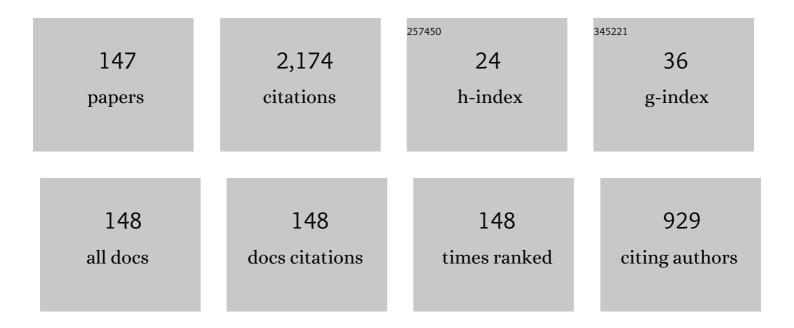
## Fazlollah Soleymani

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Efficient portfolio construction by means of CVaR and <i>k</i> â€means++ clustering analysis: Evidence from the NYSE. International Journal of Finance and Economics, 2022, 27, 3679-3693.	3.5	8
2	Exploiting higher computational efficiency index for computing outer generalized inverses. Applied Numerical Mathematics, 2022, 175, 18-28.	2.1	1
3	RBF-FD solution for a financial partial-integro differential equation utilizing the generalized multiquadric function. Computers and Mathematics With Applications, 2021, 82, 161-178.	2.7	9
4	Managing the risk based on entropic value-at-risk under a normal-Rayleigh distribution. Applied Mathematics and Computation, 2021, 402, 126129.	2.2	2
5	Four-factor model of Quanto CDS with jumps-at-default and stochastic recovery. Journal of Computational Science, 2021, 54, 101434.	2.9	6
6	Classifying a Lending Portfolio of Loans with Dynamic Updates via a Machine Learning Technique. Mathematics, 2021, 9, 17.	2.2	7
7	On a high-order Gaussian radial basis function generated Hermite finite difference method and its application. Calcolo, 2021, 58, 1.	1.1	5
8	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
9	A family of high order iterations for calculating the sign of a matrix. Mathematical Methods in the Applied Sciences, 2020, 43, 8192-8203.	2.3	7
10	European option valuation under the Bates PIDE in finance: A numerical implementation of the Gaussian scheme. Discrete and Continuous Dynamical Systems - Series S, 2020, 13, 889-909.	1.1	5
11	The existence and uniqueness of solution for linear system of mixed Volterra-Fredholm integral equations in Banach space. AIMS Mathematics, 2020, 5, 226-235.	1.6	6
12	Efficient Semi-Discretization Techniques for Pricing European and American Basket Options. Computational Economics, 2019, 53, 1487-1508.	2.6	3
13	A computational method to price with transaction costs under the nonlinear Black–Scholes model. Chaos, Solitons and Fractals, 2019, 127, 291-301.	5.1	12
14	How to construct a fourth-order scheme for Heston-Hull-White equation?. AIP Conference Proceedings, 2019, , .	0.4	3
15	Pricing foreign exchange options under stochastic volatility and interest rates using an RBF–FD method. Journal of Computational Science, 2019, 37, 101028.	2.9	7
16	Improved numerical solution of multi-asset option pricing problem: A localized RBF-FD approach. Chaos, Solitons and Fractals, 2019, 119, 298-309.	5.1	24
17	Option pricing under a financial model with stochastic interest rate. AIP Conference Proceedings, 2019, , .	0.4	0
18	Pricing options under stochastic volatility jump model: A stable adaptive scheme. Applied Numerical Mathematics, 2019, 145, 69-89.	2.1	10

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19	A fourth-order method for computing the sign function of a matrix with application in the Yang–Baxter-like matrix equation. Computational and Applied Mathematics, 2019, 38, 1.	2.2	7
20	An optimized Steffensen-type iterative method with memory associated with annuity calculation. European Physical Journal Plus, 2019, 134, 1.	2.6	3
21	Improving the Computational Efficiency of a Variant of Steffensen's Method for Nonlinear Equations. Mathematics, 2019, 7, 306.	2.2	5
22	A family of Chaplygin-type solvers for Itô stochastic differential equations. Applied Mathematics and Computation, 2019, 340, 296-304.	2.2	7
23	Pricing multi-asset option problems: a Chebyshev pseudo-spectral method. BIT Numerical Mathematics, 2019, 59, 243-270.	2.0	13
24	A stable local radial basis function method for option pricing problem under the Bates model. Numerical Methods for Partial Differential Equations, 2019, 35, 1035-1055.	3.6	2
