

# Aaron Luttmann

## List of Publications by Year in descending order

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32  
papers

378  
citations

840776

11  
h-index

794594

19  
g-index

37  
all docs

37  
docs citations

37  
times ranked

237  
citing authors

#	ARTICLE	IF	CITATIONS
1	Total variation-penalized Poisson likelihood estimation for ill-posed problems. <i>Advances in Computational Mathematics</i> , 2009, 31, 35-59.	1.6	54
2	Uniform algebra isomorphisms and peripheral multiplicativity. <i>Proceedings of the American Mathematical Society</i> , 2007, 135, 3589-3599.	0.8	50
3	High-resolution climate change mapping with gridded historical climate products. <i>Landscape Ecology</i> , 2012, 27, 327-342.	4.2	25
4	Norm conditions for uniform algebra isomorphisms. <i>Central European Journal of Mathematics</i> , 2008, 6, 272-280.	0.7	24
5	Weakly peripherally multiplicative surjections of pointed Lipschitz algebras. <i>Rocky Mountain Journal of Mathematics</i> , 2010, 40, .	0.4	19
6	MEASURABLE DYNAMICS ANALYSIS OF TRANSPORT IN THE GULF OF MEXICO DURING THE OIL SPILL. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2012, 22, 1230012.	1.7	19
7	Algebra isomorphisms between standard operator algebras. <i>Studia Mathematica</i> , 2009, 191, 163-170.	0.7	16
8	Bayesian Abel Inversion in Quantitative X-Ray Radiography. <i>SIAM Journal of Scientific Computing</i> , 2016, 38, B396-B413.	2.8	13
9	A framework for estimating potential fluid flow from digital imagery. <i>Chaos</i> , 2013, 23, 033134.	2.5	12
10	Sampling-based uncertainty quantification in deconvolution of X-ray radiographs. <i>Journal of Computational and Applied Mathematics</i> , 2014, 270, 43-51.	2.0	12
11	A stochastic approach to quantifying the blur with uncertainty estimation for high-energy X-ray imaging systems. <i>Inverse Problems in Science and Engineering</i> , 2016, 24, 353-371.	1.2	11
12	Reduced order modeling for accelerated Monte Carlo simulations in radiation transport. <i>Applied Mathematics and Computation</i> , 2015, 267, 237-251.	2.2	9
13	A Stream Function Approach to Optical Flow with Applications to Fluid Transport Dynamics. <i>Proceedings in Applied Mathematics and Mechanics</i> , 2011, 11, 855-856.	0.2	8
14	Generalizations of weakly peripherally multiplicative maps between uniform algebras. <i>Journal of Mathematical Analysis and Applications</i> , 2011, 375, 108-117.	1.0	8
15	Point Spread Function Estimation in X-Ray Imaging with Partially Collapsed Gibbs Sampling. <i>SIAM Journal of Scientific Computing</i> , 2018, 40, B766-B787.	2.8	7
16	A METROPOLIS-HASTINGS METHOD FOR LINEAR INVERSE PROBLEMS WITH POISSON LIKELIHOOD AND GAUSSIAN PRIOR. , 2016, 6, 35-55.		7
17	Dealing with boundary artifacts in MCMC-based deconvolution. <i>Linear Algebra and Its Applications</i> , 2015, 473, 339-358.	0.9	6
18	Numerical analysis of pattern formation on the surface of transpiring leaves. <i>Physica D: Nonlinear Phenomena</i> , 2007, 232, 142-155.	2.8	5

#	ARTICLE	IF	CITATIONS
19	Generalized Strong Boundary Points and Boundaries of Families of Continuous Functions. Mediterranean Journal of Mathematics, 2012, 9, 337-355.	0.8	4
20	Benchmarking Surface Position from Laser Velocimetry with High-Speed Video in Impact Experiments. Procedia Engineering, 2015, 103, 221-229.	1.2	4
21	Generalized weak peripheral multiplicativity in algebras of Lipschitz functions. Open Mathematics, 2013, 11, .	1.0	3
22	A Variational Approach to Video Segmentation for Botanical Data. SIAM Journal of Scientific Computing, 2007, 29, 1550-1566.	2.8	2
23	Interdisciplinary Biomathematics: Engaging Undergraduates in Research on the Fringe of Mathematical Biology. Primus, 2013, 23, 815-828.	0.5	2
24	Polynomial identification in uniform and operator algebras. Annals of Functional Analysis, 2010, 1, 105-122.	0.8	1
25	A theoretical analysis of L1 regularized Poisson likelihood estimation. Inverse Problems in Science and Engineering, 2010, 18, 251-264.	1.2	1
26	A generalized Peano Kernel Theorem for distributions of exponential decay. Journal of Mathematical Analysis and Applications, 2016, 433, 622-641.	1.0	1
27	Tomographic Reconstruction of the Neutron Time-Dependent Energy Spectrum From a Dense Plasma Focus. IEEE Transactions on Plasma Science, 2020, 48, 3135-3143.	1.3	1
28	A blocking scheme for dimension-robust Gibbs sampling in large-scale image deblurring. Inverse Problems in Science and Engineering, 2021, 29, 1789-1810.	1.2	1
29	Boundaries of weak peak points in noncommutative algebras of Lipschitz functions. Central European Journal of Mathematics, 2012, 10, 646-655.	0.7	0
30	On the Generality of Assuming that a Family of Continuous Functions Separates Points. Mediterranean Journal of Mathematics, 2013, 10, 1917-1935.	0.8	0
31	Simultaneous Stochastic Approximation for the spectroscopic reconstruction of neutron distributions. , 2013, , .		0
32	Vertically Integrating Professional Skills Throughout A Mathematics Major. Primus, 2014, 24, 301-308.	0.5	0