List of Publications by Year in descending order

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		87723	82410
103	5,467	38	72
papers	citations	h-index	g-index
115 all docs	115 docs citations	115 times ranked	2234 citing authors

IAN MANDEL

#	Article	IF	CITATIONS
1	Machine Learning Estimation of Fire Arrival Time from Level-2 Active Fires Satellite Data. Remote Sensing, 2021, 13, 2203.	1.8	13
2	Integration of a Coupled Fire-Atmosphere Model Into a Regional Air Quality Forecasting System for Wildfire Events. Frontiers in Forests and Global Change, 2021, 4, .	1.0	5
3	Score matching filters for Gaussian Markov random fields with a linear model of the precision matrix. , 2021, 3, 793.		1
4	Evaluating Wildfire Smoke Transport Within a Coupled Fireâ€Atmosphere Model Using a Highâ€Density Observation Network for an Episodic Smoke Event Along Utah's Wasatch Front. Journal of Geophysical Research D: Atmospheres, 2020, 125, e2020JD032712.	1.2	18
5	Incorporating a Canopy Parameterization within a Coupled Fire-Atmosphere Model to Improve a Smoke Simulation for a Prescribed Burn. Atmosphere, 2020, 11, 832.	1.0	15
6	A method for estimating the socioeconomic impact of Earth observations in wildland fire suppression decisions. International Journal of Wildland Fire, 2020, 29, 282.	1.0	3
7	Modeling Wildfire Smoke Feedback Mechanisms Using a Coupled Fireâ€Atmosphere Model With a Radiatively Active Aerosol Scheme. Journal of Geophysical Research D: Atmospheres, 2019, 124, 9099-9116.	1.2	32
8	Multilevel maximum likelihood estimation with application to covariance matrices. Communications in Statistics - Theory and Methods, 2019, 48, 909-925.	0.6	0
9	An Interactive Data-Driven HPC System for Forecasting Weather, Wildland Fire, and Smoke. , 2019, , .		7
10	Fire behaviour and smoke modelling: model improvement and measurement needs for next-generation smoke research and forecasting systems. International Journal of Wildland Fire, 2019, 28, 570.	1.0	40
11	On the convergence of a non-linear ensemble Kalman smoother. Applied Numerical Mathematics, 2019, 137, 151-168.	1.2	6
12	The FireFlux II experiment: a model-guided field experiment to improve understanding of fire–atmosphere interactions and fire spread. International Journal of Wildland Fire, 2019, 28, 308.	1.0	35
13	Experimental Design of a Prescribed Burn Instrumentation. Atmosphere, 2018, 9, 296.	1.0	9
14	Assimilation of Fire Perimeters and Satellite Detections by Minimization of the Residual in a Fire Spread Model. Lecture Notes in Computer Science, 2018, , 711-723.	1.0	1
15	Quantifying the Impact of Biomass Burning Emissions on Major Inorganic Aerosols and Their Precursors in the U.S Journal of Geophysical Research D: Atmospheres, 2017, 122, 12,020.	1.2	31
16	Hybrid Levenberg–Marquardt and weak-constraint ensemble Kalman smootherÂmethod. Nonlinear Processes in Geophysics, 2016, 23, 59-73.	0.6	17
17	Toward an integrated system for fire, smoke and air quality simulations. International Journal of Wildland Fire, 2016, 25, 534.	1.0	38
18	Data assimilation of dead fuel moisture observations from remote automated weather stations. International Journal of Wildland Fire, 2016, 25, 558.	1.0	14