25	Asset pricing for an affine jumpâ€diffusion model using an FD method of lines on nonuniform meshes. Mathematical Methods in the Applied Sciences, 2019, 42, 578-591.	2.3	7
26	Pricing the financial Heston–Hull–White model with arbitrary correlation factors via an adaptive FDM. Computers and Mathematics With Applications, 2019, 77, 1107-1123.	2.7	5
27	A Legendre-based computational method for solving a class of Itô stochastic delay differential equations. Numerical Algorithms, 2019, 80, 1267-1282.	1.9	8
28	On an improved computational solution for the 3D HCIR PDE in finance. Analele Stiintifice Ale Universitatii Ovidius Constanta, Seria Matematica, 2019, 27, 207-230.	0.3	3
29	Inverse multi-quadric RBF for computing the weights of FD method: Application to American options. Communications in Nonlinear Science and Numerical Simulation, 2018, 64, 74-88.	3.3	26
30	An efficient computation of generalized inverse of a matrix. Applied Mathematics and Computation, 2018, 316, 89-101.	2.2	21
31	Factorizations of hyperpower family of iterative methods via least squares approach. Computational and Applied Mathematics, 2018, 37, 3226-3240.	1.3	3
32	A multiquadric RBF–FD scheme for simulating the financial HHW equation utilizing exponential integrator. Calcolo, 2018, 55, 1.	1.1	10
33	A Local Radial Basis Function Method for High-Dimensional American Option Pricing Problems. Mathematical Modelling and Analysis, 2018, 23, 117-138.	1.5	14
34	Higher order derivative-free iterative methods with and without memory for systems of nonlinear equations. Applied Mathematics and Computation, 2017, 314, 199-211.	2.2	18
35	Numerically stable improved Chebyshev–Halley type schemes for matrix sign function. Journal of Computational and Applied Mathematics, 2017, 318, 189-198.	2.0	23
36	A family of Kurchatov-type methods and its stability. Applied Mathematics and Computation, 2017, 294, 264-279.	2.2	8

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37	Iterative Methods and Dynamics for Nonlinear Problems. Discrete Dynamics in Nature and Society, 2017, 2017, 1-1.	0.9	0
38	Numerical Analysis of Novel Finite Difference Methods. Mathematics in Industry, 2017, , 171-214.	0.3	2
39	A revisit of stochastic theta method with some improvements. Filomat, 2017, 31, 585-596.	0.5	3
40	Construction of some accelerated methods for solving scalar stochastic differential equations. International Journal of Computing Science and Mathematics, 2016, 7, 537.	0.3	2
41	A mixed derivative terms removing method in multi-asset option pricing problems. Applied Mathematics Letters, 2016, 60, 108-114.	2.7	14
42	Several numerical methods for computing unitary polar factor of a matrix. Advances in Difference Equations, 2016, 2016, .	3.5	7
43	A super-fast tri-parametric iterative method with memory. Applied Mathematics and Computation, 2016, 289, 486-491.	2.2	6
44	Computing outer inverses by scaled matrix iterations. Journal of Computational and Applied Mathematics, 2016, 296, 89-101.	2.0	5
45	A new solution method for stochastic differential equations via collocation approach. International Journal of Computer Mathematics, 2016, 93, 2079-2091.	1.8	5
46	A Class of Kung–Traub-Type Iterative Algorithms for Matrix Inversion. International Journal of Applied and Computational Mathematics, 2016, 2, 641-648.	1.6	7
47	Iterative methods for nonlinear systems associated with finite difference approach in stochastic differential equations. Numerical Algorithms, 2016, 71, 89-102.	1.9	17
48	Construction of some accelerated methods for solving scalar stochastic differential equations. International Journal of Computing Science and Mathematics, 2016, 7, 537.	0.3	1
