Mehdi Dehghan

List of Publications by Citations

667 papers	21,908 citations	73 h-index	108 g-index
688 ext. papers	24,190 ext. citations	2.8 avg, IF	8.03 L-index

#	Paper	IF	Citations
667	A new operational matrix for solving fractional-order differential equations. *Computers and Mathematics With Applications*, **2010**, 59, 1326-1336	2.7	494
666	Solving nonlinear fractional partial differential equations using the homotopy analysis method. *Numerical Methods for Partial Differential Equations*, **2010**, 26, 448-479	2.5	433
665	Finite difference procedures for solving a problem arising in modeling and design of certain optoelectronic devices. *Mathematics and Computers in Simulation*, **2006**, 71, 16-30	3.3	346
664	A numerical method for solution of the two-dimensional sine-Gordon equation using the radial basis functions. *Mathematics and Computers in Simulation*, **2008**, 79, 700-715	3.3	292
663	Numerical solution of the nonlinear Klein–Gordon equation using radial basis functions. *Journal of Computational and Applied Mathematics*, **2009**, 230, 400-410	2.4	217
662	Solution of delay differential equations via a homotopy perturbation method. *Mathematical and Computer Modelling*, **2008**, 48, 486-498		199
661	On the convergence of He's variational iteration method. *Journal of Computational and Applied Mathematics*, **2007**, 207, 121-128	2.4	187
660	On the solution of an initial-boundary value problem that combines Neumann and integral condition for the wave equation. *Numerical Methods for Partial Differential Equations*, **2005**, 21, 24-40	2.5	164
659	SOLUTION OF AN INTEGRO-DIFFERENTIAL EQUATION ARISING IN OSCILLATING MAGNETIC FIELDS USING HE'S HOMOTOPY PERTURBATION METHOD. *Progress in Electromagnetics Research*, **2008**, 78, 361-376	3.8	158
658	Approximate solution of a differential equation arising in astrophysics using the variational iteration method. *New Astronomy*, **2008**, 13, 53-59	1.8	156
657	An approximation algorithm for the solution of the nonlinear Lane–Emden type equations arising in astrophysics using Hermite functions collocation method. *Computer Physics Communications*, **2010**, 181, 1096-1108	4.2	151
656	Numerical simulation of two-dimensional sine-Gordon solitons via a local weak meshless technique based on the radial point interpolation method (RPIM). *Computer Physics Communications*, **2010**, 181, 772-786	4.2	150
655	The Sinc–Legendre collocation method for a class of fractional convection–diffusion equations with variable coefficients. *Communications in Nonlinear Science and Numerical Simulation*, **2012**, 17, 4125-4136	3.7	147
654	A tau approach for solution of the space fractional diffusion equation. *Computers and Mathematics With Applications*, **2011**, 62, 1135-1142	2.7	143
653	The general coupled matrix equations over generalized bisymmetric matrices. *Linear Algebra and Its Applications*, **2010**, 432, 1531-1552	0.9	139
652	A numerical method for solving the hyperbolic telegraph equation. *Numerical Methods for Partial Differential Equations*, **2008**, 24, 1080-1093	2.5	139
651	A computational study of the one-dimensional parabolic equation subject to nonclassical boundary specifications. *Numerical Methods for Partial Differential Equations*, **2006**, 22, 220-257	2.5	135

650	A compact split-step finite difference method for solving the nonlinear Schr□inger equations with constant and variable coefficients. *Computer Physics Communications*, **2010**, 181, 43-51	4.2	131
649	The one-dimensional heat equation subject to a boundary integral specification. *Chaos, Solitons and Fractals*, **2007**, 32, 661-675	9.3	131
648	A numerical method for two-dimensional Schr□inger equation using collocation and radial basis functions. *Computers and Mathematics With Applications*, **2007**, 54, 136-146	2.7	129
647	On generalized moving least squares and diffuse derivatives. *IMA Journal of Numerical Analysis*, **2012**, 32, 983-1000	1.8	128