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19	Spectral diagonal ensemble Kalman filters. Nonlinear Processes in Geophysics, 2015, 22, 485-497.	0.6	5
20	Convergence of the Square Root Ensemble Kalman Filter in the Large Ensemble Limit. SIAM-ASA Journal on Uncertainty Quantification, 2015, 3, 1-17.	1.1	39
21	Model analysis of BPX preconditioner based on smoothed aggregation. Applications of Mathematics, 2015, 60, 219-250.	0.9	1
22	Recent advances and applications of WRF–SFIRE. Natural Hazards and Earth System Sciences, 2014, 14, 2829-2845.	1.5	66
23	Bayesian tracking of emerging epidemics using ensemble optimal statistical interpolation. Spatial and Spatio-temporal Epidemiology, 2014, 10, 39-48.	0.9	10
24	Adaptive-Multilevel BDDC and its parallel implementation. Computing (Vienna/New York), 2013, 95, 1087-1119.	3.2	36
25	Evaluation of WRF-SFIRE performance with field observations from the FireFlux experiment. Geoscientific Model Development, 2013, 6, 1109-1126.	1.3	54
26	Data management and analysis with WRF and SFIRE. , 2012, , .		3
27	Adaptive BDDC in three dimensions. Mathematics and Computers in Simulation, 2012, 82, 1812-1831.	2.4	54
28	Assimilation of Perimeter Data and Coupling with Fuel Moisture in a Wildland Fire–Atmosphere DDDAS. Procedia Computer Science, 2012, 9, 1100-1109.	1.2	28
29	Simulation of the 2009 Harmanli Fire (Bulgaria). Lecture Notes in Computer Science, 2012, , 291-298.	1.0	8
30	On the convergence of the ensemble Kalman filter. Applications of Mathematics, 2011, 56, 533-541.	0.9	87
31	Application of the parallel BDDC preconditioner to the Stokes flow. Computers and Fluids, 2011, 46, 429-435.	1.3	24
32	Wavelet ensemble Kalman filters. , 2011, , .		5
33	Coupled atmosphere-wildland fire modeling with WRF 3.3 and SFIRE 2011. Geoscientific Model Development, 2011, 4, 591-610.	1.3	195
34	On Adaptive-Multilevel BDDC. Lecture Notes in Computational Science and Engineering, 2011, , 39-50.	0.1	5
35	WRF-Fire Applied in Bulgaria. Lecture Notes in Computer Science, 2011, , 133-140.	1.0	3
36	A Parallel Implementation of the BDDC Method for the Stokes Flow. , 2011, , 807-812.		0

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37	FAST FOURIER TRANSFORM ENSEMBLE KALMAN FILTER WITH APPLICATION TO A COUPLED ATMOSPHERE-WILDLAND FIRE MODEL. , 2010, , .		9
38	Data driven computing by the morphing fast Fourier transform ensemble Kalman filter in epidemic spread simulations. Procedia Computer Science, 2010, 1, 1221-1229.	1.2	21
39	BDDC by a frontal solver and the stress computation in a hip joint replacement. Mathematics and Computers in Simulation, 2010, 80, 1310-1323.	2.4	10
40	Data assimilation for wildland fires. IEEE Control Systems, 2009, 29, 47-65.	1.0	74
41	An Ensemble Kalman-Particle Predictor-Corrector Filter for Non-Gaussian Data Assimilation. Lecture Notes in Computer Science, 2009, , 470-478.	1.0	17
42	A two-stage ensemble Kalman filter for smooth data assimilation. Environmental and Ecological Statistics, 2008, 15, 101-110.	1.9	40
43	Multispace and multilevel BDDC. Computing (Vienna/New York), 2008, 83, 55-85.	3.2	62
44	A wildland fire model with data assimilation. Mathematics and Computers in Simulation, 2008, 79, 584-606.	2.4	111
45	Morphing ensemble Kalman filters. Tellus, Series A: Dynamic Meteorology and Oceanography, 2008, 60, 131-140.	0.8	45
46	Exact Calculations of Average Power for the Benjamini-Hochberg Procedure. International Journal of Biostatistics, 2008, 4, Article 11.	0.4	31
47	Real-Time Data Driven Wildland Fire Modeling. Lecture Notes in Computer Science, 2008, , 46-53.	1.0	5
48	Morphing ensemble Kalman filters. Tellus, Series A: Dynamic Meteorology and Oceanography, 2008, , .	0.8	6
49	Adaptive selection of face coarse degrees of freedom in the BDDC and the FETI-DP iterative substructuring methods. Computer Methods in Applied Mechanics and Engineering, 2007, 196, 1389-1399.	3.4	84
50	A Dynamic Data Driven Wildland Fire Model. Lecture Notes in Computer Science, 2007, , 1042-1049.	1.0	22
51	BDDC and FETI-DP under minimalist assumptions. Computing (Vienna/New York), 2007, 81, 269-280.	3.2	24
52	Dynamic Data-Driven Application Systems for Empty Houses, Contaminat Tracking, and Wildland Fireline Prediction. , 2007, , 255-272.		3
53	Adaptive Coarse Space Selection in the BDDC and the FETI-DP Iterative Substructuring Methods: Optimal Face Degrees of Freedom. , 2007, , 421-428.		5
E 4	DDDAS Approaches to Wildland Fire Modeling and Contaminant Traching 2006		17

