36, 814-830 | 1.7 | 38 | |
| Stability estimates and structural spectral properties of saddle point problems. <i>Numerische Mathematik</i> , 2013 , 124, 183-213 | 2.2 | 35 | |
| On the Occurrence of Superlinear Convergence of Exact and Inexact Krylov Subspace Methods. <i>SIAM Review</i> , 2005 , 47, 247-272 | 7.4 | 35 | |
| Convergence analysis of the extended Krylov subspace method for the Lyapunov equation. <i>Numerische Mathematik</i> , 2011 , 118, 567-586 | 2.2 | 34 | |
| A hybrid block GMRES method for nonsymmetric systems with multiple right-hand sides. <i>Journal of Computational and Applied Mathematics</i> , 1996 , 66, 457-469 | 2.4 | 34 | |
| On two numerical methods for the solution of large-scale algebraic Riccati equations. <i>IMA Journal of Numerical Analysis</i> , 2014 , 34, 904-920 | 1.8 | 32 | |
| Dynamics of actively regulated gene networks. <i>Physica D: Nonlinear Phenomena</i> , 2011 , 240, 779-794 | 3.3 | 32 | |
| Stopping Criteria for Rational Matrix Functions of Hermitian and Symmetric Matrices. <i>SIAM Journal of Scientific Computing</i> , 2008 , 30, 1387-1412 | 2.6 | 31 | |
| Linear Algebra Methods in a Mixed Approximation of Magnetostatic Problems. <i>SIAM Journal of Scientific Computing</i> , 1999 , 21, 1085-1101 | 2.6 | 26 | |
| Decay Bounds for Functions of Hermitian Matrices with Banded or Kronecker Structure. <i>SIAM Journal on Matrix Analysis and Applications</i> , 2015 , 36, 1263-1282 | 1.5 | 25 | |
| | of Computational and Applied Mathematics, 2002, 145, 49-70 Krylov Subspace Methods for Saddle Point Problems with Indefinite Preconditioning. SIAM Journal on Matrix Analysis and Applications, 2002, 24, 368-391 Analysis of the Rational Krylov Subspace and ADI Methods for Solving the Lyapunov Equation. SIAM Journal on Numerical Analysis, 2011, 49, 1875-1898 Analysis of Projection Methods for Rational Function Approximation to the Matrix Exponential. SIAM Journal on Numerical Analysis, 2006, 44, 613-635 Algebraic multigrid preconditioners for the bidomain reactionBilffusion system. Applied Numerical Mathematics, 2009, 59, 3033-3050 Acceleration Techniques for Approximating the Matrix Exponential Operator. SIAM Journal on Matrix Analysis and Applications, 2008, 30, 657-683 Restarted Full Orthogonalization Method for Shifted Linear Systems. 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IMA Journal of Numerical Analysis, 2014, 34, 904-920 Dynamics of actively regulated gene networks. Physica D: Nonlinear Phenomena, 2011, 240, 779-794 Stopping Criteria for Rational Matrix Functions of Hermitian and Symmetric Matrices. SIAM Journal of Scientific Computing, 2008 | Analysis of the Rational Krylov Subspace and Applications, 2002, 24, 368-391 Analysis of the Rational Krylov Subspace and ADI Methods for Solving the Lyapunov Equation. SIAM Journal on Numerical Analysis, 2011, 49, 1875-1898 Analysis of Projection Methods for Rational Function Approximation to the Matrix Exponential. SIAM Journal on Numerical Analysis, 2006, 44, 613-635 Algebraic multigrid preconditioners for the bidomain reactionBiffusion system. Applied Numerical Mathematics, 2009, 59, 3033-3050 Acceleration Techniques for Approximating the Matrix Exponential Operator. SIAM Journal on Matrix Analysis and Applications, 2008, 30, 657-683 Restarted Full Orthogonalization Method for Shifted Linear Systems. 