646	Parameter determination in a partial differential equation from the overspecified data. *Mathematical and Computer Modelling*, **2005**, 41, 196-213		125
645	The solution of coupled Burgers□equations using Adomian□Pade technique. *Applied Mathematics and Computation*, **2007**, 189, 1034-1047	2.7	124
644	A numerical technique for solving fractional optimal control problems. *Computers and Mathematics With Applications*, **2011**, 62, 1055-1067	2.7	121
643	An iterative method for solving the generalized coupled Sylvester matrix equations over generalized bisymmetric matrices. *Applied Mathematical Modelling*, **2010**, 34, 639-654	4.5	120
642	An iterative algorithm for the reflexive solutions of the generalized coupled Sylvester matrix equations and its optimal approximation. *Applied Mathematics and Computation*, **2008**, 202, 571-588	2.7	117
641	Computational methods for solving fully fuzzy linear systems. *Applied Mathematics and Computation*, **2006**, 179, 328-343	2.7	117
640	The use of a meshless technique based on collocation and radial basis functions for solving the time fractional nonlinear Schr□inger equation arising in quantum mechanics. *Engineering Analysis With Boundary Elements*, **2013**, 37, 475-485	2.6	114
639	Rational Legendre pseudospectral approach for solving nonlinear differential equations of Lane□mden type. *Journal of Computational Physics*, **2009**, 228, 8830-8840	4.1	114
638	Numerical solution of hyperbolic telegraph equation using the Chebyshev tau method. *Numerical Methods for Partial Differential Equations*, **2010**, 26, 239-252	2.5	114
637	Inverse problem of diffusion equation by He's homotopy perturbation method. *Physica Scripta*, **2007**, 75, 551-556	2.6	114
636	Meshless Local Petrov□alerkin (MLPG) method for the unsteady magnetohydrodynamic (MHD) flow through pipe with arbitrary wall conductivity. *Applied Numerical Mathematics*, **2009**, 59, 1043-1058	2.5	113
635	Efficient techniques for the second-order parabolic equation subject to nonlocal specifications. *Applied Numerical Mathematics*, **2005**, 52, 39-62	2.5	112
634	A meshless based method for solution of integral equations. *Applied Numerical Mathematics*, **2010**, 60, 245-262	2.5	110
633	Weighted finite difference techniques for the one-dimensional advection□iffusion equation. *Applied Mathematics and Computation*, **2004**, 147, 307-319	2.7	109

632	Numerical solution of the delay differential equations of pantograph type via Chebyshev polynomials. *Communications in Nonlinear Science and Numerical Simulation*, **2012**, 17, 4815-4830	3.7	108
631	The construction of operational matrix of fractional derivatives using B-spline functions. *Communications in Nonlinear Science and Numerical Simulation*, **2012**, 17, 1149-1162	3.7	108
630	The Solution of the Variable Coefficients Fourth-Order Parabolic Partial Differential Equations by the Homotopy Perturbation Method. *Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences*, **2009**, 64, 420-430	1.4	107
629	Analysis of an iterative algorithm to solve the generalized coupled Sylvester matrix equations. *Applied Mathematical Modelling*, **2011**, 35, 3285-3300	4.5	106
628	Solution of the second-order one-dimensional hyperbolic telegraph equation by using the dual reciprocity boundary integral equation (DRBIE) method. *Engineering Analysis With Boundary Elements*, **2010**, 34, 51-59	2.6	106
627	The numerical solution of nonlinear high dimensional generalized Benjamin–Bona–Mahony–Burgers equation via the meshless method of radial basis functions. *Computers and Mathematics With Applications*, **2014**, 68, 212-237	2.7	105
626	High-order compact solution of the one-dimensional heat and advection–diffusion equations. *Applied Mathematical Modelling*, **2010**, 34, 3071-3084	4.5	104
625	Combination of meshless local weak and strong (MLWS) forms to solve the two dimensional hyperbolic telegraph equation. *Engineering Analysis With Boundary Elements*, **2010**, 34, 324-336	2.6	101