49	A Quartically Convergent Jarratt-Type Method for Nonlinear System of Equations. Algorithms, 2015, 8, 415-423.	2.1	4
50	Some Matrix Iterations for Computing Generalized Inverses and Balancing Chemical Equations. Algorithms, 2015, 8, 982-998.	2.1	20
51	A Novel Iterative Method for Polar Decomposition and Matrix Sign Function. Discrete Dynamics in Nature and Society, 2015, 2015, 1-11.	0.9	3
52	Recent Theories and Applications in Approximation Theory. Scientific World Journal, The, 2015, 2015, 1-2.	2.1	2
53	On the construction of some tri-parametric iterative methods with memory. Numerical Algorithms, 2015, 70, 835-845.	1.9	20
54	Several iterative methods with memory using self-accelerators. Applied Mathematics and Computation, 2015, 254, 452-458.	2.2	25

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55	Some derivative-free solvers for numerical solution of SODEs. SeMA Journal, 2015, 68, 17-27.	2.0	5
56	A fast convergent numerical method for matrix sign function with application in SDEs. Journal of Computational and Applied Mathematics, 2015, 282, 167-178.	2.0	21
57	On hyperpower family of iterations for computing outer inverses possessing high efficiencies. Linear Algebra and Its Applications, 2015, 484, 477-495.	0.9	21
58	Constructing two-step iterative methods with and without memory. Computational Mathematics and Mathematical Physics, 2015, 55, 183-193.	0.8	8
59	On a fourth-order matrix method for computing polar decomposition. Computational and Applied Mathematics, 2015, 34, 389-399.	1.3	8
60	Finding the Moore–Penrose inverse by a new matrix iteration. Journal of Applied Mathematics and Computing, 2015, 47, 33-48.	2.5	10
61	An efficient and stable Newton-type iterative method for computing generalized inverse A T , S ( 2 ) \$A_{T,S}^{(2)}\$. Numerical Algorithms, 2015, 69, 569-578.	1.9	15
62	An Inversion-Free Method for Finding Positive Definite Solution of a Rational Matrix Equation. Scientific World Journal, The, 2014, 2014, 1-5.	2.1	2
63	A New High-Order Stable Numerical Method for Matrix Inversion. Scientific World Journal, The, 2014, 2014, 1-10.	2.1	6
64	New Mono- and Biaccelerator Iterative Methods with Memory for Nonlinear Equations. Abstract and Applied Analysis, 2014, 2014, 1-8.	0.7	7
65	Efficient Iterative Methods with and without Memory Possessing High Efficiency Indices. Discrete Dynamics in Nature and Society, 2014, 2014, 1-9.	0.9	5
66	Some Matrix Iterations for Computing Matrix Sign Function. Journal of Applied Mathematics, 2014, 2014, 1-9.	0.9	14
67	Multipoint Iterative Methods for Finding All the Simple Zeros in an Interval. Journal of Applied Mathematics, 2014, 2014, 1-13.	0.9	8
68	An Algorithm for Computing Geometric Mean of Two Hermitian Positive Definite Matrices via Matrix Sign. Abstract and Applied Analysis, 2014, 2014, 1-6.	0.7	5
69	Approximating the Matrix Sign Function Using a Novel Iterative Method. Abstract and Applied Analysis, 2014, 2014, 1-9.	0.7	13
70	A Matrix Iteration for Finding Drazin Inverse with Ninth-Order Convergence. Abstract and Applied Analysis, 2014, 2014, 1-7.	0.7	5
71	A Numerical Method for Computing the Principal Square Root of a Matrix. Abstract and Applied Analysis, 2014, 2014, 1-7.	0.7	9
72	Basins of Attraction for Various Steffensen-Type Methods. Journal of Applied Mathematics, 2014, 2014, 1-17.	0.9	22

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73	Approximating the Inverse of a Square Matrix with Application in Computation of the Moore-Penrose Inverse. Journal of Applied Mathematics, 2014, 2014, 1-8.	0.9	3
74	A Class of Steffensen-Type Iterative Methods for Nonlinear Systems. Journal of Applied Mathematics, 2014, 2014, 1-9.	0.9	12
75	Semantic image classification by genetic algorithm using optimised fuzzy system based on Zernike moments. Signal, Image and Video Processing, 2014, 8, 831-842.	2.7	30
