

Zhenhua Hu

List of Publications by Year in descending order

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Version: 2024-02-01

41
papers

1,799
citations

331259

21
h-index

288905

40
g-index

42
all docs

42
docs citations

42
times ranked

1508
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | First-in-human liver-tumour surgery guided by multispectral fluorescence imaging in the visible and near-infrared-I/II windows. <i>Nature Biomedical Engineering</i> , 2020, 4, 259-271. | 11.6 | 622 |
| 2 | Experimental Cerenkov luminescence tomography of the mouse model with SPECT imaging validation. <i>Optics Express</i> , 2010, 18, 24441. | 1.7 | 118 |
| 3 | In vivo nanoparticle-mediated radiopharmaceutical-excited fluorescence molecular imaging. <i>Nature Communications</i> , 2015, 6, 7560. | 5.8 | 114 |
| 4 | A phosphorescent probe for in vivo imaging in the second near-infrared window. <i>Nature Biomedical Engineering</i> , 2022, 6, 629-639. | 11.6 | 67 |
| 5 | NIRF Nanoprobes for Cancer Molecular Imaging: Approaching Clinic. <i>Trends in Molecular Medicine</i> , 2020, 26, 469-482. | 3.5 | 63 |
| 6 | Classification of Severe and Critical Covid-19 Using Deep Learning and Radiomics. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2020, 24, 3585-3594. | 3.9 | 56 |
| 7 | Smart Self-Assembly Amphiphilic Cyclopeptide-Dye for Near-Infrared Window-II Imaging. <i>Advanced Materials</i> , 2021, 33, e2006902. | 11.1 | 50 |
| 8 | A deep learning-based radiomic nomogram for prognosis and treatment decision in advanced nasopharyngeal carcinoma: A multicentre study. <i>EBioMedicine</i> , 2021, 70, 103522. | 2.7 | 48 |
| 9 | Weight Multispectral Reconstruction Strategy for Enhanced Reconstruction Accuracy and Stability With Cerenkov Luminescence Tomography. <i>IEEE Transactions on Medical Imaging</i> , 2017, 36, 1337-1346. | 5.4 | 47 |
| 10 | Three-dimensional Noninvasive Monitoring Iodine-131 Uptake in the Thyroid Using a Modified Cerenkov Luminescence Tomography Approach. <i>PLoS ONE</i> , 2012, 7, e37623. | 1.1 | 44 |
| 11 | Nanoparticle-mediated radiopharmaceutical-excited fluorescence molecular imaging allows precise image-guided tumor-removal surgery. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2017, 13, 1323-1331. | 1.7 | 42 |
| 12 | In vivo pentamodal tomographic imaging for small animals. <i>Biomedical Optics Express</i> , 2017, 8, 1356. | 1.5 | 33 |
| 13 | Non-convex sparse regularization approach framework for high multiple-source resolution in Cerenkov luminescence tomography. <i>Optics Express</i> , 2017, 25, 28068. | 1.7 | 33 |
| 14 | Endoscopic Cerenkov luminescence imaging and image-guided tumor resection on hepatocellular carcinoma-bearing mouse models. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2019, 17, 62-70. | 1.7 | 33 |
| 15 | Multispectral hybrid Cerenkov luminescence tomography based on the finite element SPn method. <i>Journal of Biomedical Optics</i> , 2015, 20, 086007. | 1.4 | 32 |
| 16 | Recent Advances in Cerenkov Luminescence and Tomography Imaging. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2012, 18, 1084-1093. | 1.9 | 31 |
| 17 | Cerenkov luminescence imaging on evaluation of early response to chemotherapy of drug-resistant gastric cancer. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2018, 14, 205-213. | 1.7 | 30 |
| 18 | Near-Infrared Window II Fluorescence Image-Guided Surgery of High-Grade Gliomas Prolongs the Progression-Free Survival of Patients. <i>IEEE Transactions on Biomedical Engineering</i> , 2022, 69, 1889-1900. | 2.5 | 28 |

