

# Hakan Urey

## List of Publications by Year in descending order

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56  
papers

1,351  
citations

471509

17  
h-index

345221

36  
g-index

57  
all docs

57  
docs citations

57  
times ranked

1087  
citing authors

#	ARTICLE	IF	CITATIONS
1	MEMS Laser Scanners: A Review. Journal of Microelectromechanical Systems, 2014, 23, 259-275.	2.5	365
2	Resonant PZT MEMS Scanner for High-Resolution Displays. Journal of Microelectromechanical Systems, 2012, 21, 1303-1310.	2.5	105
3	Modeling and characterization of comb-actuated resonant microscanners. Journal of Micromechanics and Microengineering, 2006, 16, 9-16.	2.6	89
4	Fabrication of 1D ZnO nanostructures on MEMS cantilever for VOC sensor application. Sensors and Actuators B: Chemical, 2014, 202, 357-364.	7.8	83
5	Spot size, depth-of-focus, and diffraction ring intensity formulas for truncated Gaussian beams. Applied Optics, 2004, 43, 620.	2.1	82
6	Comb-Actuated Resonant Torsional Microscanner With Mechanical Amplification. Journal of Microelectromechanical Systems, 2010, 19, 936-943.	2.5	82
7	Polymer magnetic scanners for bar code applications. Sensors and Actuators A: Physical, 2007, 135, 236-243.	4.1	61
8	Microlens-array-based exit-pupil expander for full-color displays. Applied Optics, 2005, 44, 4930.	2.1	58
9	Vibration mode frequency formulae for micromechanical scanners. Journal of Micromechanics and Microengineering, 2005, 15, 1713-1721.	2.6	53
10	Electromagnetically Actuated FR4 Scanners. IEEE Photonics Technology Letters, 2008, 20, 30-32.	2.5	39
11	NiFe Plated Biaxial MEMS Scanner for 2-D Imaging. IEEE Photonics Technology Letters, 2007, 19, 330-332.	2.5	32
12	Applications of augmented reality in ophthalmology [Invited]. Biomedical Optics Express, 2021, 12, 511.	2.9	28
13	Transmission characteristics of a bidirectional transparent screen based on reflective microlenses. Optics Express, 2013, 21, 24636.	3.4	27
14	Head-mounted mixed reality projection display for games production and entertainment. Personal and Ubiquitous Computing, 2015, 19, 509-521.	2.8	21
15	RGB Magnetophotonic Crystals for High-contrast Magneto-optical Spatial Light Modulators. Scientific Reports, 2019, 9, 644.	3.3	21
16	Two-Wavelength Grating Interferometry for MEMS Sensors. IEEE Photonics Technology Letters, 2007, 19, 1895-1897.	2.5	20
17	Foveated near-eye display using computational holography. Scientific Reports, 2020, 10, 14905.	3.3	20
18	Lamellar-Grating-Based MEMS Fourier Transform Spectrometer. Journal of Microelectromechanical Systems, 2012, 21, 331-339.	2.5	17