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Physica D: Nonlinear Phenomena, 2011, 240, 779-794 Stopping Criteria for Rational Matrix Functions of Hermitian and Symmetric Matrices. SIAM Journal of Scientific Computing, 2008, 30, 1387-1412 Linear Algebra Methods in a Mixed Approximation of Magnetostatic Problems. SIAM Journal of Scientific Computing, 2008, 30, 1387-1412 Linear Algebra Methods in a Mixed Approximation of Magnetostatic Problems. SIAM Journal of Scientific Computing, 1999, | 6f Computational and Applied Mathematics, 2002, 145, 49-70 24 79 Krylov Subspace Methods for Saddle Point Problems with Indefinite Preconditioning. SIAM Journal on Matrix Analysis and Applications, 2002, 24, 368-391 1-5 70 Analysis of the Rational Krylov Subspace and ADI Methods for Solving the Lyapunov Equation. SIAM Journal on Numerical Analysis, 2011, 49, 1875-1898 24 66 Analysis of Projection Methods for Rational Function Approximation to the Matrix Exponential. SIAM Journal on Numerical Analysis, 2006, 44, 613-635 24 59 Algebraic multigrid preconditioners for the bidomain reactionfliffusion system. Applied Numerical Mathematics, 2009, 59, 3033-3050 2-5 50 Acceleration Techniques for Approximating the Matrix Exponential Operator. SIAM Journal on Matrix Analysis and Applications, 2008, 30, 657-683 1-5 50 Restarted Full Orthogonalization Method for Shifted Linear Systems. BIT Numerical Mathematics, 2003, 43, 459-466 1-7 48 On the Numerical Solution of S(lambda^2 A + lambda B+C), x = bS and Application to Structural Dynamics. SIAM Journal of Scientific Computing, 2002, 23, 1875-1897 2-6 45 On the numerical solution ofAX RB = C. BIT Numerical Mathematics, 1996, 36, 814-830 2-7 35 Stability estimates and structural spectral properties of saddle point problems. Numerische Mathematik, 2013, 124, 183-213 2-2 35 On the Occurrence of Superlinear Convergence of Exact and Inexact Krylov Subspace Methods. SIAM Review, 2005, 47, 247-272 2-4 34 |

| 67 | Krylov subspace methods for projected Lyapunov equations. <i>Applied Numerical Mathematics</i> , 2012 , 62, 35-50 | 2.5 | 25 |
|----|---|---------------|----|
| 66 | Efficient low-rank solution of generalized Lyapunov equations. <i>Numerische Mathematik</i> , 2016 , 134, 327 | '- <u>342</u> | 24 |
| 65 | A new subspace iteration method for the algebraic Riccati equation. <i>Numerical Linear Algebra With Applications</i> , 2015 , 22, 26-47 | 1.6 | 24 |
| 64 | Adaptive Tangential Interpolation in Rational Krylov Subspaces for MIMO Dynamical Systems. <i>SIAM Journal on Matrix Analysis and Applications</i> , 2014 , 35, 476-498 | 1.5 | 24 |
| 63 | Minimal residual methods for large scale Lyapunov equations. <i>Applied Numerical Mathematics</i> , 2013 , 72, 52-71 | 2.5 | 24 |
| 62 | Interpreting IDR as a PetrovCalerkin Method. SIAM Journal of Scientific Computing, 2010, 32, 1898-1912 | 2 2.6 | 24 |
| 61 | A Stabilized QMR Version of Block BiCG. SIAM Journal on Matrix Analysis and Applications, 1997, 18, 419 | 9-434 | 24 |
| 60 | Preserving geometric properties of the exponential matrix by block Krylov subspace methods. <i>BIT Numerical Mathematics</i> , 2006 , 46, 813-830 | 1.7 | 24 |
| 59 | Spectral Analysis of Saddle Point Matrices with Indefinite Leading Blocks. <i>SIAM Journal on Matrix Analysis and Applications</i> , 2010 , 31, 1152-1171 | 1.5 | 23 |
