

# Mohamed A El-Gebeily And

## List of Publications by Year in descending order

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59  
papers

740  
citations

840776  
11  
h-index

552781  
26  
g-index

60  
all docs

60  
docs citations

60  
times ranked

372  
citing authors

#	ARTICLE	IF	CITATIONS
1	Generalized contractions in partially ordered metric spaces. <i>Applicable Analysis</i> , 2008, 87, 109-116.	1.3	347
2	Iterative coupling of BE and FE methods in elastostatics. <i>Engineering Analysis With Boundary Elements</i> , 2001, 25, 685-695.	3.7	56
3	On a finite difference method for singular two-point boundary value problems. <i>IMA Journal of Numerical Analysis</i> , 1998, 18, 179-190.	2.9	33
4	Asymptotic periodicity for some evolution equations in Banach spaces. <i>Nonlinear Analysis: Theory, Methods &amp; Applications</i> , 2011, 74, 1769-1798.	1.1	28
5	Convergence of the domain decomposition finite element–boundary element coupling methods. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2002, 191, 4851-4867.	6.6	26
6	A quasilinearization method for a class of second order singular nonlinear differential equations with nonlinear boundary conditions. <i>Nonlinear Analysis: Real World Applications</i> , 2007, 8, 174-186.	1.7	23
7	A New Method for Field-Balancing of High-Speed Flexible Rotors without Trial Weights. <i>International Journal of Rotating Machinery</i> , 2014, 2014, 1-11.	0.8	20
8	A generalized quasilinearization method for second-order nonlinear differential equations with nonlinear boundary conditions. <i>Journal of Computational and Applied Mathematics</i> , 2006, 192, 270-281.	2.0	19
9	The generalized eigenvalue problem for tridiagonal symmetric interval matrices. <i>International Journal of Control</i> , 1999, 72, 531-535.	1.9	16
10	Existence and uniqueness of solutions of a class of two-point singular nonlinear boundary value problems. <i>Journal of Computational and Applied Mathematics</i> , 1993, 46, 345-355.	2.0	13
11	Existence, upper and lower solutions and quasilinearization for singular differential equations. <i>IMA Journal of Applied Mathematics</i> , 2007, 73, 323-344.	1.6	13
12	Upper and lower solutions and quasilinearization for a class of second order singular nonlinear differential equations with nonlinear boundary conditions. <i>Nonlinear Analysis: Real World Applications</i> , 2007, 8, 636-645.	1.7	11
13	Characterization of self-adjoint ordinary differential operators. <i>Mathematical and Computer Modelling</i> , 2011, 54, 659-672.	2.0	11
14	Modal frequencies of fiber-reinforced polymer pipes with wall-thinning using a wavelet-based finite element model. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , 2015, 229, 2377-2386.	2.1	11
15	Real Self-Adjoint Sturm–Liouville Problems. <i>Applicable Analysis</i> , 2004, 83, 377-387.	1.3	10
16	A finite-difference method for the spectral approximation of a class of singular two-point boundary value problems. <i>IMA Journal of Numerical Analysis</i> , 1994, 14, 545-562.	2.9	9
17	Approximate solution of the Fokker-Planck-Kolmogorov equation by finite elements. <i>Communications in Numerical Methods in Engineering</i> , 1994, 10, 763-771.	1.3	9
18	Inviscid Flow Past Two Cylinders. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , 2009, 131, .	1.5	9

#	ARTICLE	IF	CITATIONS
19	An iterative shooting method for a certain class of singular two-point boundary value problems. Computers and Mathematics With Applications, 2003, 45, 69-76.	2.7	6
20	Regular approximation of singular self-adjoint differential operators. IMA Journal of Applied Mathematics, 2003, 68, 471-489.	1.6	5
21	Isometries of the Disc Algebra. Proceedings of the American Mathematical Society, 1985, 93, 697.	0.8	5
22	On certain properties of the regularn-simplex. International Journal of Mathematical Education in Science and Technology, 2004, 35, 617-629.	1.4	4
23	A study of Saudi climatic parameters using climatic predictability indices. Chaos, Solitons and Fractals, 2009, 41, 1055-1069.	5.1	4
24	The finite element-Galerkin method for singular self-adjoint differential equations. Journal of Computational and Applied Mathematics, 2009, 223, 735-752.	2.0	4
25	A monotone iterative technique for stationary and time dependent problems in Banach spaces. Journal of Computational and Applied Mathematics, 2010, 233, 2395-2404.	2.0	4
26	Tibial slope and patellar height changes following high tibial osteotomy (a comparative study). European Orthopaedics and Traumatology, 2015, 6, 247-254.	0.1	4
27	Necessary and sufficient conditions for the stability of linear parameter-dependent systems. International Journal of Systems Science, 2001, 32, 931-936.	5.5	3
28	Regular approximation of singular second-order differential expressions. Journal of Mathematical Analysis and Applications, 2003, 283, 100-113.	1.0	3
29	Classroom note: The inscribed sphere of ann-simplex. International Journal of Mathematical Education in Science and Technology, 2004, 35, 261-268.	1.4	3
30	Existence and quasilinearization methods in Hilbert spaces. Journal of Mathematical Analysis and Applications, 2006, 324, 344-357.	1.0	3
31	A CHARACTERIZATION OF SELF-ADJOINT OPERATORS DETERMINED BY THE WEAK FORMULATION OF SECOND-ORDER SINGULAR DIFFERENTIAL EXPRESSIONS. Glasgow Mathematical Journal, 2009, 51, 385-404.	0.3	3
32	The interval versions of the Kalman filter and the EM algorithm. Advances in Difference Equations, 2012, 2012, .	3.5	3
33	Weak formulation of singular differential expressions in spaces of functions with minimal derivatives. Abstract and Applied Analysis, 2005, 2005, 691-705.	0.7	2
34	Existence and quasilinearization in Hilbert spaces revisited. Applicable Analysis, 2007, 86, 411-419.	1.3	2
35	Variation of meteorological parameters over Saudi Arabia (1990â€2006). World Journal of Science Technology and Sustainable Development, 2010, 7, 191-216.	2.0	2
36	Continuous and discrete wavelet transforms based analysis of weather data of North Western Region of Saudi Arabia. World Journal of Science Technology and Sustainable Development, 2010, 7, 369-389.	2.0	2