624	The use of the decomposition procedure of Adomian for solving a delay differential equation arising in electrodynamics. *Physica Scripta*, **2008**, 78, 065004	2.6	99
623	Two high-order numerical algorithms for solving the multi-term time fractional diffusion-wave equations. *Journal of Computational and Applied Mathematics*, **2015**, 290, 174-195	2.4	96
622	Solution of a partial differential equation subject to temperature overspecification by He's homotopy perturbation method. *Physica Scripta*, **2007**, 75, 778-787	2.6	96
621	An implicit RBF meshless approach for solving the time fractional nonlinear sine-Gordon and Klein–Gordon equations. *Engineering Analysis With Boundary Elements*, **2015**, 50, 412-434	2.6	95
620	Use of He's Homotopy Perturbation Method for Solving a Partial Differential Equation Arising in Modeling of Flow in Porous Media. *Journal of Porous Media*, **2008**, 11, 765-778	2.9	95
619	Application of He's homotopy perturbation method for non-linear system of second-order boundary value problems. *Nonlinear Analysis: Real World Applications*, **2009**, 10, 1912-1922	2.1	93
618	Numerical solution of the system of second-order boundary value problems using the local radial basis functions based differential quadrature collocation method. *Applied Mathematical Modelling*, **2013**, 37, 8578-8599	4.5	90
617	The meshless local Petrov–Galerkin (MLPG) method for the generalized two-dimensional non-linear Schrödinger equation. *Engineering Analysis With Boundary Elements*, **2008**, 32, 747-756	2.6	90
616	A high-order and unconditionally stable scheme for the modified anomalous fractional sub-diffusion equation with a nonlinear source term. *Journal of Computational Physics*, **2013**, 240, 36-48	4.1	89
615	Numerical solution of the three-dimensional advection–diffusion equation. *Applied Mathematics and Computation*, **2004**, 150, 5-19	2.7	89

614	Numerical solution of the Klein–Gordon equation via He's variational iteration method. *Nonlinear Dynamics*, **2007**, 51, 89-97	5	88
613	Application of the collocation method for solving nonlinear fractional integro-differential equations. *Journal of Computational and Applied Mathematics*, **2014**, 257, 105-128	2.4	87
612	On the solution of the non-local parabolic partial differential equations via radial basis functions. *Applied Mathematical Modelling*, **2009**, 33, 1729-1738	4.5	87
611	An inverse problem of finding a source parameter in a semilinear parabolic equation. *Applied Mathematical Modelling*, **2001**, 25, 743-754	4.5	87
610	The numerical solution of the non-linear integro-differential equations based on the meshless method. *Journal of Computational and Applied Mathematics*, **2012**, 236, 2367-2377	2.4	85
609	The use of He's variational iteration method for solving the telegraph and fractional telegraph equations. *International Journal for Numerical Methods in Biomedical Engineering*, **2011**, 27, 219-231	2.6	81
608	Application of the Exp-function method for solving a partial differential equation arising in biology and population genetics. *International Journal of Numerical Methods for Heat and Fluid Flow*, **2011**, 21, 736-753	4.5	81
607	Identification of a time-dependent coefficient in a partial differential equation subject to an extra measurement. *Numerical Methods for Partial Differential Equations*, **2005**, 21, 611-622	2.5	81
606	Numerical solution of a class of fractional optimal control problems via the Legendre orthonormal basis combined with the operational matrix and the Gauss quadrature rule. *Journal of Computational and Applied Mathematics*, **2013**, 250, 143-160	2.4	80
605	Variational iteration method for solving a generalized pantograph equation. *Computers and Mathematics With Applications*, **2009**, 58, 2190-2196	2.7	79