| 58 | Fast Structured AMG Preconditioning for the Bidomain Model in Electrocardiology. <i>SIAM Journal of Scientific Computing</i> , 2011 , 33, 721-745 | 2.6 | 23 |
| 57 | Convergence Analysis of Projection Methods for the Numerical Solution of Large Lyapunov Equations. <i>SIAM Journal on Numerical Analysis</i> , 2009 , 47, 828-843 | 2.4 | 23 |
| 56 | Variable Accuracy of Matrix-Vector Products in Projection Methods for Eigencomputation. <i>SIAM Journal on Numerical Analysis</i> , 2005 , 43, 1155-1174 | 2.4 | 23 |
| 55 | On the Convergence of Restarted Krylov Subspace Methods. <i>SIAM Journal on Matrix Analysis and Applications</i> , 2000 , 22, 430-452 | 1.5 | 23 |
| 54 | Matrix-equation-based strategies for convection diffusion equations. <i>BIT Numerical Mathematics</i> , 2016 , 56, 751-776 | 1.7 | 22 |
| 53 | An Efficient Reduced Basis Solver for Stochastic Galerkin Matrix Equations. <i>SIAM Journal of Scientific Computing</i> , 2017 , 39, A141-A163 | 2.6 | 22 |
| 52 | Analysis of the Rational Krylov Subspace Projection Method for Large-Scale Algebraic Riccati Equations. <i>SIAM Journal on Matrix Analysis and Applications</i> , 2016 , 37, 1655-1674 | 1.5 | 22 |
| 51 | Matrix Functions. <i>Mathematics in Industry</i> , 2008 , 275-303 | 0.2 | 22 |
| 50 | Approximation of functions of large matrices with Kronecker structure. <i>Numerische Mathematik</i> , 2017 , 135, 1-26 | 2.2 | 18 |

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| 49 | On the decay of the inverse of matrices that are sum of Kronecker products. <i>Linear Algebra and Its Applications</i> , 2014 , 452, 21-39 | 0.9 | 18 | |
|----|--|-----|----|--|
| 48 | An implicitly-restarted Krylov subspace method for real symmetric/skew-symmetric eigenproblems. <i>Linear Algebra and Its Applications</i> , 2012 , 436, 4070-4087 | 0.9 | 18 | |
| 47 | Extended Krylov subspace for parameter dependent systems. <i>Applied Numerical Mathematics</i> , 2010 , 60, 550-560 | 2.5 | 18 | |
| 46 | Preconditioning of Active-Set Newton Methods for PDE-constrained Optimal Control Problems. <i>SIAM Journal of Scientific Computing</i> , 2015 , 37, S472-S502 | 2.6 | 17 | |
| 45 | Solving Ill-Posed Linear Systems with GMRES and a Singular Preconditioner. <i>SIAM Journal on Matrix Analysis and Applications</i> , 2012 , 33, 1369-1394 | 1.5 | 16 | |
| 44 | Large-scale Gauss-Newton inversion of transient controlled-source electromagnetic measurement data using the model reduction framework. <i>Geophysics</i> , 2013 , 78, E161-E171 | 3.1 | 16 | |
| 43 | An Optimal Iterative Solver for Symmetric Indefinite Systems Stemming from Mixed Approximation. <i>ACM Transactions on Mathematical Software</i> , 2011 , 37, 1-22 | 2.3 | 16 | |
| 42 | Substructuring Preconditioners for Mortar Discretization of a Degenerate Evolution Problem. <i>Journal of Scientific Computing</i> , 2008 , 36, 391-419 | 2.3 | 15 | |
| 41 | Solution of the Time-Domain Inverse Resistivity Problem in the Model Reduction Framework Part I. One-Dimensional Problem with SISO Data. <i>SIAM Journal of Scientific Computing</i> , 2013 , 35, A1621-A1640 | 2.6 | 14 | |
| 40 | A comparison of reduced and unreduced KKT systems arising from interior point methods. <i>Computational Optimization and Applications</i> , 2017 , 68, 1-27 | 1.4 | 13 | |
