

Prodigy 256

References

1. Pei-Hsien Ting, Yi-Da Kang, San-Yuan Chen, Meng-Lin Li, "Ultrafast plane wave imaging based pulsed magnetomotive ultrasound", *IEEE International Ultrasonics Symposium(IUS)*, Chicago Illinois, USA, September 3-6, 2014

http://ieeexplore.ieee.org/xpl/login.jsp?tp=&arnumber=6932340&url=http%3A%2F%2Fieeexplore.ieee.org%2Fexpls%2Fabs_all.jsp%3Farnumber%3D6932340

2. Merčep, E., Jeng, G., Morscher, S., Pai-Chi Li, Razansky, D., "Hybrid optoacoustic tomography and pulse-echo ultrasonography using concave arrays", *IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control*, 62(9), P.1651-1661, 2015

http://ieeexplore.ieee.org/xpl/articleDetails.jsp?tp=&arnumber=7272464&url=http%3A%2F%2Fieeexplore.ieee.org%2Fexpls%2Fabs_all.jsp%3Farnumber%3D7272464

3. Yong-Qi Xing, Shue-Han Jiang, Gency Jeng, Che-Chou Shen, "Low-complexity adaptive beamforming using autocorrelation-based generalized coherence factor", *IEEE International Ultrasonics Symposium (IUS)*, Taipei, Taiwan, October 21-24, 2015.

http://ieeexplore.ieee.org/xpl/login.jsp?tp=&arnumber=7329231&url=http%3A%2F%2Fieeexplore.ieee.org%2Fexpls%2Fabs_all.jsp%3Farnumber%3D7329231

4. Yu-Chun Huang, Jieh-Yuan Houg, Yi-Da Kang, San-Yuan Chen, Meng-Lin Li "Ultrafast pulsed magnetomotive ultrasound imaging of sentinel lymph nodes: Small animal study", *IEEE International Ultrasonics Symposium (IUS)*, Taipei, Taiwan, October 21-24, 2015.

http://ieeexplore.ieee.org/xpl/login.jsp?tp=&arnumber=7329567&url=http%3A%2F%2Fieeexplore.ieee.org%2Fexpls%2Fabs_all.jsp%3Farnumber%3D7329567

5. Shao-Yu Peng, Meng-Lin Li, "Linear array beamformation using virtual sub-wavelength receiving elements", IEEE International Ultrasonics Symposium (IUS), Taipei, Taiwan, October 21-24, 2015.

http://ieeexplore.ieee.org/xpl/login.jsp?tp=&arnumber=7329604&url=http%3A%2F%2Fieeexplore.ieee.org%2Fexpls%2Fabs_all.jsp%3Farnumber%3D7329604

6. Che-Chou Shen, Hsiao-Chi Yang, Gency Jeng, "Sound speed optimization for ultrasound beamforming using differential phase gradient between sub-apertures", IEEE International Ultrasonics Symposium (IUS), Tour, France, September 18-21, 2016.

<http://ieeexplore.ieee.org/abstract/document/7728426/?part=1>

7. Che-Chou Shen, Yong-Qi Xing and Gency Jeng, "Autocorrelation-based generalized coherence factor for low-complexity adaptive beamforming", Ultrasonics, 72, P.177-183, 2016.

<http://www.sciencedirect.com/science/article/pii/S0041624X16301305>

8. U.-Wai Lok and Pai-Chi Li, "Transform-Based Channel-Data Compression to Improve the Performance of a Real-Time GPU-Based Software Beamformer", IEEE Transactions on Ultrasonics, 63(3), P.369-380, 2016.

<http://ieeexplore.ieee.org/abstract/document/7386694/>

9. Nai-Zhang Feng, Ying Fu, Tong Wang, and Ming-Jian Sun, "Photoacoustic Elasticity Imaging for Soft Tissue-mimicking Phantom", International Conference on Photonics and Imaging in Biology and Medicine, Suzhou, China, September 26-28, 2017.

<https://www.osapublishing.org/abstract.cfm?uri=PIBM-2017-W3A.117>

10. Ming-Chen Lu, Jieh-Yuan Houg, Meng-Lin Li, "Backward-mode ultrafast pulsed magnetomotive ultrasound", IEEE International Ultrasonics Symposium (IUS), Washington, DC, USA, September 6-9, 2017.