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37	Filtering and identification of a state space model with linear and bilinear interactions between the states. <i>Advances in Difference Equations</i> , 2012, 2012, .	3.5	2
38	Output-Only Identification of System Parameters from Noisy Measurements by Multiwavelet Denoising. <i>Advances in Mechanical Engineering</i> , 2014, 6, 218328.	1.6	2
39	Necessary and sufficient conditions for the stability of linear parameter-dependent systems. <i>International Journal of Systems Science</i> , 2001, 32, 931-936.	5.5	2
40	New linearization technique for a class of non-linear systems. <i>International Journal of Control</i> , 1989, 49, 1569-1579.	1.9	1
41	Convergence and the optimal choice of the relaxation parameter for a class of iterative methods. <i>Applied Mathematics and Computation</i> , 2006, 174, 353-364.	2.2	1
42	Existence and boundary behavior for singular nonlinear differential equations with arbitrary boundary conditions. <i>Journal of Mathematical Analysis and Applications</i> , 2007, 334, 140-156.	1.0	1
43	Linear system of equations, matrix inversion, and linear programming using MS Excel. <i>International Journal of Mathematical Education in Science and Technology</i> , 2008, 39, 83-94.	1.4	1
44	Existence and quasilinearization in Banach spaces. <i>Journal of Mathematical Analysis and Applications</i> , 2009, 358, 345-354.	1.0	1
45	On the approximation of nonlinear singular self-adjoint second order boundary value problems. <i>Journal of Computational and Applied Mathematics</i> , 2009, 224, 360-372.	2.0	1
46	THE BOUNDARY CONDITIONS DESCRIPTION OF TYPE I DOMAINS. <i>Glasgow Mathematical Journal</i> , 2010, 52, 619-633.	0.3	1
47	Optimal control of self-adjoint nonlinear operator equations in Hilbert spaces. <i>Applicable Analysis</i> , 2014, 93, 210-222.	1.3	1
48	Asymptotic analysis of almost periodic weakly non-linear systems. <i>International Journal of Control</i> , 1991, 54, 561-575.	1.9	0
49	Free Vibration Characteristics of Structures With Nonlinear Underlying Soil. <i>Journal of Vibration and Acoustics, Transactions of the ASME</i> , 1991, 113, 95-99.	1.6	0
50	Improved Margin of Stability of Interval Matrices.. <i>JSME International Journal Series C-Mechanical Systems Machine Elements and Manufacturing</i> , 1998, 41, 90-93.	0.3	0
51	On the completeness of the set of eigenvectors of a certain class of self-adjoint finite difference operators. <i>IMA Journal of Applied Mathematics</i> , 2000, 65, 29-43.	1.6	0
52	Computation of the eigenelements of singular sturm-liouville problems. <i>International Journal of Computer Mathematics</i> , 2001, 78, 539-550.	1.8	0
53	A higher-order method for nonlinear singular two-point boundary value problems. <i>International Journal of Mathematics and Mathematical Sciences</i> , 2002, 30, 257-269.	0.7	0
54	A Galerkin method of $O(h^2)$ for singular boundary value problems. <i>International Journal of Mathematics and Mathematical Sciences</i> , 2002, 29, 361-369.	0.7	0

#	ARTICLE	IF	CITATIONS
55	H2 solutions for the stream function and vorticity formulation of the Navier–Stokes equations. Applied Mathematics and Computation, 2006, 177, 686-696.	2.2	0
56	Deblurring and denoising of images with minimization of variation and negative norms. ANZIAM Journal, 2007, 49, 171-185.	0.2	0
57	Type I operators and the approximation of singular two-point boundary value problems. Applied Mathematics and Computation, 2010, 216, 3433-3438.	2.2	0
58	Non-linear Modeling of Structures undergoing Free Vibrations. , 1989, , 219-224.		0
59	New linearization technique for a class of non-linear systems. International Journal of Control, 1989, 49, 1569-1579.	1.9	0