#	ARTICLE	IF	CITATIONS
19	FR4 Laser Scanner With Dynamic Focus. IEEE Photonics Technology Letters, 2009, 21, 233-235.	2.5	14
20	Portable 3D Laser Projector Using Mixed Polarization Technique. Journal of Display Technology, 2012, 8, 582-589.	1.2	12
21	Advanced Materials and Device Architectures for Magneto-optical Spatial Light Modulators. Advanced Optical Materials, 2020, 8, 1901381.	7.3	12
22	Two-Dimensional MEMS Stage Integrated With Microlens Arrays for Laser Beam Steering. Journal of Microelectromechanical Systems, 2011, 20, 15-17.	2.5	10
23	A 35- $\mu\text{m}$ Pitch IR Thermo-Mechanical MEMS Sensor With AC-Coupled Optical Readout. IEEE Journal of Selected Topics in Quantum Electronics, 2015, 21, 87-92.	2.9	9
24	A high-frequency comb-actuated resonant MEMS scanner for microdisplays. , 2011, , .		7
25	Label-Free and High-Throughput Detection of Biomolecular Interactions Using a Flatbed Scanner Biosensor. ACS Sensors, 2017, 2, 1424-1429.	7.8	7
26	Label-free detection of nanoparticles using depth scanning correlation interferometric microscopy. Scientific Reports, 2019, 9, 9012.	3.3	7
27	Pupil steering holographic display for pre-operative vision screening of cataracts. Biomedical Optics Express, 2021, 12, 7752.	2.9	7
28	Mechanically coupled comb drive MEMS stages. , 2008, , .		6
29	Scanning fiber microdisplay: design, implementation, and comparison to MEMS mirror-based scanning displays. Optics Express, 2018, 26, 5576.	3.4	6
30	Intrinsic Auricular Muscle Zone Stimulation Improves Walking Parameters of Parkinson's Patients Faster Than Levodopa in the Motion Capture Analysis: A Pilot Study. Frontiers in Neurology, 2020, 11, 546123.	2.4	6
31	Linear-Stiffness Rotary MEMS Stage. Journal of Microelectromechanical Systems, 2012, 21, 514-516.	2.5	5
32	Integrated 3D display and imaging using dual purpose passive screen and head-mounted projectors and camera. Optics Express, 2018, 26, 1161.	3.4	5
33	Laser scanning based autostereoscopic 3D display with pupil tracking. , 2009, , .		4
34	Next Generation Augmented Reality Displays. , 2018, , .		4
35	Broadband Enhancement of Faraday Effect Using Magnetoplasmonic Metasurfaces. Plasmonics, 2021, 16, 521-531.	3.4	4
36	Light engine and optics for HELIUM3D auto-stereoscopic laser scanning display. , 2011, , .		3

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37	Visual acuity response when using the 3D head-up display in the presence of an accommodation-convergence conflict. Journal of Information Display, 2020, 21, 93-101.	4.0	3
38	Advanced imaging with dynamic focus and extended depth using integrated FR4 platform. Optics Express, 2009, 17, 17179.	3.4	2
39	48.4: Beam Forming for a Laser Based Auto-steroscopic Multi-Viewer Display. Digest of Technical Papers SID International Symposium, 2011, 42, 702-705.	0.3	2
40	Resonant PZT MEMS scanners with integrated angle sensors. , 2014, , .		2
41	See-Through Head-Worn Display (HWD) Architectures. , 2016, , 2929-2961.		2
42	Coagulation measurement from whole blood using vibrating optical fiber in a disposable cartridge. Journal of Biomedical Optics, 2017, 22, 1.	2.6	2
43	MOEMS thermal imaging camera. , 2008, , .		1
44	Optical characterization of micro and nanomechanical systems in two dimensions. Sensors and Actuators A: Physical, 2009, 156, 217-221.	4.1	1
45	Paper No 187L: Late News Poster: Improved 3D with Super Stereoscapy Technique. Digest of Technical Papers SID International Symposium, 2014, 45, 1067-1069.	0.3	1
46	Head tracked retroreflecting 3D display. Journal of the Society for Information Display, 2015, 23, 56-68.	2.1	1
47	A Prism-Based Optical Readout Method for MEMS Bimaterial Infrared Sensors. IEEE Photonics Technology Letters, 2016, 28, 1866-1869.	2.5	1
48	Wearable and augmented reality displays using MEMS and SLMs. Proceedings of SPIE, 2016, , .	0.8	1
49	See-Through Head-Worn Display (HWD) Architectures. , 2015, , 1-32.		1
50	NiFe Plated Biaxial Magnetostatic MEMS Scanner. , 2007, , .		0
51	Miniaturized FR4 spectrometers. , 2009, , .		0
52	Self-oscillating FR4 laser scanner with integrated dynamic focus and extended imaging range. , 2009, , .		0
53	MEMS Fourier Transform Spectrometer. , 2011, , .		0
54	Paper No 15.2: Head-Trackred Retroreflecting 3D Display. Digest of Technical Papers SID International Symposium, 2013, 44, 247-250.	0.3	0

#	ARTICLE	IF	CITATIONS
55	Super stereoscopy 3D glasses for more realistic 3D vision. , 2014, , .		0
56	Wave optics analysis of corner-cube retro-reflectors in near-to-eye displays based on scanning laser projectors. Proceedings of SPIE, 2015, , .	0.8	0