

# Jae G Kim

## List of Publications by Year in descending order

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Version: 2024-02-01

61  
papers

1,263  
citations

361413

20  
h-index

395702

33  
g-index

61  
all docs

61  
docs citations

61  
times ranked

1436  
citing authors

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 1  | Novel diagnostic tools for identifying cognitive impairment using olfactory-stimulated functional near-infrared spectroscopy: patient-level, single-group, diagnostic trial. <i>Alzheimer's Research and Therapy</i> , 2022, 14, 39. | 6.2 | 5         |
| 2  | Deep Learning-Based Multilevel Classification of Alzheimer's Disease Using Non-invasive Functional Near-Infrared Spectroscopy. <i>Frontiers in Aging Neuroscience</i> , 2022, 14, 810125.  | 3.4 | 11        |
| 3  | Changes in Mitochondria-Related Gene Expression upon Acupuncture at LR3 in the D-Galactosamine-Induced Liver Damage Rat Model. <i>Evidence-based Complementary and Alternative Medicine</i> , 2022, 2022, 1-10.                      | 1.2 | 2         |
| 4  | Wearable Transcranial Ultrasound System for Remote Stimulation of Freely Moving Animal. <i>IEEE Transactions on Biomedical Engineering</i> , 2021, 68, 2195-2202.  | 4.2 | 12        |
| 5  | Changes of Apomorphine-Induced Vaginal Hemodynamics in an Ovariectomized Rat Model Using Near-Infrared Spectroscopic Probe. <i>Journal of Sexual Medicine</i> , 2021, 18, 1328-1336.   | 0.6 | 0         |
| 6  | Rapid and non-destructive spectroscopic method for classifying beef freshness using a deep spectral network fused with myoglobin information. <i>Food Chemistry</i> , 2021, 352, 129329.   | 8.2 | 22        |
| 7  | Heart and Lung Sound Measurement Using an Esophageal Stethoscope with Adaptive Noise Cancellation. <i>Sensors</i> , 2021, 21, 6757.  | 3.8 | 6         |
| 8  | Development of an Integrated EEG/fNIRS Brain Function Monitoring System. <i>Sensors</i> , 2021, 21, 7703.  | 3.8 | 6         |
| 9  | Effects of transcranial ultrasound stimulation pulsed at 40 kHz on A $\beta$ plaques and brain rhythms in 5 $\times$ FAD mice. <i>Translational Neurodegeneration</i> , 2021, 10, 48.  | 8.0 | 17        |
| 10 | Analysis of relation between skin elasticity and the entropy of skin image using near-infrared and visible light sources. <i>Journal of Biophotonics</i> , 2020, 13, e201900213.   | 2.3 | 1         |
| 11 | An approach for correcting optical paths of different wavelength lasers in diffusive medium based on Monte Carlo simulation. <i>Optics and Laser Technology</i> , 2019, 120, 105712.   | 4.6 | 1         |
| 12 | Design of an Optical Probe to Monitor Vaginal Hemodynamics during Sexual Arousal. <i>Sensors</i> , 2019, 19, 2129.   | 3.8 | 2         |
| 13 | Non-invasive measurement of hemodynamic change during 8 MHz transcranial focused ultrasound stimulation using near-infrared spectroscopy. <i>BMC Neuroscience</i> , 2019, 20, 12.  | 1.9 | 16        |
| 14 | Investigation of brain functional connectivity in patients with mild cognitive impairment: A functional near-infrared spectroscopy (fNIRS) study. <i>Journal of Biophotonics</i> , 2019, 12, e201800298.                             | 2.3 | 41        |
| 15 | The hemodynamic changes during cupping therapy monitored by using an optical sensor embedded cup. <i>Journal of Biophotonics</i> , 2019, 12, e201800286.   | 2.3 | 10        |
| 16 | Diffuse reflectance spectroscopy to quantify the met-myoglobin proportion and meat oxygenation inside of pork and beef. <i>Food Chemistry</i> , 2019, 275, 369-376.  | 8.2 | 20        |
| 17 | A simple but quantitative method for non-destructive monitoring of myoglobin redox forms inside the meat. <i>Journal of Food Science and Technology</i> , 2019, 56, 5354-5361.   | 2.8 | 4         |
| 18 | Development of simple diffuse optical metabolic spectroscopy for tissue metabolism measurement. <i>Biomedical Optics Express</i> , 2019, 10, 2956.   | 2.9 | 9         |