76	Two novel classes of two-step optimal methods for all the zeros in an interval. Afrika Matematika, 2014, 25, 307-321.	0.8	4
77	New class of eighth-order iterative zero-finders and their basins of attraction. Afrika Matematika, 2014, 25, 67-79.	0.8	2
78	On improved three-step schemes with high efficiency index and their dynamics. Numerical Algorithms, 2014, 65, 153-169.	1.9	26
79	On finding robust approximate inverses for large sparse matrices. Linear and Multilinear Algebra, 2014, 62, 1314-1334.	1.0	20
80	A multi-step class of iterative methods for nonlinear systems. Optimization Letters, 2014, 8, 1001-1015.	1.6	69
81	On the extension of Householder's method for weighted Moore–Penrose inverse. Applied Mathematics and Computation, 2014, 231, 407-413.	2.2	4
82	An improved Schulz-type iterative method for matrix inversion with application. Transactions of the Institute of Measurement and Control, 2014, 36, 983-991.	1.7	17
83	Numerical solution of nonlinear systems by a general class of iterative methods with application to nonlinear PDEs. Numerical Algorithms, 2014, 67, 223-242.	1.9	21
84	A class of numerical algorithms for computing outer inverses. Journal of Computational and Applied Mathematics, 2014, 263, 236-245.	2.0	38
85	A note on the stability of a <mml:math <br="" xmlns:mml="http://www.w3.org/1998/Math/MathML">altimg="si1.gif" display="inline" overflow="scroll"&gt;<mml:mi>p</mml:mi></mml:math> th order iteration for finding generalized inverses. Applied Mathematics Letters, 2014, 28, 77-81.	2.7	13
86	Dynamical analysis of iterative methods for nonlinear systems or how to deal with the dimension?. Applied Mathematics and Computation, 2014, 244, 398-412.	2.2	30
87	An efficient matrix iteration for computing weighted Moore–Penrose inverse. Applied Mathematics and Computation, 2014, 226, 441-454.	2.2	14
88	A fast convergent iterative solver for approximate inverse of matrices. Numerical Linear Algebra With Applications, 2014, 21, 439-452.	1.6	17
89	An extension of the Tau numerical algorithm for the solution of linear and nonlinear Lane–Emden equations. Mathematical Methods in the Applied Sciences, 2013, 36, 674-682.	2.3	6
90	Interval Ostrowski-type methods with guaranteed convergence. Annali Dell'Universita Di Ferrara, 2013, 59, 221-234.	1.3	8

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91	Efficient optimal eighth-order derivative-free methods for nonlinear equations. Japan Journal of Industrial and Applied Mathematics, 2013, 30, 287-306.	0.9	14
92	A computer-aided diagnosis system for malignant melanomas. Neural Computing and Applications, 2013, 23, 2059-2071.	5.6	47
93	Color image segmentation using neuro-fuzzy system in a novel optimized color space. Neural Computing and Applications, 2013, 23, 1513-1520.	5.6	26
94	An accelerated iterative method for computing weighted Moore–Penrose inverse. Applied Mathematics and Computation, 2013, 222, 365-371.	2.2	20
95	On the computation of weighted Moore–Penrose inverse using a high-order matrix method. Computers and Mathematics With Applications, 2013, 66, 2344-2351.	2.7	12
96	An iterative method for computing the approximate inverse of a square matrix and the Moore–Penrose inverse of a non-square matrix. Applied Mathematics and Computation, 2013, 224, 671-680.	2.2	25
97	Letter to the editor regarding the article by Khattri: derivative free algorithm for solving nonlinear equations. Computing (Vienna/New York), 2013, 95, 159-162.	4.8	3
98	Computing multiple zeros using a class of quartically convergent methods. AEJ - Alexandria Engineering Journal, 2013, 52, 531-541.	6.4	43
99	On a numerical technique for finding multiple zeros and its dynamic. Journal of the Egyptian Mathematical Society, 2013, 21, 346-353.	1.2	48