| 39 | Reduced order solution of structured linear systems arising in certain PDE-constrained optimization problems. <i>Computational Optimization and Applications</i> , 2012 , 53, 591-617 | 1.4 | 13 | |
| 38 | Spectral analysis of inexact constraint preconditioning for symmetric saddle point matrices. <i>Linear Algebra and Its Applications</i> , 2013 , 438, 2683-2700 | 0.9 | 13 | |
| 37 | Spectral estimates for unreduced symmetric KKT systems arising from Interior Point methods. <i>Numerical Linear Algebra With Applications</i> , 2016 , 23, 776-800 | 1.6 | 13 | |
| 36 | Algebraic formulations for the solution of the nullspace-free eigenvalue problem using the inexact Shift-and-Invert Lanczos method. <i>Numerical Linear Algebra With Applications</i> , 2003 , 10, 357-375 | 1.6 | 11 | |
| 35 | Preconditioning PDE-constrained optimization with L1-sparsity and control constraints. <i>Computers and Mathematics With Applications</i> , 2017 , 74, 1059-1075 | 2.7 | 10 | |
| 34 | Block Krylov subspace methods for the computation of structural response to turbulent wind. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2011 , 200, 2067-2082 | 5.7 | 9 | |
| 33 | A new investigation of the extended Krylov subspace method for matrix function evaluations. <i>Numerical Linear Algebra With Applications</i> , 2009 , 17, n/a-n/a | 1.6 | 9 | |
| 32 | New conditions for non-stagnation of minimal residual methods. <i>Numerische Mathematik</i> , 2008 , 109, 477-487 | 2.2 | 9 | |

| 31 | Acquired Clustering Properties and Solution of Certain Saddle Point Systems. <i>SIAM Journal on Matrix Analysis and Applications</i> , 2010 , 31, 2754-2768 | 1.5 | 8 |
|----|---|-----------------|---|
| 30 | Analysis of a Minimum Perturbation Algorithm for Nonsymmetric Linear Systems. <i>SIAM Journal on Numerical Analysis</i> , 1997 , 34, 48-66 | 2.4 | 8 |
| 29 | Inexact Arnoldi residual estimates and decay properties for functions of non-Hermitian matrices. <i>BIT Numerical Mathematics</i> , 2019 , 59, 969-986 | 1.7 | 7 |
| 28 | Krylov Subspace Methods for Large-Scale Constrained Sylvester Equations. <i>SIAM Journal on Matrix Analysis and Applications</i> , 2013 , 34, 1448-1463 | 1.5 | 7 |
| 27 | Numerical solution of parameter-dependent linear systems. <i>Numerical Linear Algebra With Applications</i> , 2005 , 12, 923-940 | 1.6 | 7 |
| 26 | A new variant of restarted GMRES. Numerical Linear Algebra With Applications, 1999, 6, 61-77 | 1.6 | 7 |
| 25 | Computationally enhanced projection methods for symmetric Sylvester and Lyapunov matrix equations. <i>Journal of Computational and Applied Mathematics</i> , 2018 , 330, 648-659 | 2.4 | 6 |
| 24 | Contraction and Optimality Properties of an Adaptive Legendre Calerkin Method: The Multi-Dimensional Case. <i>Journal of Scientific Computing</i> , 2015 , 63, 769-798 | 2.3 | 6 |
| 23 | Numerical Methods for Large-Scale Lyapunov Equations with Symmetric Banded Data. <i>SIAM Journal of Scientific Computing</i> , 2018 , 40, A3581-A3608 | 2.6 | 6 |
| 22 | Approximating the leading singular triplets of a large matrix function. <i>Applied Numerical Mathematics</i> , 2017 , 113, 26-43 | 2.5 | 5 |
| 21 | Solution of linear systems from an optimal control problem arising in wind simulation. <i>Numerical Linear Algebra With Applications</i> , 2010 , 17, 895-915 | 1.6 | 5 |
