Mohamed A El-Gebeily And

List of Publications by Year
in descending order

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	Tibial slope and patellar height changes following high tibial osteotomy (a comparative study). European Orthopaedics and Traumatology, 2015, 6, 247-254.	0.1	4
2	Modal frequencies of fiber-reinforced polymer pipes with wall-thinning using a wavelet-based finite element model. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2015, 229, 2377-2386.	2.1	11
3	A New Method for Field-Balancing of High-Speed Flexible Rotors without Trial Weights. International Journal of Rotating Machinery, 2014, 2014, 1-11.	0.8	20
4	Optimal control of self-adjoint nonlinear operator equations in Hilbert spaces. Applicable Analysis, 2014, 93, 210-222.	1.3	1
5	Output-Only Identification of System Parameters from Noisy Measurements by Multiwavelet Denoising. Advances in Mechanical Engineering, 2014, 6, 218328.	1.6	2
6	Filtering and identification of a state space model with linear and bilinear interactions between the states. Advances in Difference Equations, 2012, 2012, .	3.5	2
7	The interval versions of the Kalman filter and the EM algorithm. Advances in Difference Equations, 2012, 2012, .	3.5	3
8	Characterization of self-adjoint ordinary differential operators. Mathematical and Computer Modelling, 2011, 54, 659-672.	2.0	11
9	Asymptotic periodicity for some evolution equations in Banach spaces. Nonlinear Analysis: Theory, Methods & Applications, 2011, 74, 1769-1798.	1.1	28
10	THE BOUNDARY CONDITIONS DESCRIPTION OF TYPE I DOMAINS. Glasgow Mathematical Journal, 2010, 52, 619-633.	0.3	1
11	Variation of meteorological parameters over Saudi Arabia (1990â€2006). World Journal of Science Technology and Sustainable Development, 2010, 7, 191-216.	2.0	2
12	Type I operators and the approximation of singular two-point boundary value problems. Applied Mathematics and Computation, 2010, 216, 3433-3438.	2.2	0
13	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
14	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
15	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
16	Existence and quasilinearization in Banach spaces. Journal of Mathematical Analysis and Applications, 2009, 358, 345-354.	1.0	1
17	A study of Saudi climatic parameters using climatic predictability indices. Chaos, Solitons and Fractals, 2009, 41, 1055-1069.	5.1	4
18	The finite element-Galerkin method for singular self-adjoint differential equations. Journal of Computational and Applied Mathematics, 2009, 223, 735-752.	2.0	4

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19	On the approximation of nonlinear singular self-adjoint second order boundary value problems. Journal of Computational and Applied Mathematics, 2009, 224, 360-372.	2.0	1
20	Inviscid Flow Past Two Cylinders. Journal of Fluids Engineering, Transactions of the ASME, 2009, 131, .	1.5	9
21	Generalized contractions in partially ordered metric spaces. Applicable Analysis, 2008, 87, 109-116.	1.3	347
22	Linear system of equations, matrix inversion, and linear programming using MS Excel. International Journal of Mathematical Education in Science and Technology, 2008, 39, 83-94.	1.4	1
23	Existence, upper and lower solutions and quasilinearization for singular differential equations. IMA Journal of Applied Mathematics, 2007, 73, 323-344.	1.6	13
24	Deblurring and denoising of images with minimization of variation and negative norms. ANZIAM Journal, 2007, 49, 171-185.	0.2	0
25	Existence and quasilinearization in Hilbert spaces revisited. Applicable Analysis, 2007, 86, 411-419.	1.3	2
26	Upper and lower solutions and quasilinearization for a class of second order singular nonlinear differential equations with nonlinear boundary conditions. Nonlinear Analysis: Real World Applications, 2007, 8, 636-645.	1.7	11
27	Existence and boundary behavior for singular nonlinear differential equations with arbitrary boundary conditions. Journal of Mathematical Analysis and Applications, 2007, 334, 140-156.	1.0	1
28	A quasilinearization method for a class of second order singular nonlinear differential equations with nonlinear boundary conditions. Nonlinear Analysis: Real World Applications, 2007, 8, 174-186.	1.7	23
29	A generalized quasilinearization method for second-order nonlinear differential equations with nonlinear boundary conditions. Journal of Computational and Applied Mathematics, 2006, 192, 270-281.	2.0	19
30	Convergence and the optimal choice of the relaxation parameter for a class of iterative methods. Applied Mathematics and Computation, 2006, 174, 353-364.	2.2	1
31	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
32	Existence and quasilinearization methods in Hilbert spaces. Journal of Mathematical Analysis and Applications, 2006, 324, 344-357.	1.0	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	Classroom note: The inscribed sphere of ann-simplex. International Journal of Mathematical Education in Science and Technology, 2004, 35, 261-268.	1.4	3
35	Real Self-Adjoint Sturm–Liouville Problems. Applicable Analysis, 2004, 83, 377-387.	1.3	10
36	On certain properties of the regularn-simplex. International Journal of Mathematical Education in Science and Technology, 2004, 35, 617-629.	1.4	4

