# Chengbo Liu

## List of Publications by Year in Descending Order



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|---|---|---|---|
| 70 papers | 2,795 citations | 26 h-index | 52 g-index |
| 75 ext. papers | 3,498 ext. citations | 9.4 avg, IF | 5.27 L-index |

| # | Paper | IF | Citations |
|---|---|---|---|
| 70 | Optical fiber-based handheld polarized photoacoustic computed tomography for detecting anisotropy of tissues.. *Quantitative Imaging in Medicine and Surgery*, **2022**, 12, 2238-2246 | 3.6 | |
| 69 | Degradable mesoporous semimetal antimony nanospheres for near-infrared II multimodal theranostics.. *Nature Communications*, **2022**, 13, 539 | 17.4 | 3 |
| 68 | Sparse-sampling photoacoustic computed tomography: Deep learning vs. compressed sensing. *Biomedical Signal Processing and Control*, **2022**, 71, 103233 | 4.9 | 3 |
| 67 | Background-suppressed tumor-targeted photoacoustic imaging using bacterial carriers.. *Proceedings of the National Academy of Sciences of the United States of America*, **2022**, 119, | 11.5 | 2 |
| 66 | Achieving depth-independent lateral resolution in AR-PAM using the synthetic-aperture focusing technique.. *Photoacoustics*, **2022**, 26, 100328 | 9 | 1 |
| 65 | Visualizing tumor angiogenesis and boundary with polygon-scanning multiscale photoacoustic microscopy.. *Photoacoustics*, **2022**, 26, 100342 | 9 | 0 |
| 64 | Co-delivery of NIR-II semiconducting polymer and pH-sensitive doxorubicin-conjugated prodrug for photothermal/chemotherapy. *Acta Biomaterialia*, **2021**, | 10.8 | 3 |
| 63 | Recovery of photoacoustic images based on accurate ultrasound positioning. *Visual Computing for Industry, Biomedicine, and Art*, **2021**, 4, 7 | 2.9 | 0 |
| 62 | Antimony Nanopolyhedrons with Tunable Localized Surface Plasmon Resonances for Highly Effective Photoacoustic-Imaging-Guided Synergistic Photothermal/Immunotherapy. *Advanced Materials*, **2021**, 33, e2100039 | 24 | 15 |
| 61 | Breaking Acoustic Limit of Optical Focusing Using Photoacoustic-Guided Wavefront Shaping. *Laser and Photonics Reviews*, **2021**, 15, 2000594 | 8.3 | 3 |
| 60 | Nonlinear mechanisms in photoacoustics-Powerful tools in photoacoustic imaging. *Photoacoustics*, **2021**, 22, 100243 | 9 | 14 |
| 59 | Deep Learning Enables Superior Photoacoustic Imaging at Ultralow Laser Dosages. *Advanced Science*, **2021**, 8, 2003097 | 13.6 | 11 |
| 58 | Optical resolution photoacoustic computed microscopy. *Optics Letters*, **2021**, 46, 372-375 | 3 | 1 |
| 57 | Expanded porphyrins: functional photoacoustic imaging agents that operate in the NIR-II region. *Chemical Science*, **2021**, 12, 9916-9921 | 9.4 | 7 |
| 56 | Targeted imaging of orthotopic prostate cancer by using clinical transformable photoacoustic molecular probe. *BMC Cancer*, **2020**, 20, 419 | 4.8 | 2 |
| 55 | A Low Cost Sensitive Transrectal Photoacoustic Probe With Single-Fiber Bright-Field Illumination for In Vivo Canine Prostate Imaging and Real-Time Biopsy Needle Guidance. *IEEE Sensors Journal*, **2020**, 20, 10974-10980 | 4 | 4 |
| 54 | Design and Synthesis of a Ratiometric Photoacoustic Probe for In Situ Imaging of Zinc Ions in Deep Tissue In Vivo. *Analytical Chemistry*, **2020**, 92, 6382-6390 | 7.8 | 24 |