604	Iterative solution of fuzzy linear systems. *Applied Mathematics and Computation*, **2006**, 175, 645-674	2.7	79
603	A Not-a-Knot meshless method using radial basis functions and predictor–corrector scheme to the numerical solution of improved Boussinesq equation. *Computer Physics Communications*, **2010**, 181, 1990-2000	4.2	78
602	Solution of a partial integro-differential equation arising from viscoelasticity. *International Journal of Computer Mathematics*, **2006**, 83, 123-129	1.2	78
601	Determination of a control parameter in a one-dimensional parabolic equation using the method of radial basis functions. *Mathematical and Computer Modelling*, **2006**, 44, 1160-1168		78
600	A Legendre collocation method for fractional integro-differential equations. *JVC/Journal of Vibration and Control*, **2011**, 17, 2050-2058	2	77
599	A numerical method for KdV equation using collocation and radial basis functions. *Nonlinear Dynamics*, **2007**, 50, 111-120	5	77
598	A moving least square reproducing polynomial meshless method. *Applied Numerical Mathematics*, **2013**, 69, 34-58	2.5	76
597	Solution of a nonlinear time-delay model in biology via semi-analytical approaches. *Computer Physics Communications*, **2010**, 181, 1255-1265	4.2	76

596	A method for solving partial differential equations via radial basis functions: Application to the heat equation. *Engineering Analysis With Boundary Elements*, **2010**, 34, 206-212	2.6	76
595	Proper orthogonal decomposition variational multiscale element free Galerkin (POD-VMEFG) meshless method for solving incompressible Navier-Stokes equation. *Computer Methods in Applied Mechanics and Engineering*, **2016**, 311, 856-888	5.7	75
594	High order implicit collocation method for the solution of two-dimensional linear hyperbolic equation. *Numerical Methods for Partial Differential Equations*, **2009**, 25, 232-243	2.5	73
593	The solution of linear and nonlinear systems of Volterra functional equations using Adomian-Pade technique. *Chaos, Solitons and Fractals*, **2009**, 39, 2509-2521	9.3	72
592	Solution of the fully fuzzy linear systems using iterative techniques. *Chaos, Solitons and Fractals*, **2007**, 34, 316-336	9.3	72
591	Application of the Adomian decomposition method for the Fokker-Planck equation. *Mathematical and Computer Modelling*, **2007**, 45, 639-650		72
590	Error estimate for the numerical solution of fractional reaction-subdiffusion process based on a meshless method. *Journal of Computational and Applied Mathematics*, **2015**, 280, 14-36	2.4	71
589	Meshless local Petrov-Galerkin (MLPG) approximation to the two dimensional sine-Gordon equation. *Journal of Computational and Applied Mathematics*, **2010**, 233, 2737-2754	2.4	71
588	The use of a Legendre multiwavelet collocation method for solving the fractional optimal control problems. *JVC/Journal of Vibration and Control*, **2011**, 17, 2059-2065	2	70
587	An iterative algorithm for solving a pair of matrix equations . *Computers and Mathematics With Applications*, **2008**, 56, 3246-3260	2.7	70
586	A meshless local Petrov-Galerkin method for the time-dependent Maxwell equations. *Journal of Computational and Applied Mathematics*, **2014**, 268, 93-110	2.4	69
585	A meshless based numerical technique for traveling solitary wave solution of Boussinesq equation. *Applied Mathematical Modelling*, **2012**, 36, 1939-1956	4.5	69
584	Key words: Nonlinear Differential-Difference Equations; Exp-Function Method; N-Soliton Solutions. *Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences*, **2010**, 65, 935-949	1.4	69
583	Fourth-order compact solution of the nonlinear Klein-Gordon equation. *Numerical Algorithms*, **2009**, 52, 523-540	2.1	69
582	The use of interpolating element-free Galerkin technique for solving 2D generalized Benjamin-Bona-Mahony-Burgers and regularized long-wave equations on non-rectangular domains with error estimate. *Journal of Computational and Applied Mathematics*, **2015**, 286, 211-231	2.4	68