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37	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
38	Regular approximation of singular second-order differential expressions. Journal of Mathematical Analysis and Applications, 2003, 283, 100-113.	1.0	3
39	Regular approximation of singular self-adjoint differential operators. IMA Journal of Applied Mathematics, 2003, 68, 471-489.	1.6	5
40	A higher-order method for nonlinear singular two-point boundary value problems. International Journal of Mathematics and Mathematical Sciences, 2002, 30, 257-269.	0.7	0
41	A Galerkin method of$O(h2)$for singular boundary value problems. International Journal of Mathematics and Mathematical Sciences, 2002, 29, 361-369.	0.7	0
42	Convergence of the domain decomposition finite element–boundary element coupling methods. Computer Methods in Applied Mechanics and Engineering, 2002, 191, 4851-4867.	6.6	26
43	Necessary and sufficient conditions for the stability of linear parameter-dependent systems. International Journal of Systems Science, 2001, 32, 931-936.	5.5	3
44	Iterative coupling of BE and FE methods in elastostatics. Engineering Analysis With Boundary Elements, 2001, 25, 685-695.	3.7	56
45	Computation of the eigenelements of singular sturm-liouville problems. International Journal of Computer Mathematics, 2001, 78, 539-550.	1.8	0
46	Necessary and sufficient conditions for the stability of linear parameter-dependent systems. International Journal of Systems Science, 2001, 32, 931-936.	5.5	2
47	On the completeness of the set of eigenvectors of a certain class of self-adjoint finite difference operators. IMA Journal of Applied Mathematics, 2000, 65, 29-43.	1.6	0
48	The generalized eigenvalue problem for tridiagonal symmetric interval matrices. International Journal of Control, 1999, 72, 531-535.	1.9	16
49	On a finite difference method for singular two-point boundary value problems. IMA Journal of Numerical Analysis, 1998, 18, 179-190.	2.9	33
50	Improved Margin of Stability of Interval Matrices.. JSME International Journal Series C-Mechanical Systems Machine Elements and Manufacturing, 1998, 41, 90-93.	0.3	0
51	A finite-difference method for the spectral approximation of a class of singular two-point boundary value problems. IMA Journal of Numerical Analysis, 1994, 14, 545-562.	2.9	9
52	Approximate solution of the Fokker-Planck-Kolmogorov equation by finite elements. Communications in Numerical Methods in Engineering, 1994, 10, 763-771.	1.3	9
53	Existence and uniqueness of solutions of a class of two-point singular nonlinear boundary value problems. Journal of Computational and Applied Mathematics, 1993, 46, 345-355.	2.0	13
54	Asymptotic analysis of almost periodic weakly non-linear systems. International Journal of Control, 1991, 54, 561-575.	1.9	0

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55	Free Vibration Characteristics of Structures With Nonlinear Underlying Soil. Journal of Vibration and Acoustics, Transactions of the ASME, 1991, 113, 95-99.	1.6	0
56	New linearization technique for a class of non-linear systems. International Journal of Control, 1989, 49, 1569-1579.	1.9	1
57	Non-linear Modeling of Structures undergoing Free Vibrations. , 1989, , 219-224.		0
58	New linearization technique for a class of non-linear systems. International Journal of Control, 1989, 49, 1569-1579.	1.9	0
59	Isometries of the Disc Algebra. Proceedings of the American Mathematical Society, 1985, 93, 697.	0.8	5