<http://ieeexplore.ieee.org/abstract/document/8091978/>

11. Yi-An Wang, U-Wai Lok, Pai-Chi Li, "Needle guidance using laser generated leaky acoustic waves", IEEE International Ultrasonics Symposium (IUS), Washington, DC, USA, September 6-9, 2017.

<http://ieeexplore.ieee.org/abstract/document/8092810/authors>

12. Xiang-Wei Lin, Nai-Zhang Feng, Ya-Wei Qu, De-Ying Chen, Yi Shen, and Ming-Jian Sun, "Compressed sensing in synthetic aperture photoacoustic tomography based on a linear-array ultrasound transducer", Chinese Optics Letters, 15(10), P.101102, 2017.

<https://www.osapublishing.org/col/abstract.cfm?uri=col-15-10-101102>

13. Xiang-Wei Lin, Ming-Jian Sun, Nai-Zhang Feng, De-Peng Hu, and Yi Shen, "Monte Carlo light transport-based blood vessel quantification using linear array photoacoustic tomography", Chinese Optics Letters, 15(11), P.111701, 2017.

<https://www.osapublishing.org/col/abstract.cfm?uri=col-15-11-111701>

14. Che-Chou Shen, Hsiao-Chi Yang, "Adaptive optimization of ultrasound beamforming sound velocity using sub-aperture differential phase gradient", Ultrasonics, 79, P.52-59, 2017.

<http://www.sciencedirect.com/science/article/pii/S0041624X16303742>

15. Mucong Li, Chengbo Liu, Xiaojing Gong, Rongqin Zheng, Yuanyuan Bai, Muyue Xing, Xuemin Du, Xiaoyang Liu, Jing Zeng, Riqiang Lin, Huichao Zhou, Shouju Wang, Guangming Lu, Wen Zhu, Chihua Fang, and Lian Song, "Linear array-based real-time photoacoustic imaging system with a compact coaxial excitation handheld probe for noninvasive sentinel lymph node mapping", Biomedical Optics Express, 9(4), P.1408-1422, 2018.

<https://www.osapublishing.org/boe/abstract.cfm?uri=boe-9-4-1408>

16. Kei-Wen Wu, Yi-An Wang and Pai-Chi Li, "Laser generated leaky acoustic waves for needle visualization", IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, PP(99), P.1-1, 2018

<http://ieeexplore.ieee.org/abstract/document/8279527/>

17. Che-Chou Shen, Sheng-Hsuan Hsiao, and Yen-Chung Lin, "Synthetic transmit aperture beamforming for sound velocity estimation using channel-domain differential phase gradient—A phantom study", *Ultrasonics*, 94, P.183-191, 2019.

<https://www.sciencedirect.com/science/article/pii/S0041624X18303755>

18. Ruian Liu, Liangzhong Xiang, Da Xing, Jiandong Li, Huan Qin, Weicheng Zhang, and Sihua Yang, "Large Depth Focus-Tunable Photoacoustic Tomography Based On Clinical Ultrasound Array Transducer", *Applied Physics Letters*, 113, Oct. 2018.

<https://aip.scitation.org/doi/abs/10.1063/1.5040565>

19. Yu-Chieh Jill Kao and Bao-Yu Hsieh, "Ultrafast Doppler Observation in Rat Stroke Model- Comparison with High Field Magnetic Resonance Imaging", *IEEE International Ultrasonics Symposium (IUS)*, 22-25 Oct. 2018.

<https://ieeexplore.ieee.org/abstract/document/8579879>

20. Kai-Wen Wu, Yi-An Wang and Pai-Chi Li, "Laser Generated Leaky Acoustic Waves for Needle Visualization", *IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control*, 65(4), P.546-556, 2018.

<https://ieeexplore.ieee.org/abstract/document/8279527>

21. U-Wai Lok and Pai-Chi Li, "Microbeamforming With Error Compensation", *IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control*, 65(7), P.1153-1165, 2018.

<https://ieeexplore.ieee.org/abstract/document/8356085>

22. Qiang Zhang, Zhiyu Sheng, Frank Moore-Clingenpeel, Kang Kim, Nitin Sharma, “Ankle Dorsiflexion Strength Monitoring by Combining Sonomyography and Electromyography”, ICORR, 24-28 June 2019.

