Freddy T Nguyen

List of Publications by Year
in descending order

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48 papers	2,501 citations	361413 20 h-index	345221 36 g-index
49 all docs	49 docs citations	49 times ranked	4651 citing authors

#	Article	IF	Citations
1	Optical coherence tomography: a review of clinical development from bench to bedside. Journal of Biomedical Optics, 2007, 12, 051403.	2.6	440
2	Convalescent plasma treatment of severe COVID-19: a propensity scoreâ€“matched control study. Nature Medicine, 2020, 26, 1708-1713.	30.7	405
3	Intraoperative Evaluation of Breast Tumor Margins with Optical Coherence Tomography. Cancer Research, 2009, 69, 8790-8796.	0.9	346
4	Multimodal Biomedical Imaging with Asymmetric Single-Walled Carbon Nanotube/Iron Oxide Nanoparticle Complexes. Nano Letters, 2007, 7, 861-867.	9.1	268
5	Fourier Transform Light Scattering of Inhomogeneous and Dynamic Structures. Physical Review Letters, 2008, 101, 238102.	7.8	137
6	Optical Biopsy of Lymph Node Morphology using Optical Coherence Tomography. Technology in Cancer Research and Treatment, 2005, 4, 539-547.	1.9	76
7	Optical Coherence Tomography: The Intraoperative Assessment of Lymph Nodes in Breast Cancer. IEEE Engineering in Medicine and Biology Magazine, 2010, 29, 63-70.	0.8	75
8	Neutralizing Antibody Responses in COVID-19 Convalescent Sera. Journal of Infectious Diseases, 2021, 223, 47-55.	4.0	70
9	Optical properties of tissues quantified by Fourier-transform light scattering. Optics Letters, 2009, 34, 1372.	3.3	68
10	Challenges and opportunities for reinvigorating the physician-scientist pipeline. Journal of Clinical Investigation, 2015, 125, 883-887.	8.2	54
11	Targeted Multifunctional Multimodal Protein-Shell Microspheres as Cancer Imaging Contrast Agents. Molecular Imaging and Biology, 2012, 14, 17-24.	2.6	49
12	Needle-based refractive index measurement using low-coherence interferometry. Optics Letters, 2007, 32, 385.	3.3	46
13	Implantable Nanosensors for Human Steroid Hormone Sensing In Vivo Using a Selfâ€Templating Corona Phase Molecular Recognition. Advanced Healthcare Materials, 2020, 9, e2000429.	7.6	45
14	Instrumentation for Multi-modal Spectroscopic Diagnosis of Epithelial Dysplasia. Technology in Cancer Research and Treatment, 2003, 2, 505-514.	1.9	41
15	Color-blind fluorescence detection for four-color DNA sequencing. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 5346-5351.	7.1	39
16	Measuring Uptake Dynamics of Multiple Identifiable Carbon Nanotube Species via High-Speed Confocal Raman Imaging of Live Cells. Nano Letters, 2012, 12, 6170-6174.	9.1	37
17	Implanted Nanosensors in Marine Organisms for Physiological Biologging: Design, Feasibility, and Species Variability. ACS Sensors, 2019, 4, 32-43.	7.8	36
18	Clinical Feasibility of Microscopically-Guided Breast Needle Biopsy Using a Fiber-Optic Probe with Computer-Aided Detection. Technology in Cancer Research and Treatment, 2009, 8, 315-321.	1.9	35

