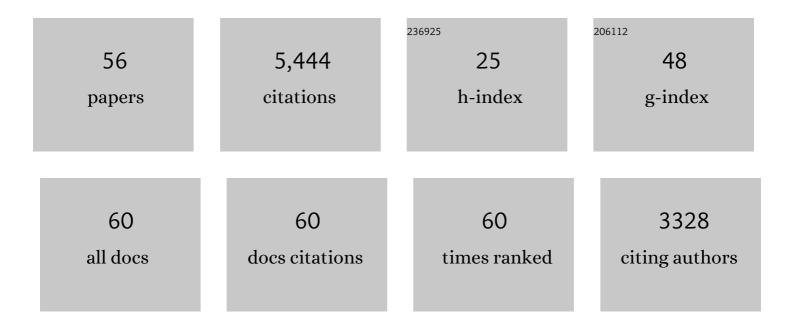
Uri M Ascher

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Simulating deformable objects for computer animation: A numerical perspective. Journal of Computational Dynamics, 2022, 9, 47.	1.1	3
2	SIERE. ACM Transactions on Graphics, 2021, 40, 1-12.	7.2	6
3	Learning Elastic Constitutive Material and Damping Models. Computer Graphics Forum, 2020, 39, 81-91.	3.0	5
4	EigenFit for consistent elastodynamic simulation across mesh resolution. , 2019, , .		7
5	Exponential Rosenbrock-Euler Integrators for Elastodynamic Simulation. IEEE Transactions on Visualization and Computer Graphics, 2018, 24, 2702-2713.	4.4	14
6	Numerical Analysis in Visual Computing What we can Learn from each Other. Vietnam Journal of Mathematics, 2018, 46, 745-759.	0.8	1
7	Algorithms that Satisfy a Stopping Criterion, Probably. Vietnam Journal of Mathematics, 2016, 44, 49-69.	0.8	1
8	Assessing Stochastic Algorithms for Large Scale Nonlinear Least Squares Problems Using Extremal Probabilities of Linear Combinations of Gamma Random Variables. SIAM-ASA Journal on Uncertainty Quantification, 2015, 3, 61-90.	2.0	11
9	Improved Bounds on Sample Size for Implicit Matrix Trace Estimators. Foundations of Computational Mathematics, 2015, 15, 1187-1212.	2.5	52
10	Stochastic Algorithms for Inverse Problems Involving PDEs and many Measurements. SIAM Journal of Scientific Computing, 2014, 36, S3-S22.	2.8	23
11	Faster Gradient Descent and the Efficient Recovery of Images. Vietnam Journal of Mathematics, 2014, 42, 115-131.	0.8	9
12	Fast Chaotic Artificial Time Integration. , 2013, , 147-155.		0
13	When [script-]]1-based regularization is great, and when it's not. , 2013, , .		0
14	The lost honor of â,," ₂ -based regularization. , 2013, , 181-203.		12
15	Fast but chaotic artificial time integration. , 2012, , .		0
16	Adaptive and Stochastic Algorithms for Electrical Impedance Tomography and DC Resistivity Problems with Piecewise Constant Solutions and Many Measurements. SIAM Journal of Scientific Computing, 2012, 34, A185-A205.	2.8	18
17	Surprising computations. Applied Numerical Mathematics, 2012, 62, 1276-1288.	2.1	3
18	The Chaotic Nature of Faster Gradient Descent Methods. Journal of Scientific Computing, 2012, 51, 560-581.	2.3	27