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| 53 | Optical-resolution photoacoustic microscopy with ultrafast dual-wavelength excitation. *Journal of Biophotonics*, **2020**, 13, e201960229 | 3.1 | 19 |
| 52 | assessment of inflammation in carotid atherosclerosis by noninvasive photoacoustic imaging. *Theranostics*, **2020**, 10, 4694-4704 | 12.1 | 21 |
| 51 | Graphics processing unit accelerating compressed sensing photoacoustic computed tomography with total variation. *Applied Optics*, **2020**, 59, 712-719 | 1.7 | 4 |
| 50 | Photoacoustic visualization of the fluence rate dependence of photodynamic therapy. *Biomedical Optics Express*, **2020**, 11, 4203-4223 | 3.5 | 5 |
| 49 | intravascular photoacoustic imaging at a high speed of 100 frames per second. *Biomedical Optics Express*, **2020**, 11, 6721-6731 | 3.5 | 5 |
| 48 | Multiscale high-speed photoacoustic microscopy based on free-space light transmission and a MEMS scanning mirror. *Optics Letters*, **2020**, 45, 4312-4315 | 3 | 17 |
| 47 | A new deep learning method for image deblurring in optical microscopic systems. *Journal of Biophotonics*, **2020**, 13, e201960147 | 3.1 | 18 |
| 46 | Full three-dimensional segmentation and quantification of tumor vessels for photoacoustic images. *Photoacoustics*, **2020**, 20, 100212 | 9 | 5 |
| 45 | Active-Targeting NIR-II Phototheranostics in Multiple Tumor Models Using Platelet-Camouflaged Nanoprobes. *ACS Applied Materials & Interfaces*, **2020**, 12, 55624-55637 | 9.5 | 8 |
| 44 | Tocilizumab-Conjugated Polymer Nanoparticles for NIR-II Photoacoustic-Imaging-Guided Therapy of Rheumatoid Arthritis. *Advanced Materials*, **2020**, 32, e2003399 | 24 | 40 |
| 43 | Opto-acoustic synergistic irradiation for vaporization of natural melanin-cored nanodroplets at safe energy levels and efficient sono-chemo-photothermal cancer therapy. *Theranostics*, **2020**, 10, 10448-10465 | 12.1 | 6 |
| 42 | Manganese(II) Texaphyrin: A Paramagnetic Photoacoustic Contrast Agent Activated by Near-IR Light. *Journal of the American Chemical Society*, **2020**, 142, 16156-16160 | 16.4 | 19 |
| 41 | Motion Correction in Optical Resolution Photoacoustic Microscopy. *IEEE Transactions on Medical Imaging*, **2019**, 38, 2139-2150 | 11.7 | 23 |
| 40 | Optical-resolution photoacoustic microscopy for monitoring vascular normalization during anti-angiogenic therapy. *Photoacoustics*, **2019**, 15, 100143 | 9 | 25 |
| 39 | Precise Deciphering of Brain Vasculatures and Microscopic Tumors with Dual NIR-II Fluorescence and Photoacoustic Imaging. *Advanced Materials*, **2019**, 31, e1902504 | 24 | 107 |
| 38 | Novel small molecular dye-loaded lipid nanoparticles with efficient near-infrared-II absorption for photoacoustic imaging and photothermal therapy of hepatocellular carcinoma. *Biomaterials Science* , **2019**, 7, 3165-3177 | 7.4 | 26 |
| 37 | High-Resolution 3D NIR-II Photoacoustic Imaging of Cerebral and Tumor Vasculatures Using Conjugated Polymer Nanoparticles as Contrast Agent. *Advanced Materials*, **2019**, 31, e1808355 | 24 | 88 |
| 36 | De-noising of photoacoustic sensing and imaging based on combined empirical mode decomposition and independent component analysis. *Journal of Biophotonics*, **2019**, 12, e201900042 | 3.1 | 6 |

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|---|---|---|---|
