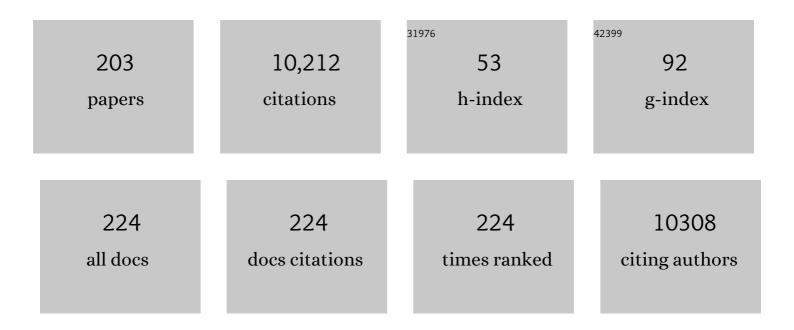
John C Bischof

List of Publications by Year in descending order

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| # | Article | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Sperm cryopreservation, inÂvitro fertilization, and embryo freezing. , 2022, , 157-181. | | Ο |
| 2 | Vitrification and Rewarming of Magnetic Nanoparticle‣oaded Rat Hearts. Advanced Materials Technologies, 2022, 7, 2100873. | 5.8 | 25 |
| 3 | Thermal Analyses of Nanowarming-Assisted Recovery of the Heart From Cryopreservation by Vitrification. Journal of Heat Transfer, 2022, 144, . | 2.1 | 6 |
| 4 | Bioapplications of Magnetic Nanowires: Barcodes, Biocomposites, Heaters. IEEE Transactions on Magnetics, 2022, 58, 1-6. | 2.1 | 2 |
| 5 | Characterization of Miniature Probes for Cryosurgery, Thermal Ablation, and Irreversible Electroporation on Small Animals. Advanced Therapeutics, 2022, 5, . | 3.2 | 3 |
| 6 | Pancreatic islet cryopreservation by vitrification achieves high viability, function, recovery and clinical scalability for transplantation. Nature Medicine, 2022, 28, 798-808. | 30.7 | 39 |
| 7 | Phosphonate coating of commercial iron oxide nanoparticles for nanowarming cryopreserved samples. Journal of Materials Chemistry B, 2022, 10, 3734-3746. | 5.8 | 7 |
| 8 | Ice Control during Cryopreservation of Heart Valves and Maintenance of Post-Warming Cell Viability. Cells, 2022, 11, 1856. | 4.1 | 4 |
| 9 | Liver Cryopreservation for Regenerative Medicine Applications. Regenerative Engineering and Translational Medicine, 2021, 7, 57-65. | 2.9 | 6 |
| 10 | Aggregation affects optical properties and photothermal heating of gold nanospheres. Scientific Reports, 2021, 11, 898. | 3.3 | 16 |
| 11 | Ultrasensitive and Highly Specific Lateral Flow Assays for Point-of-Care Diagnosis. ACS Nano, 2021, 15, 3593-3611. | 14.6 | 270 |
| 12 | Improved Influenza Diagnostics through Thermal Contrast Amplification. Diagnostics, 2021, 11, 462. | 2.6 | 5 |
| 13 | Cryopreservation method for Drosophila melanogaster embryos. Nature Communications, 2021, 12, 2412. | 12.8 | 20 |
| 14 | Conduction Cooling and Plasmonic Heating Dramatically Increase Droplet Vitrification Volumes for Cell Cryopreservation. Advanced Science, 2021, 8, 2004605. | 11.2 | 22 |
| 15 | Irreversible electroporation augments checkpoint immunotherapy in prostate cancer and promotes tumor antigen-specific tissue-resident memory CD8+ T cells. Nature Communications, 2021, 12, 3862. | 12.8 | 42 |
| 16 | Vitrification and Nanowarming of Kidneys. Advanced Science, 2021, 8, e2101691. | 11.2 | 41 |
| 17 | 402.3: Long-term Preservation of Isolated Human, Mouse, Porcine Islets and Human Stem Cell Derived Beta Cells (HUES-8 Cell Lines) Using a High Throughput Vitrification-Rewarming Modified Cryomesh Technique to Successfully Cure Diabetes in a Mouse With Transplantation. Transplantation, 2021, 105, S27-S28. | 1.0 | 0 |
| 18 | Kinetics of nonisothermal phase change with arbitrary temperature–time history and initial transformed phase distributions. Journal of Chemical Physics, 2021, 155, 211101. | 3.0 | 3 |