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|----|--|-----|-----------|
| 19 | Exploring brain functional connectivity in rest and sleep states: a fNIRS study. <i>Scientific Reports</i> , 2018, 8, 16144.   | 3.3 | 45        |
| 20 | The changes of cerebral hemodynamics during ketamine induced anesthesia in a rat model. <i>Journal of Biophotonics</i> , 2018, 11, e201800081.   | 2.3 | 6         |
| 21 | Simultaneous Monitoring of Hemodynamic Response in the Pre-Frontal Cortex and Genital Organ During Sexual Arousal Using Near-Infrared Spectroscopy. <i>Sexual Medicine</i> , 2018, 6, 234-238.                     | 1.6 | 2         |
| 22 | Breast tumor hemodynamic response during a breath-hold as a biomarker to predict chemotherapeutic efficacy: preclinical study. <i>Journal of Biomedical Optics</i> , 2018, 23, 1.                                  | 2.6 | 3         |
| 23 | Utilization of a combined EEG/NIRS system to predict driver drowsiness. <i>Scientific Reports</i> , 2017, 7, 43933.  | 3.3 | 100       |
| 24 | Monitoring cerebral hemodynamic change during transcranial ultrasound stimulation using optical intrinsic signal imaging. <i>Scientific Reports</i> , 2017, 7, 13148.  | 3.3 | 36        |
| 25 | Imaging of the Finger Vein and Blood Flow for Anti-Spoofing Authentication Using a Laser and a MEMS Scanner. <i>Sensors</i> , 2017, 17, 925.   | 3.8 | 15        |
| 26 | Longitudinal Raman Spectroscopic Observation of Skin Biochemical Changes due to Chemotherapeutic Treatment for Breast Cancer in Small Animal Model. <i>Journal of Spectroscopy</i> , 2017, 2017, 1-9.              | 1.3 | 1         |
| 27 | Change of tumor vascular reactivity during tumor growth and postchemotherapy observed by near-infrared spectroscopy. <i>Journal of Biomedical Optics</i> , 2017, 22, 121603.                                       | 2.6 | 4         |
| 28 | Differential modulation of thalamo-parietal interactions by varying depths of isoflurane anesthesia. <i>PLoS ONE</i> , 2017, 12, e0175191.   | 2.5 | 4         |
| 29 | Exploring Neuro-Physiological Correlates of Drivers' Mental Fatigue Caused by Sleep Deprivation Using Simultaneous EEG, ECG, and fNIRS Data. <i>Frontiers in Human Neuroscience</i> , 2016, 10, 219.               | 2.0 | 153       |
| 30 | Monitoring of cerebral oxygenation and local field potential with a variation of isoflurane concentration in a rat model. <i>Biomedical Optics Express</i> , 2016, 7, 4114.  | 2.9 | 8         |
| 31 | Changes in thalamo-frontal interaction under different levels of anesthesia in rats. <i>Neuroscience Letters</i> , 2016, 627, 18-23.   | 2.1 | 14        |
| 32 | Met-myoglobin formation, accumulation, degradation, and myoglobin oxygenation monitoring based on multiwavelength attenuation measurement in porcine meat. <i>Journal of Biomedical Optics</i> , 2016, 21, 057002. | 2.6 | 8         |
| 33 | Low-cost compact diffuse speckle contrast flowmeter using small laser diode and bare charge-coupled-device. <i>Journal of Biomedical Optics</i> , 2016, 21, 080501.  | 2.6 | 26        |
| 34 | Simultaneous blood flow and blood oxygenation measurements using a combination of diffuse speckle contrast analysis and near-infrared spectroscopy. <i>Journal of Biomedical Optics</i> , 2016, 21, 027001.        | 2.6 | 28        |
| 35 | A discrepancy of penile hemodynamics during visual sexual stimulation observed by near-infrared spectroscopy. <i>BMC Urology</i> , 2015, 15, 11.   | 1.4 | 10        |
| 36 | Preliminary Study of Gender-Based Brain Lateralization Using Multi-Channel Near-Infrared Spectroscopy. <i>Journal of the Optical Society of Korea</i> , 2015, 19, 284-296.   | 0.6 | 6         |