<https://ieeexplore.ieee.org/abstract/document/8779530/authors#authors>

23. Wei-Wen Liu, Sy-Han Huang, Pai-Chi Li, “Synchronized Optical and Acoustic Droplet Vaporization for Effective Sonoporation”, *Pharmaceutics*, 11(6), 279, 2019.

<https://www.mdpi.com/1999-4923/11/6/279>

24. Weicheng Zhang, Jiandong Li, Sihua Yang, “Real-time interleaved photoacoustic and ultrasound imaging for guiding interventional procedures”, *Applied Acoustics*, 156, P. 1-6, 2019.

<https://www.sciencedirect.com/science/article/abs/pii/S0003682X19304384>

25. Yang Liu, Mingjian Sun, Ting Liu, Yiming Ma, Depeng Hu, Chao Li and Naizhang Feng, “Quantitative Reconstruction of Absorption Coefficients for Photoacoustic Tomography”, *Applied Sciences*, 9(6), 1187, 2019.

<https://www.mdpi.com/2076-3417/9/6/1187/htm>

26. Che-Chou Shen and Pei-Ying Hsieh, “Ultrasound Baseband Delay-Multiply-and-Sum (BB-DMAS) nonlinear beamforming”, *Ultrasonics*, 96, P. 165-174, 2019.

<https://www.sciencedirect.com/science/article/abs/pii/S0041624X18305158>

27. Zhiyu Sheng, Nitin Sharma and Kang Kim, “Quantitative Assessment of Changes in Muscle Contractility Due to Fatigue During NMES: An Ultrasound Imaging Approach”, *IEEE Transactions on Biomedical Engineering (Early Access)*, 2019.

<https://ieeexplore.ieee.org/abstract/document/8733113>

28. Wei-Hsiang Shen and Meng-Lin Li, "Toward Real Time Backward-Mode Pulsed Magnetomotive Ultrasound", IEEE International Ultrasonics Symposium (IUS), Glasgow, Scotland, October 6-9, 2019.

<https://ieeexplore.ieee.org/abstract/document/8926244>

29. Hong-Wei Wang, Chih-Chia Huang and Meng-Lin Li, "Improved Backward Mode Pulsed Magnetomotive Ultrasound via Pre-magnetization of Superparamagnetic Iron Oxide Nanoparticles", IEEE International Ultrasonics Symposium (IUS), Glasgow, Scotland, October 6-9, 2019.

<https://ieeexplore.ieee.org/abstract/document/8925878>

30. Guan-Heng Lai, Pai-Chi Li and Che-Chou Shen, "Golay-Encoded Pulse-Inversion Subtraction for Real-Time Ultrasound Monitoring of HIFU Therapy", IEEE International Ultrasonics Symposium (IUS), Glasgow, Scotland, October 6-9, 2019.

<https://ieeexplore.ieee.org/abstract/document/8925901>

31. Ning Zhou, Yu-Chieh Jill Kao, Yu-Ying Mei, Yi-Pei Lin, Dong-Chuan Wu and Bao-Yu Hsieh, "Detection of KCl Induced Cortical Spreading Depolarization (CSD) with Dynamic Ultrafast Doppler", IEEE International Ultrasonics Symposium (IUS), Glasgow, Scotland, October 6-9, 2019.

<https://ieeexplore.ieee.org/abstract/document/8926289>

32. Yu-Chieh Jill Kao and Bao-Yu Hsieh, "Monitoring of Vascular Response to Peri-Infarct Depolarization (PID) in Photothrombotic Stroke Animal Model", IEEE International Ultrasonics Symposium (IUS), Glasgow, Scotland, October 6-9, 2019.

<https://ieeexplore.ieee.org/abstract/document/8926239>

33. Che-Chou Shen and Pei-Ying Hsieh, "A Flexible Speckle Reduction Strategy using Thomson's Multitaper High-order DMAS Beamforming", IEEE International Ultrasonics Symposium (IUS), Glasgow, Scotland, October 6-9, 2019.

<https://ieeexplore.ieee.org/abstract/document/8926217>

34. Qiang Zhang, Kang Kim and Nitin Sharma, "Prediction of Ankle Dorsiflexion Moment by Combined Ultrasound Sonography and Electromyography", IEEE Transactions on Neural Systems and Rehabilitation Engineering, 28(1):318-327, 2020.

