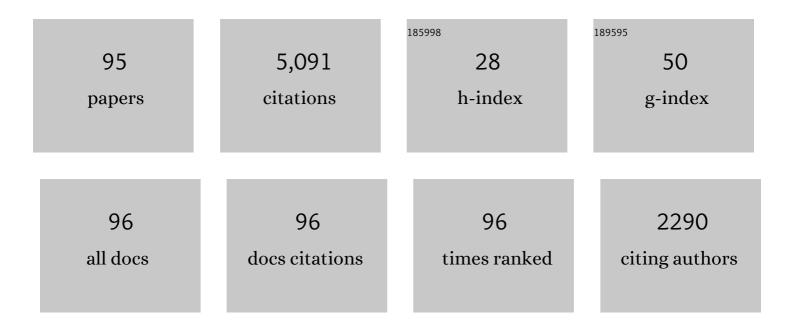
Henry Fuchs

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/11050355/publications.pdf Version: 2024-02-01



| # | Article | IF | CITATIONS |
|----|---|------------------------|---------------|
| 1 | The office of the future. , 1998, , . | | 581 |
| 2 | Merging virtual objects with the real world. Computer Graphics, 1992, 26, 203-210. | 0.1 | 300 |
| 3 | On visible surface generation by a priori tree structures. , 1980, , . | | 281 |
| 4 | Optical Versus Video See-Through Head-Mounted Displays in Medical Visualization. Presence: Teleoperators and Virtual Environments, 2000, 9, 287-309. | 0.3 | 267 |
| 5 | Augmented reality visualization for laparoscopic surgery. Lecture Notes in Computer Science, 1998, , 934-943. | 1.0 | 172 |
| 6 | Technologies for augmented reality systems. , 1996, , . | | 152 |
| 7 | Encumbrance-free telepresence system with real-time 3D capture and display using commodity depth cameras. , 2011, , . | | 143 |
| 8 | Fast spheres, shadows, textures, transparencies, and imgage enhancements in pixel-planes. Computer Graphics, 1985, 19, 111-120. | 0.1 | 138 |
| 9 | Pixel-planes 5: a heterogeneous multiprocessor graphics system using processor-enhanced memories. Computer Graphics, 1989, 23, 79-88. | 0.1 | 131 |
| 10 | Wide Field Of View Varifocal Near-Eye Display Using See-Through Deformable Membrane Mirrors. IEEE Transactions on Visualization and Computer Graphics, 2017, 23, 1322-1331. | 2.9 | 126 |
| 11 | Evaluation of Reorientation Techniques and Distractors for Walking in Large Virtual Environments. IEEE Transactions on Visualization and Computer Graphics, 2009, 15, 383-394. | 2.9 | 119 |
| 12 | Augmented reality guidance for needle biopsies: An initial randomized, controlled trial in phantomsâ€â€A preliminary version of this paper was presented at the Medical Image Computing and Computer-Assisted Intervention (MICCAI) 2001 conference in Utrecht. The Netherlands (Rosenthal et) Tj ETQq0 | 0 ₫ [.] gbt / | 0verlock 10 1 |
| 13 | Wirtinger holography for near-eye displays. ACM Transactions on Graphics, 2019, 38, 1-13. | 4.9 | 105 |
| 14 | Pinlight displays. ACM Transactions on Graphics, 2014, 33, 1-11. | 4.9 | 100 |
| 15 | 3D scanning deformable objects with a single RGBD sensor. , 2015, , . | | 97 |
| 16 | <title>Comparison of optical and video see-through, head-mounted displays</title> . , 1995, 2351, 293. | | 83 |
| 17 | Image rendering by adaptive refinement. Computer Graphics, 1986, 20, 29-37. | 0.1 | 81 |
| 18 | Reducing interference between multiple structured light depth sensors using motion. , 2012, , . | | 80 |