581	High-order solution of one-dimensional sine-Gordon equation using compact finite difference and DIRKN methods. *Mathematical and Computer Modelling*, **2010**, 51, 537-549		68
580	Numerical solution to the unsteady two-dimensional Schrödinger equation using meshless local boundary integral equation method. *International Journal for Numerical Methods in Engineering*, **2008**, 76, 501-520	2.4	68
579	High order compact solution of the one-space-dimensional linear hyperbolic equation. *Numerical Methods for Partial Differential Equations*, **2008**, 24, 1222-1235	2.5	68

578	The dual reciprocity boundary element method (DRBEM) for two-dimensional sine-Gordon equation. *Computer Methods in Applied Mechanics and Engineering*, **2008**, 197, 476-486	5.7	68
577	Finite iterative algorithms for the reflexive and anti-reflexive solutions of the matrix equation . *Mathematical and Computer Modelling*, **2009**, 49, 1937-1959		67
576	Meshless local boundary integral equation (LBIE) method for the unsteady magnetohydrodynamic (MHD) flow in rectangular and circular pipes. *Computer Physics Communications*, **2009**, 180, 1458-1466	4.2	67
575	Application of He's variational iteration method for solving the Cauchy reaction–diffusion problem. *Journal of Computational and Applied Mathematics*, **2008**, 214, 435-446	2.4	67
574	The boundary elements method for magneto-hydrodynamic (MHD) channel flows at high Hartmann numbers. *Applied Mathematical Modelling*, **2013**, 37, 2337-2351	4.5	65
573	Direct meshless local Petrov–Galerkin method for elliptic interface problems with applications in electrostatic and elastostatic. *Computer Methods in Applied Mechanics and Engineering*, **2014**, 278, 479-498	5.7	64
572	An improved meshless method for solving two-dimensional distributed order time-fractional diffusion-wave equation with error estimate. *Numerical Algorithms*, **2017**, 75, 173-211	2.1	64
571	A numerical method for one-dimensional nonlinear Sine-Gordon equation using collocation and radial basis functions. *Numerical Methods for Partial Differential Equations*, **2008**, 24, 687-698	2.5	64
570	A finite volume spectral element method for solving magnetohydrodynamic (MHD) equations. *Applied Numerical Mathematics*, **2011**, 61, 1-23	2.5	63
569	A meshless method for numerical solution of a linear hyperbolic equation with variable coefficients in two space dimensions. *Numerical Methods for Partial Differential Equations*, **2009**, 25, 494-506	2.5	63
568	The numerical solution of the second Painlevé equation. *Numerical Methods for Partial Differential Equations*, **2009**, 25, 1238-1259	2.5	63
567	The use of compact boundary value method for the solution of two-dimensional Schrödinger equation. *Journal of Computational and Applied Mathematics*, **2009**, 225, 124-134	2.4	63
566	Collocation and finite difference-collocation methods for the solution of nonlinear Klein–Gordon equation. *Computer Physics Communications*, **2010**, 181, 1392-1401	4.2	63
565	Application of the dual reciprocity boundary integral equation technique to solve the nonlinear Klein–Gordon equation. *Computer Physics Communications*, **2010**, 181, 1410-1418	4.2	63
564	A finite element method for the numerical solution of Rayleigh–Stokes problem for a heated generalized second grade fluid with fractional derivatives. *Engineering With Computers*, **2017**, 33, 587-605	4.5	62
563	A meshless method for solving nonlinear two-dimensional integral equations of the second kind on non-rectangular domains using radial basis functions with error analysis. *Journal of Computational and Applied Mathematics*, **2013**, 239, 72-92	2.4	62
562	Analysis of a meshless method for the time fractional diffusion-wave equation. *Numerical Algorithms*, **2016**, 73, 445-476	2.1	61
561	Numerical solution of a biological population model using He's variational iteration method. *Computers and Mathematics With Applications*, **2007**, 54, 1197-1209	2.7	61

