Pu Wang

List of Publications by Year
in descending order

22 papers	1,145 citations	567281 15 h-index	642732 23 g-index
23 all docs	23 docs citations	23 times ranked	1392 citing authors

#	Article	IF	Citations
1	Label-Free Bond-Selective Imaging by Listening to Vibrationally Excited Molecules. Physical Review Letters, 2011, 106, 238106.	7.8	132
2	Far-field imaging of non-fluorescent species with subdiffraction resolution. Nature Photonics, 2013, 7, 449-453.	31.4	131
3	High-speed Intravascular Photoacoustic Imaging of Lipid-laden Atherosclerotic Plaque Enabled by a 2-kHz Barium Nitrite Raman Laser. Scientific Reports, 2014, 4, 6889.	3.3	107
4	Assessing breast tumor margin by multispectral photoacoustic tomography. Biomedical Optics Express, 2015, 6, 1273.	2.9	101
5	Spectrometer-free vibrational imaging by retrieving stimulated Raman signal from highly scattered photons. Science Advances, 2015, 1, e1500738.	10.3	88
6	High-sensitivity intravascular photoacoustic imaging of lipidâ€“laden plaque with a collinear catheter design. Scientific Reports, 2016, 6, 25236.	3.3	78
7	Bondâ€selective imaging of deep tissue through the optical window between 1600 and 1850 nm. Journal of Biophotonics, 2012, 5, 25-32.	2.3	74
8	Rapid Determination of Antimicrobial Susceptibility by Stimulated Raman Scattering Imaging of D₂O Metabolic Incorporation in a Single Bacterium. Advanced Science, 2020, 7, 2001452.	11.2	72
9	Real-time intravascular photoacoustic-ultrasound imaging of lipid-laden plaque in human coronary artery at 16 frames per second. Scientific Reports, 2017, 7, 1417.	3.3	68
10	Mapping lipid and collagen by multispectral photoacoustic imaging of chemical bond vibration. Journal of Biomedical Optics, 2012, 17, 0960101.	2.6	51
11	Spectroscopic Imaging of Deep Tissue through Photoacoustic Detection of Molecular Vibration. Journal of Physical Chemistry Letters, 2013, 4, 2177-2185.	4.6	49
12	High-speed intravascular photoacoustic imaging at 17 Î¼m with a KTP-based OPO. Biomedical Optics Express, 2015, 6, 4557.	2.9	41
13	Labelâ€free in vivo imaging of peripheral nerve by multispectral photoacoustic tomography. Journal of Biophotonics, 2016, 9, 124-128.	2.3	29
14	Spectral analysis assisted photoacoustic imaging for lipid composition differentiation. Photoacoustics, 2017, 7, 12-19.	7.8	28
15	High-Speed Spectroscopic Transient Absorption Imaging of Defects in Graphene. Nano Letters, 2018, 18, 1489-1497.	9.1	26
16	Mechanisms of Epi-Detected Stimulated Raman Scattering Microscopy. IEEE Journal of Selected Topics in Quantum Electronics, 2012, 18, 384-388.	2.9	15
17	Vibrational Photoacoustic Tomography: Chemical Imaging beyond the Ballistic Regime. Journal of Physical Chemistry Letters, 2013, 4, 3211-3215.	4.6	15
18	Rapid antimicrobial susceptibility testing by stimulated Raman scattering metabolic imaging and morphological deformation of bacteria. Analytica Chimica Acta, 2021, 1168, 338622.	5.4	9

#	Article	IF	Citations
19	A Review of Raman-Based Technologies for Bacterial Identification and Antimicrobial Susceptibility Testing. Photonics, 2022, 9, 133.	2.0	8
20	A rapid procedure for bacterial identification and antimicrobial susceptibility testing directly from positive blood cultures. Analyst, The, 2021, 147, 147-154.	3.5	5
21	Automatic quantitative analysis of metabolism inactivation concentration in single bacterium using stimulated Raman scattering microscopy with deep learning image segmentation. Medicine in Novel Technology and Devices, 2022, 14, 100114.	1.6	3
22	Clear cell renal cell carcinoma detection by multimodal photoacoustic tomography. Photoacoustics, 2021, 21, 100221.	7.8	1