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19	A wavelength-induced frequency filtering method for fluorescent nanosensors in vivo. Nature Nanotechnology, 2022, 17, 643-652.	31.5	27
20	Fourier Transform Light Scattering (FTLS) of Cells and Tissues. Journal of Computational and Theoretical Nanoscience, 2010, 7, 2501-2511.	0.4	22
21	A Fiber Optic Interface Coupled to Nanosensors: Applications to Protein Aggregation and Organic Molecule Quantification. ACS Nano, 2020, 14, 10141-10152.	14.6	21
22	Rapid crowdsourced innovation for COVID-19 response and economic growth. Npj Digital Medicine, 2021, 4, 18.	10.9	20
23	Investigating Effects of Proteasome Inhibitor on Multiple Myeloma Cells Using Confocal Raman Microscopy. Sensors, 2016, 16, 2133.	3.8	19
24	DNAâ€“SWCNT Biosensors Allow Real-Time Monitoring of Therapeutic Responses in Pancreatic Ductal Adenocarcinoma. Cancer Research, 2019, 79, 4515-4523.	0.9	17
25	Transfusion reactions associated with <scp>COVID</scp>â€19 convalescent plasma therapy for <scp>SARSâ€CoV</scp>â€2. Transfusion, 2021, 61, 78-93.	1.6	17
26	MIT COVID-19 Datathon: data without boundaries. BMJ Innovations, 2021, 7, 231-234.	1.7	13
27	In vivo detection of drug-induced apoptosis in tumors using Raman spectroscopy. Analyst, The, 2018, 143, 4836-4839.	3.5	11
28	Transcutaneous Measurement of Essential Vitamins Using Nearâ€Infrared Fluorescent Singleâ€Walled Carbon Nanotube Sensors. Small, 2021, 17, e2100540.	10.0	10
29	Translational Careers. Science, 2009, 324, 855-855.	12.6	9
30	Portable real-time optical coherence tomography system for intraoperative imaging and staging of breast cancer. , 2007, , .		8
31	Temporal Imaging of Live Cells by High-Speed Confocal Raman Microscopy. Materials, 2021, 14, 3732.	2.9	6
32	The birth of the American Physician Scientists Association â€" the next generation of Young Turks. Journal of Clinical Investigation, 2008, 118, 1237-1240.	8.2	5
33	Coherent optical imaging and guided interventions in breast cancer: translating technology into clinical applications. , 2008, , .		4
34	Characterization of Magnetic Nanoparticle-Seeded Microspheres for Magnetomotive and Multimodal Imaging. IEEE Journal of Selected Topics in Quantum Electronics, 2019, 25, 1-14.	2.9	4
35	Magnetic protein microspheres as dynamic contrast agents for magnetomotive optical coherence tomography. , 2008, , .		3
36	Magnetomotive optical coherence microscopy for cell dynamics and biomechanics. Proceedings of SPIE, 2011, , .	0.8	2

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37	Generalized Semiconductor Bloch Equations. Journal of Computational and Theoretical Nanoscience, 2004, 1, 144-168.	0.4	2
38	Grass-roots entrepreneurship complements traditional top-down innovation in lung and breast cancer. Npj Digital Medicine, 2022, 5, 10.	10.9	2
39	Restructuring MDâ€“PhD Programs: Career Training or Broad Education?. Academic Medicine, 2009, 84, 407.	1.6	1
40	Toward a Better Understanding of the Retention of Physicianâ€“Scientists in the Career Pipeline. Academic Medicine, 2012, 87, 390-391.	1.6	1
41	Abstract 4885: Targeted multi-modal protein microspheres for cancer imaging. , 2011, , .		1
42	Optical coherence tomography (OCT) as a diagnostic tool for the real-time intraoperative assessment of breast cancer surgical margins.. , 2009, , .		1
43	Emerging technologies in cancer detection. , 2022, , 353-392.		1
44	Needle-probe system for the measurement of tissue refractive index. , 2007, , .		0
45	Three-Dimensional Visualization of Lymph Node Morphology using OCT. , 2006, , .		0
46	Intraoperative Needle-based Refractive Index Measurement of Ex Vivo Human Breast Tissue. , 2007, , .		0
47	NONPROFIT WORLD. Science, 2008, 320, 727-727.	12.6	0
48	Abstract 4559: RGD coated protein microspheres as a dual fluorescent and magnetomotive contrast agent for targeted cancer imaging with magnetomotive optical coherence tomography. , 2010, , .		0