54 DDDAS Approaches to Wildland Fire Modeling and Contaminant Tracking. , 2006, , .

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55	Demonstrating the Validity of a Wildfire DDDAS. Lecture Notes in Computer Science, 2006, , 522-529.	1.0	12
56	An algebraic theory for primal and dual substructuring methods by constraints. Applied Numerical Mathematics, 2005, 54, 167-193.	1.2	192
57	Title is missing!. Applied Numerical Mathematics, 2005, 54, 105-106.	1.2	0
58	Iterative solvers for coupled fluid–solid scattering. Applied Numerical Mathematics, 2005, 54, 194-207.	1.2	7
59	Towards a Dynamic Data Driven Application System for Wildfire Simulation. Lecture Notes in Computer Science, 2005, , 632-639.	1.0	27
60	Convergence of a balancing domain decomposition by constraints and energy minimization. Numerical Linear Algebra With Applications, 2003, 10, 639-659.	0.9	183
61	An Iterative Substructuring Method for Coupled Fluid–Solid Acoustic Problems. Journal of Computational Physics, 2002, 177, 95-116.	1.9	19
62	On the convergence of a dual-primal substructuring method. Numerische Mathematik, 2001, 88, 543-558.	0.9	127
63	Convergence of algebraic multigrid based on smoothed aggregation. Numerische Mathematik, 2001, 88, 559-579.	0.9	191
64	Energy Optimization of Algebraic Multigrid Bases. Computing (Vienna/New York), 1999, 62, 205-228.	3.2	113
65	Theoretical comparison of the FETI and algebraically partitioned FETI methods, and performance comparisons with a direct sparse solver. International Journal for Numerical Methods in Engineering, 1999, 46, 501-533.	1.5	52
66	A Scalable Substructuring Method by Lagrange Multipliers for Plate Bending Problems. SIAM Journal on Numerical Analysis, 1999, 36, 1370-1391.	1.1	58
67	Theoretical comparison of the FETI and algebraically partitioned FETI methods, and performance comparisons with a direct sparse solver. , 1999, 46, 501.		1
68	The two-level FETI method Part II: Extension to shell problems, parallel implementation and performance results. Computer Methods in Applied Mechanics and Engineering, 1998, 155, 153-179.	3.4	86
69	The two-level FETI method for static and dynamic plate problems Part I: An optimal iterative solver for biharmonic systems. Computer Methods in Applied Mechanics and Engineering, 1998, 155, 129-151.	3.4	132
70	A NeumannNeumann Domain Decomposition Algorithm for Solving Plate and Shell Problems. SIAM Journal on Numerical Analysis, 1998, 35, 836-867.	1.1	77
71	Multigrid Methods for Nearly Singular Linear Equations and Eigenvalue Problems. SIAM Journal on Numerical Analysis, 1997, 34, 178-200.	1.1	29
72	Balancing domain decomposition for problems with large jumps in coefficients. Mathematics of Computation, 1996, 65, 1387-1402.	1.1	135