<https://pubmed.ncbi.nlm.nih.gov/31725385/>

35. Kuan-Lin Tu, Che-Chou Shen and Yen-Chen Chu, "Ultrasound DMAS beamforming for estimation of tissue speed of sound in multi-angle plane-wave imaging", IEEE International Ultrasonics Symposium (IUS), 7-11 Sept. 2020.

<https://ieeexplore.ieee.org/abstract/document/9251759>

36. Ashwin Iyer, Zhiyu Sheng, Qiang Zhang, Kang Kim and Nitin Sharma, "Analysis of Tremor During Grasp Using Ultrasound Imaging: Preliminary Study", 2020 8th IEEE RAS/EMBS International Conference for Biomedical Robotics and Biomechatronics (BioRob), New York, USA. Nov 29 - Dec 1, 2020.

<https://ieeexplore.ieee.org/abstract/document/9224446>

37. Wei-Huan Xie, Chun-Ting Su, Yu-Chieh Jill Kao, Tung-Hao Chang, Yuan-Jen Chang, Chun-Hsu Yao and Bao-Yu Hsieh, "Radiotherapy dose characterization of gel dosimetry using shear wave elasticity imaging", Medical Physics, 47(3), p.1404-1410, 2020.

<https://aapm.onlinelibrary.wiley.com/doi/abs/10.1002/mp.14020>

38. Jui-En Yang, Che-Chou Shen and Ri-Cheng Lin, "Estimation of ultrasound echogenicity map from B-mode images using convolutional neural network", IEEE International Ultrasonics Symposium (IUS), 7-11 Sept. 2020.

<https://ieeexplore.ieee.org/abstract/document/9251596>

39.Zhiyu Sheng, Nitin Sharmaand Kang Kim, "Ultra-High-Frame-Rate Ultrasound Monitoring of Muscle Contractility Changes Due to Neuromuscular Electrical Stimulation", Biomedical Engineering Society, 14 May 2020.

<https://link.springer.com/article/10.1007%2Fs10439-020-02536-7>

40.Qiang Zhang, Ashwin Iyer, Kang Kimand Nitin Sharma,"Volitional Contractility Assessment of Plantar Flexors by Using Non-invasive Neuromuscular Measurements", 2020 8th IEEE RAS/EMBS International Conference for Biomedical Robotics and Biomechatronics (BioRob), New York, USA. Nov 29 -Dec 1, 2020.

<https://ieeexplore.ieee.org/abstract/document/9224298>

41.Qiang Zhang,Ashwin Iyer, Kang Kimand Nitin Sharma"Evaluation of Non-Invasive Ankle Joint Effort Prediction Methods for Use in Neurorehabilitation Using Electromyography and Ultrasound Imaging", IEEE Transactions on Biomedical Engineering, August 2020.

<https://ieeexplore.ieee.org/abstract/document/9160868>

42.U-WaiLok, Fang-Yu Lin, Chia-Lun Yehand Pai-Chi Li, "Correlation-Based Doppler-Angle Estimation with Plane-Wave Excitation", Informatics in Medicine Unlocked, vol.19,2020.

<https://www.sciencedirect.com/science/article/pii/S2352914819303910>

43.Che-Chou Shenand Jui-En Yang, "Estimation of Ultrasound Echogenicity Map from B-Mode Images Using Convolutional Neural Network", Sensors, 20(17), 4931, 2020.

<https://www.mdpi.com/1424-8220/20/17/4931>

44.Hsiang-Ching Lin, Ching-Hsiang Fan, Yi-Ju Hoand Chih-Kuang Yeh, "Dual-Frequency Chirp Excitation for Passive Cavitation Imaging in the Brain", IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 67(6), 2020.

<https://ieeexplore.ieee.org/abstract/document/8955977>

[iThera]

iT_1. Keerthi S. Valluru and Juergen K. Willmann, "Clinical photoacoustic imaging of cancer", *Ultrasonography*, 35(4), P.267-280, 2016.

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5040138/>

iT_2. X. L. Deán-Ben, E. Merčep, and D. Razansky, "Hybrid-array-based optoacoustic and ultrasound (OPUS) imaging of biological tissues.", *Applied Physics Letters*, 110(20), published online 19 May 2017.

