

# Andreas Alpers

## List of Publications by Year in descending order

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Version: 2024-02-01

20  
papers

326  
citations

933447

10  
h-index

839539

18  
g-index

20  
all docs

20  
docs citations

20  
times ranked

288  
citing authors

#	ARTICLE	IF	CITATIONS
1	Measurements of 3D slip velocities and plasma column lengths of a gliding arc discharge. Applied Physics Letters, 2015, 106, .	3.3	53
2	A discrete tomography algorithm for improving the quality of three-dimensional X-ray diffraction grain maps. Journal of Applied Crystallography, 2006, 39, 582-588.	4.5	40
3	On Stability, Error Correction, and Noise Compensation in Discrete Tomography. SIAM Journal on Discrete Mathematics, 2006, 20, 227-239.	0.8	32
4	Generalized balanced power diagrams for 3D representations of polycrystals. Philosophical Magazine, 2015, 95, 1016-1028.	1.6	31
5	Geometric reconstruction methods for electron tomography. Ultramicroscopy, 2013, 128, 42-54.	1.9	27
6	Stability and Instability in Discrete Tomography. Lecture Notes in Computer Science, 2001, , 175-186.	1.3	19
7	The two-dimensional Prouhet-“Tarry-“Escott problem. Journal of Number Theory, 2007, 123, 403-412.	0.4	18
8	Stability results for the reconstruction of binary pictures from two projections. Image and Vision Computing, 2007, 25, 1599-1608.	4.5	16
9	3D particle tracking velocimetry using dynamic discrete tomography. Computer Physics Communications, 2015, 187, 130-136.	7.5	15
10	Digital Topology: Regular Sets and Root Images of the Cross-Median Filter. Journal of Mathematical Imaging and Vision, 2002, 17, 7-14.	1.3	13
11	Resolving Ambiguities in Reconstructed Grain Maps using Discrete Tomography. Electronic Notes in Discrete Mathematics, 2005, 20, 419-437.	0.4	8
12	The smallest sets of points not determined by their X-rays. Bulletin of the London Mathematical Society, 2015, 47, 171-176.	0.8	8
13	Phase retrieval for superposed signals from multiple binary objects. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2010, 27, 1927.	1.5	7
14	Dynamic discrete tomography. Inverse Problems, 2018, 34, 034003.	2.0	7
15	On Double-Resolution Imaging and Discrete Tomography. SIAM Journal on Discrete Mathematics, 2018, 32, 1369-1399.	0.8	7
16	A greedy method for reconstructing polycrystals from three-dimensional X-ray diffraction data. Inverse Problems and Imaging, 2009, 3, 69-85.	1.1	7
17	Teaching Computational Discrete Optimization at the Undergraduate Level. INFORMS Transactions on Education, 2009, 9, 63-69.	0.5	6
18	Reconstructing Binary Matrices under Window Constraints from their Row and Column Sums. Fundamenta Informaticae, 2017, 155, 321-340.	0.4	5

#	ARTICLE	IF	CITATIONS
19	On the Stability of Reconstructing Lattice Sets from X-rays Along Two Directions. Lecture Notes in Computer Science, 2005, , 92-103.	1.3	4
20	13. On the reconstruction of static and dynamic discrete structures. , 2019, , 297-342.		3