560	A method based on meshless approach for the numerical solution of the two-space dimensional hyperbolic telegraph equation. *Mathematical Methods in the Applied Sciences*, **2012**, 35, 1220-1233	2.3	60
559	The solitary wave solution of coupled Klein–Gordon–Zakharov equations via two different numerical methods. *Computer Physics Communications*, **2013**, 184, 2145-2158	4.2	60
558	Inverse problem of time-dependent heat sources numerical reconstruction. *Mathematics and Computers in Simulation*, **2011**, 81, 1656-1672	3.3	60
557	Identifying an unknown function in a parabolic equation with overspecified data via He's variational iteration method. *Chaos, Solitons and Fractals*, **2008**, 36, 157-166	9.3	60
556	Legendre spectral element method for solving time fractional modified anomalous sub-diffusion equation. *Applied Mathematical Modelling*, **2016**, 40, 3635-3654	4.5	59
555	The solitary wave solution of the two-dimensional regularized long-wave equation in fluids and plasmas. *Computer Physics Communications*, **2011**, 182, 2540-2549	4.2	59
554	Numerical solutions of the generalized Kuramoto–Sivashinsky equation using B-spline functions. *Applied Mathematical Modelling*, **2012**, 36, 605-617	4.5	58
553	The use of Chebyshev cardinal functions for solution of the second-order one-dimensional telegraph equation. *Numerical Methods for Partial Differential Equations*, **2009**, 25, 931-938	2.5	58
552	Numerical solution of the higher-order linear Fredholm integro-differential-difference equation with variable coefficients. *Computers and Mathematics With Applications*, **2010**, 59, 2996-3004	2.7	58
551	Solution of a model describing biological species living together using the variational iteration method. *Mathematical and Computer Modelling*, **2008**, 48, 685-699		58
550	He's variational iteration method for computing a control parameter in a semi-linear inverse parabolic equation. *Chaos, Solitons and Fractals*, **2007**, 33, 671-677	9.3	57
549	The use of the Adomian decomposition method for solving multipoint boundary value problems. *Physica Scripta*, **2006**, 73, 672-676	2.6	57
548	The use of Chebyshev cardinal functions for the solution of a partial differential equation with an unknown time-dependent coefficient subject to an extra measurement. *Journal of Computational and Applied Mathematics*, **2010**, 235, 669-678	2.4	56
547	The method of lines for solution of the one-dimensional wave equation subject to an integral conservation condition. *Computers and Mathematics With Applications*, **2008**, 56, 2175-2188	2.7	56
546	Time-splitting procedures for the solution of the two-dimensional transport equation. *Kybernetes*, **2007**, 36, 791-805	2	56
545	The use of He's variational iteration method for solving a Fokker–Planck equation. *Physica Scripta*, **2006**, 74, 310-316	2.6	56
544	Determination of a control parameter in the two-dimensional diffusion equation. *Applied Numerical Mathematics*, **2001**, 37, 489-502	2.5	56
543	The spectral methods for parabolic Volterra integro-differential equations. *Journal of Computational and Applied Mathematics*, **2011**, 235, 4032-4046	2.4	55

542	The meshless local collocation method for solving multi-dimensional Cahn-Hilliard, Swift-Hohenberg and phase field crystal equations. *Engineering Analysis With Boundary Elements*, **2017**, 78, 49-64	2.6	54
541	A numerical scheme for the solution of a class of fractional variational and optimal control problems using the modified Jacobi polynomials. *JVC/Journal of Vibration and Control*, **2016**, 22, 1547-1559	2	54
540	ANALYTICAL TREATMENT OF SOME PARTIAL DIFFERENTIAL EQUATIONS ARISING IN MATHEMATICAL PHYSICS BY USING THEExp-FUNCTION METHOD. *International Journal of Modern Physics B*, **2011**, 25, 2965-2981	1.1	54
539	The numerical solution of a nonlinear system of second-order boundary value problems using the sinc-collocation method. *Mathematical and Computer Modelling*, **2007**, 46, 1434-1441		53