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| # | Article | IF | CITATIONS |
|----|--|-----|-----------|
| 19 | From Motion to Photons in 80 Microseconds: Towards Minimal Latency for Virtual and Augmented Reality. IEEE Transactions on Visualization and Computer Graphics, 2016, 22, 1367-1376. | 2.9 | 75 |
| 20 | Computational augmented reality eyeglasses. , 2013, , . | | 74 |
| 21 | Near real-time shaded display of rigid objects. Computer Graphics, 1983, 17, 65-72. | 0.1 | 71 |
| 22 | Immersive 3D Telepresence. Computer, 2014, 47, 46-52. | 1.2 | 71 |
| 23 | Learned hardware-in-the-loop phase retrieval for holographic near-eye displays. ACM Transactions on Graphics, 2020, 39, 1-18. | 4.9 | 71 |
| 24 | A demonstrated optical tracker with scalable work area for head-mounted display systems. , 1992, , . | | 69 |
| 25 | Improved Redirection with Distractors: A large-scale-real-walking locomotion interface and its effect on navigation in virtual environments. , 2010, 2010, 35-38. | | 69 |
| 26 | Focus 3D. ACM Transactions on Graphics, 2013, 32, 1-13. | 4.9 | 65 |
| 27 | An Extended Depth-at-Field Volumetric Near-Eye Augmented Reality Display. IEEE Transactions on Visualization and Computer Graphics, 2018, 24, 2857-2866. | 2.9 | 64 |
| 28 | An evaluation of navigational ability comparing Redirected Free Exploration with Distractors to Walking-in-Place and joystick locomotio interfaces. , 2011, , 55-62. | | 61 |
| 29 | Enhanced personal autostereoscopic telepresence system using commodity depth cameras. Computers and Graphics, 2012, 36, 791-807. | 1.4 | 60 |
| 30 | The Design and Evaluation of a Large-Scale Real-Walking Locomotion Interface. IEEE Transactions on Visualization and Computer Graphics, 2012, 18, 1053-1067. | 2.9 | 58 |
| 31 | Near real-time shaded display of rigid objects. , 1983, , . | | 55 |
| 32 | Life-sized projector-based dioramas. , 2001, , . | | 55 |
| 33 | FocusAR: Auto-focus Augmented Reality Eyeglasses for both Real World and Virtual Imagery. IEEE Transactions on Visualization and Computer Graphics, 2018, 24, 2906-2916. | 2.9 | 54 |
| 34 | Towards performing ultrasound-guided needle biopsies from within a head-mounted display. Lecture Notes in Computer Science, 1996, , 591-600. | 1.0 | 53 |
| 35 | General-purpose telepresence with head-worn optical see-through displays and projector-based lighting. , 2013, , . | | 49 |
| 36 | Fast constructive-solid geometry display in the pixel-powers graphics system. Computer Graphics, 1986, 20, 107-116. | 0.1 | 47 |