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|----|--|-----|-----------|
| 19 | Single photon emission computed tomography-guided Cerenkov luminescence tomography. <i>Journal of Applied Physics</i> , 2012, 112, 024703. | 1.1 | 27 |
| 20 | Non-Negative Iterative Convex Refinement Approach for Accurate and Robust Reconstruction in Cerenkov Luminescence Tomography. <i>IEEE Transactions on Medical Imaging</i> , 2020, 39, 3207-3217. | 5.4 | 26 |
| 21 | Probability method for Cerenkov luminescence tomography based on conformance error minimization. <i>Biomedical Optics Express</i> , 2014, 5, 2091. | 1.5 | 25 |
| 22 | Real-time intraoperative glioma diagnosis using fluorescence imaging and deep convolutional neural networks. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2021, 48, 3482-3492. | 3.3 | 25 |
| 23 | NIR-II/NIR-I Fluorescence Molecular Tomography of Heterogeneous Mice Based on Gaussian Weighted Neighborhood Fused Lasso Method. <i>IEEE Transactions on Medical Imaging</i> , 2020, 39, 2213-2222. | 5.4 | 21 |
| 24 | First Clinical Investigation of Near-Infrared Window IIa/IIb Fluorescence Imaging for Precise Surgical Resection of Gliomas. <i>IEEE Transactions on Biomedical Engineering</i> , 2022, 69, 2404-2413. | 2.5 | 21 |
| 25 | A narrative review of near-infrared fluorescence imaging in hepatectomy for hepatocellular carcinoma. <i>Annals of Translational Medicine</i> , 2021, 9, 171-171. | 0.7 | 19 |
| 26 | Deep learning-based AI model for signet-ring cell carcinoma diagnosis and chemotherapy response prediction in gastric cancer. <i>Medical Physics</i> , 2022, 49, 1535-1546. | 1.6 | 17 |
| 27 | Visualizing Tumors in Real Time: A Highly Sensitive PSMA Probe for NIR-II Imaging and Intraoperative Tumor Resection. <i>Journal of Medicinal Chemistry</i> , 2021, 64, 7735-7745. | 2.9 | 16 |
| 28 | Intraoperative fluorescence molecular imaging accelerates the coming of precision surgery in China. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2022, 49, 2531-2543. | 3.3 | 16 |
| 29 | PET/NIR-II fluorescence imaging and image-guided surgery of glioblastoma using a folate receptor 1 α -targeted dual-modal nanoprobe. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2022, 49, 4325-4337. | 3.3 | 14 |
| 30 | Intraoperative near-infrared II window fluorescence imaging-assisted nephron-sparing surgery for complete resection of cystic renal masses. <i>Clinical and Translational Medicine</i> , 2021, 11, e604. | 1.7 | 13 |
| 31 | Near-infrared fluorescence imaging-guided lymphatic mapping in thoracic esophageal cancer surgery. <i>Surgical Endoscopy and Other Interventional Techniques</i> , 2022, 36, 3994-4003. | 1.3 | 12 |
| 32 | Novel multifunctional NIR-II aggregation-induced emission nanoparticles-assisted intraoperative identification and elimination of residual tumor. <i>Journal of Nanobiotechnology</i> , 2022, 20, 143. | 4.2 | 12 |
| 33 | Cerenkov luminescence tomography of aminopeptidase N (APN/CD13) expression in mice bearing HT1080 tumors. <i>Molecular Imaging</i> , 2013, 12, 173-81. | 0.7 | 11 |
| 34 | Radiopharmaceutical and Eu ³⁺ -doped gadolinium oxide nanoparticles mediated triple-excited fluorescence imaging and image-guided surgery. <i>Journal of Nanobiotechnology</i> , 2021, 19, 212. | 4.2 | 9 |
| 35 | A novel in vivo Cerenkov luminescence image-guided surgery on primary and metastatic colorectal cancer. <i>Journal of Biophotonics</i> , 2020, 13, e201960152. | 1.1 | 8 |
| 36 | Attention mechanism-based locally connected network for accurate and stable reconstruction in Cerenkov luminescence tomography. <i>Biomedical Optics Express</i> , 2021, 12, 7703. | 1.5 | 8 |

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|----|--|------|-----------|
| 37 | A preliminary study of dual-band confocal laser endomicroscopy combined with image mosaic in the diagnosis of liver cancer. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2020, 29, 102250. | 1.7 | 4 |
| 38 | Visualisation of pelvic autonomic nerves using NIR-II fluorescence imaging. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2022, 49, 4752-4754. | 3.3 | 2 |
| 39 | Optimization of ODAP-Urea-based dual-modality PSMA targeting probes for sequential PET-CT and optical imaging. <i>Bioorganic and Medicinal Chemistry</i> , 2022, 66, 116810. | 1.4 | 1 |
| 40 | Tumor Imaging: Radiopharmaceuticals and Fluorescein Sodium Mediated Triple-Modality Molecular Imaging Allows Precise Image-Guided Tumor Surgery (<i>Adv. Sci.</i> 13/2019). <i>Advanced Science</i> , 2019, 6, 1970081. | 5.6 | 0 |
| 41 | Amphiphilic Cyclopeptideâ€Dyes: Smart Selfâ€Assembly Amphiphilic Cyclopeptideâ€Dye for Nearâ€Infrared Windowâ€ Imaging (<i>Adv. Mater.</i> 16/2021). <i>Advanced Materials</i> , 2021, 33, 2170121. | 11.1 | 0 |