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19	Multiple Level Sets for Piecewise Constant Surface Reconstruction in Highly Ill-Posed Problems. Journal of Scientific Computing, 2010, 43, 44-66.	2.3	30
20	Introduction to Bayesian Scientific Computing: Ten Lectures on Subjective Computing by Daniela Calvetti and Erkki Somersalo. Mathematical Intelligencer, 2009, 31, 73-74.	0.2	0
21	Gradient descent and fast artificial time integration. ESAIM: Mathematical Modelling and Numerical Analysis, 2009, 43, 689-708.	1.9	22
22	Adaptive finite volume method for distributed non-smooth parameter identification. Inverse Problems, 2007, 23, 1659-1676.	2.0	60
23	Fast Surface Mesh Denoising with Regularization and Edge Preservation. Proceedings in Applied Mathematics and Mechanics, 2007, 7, 2010001-2010002.	0.2	0
24	Artificial time integration. BIT Numerical Mathematics, 2007, 47, 3-25.	2.0	23
25	On level set regularization for highly ill-posed distributed parameter estimation problems. Journal of Computational Physics, 2006, 216, 707-723.	3.8	67
26	On Symplectic and Multisymplectic Schemes for the KdV Equation. Journal of Scientific Computing, 2005, 25, 83-104.	2.3	75
27	Inversion of 3D electromagnetic data in frequency and time domain using an inexact allâ€atâ€once approach. Geophysics, 2004, 69, 1216-1228.	2.6	142
28	Multisymplectic box schemes and the Korteweg–de Vries equation. Applied Numerical Mathematics, 2004, 48, 255-269.	2.1	128
29	On the modified conjugate gradient method in cloth simulation. Visual Computer, 2003, 19, 526-531.	3.5	30
30	DAEs That Should Not Be Solved. The IMA Volumes in Mathematics and Its Applications, 2000, , 55-67.	0.5	4
31	Sequential Regularization Methods for Simulating Mechanical Systems with Many Closed Loops. SIAM Journal of Scientific Computing, 1999, 21, 1244-1262.	2.8	8
32	The Midpoint Scheme and Variants for Hamiltonian Systems: Advantages and Pitfalls. SIAM Journal of Scientific Computing, 1999, 21, 1045-1065.	2.8	28
33	On Some Difficulties in Integrating Highly Oscillatory Hamiltonian Systems. Lecture Notes in Computational Science and Engineering, 1999, , 281-296.	0.3	17
34	Approximate Schur Complement Preconditioning of the Lowest-Order Nodal Discretizations. SIAM Journal of Scientific Computing, 1998, 19, 185-205.	2.8	3
35	Forward Dynamics, Elimination Methods, and Formulation Stiffness in Robot Simulation. International Journal of Robotics Research, 1997, 16, 749-758.	8.5	46
36	Sequential Regularization Methods for Nonlinear Higher-Index DAEs. SIAM Journal of Scientific Computing, 1997, 18, 160-181.	2.8	44

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37	Stabilization of invariants of discretized differential systems. Numerical Algorithms, 1997, 14, 1-24.	1.9	42
38	Implicit-explicit Runge-Kutta methods for time-dependent partial differential equations. Applied Numerical Mathematics, 1997, 25, 151-167.	2.1	854
39	Sequential Regularization Methods for Higher Index DAEs with Constraint Singularities: The Linear Index-2 Case. SIAM Journal on Numerical Analysis, 1996, 33, 1921-1940.	2.3	43
40	Stabilization of Constrained Mechanical Systems with DAEs and Invariant Manifolds. Mechanics Based Design of Structures and Machines, 1995, 23, 135-157.	0.6	103
41	The Numerical Solution of Delay-Differential-Algebraic Equations of Retarded and Neutral Type. SIAM Journal on Numerical Analysis, 1995, 32, 1635-1657.	2.3	82
42	Implicit-Explicit Methods for Time-Dependent Partial Differential Equations. SIAM Journal on Numerical Analysis, 1995, 32, 797-823.	2.3	741
43	Stabilization of DAEs and invariant manifolds. Numerische Mathematik, 1994, 67, 131-149.	1.9	117
44	Collocation Software for Boundary Value Differential-Algebraic Equations. SIAM Journal of Scientific Computing, 1994, 15, 938-952.	2.8	89
45	Stability of Computational Methods for Constrained Dynamics Systems. SIAM Journal of Scientific Computing, 1993, 14, 95-120.	2.8	75
46	A Multigrid Method for Shape from Shading. SIAM Journal on Numerical Analysis, 1993, 30, 102-115.	2.3	11
47	Projected collocation for higher-order higher-index differential-algebraic equations. Journal of Computational and Applied Mathematics, 1992, 43, 243-259.	2.0	22
48	Numerical Methods for Boundary Value Problems in Differential-Algebraic Equations. , 1992, , 125-135.		7
49	Projected Implicit Runge–Kutta Methods for Differential-Algebraic Equations. SIAM Journal on Numerical Analysis, 1991, 28, 1097-1120.	2.3	133
50	On Symmetric Schemes and Differential-Algebraic Equations. SIAM Journal on Scientific and Statistical Computing, 1989, 10, 937-949.	1.5	37
51	On Numerical Differential Algebraic Problems with Application to Semiconductor Device Simulation. SIAM Journal on Numerical Analysis, 1989, 26, 517-538.	2.3	25
52	Collocation for Two-Point Boundary Value Problems Revisited. SIAM Journal on Numerical Analysis, 1986, 23, 596-609.	2.3	32
53	Solving boundary-value problems with a spline-collocation code. Journal of Computational Physics, 1980, 34, 401-413.	3.8	37
54	On the invariance of the interpolation points of the discrete l1-approximation. Journal of Approximation Theory, 1978, 24, 83-91.	0.8	2

#	Article	IF	CITATIONS
55	Discrete Least Squares Approximations for Ordinary Differential Equations. SIAM Journal on Numerical Analysis, 1978, 15, 478-496.	2.3	17
56	Linear Programming Algorithms for the Chebyshev Solution to a System of Consistent Linear Equations. SIAM Journal on Numerical Analysis, 1977, 14, 519-526.	2.3	2