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| # | Article | IF | CITATIONS |
|----|---|-----|-----------|
| 37 | Manufacturing Application-Driven Foveated Near-Eye Displays. IEEE Transactions on Visualization and Computer Graphics, 2019, 25, 1928-1939. | 2.9 | 43 |
| 38 | Pinlight displays. , 2014, , . | | 42 |
| 39 | Minimizing latency for augmented reality displays: Frames considered harmful. , 2014, , . | | 38 |
| 40 | Varifocal Occlusion-Capable Optical See-through Augmented Reality Display based on Focus-tunable Optics. IEEE Transactions on Visualization and Computer Graphics, 2019, 25, 3125-3134. | 2.9 | 38 |
| 41 | Distributing a visible surface algorithm over multiple processors. , 1977, , . | | 37 |
| 42 | Head Mounted Displays for Medical Use. Journal of Display Technology, 2008, 4, 468-472. | 1.3 | 37 |
| 43 | Development of augmentedâ€reality applications in otolaryngology–head and neck surgery. Laryngoscope, 2019, 129, S1-S11. | 1.1 | 34 |
| 44 | Towards a Switchable AR/VR Near-eye Display with Accommodation-Vergence and Eyeglass Prescription Support. IEEE Transactions on Visualization and Computer Graphics, 2019, 25, 3114-3124. | 2.9 | 33 |
| 45 | An expandable multiprocessor architecture for video graphics (Preliminary Report). , 1979, , . | | 30 |
| 46 | Towards Fully Mobile 3D Face, Body, and Environment Capture Using Only Head-worn Cameras. IEEE Transactions on Visualization and Computer Graphics, 2018, 24, 2993-3004. | 2.9 | 30 |
| 47 | Real-time volumetric 3D capture of room-sized scenes for telepresence. , 2012, , . | | 28 |
| 48 | Adaptive Instant Displays: Continuously Calibrated Projections Using Per-Pixel Light Control. Computer Graphics Forum, 2005, 24, 705-714. | 1.8 | 27 |
| 49 | Augmented Reality Guidance for Needle Biopsies: A Randomized, Controlled Trial in Phantoms. Lecture Notes in Computer Science, 2001, , 240-248. | 1.0 | 27 |
| 50 | Generating smooth 2-D monocolor line drawings on video displays. Computer Graphics, 1979, 13, 260-269. | 0.1 | 23 |
| 51 | Gaze-Contingent Retinal Speckle Suppression for Perceptually-Matched Foveated Holographic Displays. IEEE Transactions on Visualization and Computer Graphics, 2021, 27, 4194-4203. | 2.9 | 22 |
| 52 | Real-Time Projector Tracking on Complex Geometry Using Ordinary Imagery. , 2007, , . | | 20 |
| 53 | Animatronic shader lamps avatars. Virtual Reality, 2011, 15, 225-238. | 4.1 | 19 |
| 54 | Temporally enhanced 3D capture of room-sized dynamic scenes with commodity depth cameras. , 2014, , | | 19 |

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| # | Article | IF | CITATIONS |
|----|--|-----|-----------|
| 55 | Image rendering by adaptive refinement. , 1986, , . | | 18 |
| 56 | Quadratic Surface Rendering on a Logic-Enhanced Frame-Buffer Memory. IEEE Computer Graphics and Applications, 1986, 6, 48-59. | 1.0 | 17 |
| 57 | A practical multi-viewer tabletop autostereoscopic display. , 2010, , . | | 17 |
| 58 | VISTAnet: interactive real-time calculation and display of 3-dimensional radiation dose: An application of gigabit networking. International Journal of Radiation Oncology Biology Physics, 1993, 25, 123-129. | 0.4 | 16 |
| 59 | A Distributed Cooperative Framework for Continuous Multi-Projector Pose Estimation. , 2009, , . | | 16 |
| 60 | Encumbrance-free telepresence system with real-time 3D capture and display using commodity depth cameras. , 2011, , . | | 16 |
| 61 | A real-time optical 3D tracker for head-mounted display systems. Computer Graphics, 1990, 24, 205-215. | 0.1 | 15 |
| 62 | Three-Dimensional High-Resolution Volume Rendering (HRVR) of Computed Tomography Data. Laryngoscope, 1991, 101, 573???582. | 1.1 | 14 |
| 63 | Mitigating vergence-accommodation conflict for near-eye displays via deformable beamsplitters. , 2018, , . | | 14 |
| 64 | Improved vergence and accommodation via Purkinje Image tracking with multiple cameras for AR glasses. , 2020, , . | | 14 |
| 65 | Combining Head-Mounted and Projector-Based Displays for Surgical Training. Presence: Teleoperators and Virtual Environments, 2004, 13, 128-145. | 0.3 | 12 |
| 66 | Random Hole Display: A non-uniform barrier autostereoscopic display. , 2009, , . | | 12 |
| 67 | Predetermining visibility priority in 3-D scenes (Preliminary Report). Computer Graphics, 1979, 13, 175-181. | 0.1 | 11 |
| 68 | Kinect Shadow Detection and Classification. , 2013, , . | | 9 |
| 69 | Scene-adaptive high dynamic range display for low latency augmented reality. , 2017, , . | | 9 |
| 70 | Hogel-Free Holography. ACM Transactions on Graphics, 2022, 41, 1-16. | 4.9 | 9 |
| 71 | Continual surface-based multi-projector blending for moving objects. , 2011, , . | | 8 |
| 72 | Wide field of view compressive light field display using a multilayer architecture and tracked viewers. Journal of the Society for Information Display, 2014, 22, 525-534. | 0.8 | 8 |