<https://aip.scitation.org/doi/abs/10.1063/1.4983462>

iT_3. Anne Becker, Max Masthoff, Jing Claussen, Steven James Ford, Wolfgang Roll, Matthias Burg, Peter J. Barth, Walter Heindel, Michael Schäfers, Michel Eisenblätter, Moritz Wildgruber, "Multispectral optoacoustic tomography of the human breast: characterisation of healthy tissue and malignant lesions using a hybrid ultrasound-optoacoustic approach.", *European Society of Radiology*, 28(2), P.602-609, 2017.

<https://www.ncbi.nlm.nih.gov/pubmed/28786007>

iT_4. Knieling F., Neufert C., Hartmann A., Claussen J., Urich A., Egger C., Vetter M., Fischer S., Pfeifer L., Hagel A., Kielisch C., Görtz R.S., Wildner D., Engel M., Röther J., Uter W., Siebler J., Atreya R., Rascher W., Strobel D., Neurath M.F., Waldner M.J.. "Multispectral Optoacoustic Tomography for Assessment of Crohn's Disease Activity.", *The New England Journal of medicine*, 376(13), P.1292-1294, 2017.

<https://www.ncbi.nlm.nih.gov/pubmed/28355498>

iT_5. Yonggeng Goh, Ghayathri Balasundaram, Mohesh Moothanchery, Amalina Attia, Xiuting Li, Hann Qian Lim, Neal Burton, Yi Qiu, Thomas Choudary Putti, Ching Wan Chan, Philip Iau, Siau Wei Tang, Celene Wei Qi Ng, Felicity Jane Pool, Premilla Pillay, Wynne Chua, Eide Sterling, Swee Tian Quek, Malini Olivo, "Multispectral Optoacoustic Tomography in Assessment of Breast Tumor Margins During Breast-Conserving Surgery: A First-in-human Case Study.", *Clinical Breast Cancer*, 18(6), P.e1247-e1250, 2018

[https://www.clinical-breast-cancer.com/article/S1526-8209\(18\)30501-9/fulltext](https://www.clinical-breast-cancer.com/article/S1526-8209(18)30501-9/fulltext)

iT_6. Xin Hui Derryn Chan, Ghayathri Balasundaram², Amalina Binte Ebrahim Attia, Julian L. Goggi, Boominathan Ramasamy, Weiping Han, Malini Olivo, Shigeki Sugii, "Multimodal Imaging Approach to Monitor Browning of Adipose Tissue In Vivo.", Journal of Lipid Research, 59(6), P.1071-1078 <https://www.ncbi.nlm.nih.gov/pubmed/29654114>

iT_7. Matt D. Laramie, Mary K. Smith, Fahad Marmarchi, Lacey R. McNally, and Maged Henary, "Small Molecule Optoacoustic Contrast Agents: An Unexplored Avenue for Enhancing In Vivo Imaging.", Molecules, 23(11), P.2766, 2018.

<https://www.mdpi.com/1420-3049/23/11/2766>

iT_8. Elena Merčep, Xosé Luís, Deán-Ben, and Daniel Razansky, "Imaging of blood flow and oxygen state with a multi-segment optoacoustic ultrasound array.", Photoacoustics, 10, P.48-53, 2018

<https://www.sciencedirect.com/science/article/pii/S221359791830003X>

iT_9. Oshaani Abeyakoon, Stefan Morscher, Nina Dalhaus, Steven J. Ford, Iosif A. Mendichovszky, Roido Manavaki, Matthew Wallis, Penelope Moyle, Ramona Woitek, Andrew Patterson, Turid Torheim, James Joseph, Isabel Quiros Gonzalez, Sarah Bohndiek, Fiona J. Gilbert, "Optoacoustic Imaging Detects Hormone-Related Physiological Changes of Breast Parenchyma.", Ultraschall in Med, Published online 7 Jun 2018.

<https://www.ncbi.nlm.nih.gov/pubmed/29879743>

iT_10. Max Masthoff, Anne Helfen¹, Jing Claussen, Wolfgang Roll, Angelos Karlas, Heidemarie Becker, Gert Gabriëls, Jan Riess, Walter Heindel, Michael Schäfers, Vasilis Ntziachristos, Michel Eisenblätter, Ulrich Gerth and Moritz Wildgruber, "Multispectral optoacoustic tomography of systemic sclerosis.", Journal of biophotonics, First published: 04 July 2018.

