

# Emran Tohidi

## List of Publications by Year in descending order

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61  
papers

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citations

430874

18  
h-index

477307

29  
g-index

61  
all docs

61  
docs citations

61  
times ranked

570  
citing authors

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 1  | A new high accurate approximate approach to solve optimal control problems of fractional order via efficient basis functions. AEJ - Alexandria Engineering Journal, 2022, 61, 5805-5818.   | 6.4 | 7         |
| 2  | A new local non-integer derivative and its application to optimal control problems. AIMS Mathematics, 2022, 7, 16692-16705.  | 1.6 | 2         |
| 3  | A new reproducing kernel-based collocation method with optimal convergence rate for some classes of BVPs. Applied Mathematics and Computation, 2022, 432, 127343.  | 2.2 | 6         |
| 4  | Space-time Chebyshev spectral collocation method for nonlinear time-fractional Burgers equations based on efficient basis functions. Mathematical Methods in the Applied Sciences, 2021, 44, 4117-4136.                                    | 2.3 | 13        |
| 5  | A fourth-order least-squares based reproducing kernel method for one-dimensional elliptic interface problems. Applied Numerical Mathematics, 2021, 162, 124-136.   | 2.1 | 31        |
| 6  | A Legendre reproducing kernel method with higher convergence order for a class of singular two-point boundary value problems. Journal of Applied Mathematics and Computing, 2021, 67, 405-421.   | 2.5 | 6         |
| 7  | RBF collocation approach to calculate numerically the solution of the nonlinear system of qFDEs. Journal of King Saud University - Science, 2021, 33, 101288.  | 3.5 | 5         |
| 8  | High accurate convergent spectral Galerkin methods for nonlinear weakly singular Volterra integro-differential equations. Computational and Applied Mathematics, 2021, 40, 1.  | 2.2 | 4         |
| 9  | A high accurate scheme for numerical simulation of two-dimensional mass transfer processes in food engineering. AEJ - Alexandria Engineering Journal, 2021, 60, 2629-2639.   | 6.4 | 13        |
| 10 | High accurate pseudo-spectral Galerkin scheme for pantograph type Volterra integro-differential equations with singular kernels. Applied Mathematics and Computation, 2021, 396, 125866.   | 2.2 | 11        |
| 11 | A new least-squares-based reproducing kernel method for solving regular and weakly singular Volterra-Fredholm integral equations with smooth and nonsmooth solutions. Mathematical Methods in the Applied Sciences, 2021, 44, 10772-10784. | 2.3 | 10        |
| 12 | A radial basis function Hermite finite difference approach to tackle cash-or-nothing and asset-or-nothing options. Journal of Computational and Applied Mathematics, 2020, 368, 112523.  | 2.0 | 8         |
| 13 | Rigorous convergence analysis of Jacobi spectral Galerkin methods for Volterra integral equations with noncompact kernels. Journal of Computational and Applied Mathematics, 2020, 366, 112403.  | 2.0 | 11        |
| 14 | Convergence analysis of space-time Jacobi spectral collocation method for solving time-fractional Schrödinger equations. Applied Mathematics and Computation, 2020, 387, 124489.   | 2.2 | 15        |
| 15 | A new WENO based Chebyshev Spectral Volume method for solving one- and two-dimensional conservation laws. Journal of Computational Physics, 2020, 403, 109055.   | 3.8 | 6         |
| 16 | An efficient matrix approach for two-dimensional diffusion and telegraph equations with Dirichlet boundary conditions. Physica A: Statistical Mechanics and Its Applications, 2020, 545, 123784.   | 2.6 | 10        |
| 17 | An extended block Golub-Kahan algorithm for large algebraic and differential matrix Riccati equations. Computers and Mathematics With Applications, 2020, 79, 2447-2457.   | 2.7 | 3         |
| 18 | Generalized mapped nodal Laguerre spectral collocation method for Volterra delay integro-differential equations with noncompact kernels. Computational and Applied Mathematics, 2020, 39, 1.   | 2.2 | 7         |