| 35 | The integrated high-resolution reflection-mode photoacoustic and fluorescence confocal microscopy. *Photoacoustics*, **2019**, 14, 12-18 | 9 | 31 |
| 34 | Quantitative analysis on in vivo tumor-microvascular images from optical-resolution photoacoustic microscopy. *Journal of Biophotonics*, **2019**, 12, e201800421 | 3.1 | 15 |
| 33 | transrectal imaging of canine prostate with a sensitive and compact handheld transrectal array photoacoustic probe for early diagnosis of prostate cancer. *Biomedical Optics Express*, **2019**, 10, 1707-1717 | 3.5 | 11 |
| 32 | Lack of association between acupoint sensitization and microcirculatory structural changes in a mouse model of knee osteoarthritis: A pilot study. *Journal of Biophotonics*, **2019**, 12, e201800458 | 3.1 | 4 |
| 31 | Multiscale Vascular Enhancement Filter Applied to In Vivo Morphologic and Functional Photoacoustic Imaging of Rat Ocular Vasculature. *IEEE Photonics Journal*, **2019**, 11, 1-12 | 1.8 | 6 |
| 30 | Single-shot linear dichroism optical-resolution photoacoustic microscopy. *Photoacoustics*, **2019**, 16, 100148 | 9 | 15 |
| 29 | In Vivo Tumor Photoacoustic Imaging and Photothermal Therapy Based on Supra-(Carbon Nanodots). *Advanced Healthcare Materials*, **2019**, 8, e1800995 | 10.1 | 38 |
| 28 | Ce6-Modified Carbon Dots for Multimodal-Imaging-Guided and Single-NIR-Laser-Triggered Photothermal/Photodynamic Synergistic Cancer Therapy by Reduced Irradiation Power. *ACS Applied Materials & Interfaces*, **2019**, 11, 5791-5803 | 9.5 | 107 |
| 27 | Highly Sensitive MoS-Indocyanine Green Hybrid for Photoacoustic Imaging of Orthotopic Brain Glioma at Deep Site. *Nano-Micro Letters*, **2018**, 10, 48 | 19.5 | 35 |
| 26 | Linear array-based real-time photoacoustic imaging system with a compact coaxial excitation handheld probe for noninvasive sentinel lymph node mapping. *Biomedical Optics Express*, **2018**, 9, 1408-1422 | 3.5 | 51 |
| 25 | Fluster Resonance Energy Transfer-Based Dual-Modal Theranostic Nanoprobe for Visualization of Cancer Photothermal Therapy. *Theranostics*, **2018**, 8, 410-422 | 12.1 | 20 |
| 24 | Photoacoustic Imaging: Bright Aggregation-Induced-Emission Dots for Targeted Synergetic NIR-II Fluorescence and NIR-I Photoacoustic Imaging of Orthotopic Brain Tumors (Adv. Mater. 29/2018). *Advanced Materials*, **2018**, 30, 1870214 | 24 | 11 |
| 23 | Through Scalp and Skull NIR-II Photothermal Therapy of Deep Orthotopic Brain Tumors with Precise Photoacoustic Imaging Guidance. *Advanced Materials*, **2018**, 30, e1802591 | 24 | 235 |
| 22 | In vivo photoacoustic/ultrasonic dual-modality endoscopy with a miniaturized full field-of-view catheter. *Journal of Biophotonics*, **2018**, 11, e201800034 | 3.1 | 39 |
| 21 | Compact and low-cost handheld quasibright-field linear-array probe design in photoacoustic computed tomography. *Journal of Biomedical Optics*, **2018**, 23, 1-10 | 3.5 | 12 |
| 20 | Three-dimensional Hessian matrix-based quantitative vascular imaging of rat iris with optical-resolution photoacoustic microscopy in vivo. *Journal of Biomedical Optics*, **2018**, 23, 1-11 | 3.5 | 17 |
| 19 | In vivo theranostics with near-infrared-emitting carbon dots-highly efficient photothermal therapy based on passive targeting after intravenous administration. *Light: Science and Applications*, **2018**, 7, 91 | 16.7 | 178 |