<https://onlinelibrary.wiley.com/doi/abs/10.1002/jbio.201800155>

iT_11. Max Masthoff, Anne Helfen, Jing Claussen, Angelos Karlas, Niklas A. Markwardt, Vasilis Ntziachristos, Michel Eisenblätter, and Moritz Wildgruber, "Use of Multispectral Optoacoustic Tomography to Diagnose Vascular Malformations." JAMA Dermatology, Published online September 26, 2018

<https://www.ncbi.nlm.nih.gov/pubmed/30267083>

iT_12. Sung-Jin Park, Chris Jun Hui Ho, Satoshi Arai, Animesh Samanta, Malini Olivo, and Young-Tae Chang, "Visualizing Alzheimer's Disease Mouse Brain with

Multispectral Optoacoustic Tomography using a Fluorescent probe, CDnr7", Scientific Reports, 9, 12052, 2019

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6700105/>

iT_13. Ingo Stoffels, Philipp Jansen, Maximilian Petri, Lukas Goerd, Titus J. Brinker, Klaus G. Griewank, Thorsten D. Poeppel, Dirk Schadendorf and Joachim Klode, "Assessment of Nonradioactive Multispectral Optoacoustic Tomographic Imaging With Conventional Lymphoscintigraphic Imaging for Sentinel Lymph Node Biopsy in Melanoma", JAMA Network Open, 638(3), August 14, 2019

<https://jamanetwork.com/journals/jamanetworkopen/fullarticle/2747753>

iT_14. Elena Merčep, Joaquín L. Herraiz, Xosé Luís Deán-Ben and Daniel Razansky "Transmission-reflection optoacoustic ultrasound (TROPUS) computed tomography of small animals", Nature Light: Science & Applications volume, 8, Article number: 18, 2019.

<https://www.nature.com/articles/s41377-019-0130-5>

iT_15. Wolfgang Roll, Niklas A. Markwardt, Max Masthoff, Anne Helfen, Jing Claussen, Michel Eisenblätter, Alexa Hasenbach, Sven Hermann, Angelos Karlas, Moritz Wildgruber, Vasilis Ntziachristos and Michael Schäfers, "Multispectral optoacoustic tomography of benign and malignant thyroid disorders-a pilot study", Journal of Nuclear Medicine, published on March 8, 2019

<https://sci-hub.se/10.2967/jnumed.118.222174>

iT_16. Anne Helfen, Max Masthoff, Jing Claussen, Mirjam Gerwing, Walter Heindel, Vasilis Ntziachristos, Michel Eisenblätter, Michael Köhler and Moritz Wildgruber, "Multispectral Optoacoustic Tomography: Intra- and Interobserver Variability Using a Clinical Hybrid Approach", *Journal of Clinical Medicine*. 8(1), 63, 2019.

<https://www.mdpi.com/2077-0383/8/1/63>

iT_17. Adrian P. Regensburger, Lina M. Fonteyne, Jörg Jüngert, Alexandra L. Wagner, Teresa Gerhalter, Armin M. Nagel, Rafael Heiss, Florian Flenkenthaler, Matthias

Qurashi, Markus F. Neurath, Nikolai Klymiuk, Elisabeth Kemter, Thomas Fröhlich, Michael Uder, Joachim Woelfle, Wolfgang Rascher, Regina Trollmann, Eckhard Wolf, Maximilian J. Waldner and Ferdinand Knieling, "Detection of collagens by multispectral optoacoustic tomography as an imaging biomarker for Duchenne muscular dystrophy", *Nature Medicine*, 25, P.1905-1915, 2019.

<https://www.nature.com/articles/s41591-019-0669-y>

iT_18. Sung-Jin Park, Chris Jun Hui Ho, Satoshi Arai, Animesh Samanta, Malini Olivo and Young-Tae Chang, "Visualizing Alzheimer's Disease Mouse Brain with Multispectral Optoacoustic Tomography using a Fluorescent probe, CDnir7", *Scientific Reports*, 9, Article number: 12052, 2019.

