

# Mohammad Reza Eslahchi

## List of Publications by Year in descending order

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Version: 2024-02-01

41  
papers

616  
citations

759055

12  
h-index

610775

24  
g-index

41  
all docs

41  
docs citations

41  
times ranked

392  
citing authors

#	ARTICLE	IF	CITATIONS
1	A game-theoretic perspective to study a nonlinear stochastic parabolic model of population competition. <i>Optimization</i> , 2023, 72, 1777-1815.	1.0	0
2	Global convergence of a new sufficient descent spectral three-term conjugate gradient class for large-scale optimization. <i>Optimization Methods and Software</i> , 2022, 37, 830-843.	1.6	4
3	A new PDE learning model for image denoising. <i>Neural Computing and Applications</i> , 2022, 34, 8551-8574.	3.2	6
4	A Five-Parameter Class of Derivative-Free Spectral Conjugate Gradient Methods for Systems of Large-Scale Nonlinear Monotone Equations. <i>International Journal of Computational Methods</i> , 2022, 19, .	0.8	1
5	Image denoising by a novel variable-order total fractional variation model. <i>Mathematical Methods in the Applied Sciences</i> , 2021, 44, 7250-7261.	1.2	11
6	Müntz sturm-liouville problems: Theory and numerical experiments. <i>Fractional Calculus and Applied Analysis</i> , 2021, 24, 775-817.	1.2	2
7	A mixed finite element method for solving coupled wave equation of Kirchhoff type with nonlinear boundary damping and memory term. <i>Mathematical Methods in the Applied Sciences</i> , 2021, 44, 12500.	1.2	4
8	Error analysis of finite difference/collocation method for the nonlinear coupled parabolic free boundary problem modeling plaque growth in the artery. <i>Applied Mathematics and Computation</i> , 2021, 405, 126221.	1.4	1
9	Two families of scaled three-term conjugate gradient methods with sufficient descent property for nonconvex optimization. <i>Numerical Algorithms</i> , 2020, 83, 901-933.	1.1	15
10	Global convergence of a family of modified BFGS methods under a modified weak-Wolfe-Powell line search for nonconvex functions. <i>4or</i> , 2020, 18, 219-244.	1.0	9
11	Extension of Tikhonov regularization method using linear fractional programming. <i>Journal of Computational and Applied Mathematics</i> , 2020, 371, 112677.	1.1	6
12	Solving a fractional parabolic-hyperbolic free boundary problem which models the growth of tumor with drug application using finite difference-spectral method. <i>Chaos, Solitons and Fractals</i> , 2020, 132, 109538.	2.5	7
13	The convergence and stability analysis of a numerical method for solving a mathematical model of language competition. <i>Applied Numerical Mathematics</i> , 2020, 151, 119-140.	1.2	1
14	A Hybrid Image Denoising Method Based on Integer and Fractional-Order Total Variation. <i>Iranian Journal of Science and Technology, Transaction A: Science</i> , 2020, 44, 1803-1814.	0.7	17
15	Optimal control for a nonlinear stochastic parabolic model of population competition. <i>Optimization</i> , 2020, , 1-30.	1.0	2
16	Analysis of Ciarlet-Raviart mixed finite element methods for solving damped Boussinesq equation. <i>Journal of Computational and Applied Mathematics</i> , 2020, 379, 112818.	1.1	22
17	Numerical solution of optimal control problem for a model of tumour growth with drug application. <i>International Journal of Control</i> , 2019, 92, 2712-2736.	1.2	3
18	Application of fixed point-collocation method for solving an optimal control problem of a parabolic-hyperbolic free boundary problem modeling the growth of tumor with drug application. <i>Computers and Mathematics With Applications</i> , 2018, 75, 2193-2216.	1.4	7

