

# J Carl Kumaradas

## List of Publications by Year in descending order

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32  
papers

768  
citations

687363

13  
h-index

552781

26  
g-index

34  
all docs

34  
docs citations

34  
times ranked

1400  
citing authors

#	ARTICLE	IF	CITATIONS
1	Enhancing the Toxicity of Cancer Chemotherapeutics with Gold Nanorod Hyperthermia. <i>Advanced Materials</i> , 2008, 20, 3832-3838.	21.0	371
2	A Quantitative Study of the Environmental Effects on the Optical Response of Gold Nanorods. <i>ACS Nano</i> , 2012, 6, 8183-8193.	14.6	58
3	Analysis of Photoacoustic Response from Gold-Silver Alloy Nanoparticles Irradiated by Short Pulsed Laser in Water. <i>Journal of Physical Chemistry C</i> , 2015, 119, 24075-24080.	3.1	53
4	Optimization of a beam shaping bolus for superficial microwave hyperthermia waveguide applicators using a finite element method. <i>Physics in Medicine and Biology</i> , 2003, 48, 1-18.	3.0	33
5	Investigating longitudinal changes in the mechanical properties of MCF-7 cells exposed to paclitaxol using particle tracking microrheology. <i>Physics in Medicine and Biology</i> , 2013, 58, 923-936.	3.0	26
6	The measurement of ultrasound scattering from individual micron-sized objects and its application in single cell scattering. <i>Journal of the Acoustical Society of America</i> , 2010, 128, 894-902.	1.1	25
7	A variable microwave array attenuator for use with single-element waveguide applicators. <i>International Journal of Hyperthermia</i> , 1994, 10, 723-731.	2.5	19
8	Feasibility of salvage interstitial microwave thermal therapy for prostate carcinoma following failed brachytherapy: studies in a tissue equivalent phantom. <i>Physics in Medicine and Biology</i> , 2003, 48, 1041-1052.	3.0	19
9	Digital portal image registration by sequential anatomical matchpoint and image correlations for real-time continuous field alignment verification. <i>Medical Physics</i> , 1995, 22, 1063-1075.	3.0	17
10	Bimetallic gold core-silver shell nanorod performance for surface enhanced Raman spectroscopy. <i>RSC Advances</i> , 2017, 7, 53164-53171.	3.6	17
11	A novel photoacoustic-fluorescent contrast agent for quantitative imaging of lymphatic drainage. <i>Photoacoustics</i> , 2021, 21, 100239.	7.8	15
12	Enhancing laser thermal-therapy using ultrasound-microbubbles and gold nanorods of in vitro cells. <i>Ultrasonics</i> , 2013, 53, 793-798.	3.9	14
13	A study of high frequency ultrasound scattering from non-nucleated biological specimens. <i>Journal of the Acoustical Society of America</i> , 2008, 124, EL278-EL283.	1.1	13
14	The role of morphology and coupling of gold nanoparticles in optical breakdown during picosecond pulse exposures. <i>Beilstein Journal of Nanotechnology</i> , 2016, 7, 869-880.	2.8	13
15	Surface modes and acoustic scattering of microspheres and ultrasound contrast agents. <i>Journal of the Acoustical Society of America</i> , 2012, 132, 1820-1829.	1.1	11
16	Edge-element based finite element analysis of microwave hyperthermia treatments for superficial tumours on the chest wall. <i>International Journal of Hyperthermia</i> , 2003, 19, 414-430.	2.5	10
17	Noninvasive calibrated tissue temperature estimation using backscattered energy of acoustic harmonics. <i>Ultrasonics</i> , 2021, 114, 106406.	3.9	10
18	An edge-element based finite element model of microwave heating in hyperthermia: method and verification. <i>International Journal of Hyperthermia</i> , 2002, 18, 426-440.	2.5	9

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19	An edge-element based finite element model of microwave heating in hyperthermia: application to a bolus design. <i>International Journal of Hyperthermia</i> , 2002, 18, 441-453.	2.5	7
20	Real-Time Control of Nanoparticle-Mediated Thermal Therapy Using Photoacoustic Imaging. <i>IEEE Transactions on Biomedical Engineering</i> , 2021, 68, 2188-2194.	4.2	7
21	Effect of simultaneous pulsed hyperthermia and pulsed radiation treatment on survival of SiHa cells. <i>International Journal of Hyperthermia</i> , 1998, 14, 573-581.	2.5	4
22	Steady flow through a constricted cylinder by multiparticle collision dynamics. <i>Biomechanics and Modeling in Mechanobiology</i> , 2013, 12, 929-939.	2.8	4
23	Efficient Frequency-Domain Synthetic Aperture Focusing Techniques for Imaging With a High-Frequency Single-Element Focused Transducer. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2019, 66, 57-70.	3.0	3
24	Uncertainty and Sensitivity Analysis for a Tissue Laser-Irradiation Tissue Model. , 2006, , .		2
25	Enhancing laser thermal-therapy using ultrasound-microbubbles and gold nanorods: In vitro investigation. <i>AIP Conference Proceedings</i> , 2012, , .	0.4	2
26	The wavelength dependence of gold nanorod-mediated optical breakdown during infrared ultrashort pulses. <i>Annalen Der Physik</i> , 2017, 529, 1600135.	2.4	2
27	Real-time non-invasive control of tissue temperature using high-frequency ultrasonic backscattered energy. , 2021, , .		2
28	A new thermal dose model based on Vogel-Tammann-Fulcher behaviour in thermal damage processes. <i>International Journal of Hyperthermia</i> , 2022, 39, 697-705.	2.5	2
29	P3E-3 Finite Element Modeling of Ultrasound Scattering by Spherical Objects and Cells. , 2006, , .		0
30	A novel technique for measuring ultrasound backscatter from single micron-sized objects. , 2009, , .		0
31	Raman spectroscopy and biochemical modeling of ex-vivo breast tissues and deparaffinized tissue samples. , 2018, , .		0
32	Surface Enhanced Raman Spectroscopy (SERS) optical fibers for remote sensing. , 2019, , .		0