Kevin de Haan

List of Publications by Year
in descending order

21 papers	1,461 citations	516215 16 h-index	839053 18 g-index
21 all docs	21 docs citations	21 times ranked	1434 citing authors

#	Article	IF	Citations
1	Virtual histological staining of unlabelled tissue-autofluorescence images via deep learning. Nature Biomedical Engineering, 2019, 3, 466-477.	11.6	397
2	PhaseStain: the digital staining of label-free quantitative phase microscopy images using deep learning. Light: Science and Applications, 2019, 8, 23.	7.7	241
3	Deep learning-based transformation of H&E stained tissues into special stains. Nature Communications, 2021, 12, 4884.	5.8	100
4	Bright-field holography: cross-modality deep learning enables snapshot 3D imaging with bright-field contrast using a single hologram. Light: Science and Applications, 2019, 8, 25.	7.7	98
5	Deep-Learning-Based Image Reconstruction and Enhancement in Optical Microscopy. Proceedings of the IEEE, 2020, 108, 30-50.	16.4	90
6	Deep learning-based super-resolution in coherent imaging systems. Scientific Reports, 2019, 9, 3926.	1.6	82
7	Digital synthesis of histological stains using micro-structured and multiplexed virtual staining of label-free tissue. Light: Science and Applications, 2020, 9, 78.	7.7	79
8	Resolution enhancement in scanning electron microscopy using deep learning. Scientific Reports, 2019, 9, 12050.	1.6	78
9	Automated screening of sickle cells using a smartphone-based microscope and deep learning. Npj Digital Medicine, 2020, 3, 76.	5.7	57
10	Emerging Advances to Transform Histopathology Using Virtual Staining. BME Frontiers, 2020, 2020, .	2.2	52
11	Deep Learning-Based Holographic Polarization Microscopy. ACS Photonics, 2020, 7, 3023-3034.	3.2	41
12	Deep learning‐based color holographic microscopy. Journal of Biophotonics, 2019, 12, e201900107.	1.1	36
13	Biopsy-free in vivo virtual histology of skin using deep learning. Light: Science and Applications, 2021, 10, 233.	7.7	36
14	Early detection of *E. coli* and total coliform using an automated, colorimetric and fluorometric fiber optics-based device. Lab on A Chip, 2019, 19, 2925-2935.	3.1	22
15	Phenotypic Analysis of Microalgae Populations Using Label-Free Imaging Flow Cytometry and Deep Learning. ACS Photonics, 2021, 8, 1232-1242.	3.2	21
16	Label-free detection of *Giardia lamblia* cysts using a deep learning-enabled portable imaging flow cytometer. Lab on A Chip, 2020, 20, 4404-4412.	3.1	17
17	Bead-based multiplex detection of dengue biomarkers in a portable imaging device. Biomedical Optics Express, 2020, 11, 6154.	1.5	8
18	Automatic segmentation of peripheral arteries and veins in ferumoxytol‐enhanced MR angiography. Magnetic Resonance in Medicine, 2022, 87, 984-998.	1.9	4

#	Article	IF	Citations
19	Holographic Reconstruction with Bright-field Microscopy Contrast using Cross-Modality Deep Learning. , 2019, , .		1
20	PhaseStain: Deep Learning-based Histological Staining of Quantitative Phase Images. , 2019, , .		1
21	Enhancing resolution in coherent microscopy using deep learning. , 2019, , .		0