

# Edward H Adelson

## List of Publications by Year in descending order

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Version: 2024-02-01

30  
papers

9,854  
citations

304602

22  
h-index

610775

24  
g-index

30  
all docs

30  
docs citations

30  
times ranked

4263  
citing authors

#	ARTICLE	IF	CITATIONS
1	Spatiotemporal energy models for the perception of motion. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 1985, 2, 284.	0.8	2,932
2	Phenomenal coherence of moving visual patterns. Nature, 1982, 300, 523-525.	13.7	1,068
3	Motion illusions as optimal percepts. Nature Neuroscience, 2002, 5, 598-604.	7.1	865
4	The Analysis of Moving Visual Patterns. Experimental Brain Research Supplementum, 1985, , 117-151.	1.0	556
5	Perceptual organization and the judgment of brightness. Science, 1993, 262, 2042-2044.	6.0	550
6	Image statistics and the perception of surface qualities. Nature, 2007, 447, 206-209.	13.7	531
7	GelSight: High-Resolution Robot Tactile Sensors for Estimating Geometry and Force. Sensors, 2017, 17, 2762.	2.1	470
8	Real-world illumination and the perception of surface reflectance properties. Journal of Vision, 2003, 3, 3.	0.1	351
9	Early vision and texture perception. Nature, 1988, 333, 363-364.	13.7	312
10	Directionally selective complex cells and the computation of motion energy in cat visual cortex. Vision Research, 1992, 32, 203-218.	0.7	300
11	Motion illusions as optimal percepts. Nature Neuroscience, 2002, 5, 598-604.	7.1	253
12	Specular reflections and the perception of shape. Journal of Vision, 2004, 4, 10.	0.1	249
13	<title>On seeing stuff: the perception of materials by humans and machines</title>. , 2001, , .		181
14	Exploring features in a Bayesian framework for material recognition. , 2010, , .		162
15	Saturation and adaptation in the rod system. Vision Research, 1982, 22, 1299-1312.	0.7	146
16	Recognizing Materials Using Perceptually Inspired Features. International Journal of Computer Vision, 2013, 103, 348-371.	10.9	133
17	Statistical characterization of real-world illumination. Journal of Vision, 2004, 4, 11.	0.1	115
18	Image statistics for surface reflectance perception. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2008, 25, 846.	0.8	104

#	ARTICLE	IF	CITATIONS
19	Accuracy and speed of material categorization in real-world images. <i>Journal of Vision</i> , 2014, 14, 12-12.	0.1	104
20	Discovering states and transformations in image collections. , 2015, , .		95
21	Active Clothing Material Perception Using Tactile Sensing and Deep Learning. , 2018, , .		66
22	Adventures with Gelatinous Ellipsesâ€”Constraints on Models of Human Motion Analysis. <i>Perception</i> , 2000, 29, 543-566.	0.5	64
23	Understanding the role of phase function in translucent appearance. <i>ACM Transactions on Graphics</i> , 2013, 32, 1-19.	4.9	62
24	Beyond Junctions: Nonlocal form Constraints on Motion Interpretation. <i>Perception</i> , 2001, 30, 905-923.	0.5	57
25	Visual wetness perception based on image color statistics. <i>Journal of Vision</i> , 2017, 17, 7.	0.1	35
26	The geometry of the occluding contour and its effect on motion interpretation. <i>Journal of Vision</i> , 2004, 4, 9.	0.1	27
27	On the appearance of translucent edges. , 2015, , .		23
28	The delayed rod afterimage. <i>Vision Research</i> , 1982, 22, 1313-1328.	0.7	22
29	Junctions and cost functions in motion interpretation. <i>Journal of Vision</i> , 2004, 4, 3.	0.1	11
30	Image statistics and surface perception. , 2008, , .		10