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|----|---|-----|-----------|
| 19 | Legendre spectral method for the fractional Bratu problem. <i>Mathematical Methods in the Applied Sciences</i> , 2020, 43, 5941-5952.   | 2.3 | 32        |
| 20 | A computational method to price with transaction costs under the nonlinear Black-Scholes model. <i>Chaos, Solitons and Fractals</i> , 2019, 127, 291-301.   | 5.1 | 12        |
| 21 | A fast and efficient numerical approach for solving advection-diffusion equations by using hybrid functions. <i>Computational and Applied Mathematics</i> , 2019, 38, 1.  | 2.2 | 1         |
| 22 | Numerical solution of multi-Pantograph delay boundary value problems via an efficient approach with the convergence analysis. <i>Computational and Applied Mathematics</i> , 2019, 38, 1.                                 | 2.2 | 16        |
| 23 | A new spectral integral equation method for solving two-dimensional unsteady advection-diffusion equations via Chebyshev polynomials. <i>Engineering Computations</i> , 2019, 36, 2327-2368.                              | 1.4 | 6         |
| 24 | Legendre spectral collocation method for solving delay fractional optimal control problems. <i>Journal of Computational and Applied Mathematics</i> , 2019, 351, 344-363.   | 2.0 | 50        |
| 25 | A fourth order product integration rule by using the generalized Euler-Maclaurin summation formula. <i>Journal of Computational and Applied Mathematics</i> , 2018, 335, 334-348.   | 2.0 | 5         |
| 26 | Application of Bernoulli matrix method for solving two-dimensional hyperbolic telegraph equations with Dirichlet boundary conditions. <i>Computers and Mathematics With Applications</i> , 2018, 75, 2280-2294.           | 2.7 | 23        |
| 27 | A New Approach for Solving a Class of Delay Fractional Partial Differential Equations. <i>Mediterranean Journal of Mathematics</i> , 2018, 15, 1.   | 0.8 | 17        |
| 28 | Two Dimensional Wavelets Collocation Scheme for Linear and Nonlinear Volterra Weakly Singular Partial Integro-Differential Equations. <i>International Journal of Applied and Computational Mathematics</i> , 2018, 4, 1. | 1.6 | 18        |
| 29 | Modal Hermite spectral collocation method for solving multi-dimensional hyperbolic telegraph equations. <i>Computers and Mathematics With Applications</i> , 2018, 75, 3571-3588.   | 2.7 | 10        |
| 30 | An Accurate Space-Time Pseudospectral Method for Solving Nonlinear Multi-Dimensional Heat Transfer Problems. <i>Mediterranean Journal of Mathematics</i> , 2017, 14, 1.   | 0.8 | 12        |
| 31 | Numerical solution of nonlinear weakly singular partial integro-differential equation via operational matrices. <i>Applied Mathematics and Computation</i> , 2017, 298, 310-321.  | 2.2 | 30        |
| 32 | Bernoulli Collocation Method for Solving Linear Multidimensional Diffusion and Wave Equations with Dirichlet Boundary Conditions. <i>Advances in Mathematical Physics</i> , 2017, 2017, 1-15.                             | 0.8 | 7         |
| 33 | Numerical solution of time-dependent diffusion equations with nonlocal boundary conditions via a fast matrix approach. <i>Journal of the Egyptian Mathematical Society</i> , 2016, 24, 86-91.                             | 1.2 | 8         |
| 34 | A new matrix method for solving two-dimensional time-dependent diffusion equations with Dirichlet boundary conditions. <i>Applied Mathematics and Computation</i> , 2016, 291, 1-13.                                      | 2.2 | 19        |
| 35 | A parameterized multi-step Newton method for solving systems of nonlinear equations. <i>Numerical Algorithms</i> , 2016, 71, 631-653.   | 1.9 | 27        |
| 36 | A New Matrix Approach For Solving Second-Order Linear Matrix Partial Differential Equations. <i>Mediterranean Journal of Mathematics</i> , 2016, 13, 1353-1376.   | 0.8 | 20        |