| 18 | Bright Aggregation-Induced-Emission Dots for Targeted Synergetic NIR-II Fluorescence and NIR-I Photoacoustic Imaging of Orthotopic Brain Tumors. *Advanced Materials*, **2018**, 30, e1800766 | 24 | 246 |

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|---|---|---|---|
| 17 | Biocompatible conjugated polymer nanoparticles for highly efficient photoacoustic imaging of orthotopic brain tumors in the second near-infrared window. *Materials Horizons*, **2017**, 4, 1151-1156 | 14.4 | 98 |
| 16 | Indocyanine Green-holo-Transferrin Nanoassemblies for Tumor-Targeted Dual-Modal Imaging and Photothermal Therapy of Glioma. *ACS Applied Materials & Interfaces*, **2017**, 9, 39249-39258 | 9.5 | 62 |
| 15 | Molecular Engineering of Conjugated Polymers for Biocompatible Organic Nanoparticles with Highly Efficient Photoacoustic and Photothermal Performance in Cancer Theranostics. *ACS Nano*, **2017**, 11, 10124-10134 | 16.7 | 140 |
| 14 | Nanoparticles for Photoacoustic Imaging **2016**, 159-187 | | |
| 13 | Indocyanine Green Loaded Reduced Graphene Oxide for In Vivo Photoacoustic/Fluorescence Dual-Modality Tumor Imaging. *Nanoscale Research Letters*, **2016**, 11, 85 | 5 | 44 |
| 12 | Advances in Imaging Techniques and Genetically Encoded Probes for Photoacoustic Imaging. *Theranostics*, **2016**, 6, 2414-2430 | 12.1 | 24 |
| 11 | Activatable albumin-photosensitizer nanoassemblies for triple-modal imaging and thermal-modulated photodynamic therapy of cancer. *Biomaterials*, **2016**, 93, 10-19 | 15.6 | 106 |
| 10 | Functional Photoacoustic Imaging of Gastric Acid Secretion Using pH-Responsive Polyaniline Nanoprobes. *Small*, **2016**, 12, 4690-6 | 11 | 24 |
| 9 | Single-Layer MoS2 Nanosheets with Amplified Photoacoustic Effect for Highly Sensitive Photoacoustic Imaging of Orthotopic Brain Tumors. *Advanced Functional Materials*, **2016**, 26, 8715-8725 | 15.6 | 110 |
| 8 | Ultrasmall Cu2-x S Nanodots for Highly Efficient Photoacoustic Imaging-Guided Photothermal Therapy. *Small*, **2015**, 11, 2275-83 | 11 | 162 |
| 7 | High-speed intravascular spectroscopic photoacoustic imaging at 1000 A-lines per second with a 0.9-mm diameter catheter. *Journal of Biomedical Optics*, **2015**, 20, 065006 | 3.5 | 57 |
| 6 | A facile synthesis of versatile Cu2-xS nanoprobe for enhanced MRI and infrared thermal/photoacoustic multimodal imaging. *Biomaterials*, **2015**, 57, 12-21 | 15.6 | 74 |
| 5 | Dual-color photoacoustic lymph node imaging using nanoformulated naphthalocyanines. *Biomaterials*, **2015**, 73, 142-8 | 15.6 | 82 |
| 4 | India ink incorporated multifunctional phase-transition nanodroplets for photoacoustic/ultrasound dual-modality imaging and photoacoustic effect based tumor therapy. *Theranostics*, **2014**, 4, 1026-38 | 12.1 | 59 |
| 3 | Multi-parametric quantitative microvascular imaging with optical-resolution photoacoustic microscopy in vivo. *Optics Express*, **2014**, 22, 1500-11 | 3.3 | 50 |
| 2 | Compressed sensing based virtual-detector photoacoustic microscopy in vivo. *Journal of Biomedical Optics*, **2014**, 19, 36003 | 3.5 | 12 |
| 1 | Intravascular optical-resolution photoacoustic tomography with a 1.1 mm diameter catheter. *PLoS ONE*, **2014**, 9, e92463 | 3.7 | 82 |