J Carl Kumaradas

List of Publications by Year
in descending order

32	768	687363 13	552781 26
papers	citations	h-index	g-index

34	34	34	1400
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A new thermal dose model based on Vogel-Tammann-Fulcher behaviour in thermal damage processes. International Journal of Hyperthermia, 2022, 39, 697-705.	2.5	2
2	A novel photoacoustic-fluorescent contrast agent for quantitative imaging of lymphatic drainage. Photoacoustics, 2021, 21, 100239.	7.8	15
3	Noninvasive calibrated tissue temperature estimation using backscattered energy of acoustic harmonics. Ultrasonics, 2021, 114, 106406.	3.9	10
4	Real-Time Control of Nanoparticle-Mediated Thermal Therapy Using Photoacoustic Imaging. IEEE Transactions on Biomedical Engineering, 2021, 68, 2188-2194.	4.2	7
5	Real-time non-invasive control of tissue temperature using high-frequency ultrasonic backscattered energy. , 2021, , .		2
6	Efficient Frequency-Domain Synthetic Aperture Focusing Techniques for Imaging With a High-Frequency Single-Element Focused Transducer. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2019, 66, 57-70.	3.0	3
7	Surface Enhanced Raman Spectroscopy (SERS) optical fibers for remote sensing. , 2019, , .		0
8	Raman spectroscopy and biochemical modeling of ex-vivo breast tissues and deparaffinized tissue samples. , 2018, , .		0
9	The wavelength dependence of gold nanorodâ€mediated optical breakdown during infrared ultrashort pulses. Annalen Der Physik, 2017, 529, 1600135.	2.4	2
10	Bimetallic gold coreâ€“silver shell nanorod performance for surface enhanced Raman spectroscopy. RSC Advances, 2017, 7, 53164-53171.	3.6	17
11	The role of morphology and coupling of gold nanoparticles in optical breakdown during picosecond pulse exposures. Beilstein Journal of Nanotechnology, 2016, 7, 869-880.	2.8	13
12	Analysis of Photoacoustic Response from Goldâ€“Silver Alloy Nanoparticles Irradiated by Short Pulsed Laser in Water. Journal of Physical Chemistry C, 2015, 119, 24075-24080.	3.1	53
13	Steady flow through a constricted cylinder by multiparticle collision dynamics. Biomechanics and Modeling in Mechanobiology, 2013, 12, 929-939.	2.8	4
14	Enhancing laser thermal-therapy using ultrasoundâ€“microbubbles and gold nanorods of in vitro cells. Ultrasonics, 2013, 53, 793-798.	3.9	14
15	Investigating longitudinal changes in the mechanical properties of MCF-7 cells exposed to paclitaxol using particle tracking microrheology. Physics in Medicine and Biology, 2013, 58, 923-936.	3.0	26
16	Enhancing laser thermal-therapy using ultrasound-microbubbles and gold nanorods: In vitro investigation. AIP Conference Proceedings, 2012, , .	0.4	2
17	A Quantitative Study of the Environmental Effects on the Optical Response of Gold Nanorods. ACS Nano, 2012, 6, 8183-8193.	14.6	58
18	Surface modes and acoustic scattering of microspheres and ultrasound contrast agents. Journal of the Acoustical Society of America, 2012, 132, 1820-1829.	1.1	11

#	Article	IF	Citations
19	The measurement of ultrasound scattering from individual micron-sized objects and its application in single cell scattering. Journal of the Acoustical Society of America, 2010, 128, 894-902.	1.1	25
20	A novel technique for measuring ultrasound backscatter from single micron-sized objects. , 2009, , .		0
21	Enhancing the Toxicity of Cancer Chemotherapeutics with Gold Nanorod Hyperthermia. Advanced Materials, 2008, 20, 3832-3838.	21.0	371
22	A study of high frequency ultrasound scattering from non-nucleated biological specimens. Journal of the Acoustical Society of America, 2008, 124, EL278-EL283.	1.1	13
23	Uncertainty and Sensitivity Analysis for a Tissue Laser-Irradiation Tissue Model. , 2006, , .		2
24	P3E-3 Finite Element Modeling of Ultrasound Scattering by Spherical Objects and Cells. , 2006, , .		0
25	Edge-element based finite element analysis of microwave hyperthermia treatments for superficial tumours on the chest wall. International Journal of Hyperthermia, 2003, 19, 414-430.	2.5	10
26	Optimization of a beam shaping bolus for superficial microwave hyperthermia waveguide applicators using a finite element method. Physics in Medicine and Biology, 2003, 48, 1-18.	3.0	33
27	Feasibility of salvage interstitial microwave thermal therapy for prostate carcinoma following failed brachytherapy: studies in a tissue equivalent phantom. Physics in Medicine and Biology, 2003, 48, 1041-1052.	3.0	19
28	An edge-element based finite element model of microwave heating in hyperthermia: application to a bolus design. International Journal of Hyperthermia, 2002, 18, 441-453.	2.5	7
29	An edge-element based finite element model of microwave heating in hyperthermia: method and verification. International Journal of Hyperthermia, 2002, 18, 426-440.	2.5	9
30	Effect of simultaneous pulsed hyperthermia and pulsed radiation treatment on survival of SiHa cells. International Journal of Hyperthermia, 1998, 14, 573-581.	2.5	4
31	Digital portal image registration by sequential anatomical matchpoint and image correlations for real-time continuous field alignment verification. Medical Physics, 1995, 22, 1063-1075.	3.0	17
32	A variable microwave array attenuator for use with single-element waveguide applicators. International Journal of Hyperthermia, 1994, 10, 723-731.	2.5	19