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|----|---|-----|-----------|
| 37 | Simultaneous monitoring of hemodynamic changes from brain and spinal cord during visual sexual stimulation. , 2014, , .   |     | 0         |
| 38 | Noninvasive optical cytochrome c oxidase redox state measurements using diffuse optical spectroscopy. Journal of Biomedical Optics, 2014, 19, 055001.   | 2.6 | 14        |
| 39 | Recent functional near infrared spectroscopy based brain computer interface systems: Developments, applications and challenges. Biomedical Engineering Letters, 2014, 4, 223-230.   | 4.1 | 25        |
| 40 | Noninvasive monitoring of treatment response in a rabbit cyanide toxicity model reveals differences in brain and muscle metabolism. Journal of Biomedical Optics, 2012, 17, 1050051.  | 2.6 | 10        |
| 41 | Spatial Frequency Domain Imaging of Intrinsic Optical Property Contrast in a Mouse Model of Alzheimer's Disease. Annals of Biomedical Engineering, 2011, 39, 1349-1357.   | 2.5 | 68        |
| 42 | Synthesis and Antitumor Molecular Mechanism of Agents Based on Amino 2-(3,4,5-trimethoxybenzoyl)benzo[ <i>b</i> ]furan: Inhibition of Tubulin and Induction of Apoptosis. 3.2 ChemMedChem, 2011, 6, 1841-1853.                                      |     | 10        |
| 43 | In Vivo Near-Infrared Spectroscopy and Magnetic Resonance Imaging Monitoring of Tumor Response to Combretastatin A-4-Phosphate Correlated With Therapeutic Outcome. International Journal of Radiation Oncology Biology Physics, 2011, 80, 574-581. | 0.8 | 25        |
| 44 | PAX6 suppression of glioma angiogenesis and the expression of vascular endothelial growth factor A. Journal of Neuro-Oncology, 2010, 96, 191-200.   | 2.9 | 32        |
| 45 | Sulfanegen sodium treatment in a rabbit model of sub-lethal cyanide toxicity. Toxicology and Applied Pharmacology, 2010, 248, 269-276.  | 2.8 | 39        |
| 46 | Intramuscular Cobinamide Sulfite in a Rabbit Model of Sublethal Cyanide Toxicity. Annals of Emergency Medicine, 2010, 55, 352-363.  | 0.6 | 58        |
| 47 | Comparison of cobinamide to hydroxocobalamin in reversing cyanide physiologic effects in rabbits using diffuse optical spectroscopy monitoring. Journal of Biomedical Optics, 2010, 15, 017001.   | 2.6 | 54        |
| 48 | Noninvasive In Vivo Monitoring of Cyanide Toxicity and Treatment Using Diffuse Optical Spectroscopy in a Rabbit Model. Military Medicine, 2009, 174, 615-621.   | 0.8 | 10        |
| 49 | Broadband diffuse optical spectroscopy assessment of hemorrhage- and hemoglobin-based blood substitute resuscitation. Journal of Biomedical Optics, 2009, 14, 044027.   | 2.6 | 10        |
| 50 | Brcal/p53 deficient mouse breast tumor hemodynamics during hyperoxic respiratory challenge monitored by a novel wide-field functional imaging (WiFI) system. Proceedings of SPIE, 2009, , .   | 0.8 | 1         |
| 51 | Investigation of biphasic tumor oxygen dynamics induced by hyperoxic gas intervention: the dynamic phantom approach. Applied Optics, 2008, 47, 242.   | 2.1 | 16        |
| 52 | Tissue hemoglobin monitoring of progressive central hypovolemia in humans using broadband diffuse optical spectroscopy. Journal of Biomedical Optics, 2008, 13, 064027.   | 2.6 | 15        |
| 53 | Chemotherapeutic (cyclophosphamide) effects on rat breast tumor hemodynamics monitored by multi-channel NIRS. , 2005, , .   |     | 0         |
| 54 | Extinction coefficients of hemoglobin for near-infrared spectroscopy of tissue. IEEE Engineering in Medicine and Biology Magazine, 2005, 24, 118-121.   | 0.8 | 64        |

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|----|--|-----|-----------|
| 55 | Investigation of rat breast tumour oxygen consumption by near-infrared spectroscopy. Journal Physics D: Applied Physics, 2005, 38, 2682-2690.  | 2.8 | 11        |
| 56 | Investigation of bi-phasic tumor oxygen dynamics induced by hyperoxic gas intervention: A numerical study. Optics Express, 2005, 13, 4465.   | 3.4 | 4         |
| 57 | Near-Infrared Spectroscopy and Imaging of Tumor Vascular Oxygenation. Methods in Enzymology, 2004, 386, 349-378.   | 1.0 | 24        |
| 58 | Dynamic response of breast tumor oxygenation to hyperoxic respiratory challenge monitored with three oxygen-sensitive parameters. Applied Optics, 2003, 42, 2960.  | 2.1 | 44        |
| 59 | Interplay of tumor vascular oxygenation and tumor $pO_2$ observed using near-infrared spectroscopy, an oxygen needle electrode, and $^{19}F$ MR $pO_2$ mapping. Journal of Biomedical Optics, 2003, 8, 53. | 2.6 | 70        |
| 60 | Nonuniform tumor vascular oxygen dynamics monitored by three-channel near-infrared spectroscopy. , 2003, , .   |     | 3         |
| 61 | <title>Interplay of tumor vascular oxygenation and $pO_2$ in tumors using NIRS and needle electrode</title> . , 2001, 4250, 429.   |     | 2         |