<https://www.nature.com/articles/s41598-019-48329-4>

iT_19. Gavin Bell, Ghayathri Balasundaram, Amalina Binte Ebrahim Attia, Francesca Mandino, Malini Olivo and Ivan P. Parkin, "Functionalised iron oxide nanoparticles for multimodal optoacoustic and magnetic resonance imaging", *Journal of Materials Chemistry B*, 13, 2019.

<https://pubs.rsc.org/en/content/articlelanding/2019/tb/c8tb02299b/unauth#!divAbstract>

iT_20. Libin Yang, Liaoliao Li, Hong Gao, Dong Wang, ZhouYang, Hui Cao and Wanli He, "Photoacoustic effect of azo derivatives modified by click reagents and parceled by liposomes", *Dyes and Pigments*, 172, 2020.

<https://www.sciencedirect.com/science/article/pii/S0143720819302487>

iT_21. Yonggeng Goh, Ghayathri Balasundaram, Mohesh Moothanchery, Amalina Attia, Xiuting Li, Hann Qian Lim, Neal C. Burton, Yi Qiu, Thomas Choudary Putti, Ching Wan Chan, Philip Iau, Shaik Ahmad Buhari, Mikael Hartman, Siau Wei Tang, Celene Wei Qi Ng, Yiong Huak Chan, Felicity Jane Pool, Premilla Pillay, Wynne Chua, Jeevesh Kapur, Pooja Jagmohan, Eide Sterling, Swee Tian Quek and Malini Olivo, "Ultrasound Guided Optoacoustic Tomography in Assessment of Tumor Margins for Lumpectomies", *Translational Oncology*, 13(2), P.254-261, 2020.

<https://www.sciencedirect.com/science/article/pii/S1936523319305169>

iT_22. Berkan Lafci, Elena Merčep, Stefan Morscher, Xosé Luís Deán-Benand Daniel Razansky, "Deep Learning for Automatic Segmentation of Hybrid Optoacoustic Ultrasound (OPUS) Images", *IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control*, 07 September 2020.

<https://ieeexplore.ieee.org/abstract/document/9187434>

iT_23. Yonggeng Goh, Ghayathri Balasundaram, Mohesh Moothanchery, Amalina Attia, Xiuting Li, Hann Qian Lim, Neal C. Burton, Yi Qiu, Thomas Choudary Putti, Ching Wan Chan, Philip Iau, Shaik Ahmad Buhari, Mikael Hartman, Siau Wei Tang, Celene Wei Qi Ng, Yiong Huak Chan, Felicity Jane Pool, Premilla Pillay, Wynne Chua, Jeevesh Kapur, Pooja Jagmohan, Eide Sterling, Swee Tian Quek and Malini Olivo, "Ultrasound Guided Optoacoustic Tomography in Assessment of Tumor Margins for Lumpectomies", *Translational Oncology*, 13(2), P.254-261, 2020.

<https://www.sciencedirect.com/science/article/pii/S1936523319305169>

iT_24. Ghayathri Balasundaram, Yonggeng Goh, Mohesh Moothanchery, Amalina Attia, Hann Qian Lim, Neal C. Burton, Yi Qiu, Thomas Choudary Putti, Ching Wan Chan, Mikael Hartmann, Swee Tian Quek and Malini Olivo, "Optoacoustic characterization of breast conserving surgery specimens—A pilot study", *Photoacoustics*, 19, 2020.

<https://www.sciencedirect.com/science/article/pii/S2213597920300045>

iT_25. Guido Giacalone, Takumi Yamamoto, Florence Belva, and Akitatsu Hayashi, "Bedside 3D Visualization of Lymphatic Vessels with a Handheld Multispectral Optoacoustic Tomography Device", Journal of Clinical Medicine, 9(3), 815, 2020.

<https://www.mdpi.com/2077-0383/9/3/815>

iT_26. Berkan Lafci, Elena Mercep, Stefan Morscher, Xosé Luís Deán-Ben, and Daniel Razansky, "Efficient segmentation of multi-modal optoacoustic and ultrasound images using convolutional neural networks", SPIE BIOS, San Francisco, California, United States, 2020.

<https://www.spiedigitallibrary.org/conference-proceedings-of-spie/11240/112402N/Efficient-segmentation-of-multi-modal-optoacoustic-and-ultrasound-images-using/10.1117/12.2543970.short?SSO=1>