| 20 | Remarks on Non-Linear Spectral Perturbation. <i>BIT Numerical Mathematics</i> , 1999 , 39, 350-365 | 1.7 | 5 |
| 19 | Matrix-oriented discretization methods for reaction diffusion PDEs: Comparisons and applications. <i>Computers and Mathematics With Applications</i> , 2020 , 79, 2067-2085 | 2.7 | 5 |
| 18 | Error estimates for iterative algorithms for minimizing regularized quadratic subproblems. <i>Optimization Methods and Software</i> , 2020 , 35, 304-328 | 1.3 | 5 |
| 17 | Optimality Properties of Galerkin and Petrov©alerkin Methods for Linear Matrix Equations. <i>Vietnam Journal of Mathematics</i> , 2020 , 48, 791-807 | 0.5 | 3 |
| 16 | Projection methods for large-scale T-Sylvester equations. <i>Mathematics of Computation</i> , 2016 , 85, 2427 | -2 4. 55 | 3 |
| 15 | Stability and Accuracy of Inexact Interior Point Methods for Convex Quadratic Programming. Journal of Optimization Theory and Applications, 2017 , 175, 450-477 | 1.6 | 3 |
| 14 | A Low-Rank Matrix Equation Method for Solving PDE-Constrained Optimization Problems. <i>SIAM Journal of Scientific Computing</i> ,S637-S654 | 2.6 | 3 |

LIST OF PUBLICATIONS

| 13 | Tensor-Train decomposition for image recognition. <i>Calcolo</i> , 2020 , 57, 1 | 1.5 | 2 | |
|----|---|-----|---|--|
| 12 | Order Reduction Methods for Solving Large-Scale Differential Matrix Riccati Equations. <i>SIAM Journal of Scientific Computing</i> , 2020 , 42, A2182-A2205 | 2.6 | 2 | |
| 11 | Numerical solution of a class of third order tensor linear equations. <i>Bolletino Dell Unione Matematica Italiana</i> , 2020 , 13, 429-439 | 0.6 | 2 | |
| 10 | The ShermanMorrisonWoodbury formula for generalized linear matrix equations and applications. <i>Numerical Linear Algebra With Applications</i> , 2021 , 28, e2384 | 1.6 | 2 | |
| 9 | A GMRES Convergence Analysis for Localized Invariant Subspace Ill-Conditioning. <i>SIAM Journal on Matrix Analysis and Applications</i> , 2019 , 40, 542-563 | 1.5 | 1 | |
| 8 | On the field of values of oblique projections. <i>Linear Algebra and Its Applications</i> , 2010 , 433, 810-818 | 0.9 | 1 | |
| 7 | The behavior of symmetric Krylov subspace methods for solving Mx=(M I)v. <i>Linear Algebra and Its Applications</i> , 2004 , 380, 53-71 | 0.9 | 1 | |
| 6 | Order Reduction Approaches for the Algebraic Riccati Equation and the LQR Problem. <i>Springer INdAM Series</i> , 2018 , 89-109 | 0.4 | 1 | |
| 5 | Efficient Preconditioning for an Optimal Control Problem with the Time-Periodic Stokes Equations. <i>Lecture Notes in Computational Science and Engineering</i> , 2015 , 479-487 | 0.3 | 1 | |
| 4 | Matrix equation solving of PDEs in polygonal domains using conformal mappings. <i>Journal of Numerical Mathematics</i> , 2021 , 29, 221-244 | 3.4 | 1 | |
| 3 | Functions of rational Krylov space matrices and their decay properties. <i>Numerische Mathematik</i> , 2021 , 148, 99-126 | 2.2 | 0 | |
| 2 | An algorithm for approximating the singular triplets of complex symmetric matrices. <i>Numerical Linear Algebra With Applications</i> , 1997 , 4, 469-489 | 1.6 | | |
| 1 | On the numerical solution of a class of systems of linear matrix equations. <i>IMA Journal of Numerical Analysis</i> , 2020 , 40, 207-225 | 1.8 | | |