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 37 | Corrigendum to "Numerical Solution of Nonlinear Fractional Volterra Integro-Differential Equations via Bernoulli Polynomials" Abstract and Applied Analysis, 2015, 2015, 1-1.                            | 0.7 | 0         |
| 38 | Application of Chebyshev collocation method for solving two classes of non-classical parabolic PDEs. Ain Shams Engineering Journal, 2015, 6, 373-379.  | 6.1 | 22        |
| 39 | Legendre spectral collocation method for approximating the solution of shortest path problems. Systems Science and Control Engineering, 2015, 3, 62-68.  | 3.1 | 6         |
| 40 | Higher order multi-step Jarratt-like method for solving systems of nonlinear equations: Application to PDEs and ODEs. Computers and Mathematics With Applications, 2015, 70, 624-636.                    | 2.7 | 22        |
| 41 | Taylor matrix method for solving linear two-dimensional Fredholm integral equations with Piecewise Intervals. Computational and Applied Mathematics, 2015, 34, 1117-1130.                                | 1.3 | 13        |
| 42 | A Bessel collocation method for solving fractional optimal control problems. Applied Mathematical Modelling, 2015, 39, 455-465.  | 4.2 | 68        |
| 43 | Convergence Analysis of Legendre Pseudospectral Scheme for Solving Nonlinear Systems of Volterra Integral Equations. Advances in Mathematical Physics, 2014, 2014, 1-12.                                 | 0.8 | 5         |
| 44 | Numerical Solution of Nonlinear Fractional Volterra Integro-Differential Equations via Bernoulli Polynomials. Abstract and Applied Analysis, 2014, 2014, 1-7.  | 0.7 | 20        |
| 45 | Numerical solution of weakly singular Fredholm integral equations via generalization of the Euler-Maclaurin summation formula. Journal of Taibah University for Science, 2014, 8, 200-205.               | 2.5 | 4         |
| 46 | Convergence analysis of Bernoulli matrix approach for one-dimensional matrix hyperbolic equations of the first order. Computers and Mathematics With Applications, 2014, 68, 1-12.                       | 2.7 | 24        |
| 47 | A Legendre-Gauss collocation method for neutral functional-differential equations with proportional delays. Advances in Difference Equations, 2013, 2013, .  | 3.5 | 20        |
| 48 | A new Bernoulli matrix method for solving second order linear partial differential equations with the convergence analysis. Applied Mathematics and Computation, 2013, 223, 298-310.                     | 2.2 | 47        |
| 49 | A collocation method based on Bernoulli operational matrix for numerical solution of generalized pantograph equation. Applied Mathematical Modelling, 2013, 37, 4283-4294.                               | 4.2 | 159       |
| 50 | An Efficient Pseudospectral Method for Solving a Class of Nonlinear Optimal Control Problems. Abstract and Applied Analysis, 2013, 2013, 1-7.  | 0.7 | 5         |
| 51 | A Collocation Method Based on the Bernoulli Operational Matrix for Solving High-Order Linear Complex Differential Equations in a Rectangular Domain. Abstract and Applied Analysis, 2013, 2013, 1-12.    | 0.7 | 27        |
| 52 | A New Tau Method for Solving Nonlinear Lane-Emden Type Equations via Bernoulli Operational Matrix of Differentiation. Journal of Applied Mathematics, 2013, 2013, 1-9.                                   | 0.9 | 17        |
| 53 | Fourier Operational Matrices of Differentiation and Transmission: Introduction and Applications. Abstract and Applied Analysis, 2013, 2013, 1-11.  | 0.7 | 16        |
| 54 | A Collocation Method Based on the Bernoulli Operational Matrix for Solving Nonlinear BVPs Which Arise from the Problems in Calculus of Variation. Mathematical Problems in Engineering, 2013, 2013, 1-9. | 1.1 | 27        |

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|----|---|-----|-----------|
| 55 | Robustness of Operational Matrices of Differentiation for Solving State-Space Analysis and Optimal Control Problems. <i>Abstract and Applied Analysis</i> , 2013, 2013, 1-9.  | 0.7 | 15        |
| 56 | An Efficient Legendre Pseudospectral Method for Solving Nonlinear Quasi Bang-Bang Optimal Control Problems. <i>Journal of Applied Mathematics, Statistics and Informatics</i> , 2012, 8, 73-85.                         | 0.2 | 9         |
| 57 | The spectral method for solving systems of Volterra integral equations. <i>Journal of Applied Mathematics and Computing</i> , 2012, 40, 477-497.  | 2.5 | 34        |
| 58 | Legendre Approximation for Solving Linear HPDEs and Comparison with Taylor and Bernoulli Matrix Methods. <i>Applied Mathematics</i> , 2012, 03, 410-416.  | 0.4 | 18        |
| 59 | Bernoulli Matrix Approach for Solving Two Dimensional Linear Hyperbolic Partial Differential Equations with Constant Coefficients. <i>American Journal of Computational and Applied Mathematics</i> , 2012, 2, 136-139. | 0.4 | 5         |
| 60 | Numerical Solution of a Class of Nonlinear Optimal Control Problems Using Linearization and Discretization. <i>Applied Mathematics</i> , 2011, 02, 646-652.   | 0.4 | 8         |
| 61 | Legendre Approximation for Solving a Class of Nonlinear Optimal Control Problems. <i>Journal of Mathematical Finance</i> , 2011, 01, 8-13.  | 0.3 | 9         |