#	ARTICLE	IF	CITATIONS
19	The use of Jacobi wavelets for constrained approximation of rational Bézier curves. Computational and Applied Mathematics, 2018, 37, 3951-3966.	1.3	4
20	A new approach to improve the order of approximation of the Bernstein operators: theory and applications. Numerical Algorithms, 2018, 77, 111-150.	1.1	26
21	A new method for detecting individual trees in aerial LiDAR point clouds using absolute height maxima. Environmental Monitoring and Assessment, 2018, 190, 708.	1.3	5
22	Fractional spectral and pseudo-spectral methods in unbounded domains: Theory and applications. Journal of Computational Physics, 2017, 338, 527-566.	1.9	33
23	Optimal Control for a Parabolic-Hyperbolic Free Boundary Problem Modeling the Growth of Tumor with Drug Application. Journal of Optimization Theory and Applications, 2017, 173, 1013-1041.	0.8	12
24	A numerical method based on extended Raviart-Thomas (ER-T) mixed finite element method for solving damped Boussinesq equation. Mathematical Methods in the Applied Sciences, 2017, 40, 5906-5924.	1.2	5
25	Generalized Bessel functions: Theory and their applications. Mathematical Methods in the Applied Sciences, 2017, 40, 6389-6410.	1.2	7
26	Application of collocation method for solving a parabolic-hyperbolic free boundary problem which models the growth of tumor with drug application. Mathematical Methods in the Applied Sciences, 2017, 40, 1711-1733.	1.2	9
27	The convergence and stability analysis of the Jacobi collocation method for solving nonlinear fractional differential equations with integral boundary conditions. Mathematical Methods in the Applied Sciences, 2016, 39, 2038-2056.	1.2	3
28	Some applications of a hypergeometric identity. Mathematical Sciences, 2015, 9, 215-223.	1.0	1
29	Fractional Sturm-Liouville boundary value problems in unbounded domains: Theory and applications. Journal of Computational Physics, 2015, 299, 526-560.	1.9	57
30	Numerical solution of fractional advection-diffusion equation with a nonlinear source term. Numerical Algorithms, 2015, 68, 601-629.	1.1	54
31	Application of the collocation method for solving nonlinear fractional integro-differential equations. Journal of Computational and Applied Mathematics, 2014, 257, 105-128.	1.1	109
32	A method for obtaining the operational matrix of fractional Jacobi functions and applications. JVC/Journal of Vibration and Control, 2014, 20, 736-748.	1.5	29
33	The weighted $(0,1, \alpha, m)$ -interpolation technique based on the roots of the classical orthogonal polynomials and application in deriving new quadrature rules. Acta Mathematica Hungarica, 2013, 140, 341-362.	0.3	0
34	A technique for the numerical solution of initial-value problems based on a class of Birkhoff-type interpolation method. Journal of Computational and Applied Mathematics, 2013, 244, 125-139.	1.1	29
35	The general Jacobi matrix method for solving some nonlinear ordinary differential equations. Applied Mathematical Modelling, 2012, 36, 3387-3398.	2.2	28
36	The third and fourth kinds of Chebyshev polynomials and best uniform approximation. Mathematical and Computer Modelling, 2012, 55, 1746-1762.	2.0	21

#	ARTICLE	IF	CITATIONS
37	Application of Taylor series in obtaining the orthogonal operational matrix. Computers and Mathematics With Applications, 2011, 61, 2596-2604.	1.4	42
38	Best uniform polynomial approximation of some rational functions. Computers and Mathematics With Applications, 2010, 59, 382-390.	1.4	13
39	The best uniform polynomial approximation to class of the form. Nonlinear Analysis: Theory, Methods & Applications, 2009, 71, 740-750.	0.6	4
40	Quadrature rules using an arbitrary fixed order of derivatives. Computers and Mathematics With Applications, 2009, 57, 1212-1225.	1.4	5
41	Application of finite difference method in solving a second- and fourth-order PDE blending denoising model. Mathematical Sciences, 0, , 1.	1.0	2