100	A Taylor-type numerical method for solving nonlinear ordinary differential equations. AEJ - Alexandria Engineering Journal, 2013, 52, 543-550.	6.4	7
101	Some optimal iterative methods and their with memory variants. Journal of the Egyptian Mathematical Society, 2013, 21, 133-141.	1.2	17
102	Numerical solution of nonlinear equations by an optimal eighth-order class of iterative methods. Annali Dell'Universita Di Ferrara, 2013, 59, 159-171.	1.3	6
103	Solution of the heat equation in the castâ€mould heterogeneous domain using a weighted algorithm based on the homotopy perturbation method. International Journal of Numerical Methods for Heat and Fluid Flow, 2013, 23, 451-459.	2.8	7
104	Tau approximate solution of weakly singular Volterra integral equations. Mathematical and Computer Modelling, 2013, 57, 494-502.	2.0	24
105	A hybrid neural network Imperialist Competitive Algorithm for skin color segmentation. Mathematical and Computer Modelling, 2013, 57, 848-856.	2.0	59
106	An efficient twelfth-order iterative method for finding all the solutions of nonlinear equations. Journal of Computational Methods in Sciences and Engineering, 2013, 13, 309-320.	0.2	4
107	A new Analytical Solution Procedure for the Motion of a Spherical Particle in a Plane Couette Flow. Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences, 2013, 68, 319-326.	1.5	1
108	Some Iterative Methods Free from Derivatives and Their Basins of Attraction for Nonlinear Equations. Discrete Dynamics in Nature and Society, 2013, 2013, 1-10.	0.9	27

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109	Iterative Methods for Nonlinear Equations or Systems and Their Applications. Journal of Applied Mathematics, 2013, 2013, 1-2.	0.9	6
110	Robustness of Operational Matrices of Differentiation for Solving State-Space Analysis and Optimal Control Problems. Abstract and Applied Analysis, 2013, 2013, 1-9.	0.7	15
111	The Laplace Homotopy Analysis Method for Solving a General Fractional Diffusion Equation Arising in Nano-Hydrodynamics. Journal of Computational and Theoretical Nanoscience, 2013, 10, 33-36.	0.4	16
112	A three-step iterative method for non-linear systems with sixth order of convergence. International Journal of Computing Science and Mathematics, 2013, 4, 363.	0.3	8
113	A Higher Order Iterative Method for Computing the Drazin Inverse. Scientific World Journal, The, 2013, 2013, 1-11.	2.1	22
114	An Iterative Solver in the Presence and Absence of Multiplicity for Nonlinear Equations. Scientific World Journal, The, 2013, 2013, 1-9.	2.1	4
115	ON A FAST ITERATIVE METHOD FOR APPROXIMATE INVERSE OF MATRICES. Communications of the Korean Mathematical Society, 2013, 28, 407-418.	0.2	19
116	Some efficient seventh-order derivative-free families in root-finding. Opuscula Mathematica, 2013, 33, 163.	0.8	4
117	A new method for solving ill-conditioned linear systems. Opuscula Mathematica, 2013, 33, 337.	0.8	10
118	Optimized Steffensen-Type Methods with Eighth-Order Convergence and High Efficiency Index. International Journal of Mathematics and Mathematical Sciences, 2012, 2012, 1-18.	0.7	4
119	Computing Simple Roots by an Optimal Sixteenth-Order Class. Journal of Applied Mathematics, 2012, 2012, 1-13.	0.9	9
120	A Class of Three-Step Derivative-Free Root Solvers with Optimal Convergence Order. Journal of Applied Mathematics, 2012, 2012, 1-15.	0.9	18
121	On a Novel Fourth-Order Algorithm for Solving Systems of Nonlinear Equations. Journal of Applied Mathematics, 2012, 2012, 1-12.	0.9	26
122	A Rapid Numerical Algorithm to Compute Matrix Inversion. International Journal of Mathematics and Mathematical Sciences, 2012, 2012, 1-11.	0.7	19