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| # | Article | IF | CITATIONS |
|----|--|-----|-----------|
| 73 | Membrane AR. , 2017, , . | | 8 |
| 74 | Real-world occlusion in optical see-through AR displays. , 2017, , . | | 8 |
| 75 | 10â€1: Towards Varifocal Augmented Reality Displays using Deformable Beamsplitter Membranes. Digest of Technical Papers SID International Symposium, 2018, 49, 92-95. | 0.1 | 8 |
| 76 | Simplified Belief Propagation for Multiple View Reconstruction. , 2006, , . | | 7 |
| 77 | Systems for Display of Three-Dimensional Medical Image Data. , 1990, , 315-331. | | 7 |
| 78 | Exploring the potential of video technologies for collaboration in emergency medical care: Part I. Information sharing. Journal of the Association for Information Science and Technology, 2008, 59, 2320-2334. | 2.6 | 6 |
| 79 | Exploring the potential of video technologies for collaboration in emergency medical care: Part II. Task performance. Journal of the Association for Information Science and Technology, 2008, 59, 2335-2349. | 2.6 | 6 |
| 80 | Optimizing placement of commodity depth cameras for known 3D dynamic scene capture. , 2017, , . | | 6 |
| 81 | Implementation and Evaluation of a 50 kHz, <inline-formula> <tex-math notation="LaTeX">\$28mumathrm{s}\$ </tex-math </inline-formula> Motion-to-Pose Latency Head Tracking Instrument. IEEE Transactions on Visualization and Computer Graphics, 2019, 25, 1970-1980. | 2.9 | 6 |
| 82 | Mobile. Egocentric Human Body Motion Reconstruction Using Only Eyeglasses-mounted Cameras and a Few Body-worn Inertial Sensors. , 2021, , . | | 6 |
| 83 | 36.1: Wide Field of View Compressive Light Field Display using a Multilayer Architecture and Tracked Viewers. Digest of Technical Papers SID International Symposium, 2014, 45, 509-512. | 0.1 | 5 |
| 84 | Computing high quality phase-only holograms for holographic displays. , 2020, , . | | 5 |
| 85 | Towards Eyeglass-style Holographic Near-eye Displays with Statically. , 2020, , . | | 5 |
| 86 | Enhancing A Laparoscopy Training System with Augmented Reality Visualization. , 2019, , . | | 4 |
| 87 | Optimizing a head-tracked stereo display system to guide hepatic tumor ablation. Studies in Health Technology and Informatics, 2008, 132, 126-31. | 0.2 | 4 |
| 88 | Immersive Learning Experiences for Surgical Procedures. Studies in Health Technology and Informatics, 2016, 220, 55-62. | 0.2 | 4 |
| 89 | Towards Efficient 3D Calibration for Different Types of Multi-view Autostereoscopic 3D Displays. , 2018, , . | | 3 |
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90 Steerable application-adaptive near eye displays. , 2018, , .

| # | Article | IF | CITATIONS |
|----|--|-----|-----------|
| 91 | Stimulating the Human Visual System Beyond Real World Performance in Future Augmented Reality Displays. , 2020, , . | | 3 |
| 92 | Faster feedback for remote scene viewing with pan-tilt stereo camera. , 2016, , . | | 2 |
| 93 | VLSI for Graphics. , 1987, , 281-294. | | 2 |
| 94 | The A-Desk: A Unified Workspace of the Future. IEEE Computer Graphics and Applications, 2020, 40, 56-71. | 1.0 | 1 |
| 95 | VLSI-Intensive Graphics Systems. , 1988, , 221-240. | | 0 |
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