

# Shlomo Ta'asan

## List of Publications by Year in descending order

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28  
papers

749  
citations

687220

13  
h-index

580701

25  
g-index

28  
all docs

28  
docs citations

28  
times ranked

812  
citing authors

#	ARTICLE	IF	CITATIONS
1	Grain growth and the puzzle of its stagnation in thin films: The curious tale of a tail and an ear. Progress in Materials Science, 2013, 58, 987-1055.	16.0	96
2	Development of multimarker panel for early detection of endometrial cancer. High diagnostic power of prolactin. Gynecologic Oncology, 2007, 107, 58-65.	0.6	93
3	Multiplex Assessment of Serum Biomarker Concentrations in Well-Appearing Children With Inflicted Traumatic Brain Injury. Pediatric Research, 2009, 65, 97-102.	1.1	76
4	Grain boundary energy and grain growth in Al films: Comparison of experiments and simulations. Scripta Materialia, 2006, 54, 1059-1063.	2.6	63
5	Extracting Grain Boundary and Surface Energy from Measurement of Triple Junction Geometry. Journal of Materials Science, 1999, 7, 321-337.	1.2	58
6	Evidence-based modeling of critical illness: an initial consensus from the Society for Complexity in Acute Illness. Journal of Critical Care, 2007, 22, 77-84.	1.0	54
7	Extracting the relative grain boundary free energy and mobility functions from the geometry of microstructures. Scripta Materialia, 1998, 38, 531-536.	2.6	47
8	A Variational Approach to Modeling and Simulation of Grain Growth. SIAM Journal of Scientific Computing, 2006, 28, 1694-1715.	1.3	44
9	Critical events, entropy, and the grain boundary character distribution. Physical Review B, 2011, 83, .	1.1	35
10	Analysis of the Hessian for aerodynamic optimization: inviscid flow. Computers and Fluids, 1999, 28, 853-877.	1.3	27
11	Mesoscale Simulation of the Evolution of the Grain Boundary Character Distribution. Materials Science Forum, 2004, 467-470, 1063-1068.	0.3	27
12	Towards a Statistical Theory of Texture Evolution in Polycrystals. SIAM Journal of Scientific Computing, 2008, 30, 3150-3169.	1.3	18
13	New Insights into Mathematical Modeling of the Immune System. Immunologic Research, 2006, 36, 157-166.	1.3	15
14	Grain Growth and the Puzzle of its Stagnation in Thin Films a Detailed Comparison of Experiments and Simulations. Materials Science Forum, 0, 715-716, 473-479.	0.3	14
15	An entropy based theory of the grain boundary character distribution. Discrete and Continuous Dynamical Systems, 2011, 30, 427-454.	0.5	14
16	Numerical Analysis of the Vertex Models for Simulating Grain Boundary Networks. SIAM Journal on Applied Mathematics, 2015, 75, 762-786.	0.8	12
17	Mesoscale Simulation of Grain Growth. Materials Science Forum, 2004, 467-470, 1057-1062.	0.3	9
18	The Surface Energy of MgO: Multiscale Reconstruction from Thermal Groove Geometry. Journal of Materials Science, 2002, 10, 233-242.	1.2	8

#	ARTICLE	IF	CITATIONS
19	Evaluating Spatial Constraints in Cellular Assembly Processes Using a Monte Carlo Approach. Cell Biochemistry and Biophysics, 2006, 45, 195-202.	0.9	8
20	Fourier-Laplace analysis of the multigrid waveform relaxation method for hyperbolic equations. BIT Numerical Mathematics, 1996, 36, 831-841.	1.0	6
21	Grain Boundary Properties and Grain Growth: Al Foils, Al Films. Materials Research Society Symposia Proceedings, 2004, 819, N6.6.1.	0.1	6
22	Modeling molecular interactions to understand spatial crowding effects on heterodimer formations. Physical Review E, 2007, 76, 041904.	0.8	6
23	An Approach to the Mesoscale Simulation of Grain Growth. Materials Research Society Symposia Proceedings, 2000, 652, 1.	0.1	4
24	Grain Boundary Energy and Grain Growth in Highly-Textured Al Films and Foils: Experiment and Simulation. Materials Science Forum, 2005, 495-497, 1255-1260.	0.3	4
25	Predictive Theory for the Grain Boundary Character Distribution. Materials Science Forum, 2012, 715-716, 279-285.	0.3	3
26	Topology-faithful nonparametric estimation and tracking of bulk interface networks. Computational Materials Science, 2016, 125, 328-340.	1.4	2
27	Simultaneous multigrid techniques for the computation of close frequency eigenmodes in resonant cavities. , 1995, , .		0
28	The large discretization step method for time-dependent partial differential equations. Computers and Fluids, 1999, 28, 573-602.	1.3	0