123	On a New Method for Computing the Numerical Solution of Systems of Nonlinear Equations. Journal of Applied Mathematics, 2012, 2012, 1-15.	0.9	46
124	Two Optimal Eighth-Order Derivative-Free Classes of Iterative Methods. Abstract and Applied Analysis, 2012, 2012, 1-14.	0.7	11
125	Construction of Optimal Derivative-Free Techniques without Memory. Journal of Applied Mathematics, 2012, 2012, 1-24.	0.9	14
126	A new Bernoulli matrix method for solving high-order linear and nonlinear Fredholm integro-differential equations with piecewise intervals. Applied Mathematics and Computation, 2012, 219, 482-497.	2.2	84

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127	Application of the Homotopy Perturbation Method to the Burgers Equation with Delay. Chinese Physics Letters, 2012, 29, 030202.	3.3	5
128	A real-time mathematical computer method for potato inspection using machine vision. Computers and Mathematics With Applications, 2012, 63, 268-279.	2.7	119
129	Finding the solution of nonlinear equations by a class of optimal methods. Computers and Mathematics With Applications, 2012, 63, 764-774.	2.7	70
130	Two new classes of optimal Jarratt-type fourth-order methods. Applied Mathematics Letters, 2012, 25, 847-853.	2.7	43
131	Some modifications of King's family with optimal eighth order of convergence. Mathematical and Computer Modelling, 2012, 55, 1373-1380.	2.0	25
132	An optimized derivative-free form of the Potra–Pták method. Mathematical and Computer Modelling, 2012, 56, 97-104.	2.0	26
133	On novel classes of iterative methods for solving nonlinear equations. Computational Mathematics and Mathematical Physics, 2012, 52, 203-210.	0.8	7
134	An Improvement of Ostrowski's and King's Techniques with Optimal Convergence Order Eight. Journal of Optimization Theory and Applications, 2012, 153, 225-236.	1.5	36
135	Robust cubically and quartically iterative techniques free from derivative. Proyecciones, 2011, 30, 149-161.	0.3	4
136	New Third- and Sixth-Order Derivative-Free Techniques for Nonlinear Equations. Journal of Mathematics Research, 2011, 3, .	0.1	8
137	Optimal Steffensen-type methods with eighth order of convergence. Computers and Mathematics With Applications, 2011, 62, 4619-4626.	2.7	41
138	Revisit of Jarratt method for solving nonlinear equations. Numerical Algorithms, 2011, 57, 377-388.	1.9	13
139	Accurate fourteenth-order methods for solving nonlinear equations. Numerical Algorithms, 2011, 58, 513-527.	1.9	24
140	Regarding the accuracy of optimal eighth-order methods. Mathematical and Computer Modelling, 2011, 53, 1351-1357.	2.0	15
141	A Numerical Algorithm for Solving Nonlinear Delay Volterra Integral Equations by Means of Homotopy Perturbation Method. International Journal of Nonlinear Sciences and Numerical Simulation, 2011, 12, 15-21.	1.0	2
142	A General Three-Step Class of Optimal Iterations for Nonlinear Equations. Mathematical Problems in Engineering, 2011, 2011, 1-10.	1.1	14
143	Novel Computational Iterative Methods with Optimal Order for Nonlinear Equations. Advances in Numerical Analysis, 2011, 2011, 1-10.	0.2	10
144	Optimal fourth-order iterative method free from derivative. Miskolc Mathematical Notes, 2011, 12, 255.	0.6	12

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145	Two Classes of Iterative Schemes for Approximating Simple Roots. Journal of Applied Sciences, 2011, 11, 3442-3446.	0.3	6
146	An Efficient Numerical Scheme for the Solution of a Stochastic Volatility Model Including Contemporaneous Jumps in Finance. International Journal of Computational Methods, 0, , .	1.3	1
147	On an inversion-free algorithm for the nonlinear matrix problem χ <sup>α</sup> A* χβ A + B * χ <sup>γ</sup> B = I. International Journal of Computer Mathematics, 0, , 1-0.	1.8	1