

Richard Colchester

List of Publications by Year in descending order

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Version: 2024-02-01

36
papers

998
citations

759233

12
h-index

713466

21
g-index

38
all docs

38
docs citations

38
times ranked

730
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Ultrasensitive plano-concave optical microresonators for ultrasound sensing. Nature Photonics, 2017, 11, 714-719. | 31.4 | 255 |
| 2 | Carbon Nanotube/PDMS Composite Coatings on Optical Fibers for All-Optical Ultrasound Imaging. Advanced Functional Materials, 2016, 26, 8390-8396. | 14.9 | 120 |
| 3 | Laser-generated ultrasound with optical fibres using functionalised carbon nanotube composite coatings. Applied Physics Letters, 2014, 104, . | 3.3 | 101 |
| 4 | Broadband miniature optical ultrasound probe for high resolution vascular tissue imaging. Biomedical Optics Express, 2015, 6, 1502. | 2.9 | 99 |
| 5 | Through-needle all-optical ultrasound imaging in vivo: a preclinical swine study. Light: Science and Applications, 2017, 6, e17103-e17103. | 16.6 | 90 |
| 6 | Polydimethylsiloxane Composites for Optical Ultrasound Generation and Multimodality Imaging. Advanced Functional Materials, 2018, 28, 1704919. | 14.9 | 81 |
| 7 | Optical fiber ultrasound transmitter with electrospun carbon nanotube-polymer composite. Applied Physics Letters, 2017, 110, 223701. | 3.3 | 54 |
| 8 | All-Optical Rotational Ultrasound Imaging. Scientific Reports, 2019, 9, 5576. | 3.3 | 47 |
| 9 | A directional fibre optic ultrasound transmitter based on a reduced graphene oxide and polydimethylsiloxane composite. Applied Physics Letters, 2019, 114, 113505. | 3.3 | 30 |
| 10 | Adaptive Light Modulation for Improved Resolution and Efficiency in All-Optical Pulse-Echo Ultrasound. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2016, 63, 83-90. | 3.0 | 21 |
| 11 | Haptic Guidance Based on All-Optical Ultrasound Distance Sensing for Safer Minimally Invasive Fetal Surgery. Journal of Medical Robotics Research, 2018, 03, 1841001. | 1.2 | 14 |
| 12 | CuInS ₂ Quantum Dot and Polydimethylsiloxane Nanocomposites for All-Optical Ultrasound and Photoacoustic Imaging. Advanced Materials Interfaces, 2021, 8, 2100518. | 3.7 | 13 |
| 13 | High-resolution sub-millimetre diameter side-viewing all-optical ultrasound transducer based on a single dual-clad optical fibre. Biomedical Optics Express, 2022, 13, 4047. | 2.9 | 9 |
| 14 | Micron resolution, high-fidelity three-dimensional vascular optical imaging phantoms. Journal of Biomedical Optics, 2019, 24, 1. | 2.6 | 7 |
| 15 | Robotic Control of a Multi-Modal Rigid Endoscope Combining Optical Imaging with All-Optical Ultrasound. , 2019, , . | | 6 |
| 16 | Flexible and directional fibre optic ultrasound transmitters using photostable dyes. OSA Continuum, 2021, 4, 2488. | 1.8 | 6 |
| 17 | PDMS composites with photostable NIR dyes for multi-modal ultrasound imaging. MRS Advances, 2022, 7, 499-503. | 0.9 | 6 |
| 18 | Acoustical characterisation of carbon nanotube-loaded polydimethylsiloxane used for optical ultrasound generation. , 2017, , . | | 5 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | Optically Generated Ultrasound for Intracoronary Imaging. <i>Frontiers in Cardiovascular Medicine</i> , 2020, 7, 525530. | 2.4 | 5 |
| 20 | Real-time needle guidance with photoacoustic and laser-generated ultrasound probes. <i>Proceedings of SPIE</i> , 2015, , . | 0.8 | 4 |
| 21 | Real-Time, Video-Rate and Depth-Resolved Imaging of Radio-Frequency Ablation Using All-Optical Ultrasound. , 2018, , . | | 4 |
| 22 | Large area all-optical ultrasound imaging using robotic control. , 2019, , . | | 4 |
| 23 | Fiber optic photoacoustic probe with ultrasonic tracking for guiding minimally invasive procedures. , 2015, , . | | 4 |
| 24 | Fiber optic photoacoustic probe with ultrasonic tracking for guiding minimally invasive procedures. <i>Proceedings of SPIE</i> , 2015, , . | 0.8 | 3 |
| 25 | Adaptive All-Optical Ultrasound Imaging Through Temporal Modulation of Excitation Light. , 2018, , . | | 3 |
| 26 | Robot-Assisted Optical Ultrasound Scanning. <i>IEEE Transactions on Medical Robotics and Bionics</i> , 2021, 3, 948-958. | 3.2 | 2 |
| 27 | All-optical pulse-echo ultrasound probe for intravascular imaging (Conference Presentation). , 2016, , . | | 1 |
| 28 | Dual-Modality All-Optical Ultrasound and Photoacoustic Imaging Using Permanent Marker Ink. , 2018, , . | | 1 |
| 29 | Real-time all-optical ultrasound imaging of a dynamic heart valve phantom. , 2021, , . | | 1 |
| 30 | Real-time and Freehand Multimodal Imaging: Combining White Light Endoscopy with All-Optical Ultrasound. , 2020, , . | | 1 |
| 31 | Fiber optic ultrasound transducers with carbon/PDMS composite coatings. , 2014, , . | | 0 |
| 32 | Notice of Removal: Acoustical characterisation of carbon nanotube-loaded polydimethylsiloxane used for optical ultrasound generation. , 2017, , . | | 0 |
| 33 | TCT CONNECT-373 Optical Ultrasound: A New Imaging Paradigm Allowing Real-Time Visualization of In Situ Fenestration of Aortic Endovascular Grafts During Aneurysm Repair. <i>Journal of the American College of Cardiology</i> , 2020, 76, B160-B161. | 2.8 | 0 |
| 34 | CuInS ₂ Quantum Dot and Polydimethylsiloxane Nanocomposites for All-Optical Ultrasound and Photoacoustic Imaging (<i>Adv. Mater. Interfaces</i> 20/2021). <i>Advanced Materials Interfaces</i> , 2021, 8, 2170114. | 3.7 | 0 |
| 35 | Optical fiber laser ultrasound transmitter with electrospun composite for minimally invasive medical imaging. , 2017, , . | | 0 |
| 36 | A hybrid approach of two-photon polymerization scaffold printing and microinjection of optically heterogenous material for the fabrication of vascular imaging phantoms (Conference Presentation). , 2019, , . | | 0 |