538	High-order compact boundary value method for the solution of unsteady convection–diffusion problems. *Mathematics and Computers in Simulation*, **2008**, 79, 683-699	3.3	53
537	Solution of the fully fuzzy linear systems using the decomposition procedure. *Applied Mathematics and Computation*, **2006**, 182, 1568-1580	2.7	53
536	Determination of a control function in three-dimensional parabolic equations. *Mathematics and Computers in Simulation*, **2003**, 61, 89-100	3.3	53
535	Fourth-order numerical method for the space–time tempered fractional diffusion-wave equation. *Applied Mathematics Letters*, **2017**, 73, 120-127	3.5	52
534	Numerical solution for the weakly singular Fredholm integro-differential equations using Legendre multiwavelets. *Journal of Computational and Applied Mathematics*, **2011**, 235, 3291-3303	2.4	52
533	A meshless method for numerical solution of the one-dimensional wave equation with an integral condition using radial basis functions. *Numerical Algorithms*, **2009**, 52, 461-477	2.1	52
532	He's variational iteration method for solving nonlinear mixed Volterra–Fredholm integral equations. *Computers and Mathematics With Applications*, **2009**, 58, 2172-2176	2.7	52
531	Two algorithms for finding the Hermitian reflexive and skew-Hermitian solutions of Sylvester matrix equations. *Applied Mathematics Letters*, **2011**, 24, 444-449	3.5	52
530	Efficient iterative method for solving the second-order Sylvester matrix equation EVF2AVFCV=BW. *IET Control Theory and Applications*, **2009**, 3, 1401-1408	2.5	52
529	A meshless method using the radial basis functions for numerical solution of the regularized long wave equation. *Numerical Methods for Partial Differential Equations*, **2010**, 26, 807-825	2.5	52
528	Finding a control parameter in one-dimensional parabolic equations. *Applied Mathematics and Computation*, **2003**, 135, 491-503	2.7	52
527	A numerical scheme based on radial basis function finite difference (RBF-FD) technique for solving the high-dimensional nonlinear Schrödinger equations using an explicit time discretization: Runge–Kutta method. *Computer Physics Communications*, **2017**, 217, 23-34	4.2	51
526	An efficient technique based on finite difference/finite element method for solution of two-dimensional space/multi-time fractional Bloch–Torrey equations. *Applied Numerical Mathematics*, **2018**, 131, 190-206	2.5	51
525	Determination of a control function in three-dimensional parabolic equations by Legendre pseudospectral method. *Numerical Methods for Partial Differential Equations*, **2012**, 28, 74-93	2.5	51

524	The operational matrices of Bernstein polynomials for solving the parabolic equation subject to specification of the mass. *Journal of Computational and Applied Mathematics*, **2011**, 235, 5272-5283	2.4	51
523	Numerical solution of fractional advection-diffusion equation with a nonlinear source term. *Numerical Algorithms*, **2015**, 68, 601-629	2.1	50
522	Solution of problems in calculus of variations via He's variational iteration method. *Physics Letters, Section A: General, Atomic and Solid State Physics*, **2007**, 362, 401-406	2.3	50
521	The numerical solution of Cahn–Hilliard (CH) equation in one, two and three-dimensions via globally radial basis functions (GRBFs) and RBFs-differential quadrature (RBFs-DQ) methods. *Engineering Analysis With Boundary Elements*, **2015**, 51, 74-100	2.6	49
520	A Legendre spectral element method (SEM) based on the modified bases for solving neutral delay distributed-order fractional damped diffusion-wave equation. *Mathematical Methods in the Applied Sciences*, **2018**, 41, 3476-3494	2.3	49
519	The use of Sinc-collocation method for solving multi-point boundary value problems. *Communications in Nonlinear Science and Numerical Simulation*, **2012**, 17, 593-601	3.7	49