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73	Convergence of a substructuring method with Lagrange multipliers. Numerische Mathematik, 1996, 73, 473-487.	0.9	123
74	Algebraic multigrid by smoothed aggregation for second and fourth order elliptic problems. Computing (Vienna/New York), 1996, 56, 179-196.	3.2	558
75	Iterative methods for p-version finite elements: preconditioning thin solids. Computer Methods in Applied Mechanics and Engineering, 1996, 133, 247-257.	3.4	19
76	A scalable Lagrange multiplier based domain decomposition method for time-dependent problems. International Journal for Numerical Methods in Engineering, 1995, 38, 3831-3853.	1.5	104
77	Balancing domain decomposition for mixed finite elements. Mathematics of Computation, 1995, 64, 989-1015.	1.1	70
78	Iterative Solution for Thin Solid P-Version Elements. , 1995, , 445-450.		0
79	An iterative solver for p-version finite elements in three dimensions. Computer Methods in Applied Mechanics and Engineering, 1994, 116, 175-183.	3.4	16
80	Optimal convergence properties of the FETI domain decomposition method. Computer Methods in Applied Mechanics and Engineering, 1994, 115, 365-385.	3.4	290
81	Balancing domain decomposition. Communications in Numerical Methods in Engineering, 1993, 9, 233-241.	1.3	428
82	The Finite Volume Element Method for Diffusion Equations on General Triangulations. SIAM Journal on Numerical Analysis, 1991, 28, 392-402.	1.1	194
83	Some Recent Advances in Multigrid Methods. Advances in Electronics and Electron Physics, 1991, , 327-377.	0.6	2
84	Domain decomposition preconditioning for p-version finite elements with high aspect ratios. Applied Numerical Mathematics, 1991, 8, 411-425.	1.2	13
85	On the spectra of sums of orthogonal projections with applications to parallel computing. BIT Numerical Mathematics, 1991, 31, 76-88.	1.0	64
86	On block diagonal and Schur complement preconditioning. Numerische Mathematik, 1990, 58, 79-93.	0.9	45
87	Two-level domain decomposition preconditioning for thep-version finite element method in three dimensions. International Journal for Numerical Methods in Engineering, 1990, 29, 1095-1108.	1.5	64
88	Iterative solvers by substructuring for the p-version finite element method. Computer Methods in Applied Mechanics and Engineering, 1990, 80, 117-128.	3.4	69
89	On the multigrid F-cycle. Applied Mathematics and Computation, 1990, 37, 19-36.	1.4	16
90	Fast Hybrid Solution of Algebraic Systems. SIAM Journal on Scientific and Statistical Computing, 1990, 11, 1073-1086.	1.5	8

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91	A multilevel variational method for Au = λBu on composite grids. Journal of Computational Physics, 1989, 80, 442-452.	1.9	46
92	Algebraic study of multigrid methods for symmetric, definite problems. Applied Mathematics and Computation, 1988, 25, 39-56.	1.4	24
93	An Algebraic Theory for Multigrid Methods for Variational Problems. SIAM Journal on Numerical Analysis, 1988, 25, 91-110.	1.1	45
94	Convergence of Finite Elements for Transonic Potential Flows. SIAM Journal on Numerical Analysis, 1987, 24, 985-996.	1.1	11
95	A multigrid method for three-dimensional elasticity and algebraic convergence estimates. Applied Mathematics and Computation, 1987, 23, 121-135.	1.4	30
96	On multigrid and iterative aggregation methods for nonsymmetric problems. Lecture Notes in Mathematics, 1986, , 219-231.	0.1	1
97	Multigrid convergence for nonsymmetric, indefinite variational problems and one smoothing step. Applied Mathematics and Computation, 1986, 19, 201-216.	1.4	49
98	On multilevel iterative methods for integral equations of the second kind and related problems. Numerische Mathematik, 1985, 46, 147-157.	0.9	21
99	A convergence analysis of the iterative aggregation method with one parameter. Linear Algebra and Its Applications, 1984, 59, 159-169.	0.4	5
100	A multilevel iterative method for symmetric, positive definite linear complementarity problems. Applied Mathematics and Optimization, 1984, 11, 77-95.	0.8	69
101	Convergence of the cyclical relaxation method for linear inequalities. Mathematical Programming, 1984, 30, 218-228.	1.6	30
102	A local convergence proof for the iterative aggregation method. Linear Algebra and Its Applications, 1983, 51, 163-172.	0.4	38
103	Data assimilation of satellite fire detection in coupled atmosphere-fire simulation by wrf-sfire. , 0, , 716-725.		3