518	A Tau Method for the One-Dimensional Parabolic Inverse Problem Subject to Temperature Overspecification. *Computers and Mathematics With Applications*, **2006**, 52, 933-940	2.7	49
517	Fourth-order techniques for identifying a control parameter in the parabolic equations. *International Journal of Engineering Science*, **2002**, 40, 433-447	5.7	49
516	A finite difference/finite element technique with error estimate for space fractional tempered diffusion-wave equation. *Computers and Mathematics With Applications*, **2018**, 75, 2903-2914	2.7	48
515	Time-splitting pseudo-spectral domain decomposition method for the soliton solutions of the one- and multi-dimensional nonlinear Schrödinger equations. *Computer Physics Communications*, **2014**, 185, 1515-1528	4.2	48
514	The use of proper orthogonal decomposition (POD) meshless RBF-FD technique to simulate the shallow water equations. *Journal of Computational Physics*, **2017**, 351, 478-510	4.1	48
513	A generalized moving least square reproducing kernel method. *Journal of Computational and Applied Mathematics*, **2013**, 249, 120-132	2.4	48
512	The spectral collocation method with three different bases for solving a nonlinear partial differential equation arising in modeling of nonlinear waves. *Mathematical and Computer Modelling*, **2011**, 53, 1865-1877		48
511	Method of lines solutions of the parabolic inverse problem with an overspecification at a point. *Numerical Algorithms*, **2009**, 50, 417-437	2.1	48
510	Numerical solution of nonlinear system of second-order boundary value problems using cubic B-spline scaling functions. *International Journal of Computer Mathematics*, **2008**, 85, 1455-1461	1.2	48
509	A new ADI technique for two-dimensional parabolic equation with an integral condition. *Computers and Mathematics With Applications*, **2002**, 43, 1477-1488	2.7	48
508	Numerical solution of nonlinear Schrödinger equation by using time-space pseudo-spectral method. *Numerical Methods for Partial Differential Equations*, **2010**, 26, 979-992	2.5	47
507	Chebyshev finite difference method for Fredholm integro-differential equation. *International Journal of Computer Mathematics*, **2008**, 85, 123-130	1.2	47

506	Numerical solution of the one-dimensional wave equation with an integral condition. *Numerical Methods for Partial Differential Equations*, **2007**, 23, 282-292	2.5	47
505	The method of variably scaled radial kernels for solving two-dimensional magnetohydrodynamic (MHD) equations using two discretizations: The Crank–Nicolson scheme and the method of lines (MOL). *Computers and Mathematics With Applications*, **2015**, 70, 2292-2315	2.7	46
504	A meshless discrete Galerkin (MDG) method for the numerical solution of integral equations with logarithmic kernels. *Journal of Computational and Applied Mathematics*, **2014**, 267, 160-181	2.4	46
503	Analysis of the element free Galerkin (EFG) method for solving fractional cable equation with Dirichlet boundary condition. *Applied Numerical Mathematics*, **2016**, 109, 208-234	2.5	45
502	Iterative algorithms for the generalized centro-symmetric and central anti-symmetric solutions of general coupled matrix equations. *Engineering Computations*, **2012**, 29, 528-560	1.4	45
501	Compact finite difference scheme and RBF meshless approach for solving 2D Rayleigh–Stokes problem for a heated generalized second grade fluid with fractional derivatives. *Computer Methods in Applied Mechanics and Engineering*, **2013**, 264, 163-177	5.7	45
500	The generalized centro-symmetric and least squares generalized centro-symmetric solutions of the matrix equation AYB + CYTD = E. *Mathematical Methods in the Applied Sciences*, **2011**, 34, 1562-1579	2.3	45
499	A meshfree weak-strong (MWS) form method for the unsteady magnetohydrodynamic (MHD) flow in pipe with arbitrary wall conductivity. *Computational Mechanics*, **2013**, 52, 1445-1462	4	44
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