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| 19 | fM–aM Detection of the SARS-CoV-2 Antigen by Advanced Lateral Flow Immunoassay Based on Gold Nanospheres. ACS Applied Nano Materials, 2021, 4, 13826-13837. | 5.0 | 18 |
| 20 | Optimizing Integrated Electrode Design for Irreversible Electroporation of Implanted Polymer Scaffolds. Annals of Biomedical Engineering, 2020, 48, 1230-1240. | 2.5 | 4 |
| 21 | Preparation of Scalable Silicaâ€Coated Iron Oxide Nanoparticles for Nanowarming. Advanced Science, 2020, 7, 1901624. | 11.2 | 61 |
| 22 | Imaging the distribution of iron oxide nanoparticles in hypothermic perfused tissues. Magnetic Resonance in Medicine, 2020, 83, 1750-1759. | 3.0 | 10 |
| 23 | Cryopreservation and Laser Nanowarming of Zebrafish Embryos Followed by Hatching and Spawning. Advanced Biology, 2020, 4, e2000138. | 3.0 | 25 |
| 24 | Iron oxideâ€loaded polymer scaffolds for nonâ€invasive hyperthermic treatment of infiltrated cells. AICHE Journal, 2020, 66, e17001. | 3.6 | 2 |
| 25 | Development and optimization of thermal contrast amplification lateral flow immunoassays for ultrasensitive HIV p24 protein detection. Microsystems and Nanoengineering, 2020, 6, 54. | 7.0 | 33 |
| 26 | Thermal conductivity of cryoprotective agents loaded with nanoparticles, with application to recovery of preserved tissues and organs from cryogenic storage. PLoS ONE, 2020, 15, e0238941. | 2.5 | 10 |
| 27 | Diffusion Limited Cryopreservation of Tissue with Radiofrequency Heated Metal Forms. Advanced Healthcare Materials, 2020, 9, e2000796. | 7.6 | 21 |
| 28 | Photothermal conversion of gold nanoparticles for uniform pulsed laser warming of vitrified biomaterials. Nanoscale, 2020, 12, 12346-12356. | 5.6 | 20 |
| 29 | The impact of data selection and fitting on SAR estimation for magnetic nanoparticle heating. International Journal of Hyperthermia, 2020, 37, 100-107. | 2.5 | 13 |
| 30 | Photothermal conversion of gold nanoparticles for fast and uniform laser warming of vitrified biomaterials. Cryobiology, 2020, 97, 266. | 0.7 | 0 |
| 31 | A Microthermal Sensor for Cryoablation Balloons. Journal of Biomechanical Engineering, 2020, 142, . | 1.3 | 1 |
| 32 | Nanowarming using Au-tipped Co ₃₅ Fe ₆₅ ferromagnetic nanowires. Nanoscale, 2019, 11, 14607-14615. | 5.6 | 30 |
| 33 | Engineering T cell response to cancer antigens by choice of focal therapeutic conditions. International Journal of Hyperthermia, 2019, 36, 130-138. | 2.5 | 74 |
| 34 | Improved detection of group A <i>Streptococcus</i> during thermal contrast amplification <i>vs.</i> visual reading of clinical rapid diagnostic tests. Analytical Methods, 2019, 11, 2013-2017. | 2.7 | 5 |
| 35 | Journal of Biomechanical Engineering: Legacy Paper 2018. Journal of Biomechanical Engineering, 2019, 141, . | 1.3 | 1 |
| 36 | Tumor Ablation by Irreversible Electroporation (IRE) Augments CTLA-4 Checkpoint Inhibitor Immunotherapy. Journal of the American College of Surgeons, 2019, 229, e204. | 0.5 | 1 |

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| 37 | Characterization of Laser Gold Nanowarming: A Platform for Millimeter-Scale Cryopreservation. Langmuir, 2019, 35, 7364-7375. | 3.5 | 46 |
| 38 | Mapping electrical properties heterogeneity of tumor using boundary informed electrical properties tomography (BIEPT) at 7T. Magnetic Resonance in Medicine, 2019, 81, 393-409. | 3.0 | 13 |
| 39 | Biomaterial scaffolds for non-invasive focal hyperthermia as a potential tool to ablate metastatic cancer cells. Biomaterials, 2018, 166, 27-37. | 11.4 | 23 |
| 40 | Cryopreservation by vitrification. Current Opinion in Organ Transplantation, 2018, 23, 353-360. | 1.6 | 44 |
| 41 | The Role of Protein Loss and Denaturation in Determining Outcomes of Heating, Cryotherapy, and Irreversible Electroporation on Cardiomyocytes. Journal of Biomechanical Engineering, 2018, 140, . | 1.3 | 8 |
| 42 | Physical and Chemical Enhancement of and Adaptive Resistance to Irreversible Electroporation of Pancreatic Cancer. Annals of Biomedical Engineering, 2018, 46, 25-36. | 2.5 | 16 |
| 43 | Physical limits of laser gold nanowarming. Cryobiology, 2018, 85, 161. | 0.7 | 1 |
| 44 | Successful cryopreservation of coral larvae using vitrification and laser warming. Scientific Reports, 2018, 8, 15714. | 3.3 | 60 |
| 45 | A three-dimensional transient computational study of 532-nm laser thermal ablation in a geometrical model representing prostate tissue. International Journal of Hyperthermia, 2018, 35, 568-577. | 2.5 | 7 |
| 46 | Nanoparticle Heating for Improved Tissue Destruction and Preservation. Cryobiology, 2018, 80, 176. | 0.7 | 0 |
| 47 | Nanowarming of artery and heart valves by magnetic nanoparticles. Cryobiology, 2018, 81, 228. | 0.7 | 0 |
| 48 | Measurement of Specific Heat and Crystallization in VS55, DP6, and M22 Cryoprotectant Systems With and Without Sucrose. Biopreservation and Biobanking, 2018, 16, 270-277. | 1.0 | 15 |
| 49 | Ultrarapid Inductive Rewarming of Vitrified Biomaterials with Thin Metal Forms. Annals of Biomedical Engineering, 2018, 46, 1857-1869. | 2.5 | 23 |
| 50 | Thermal Properties of Porcine and Human Biological Systems. , 2018, , 2279-2304. | | 1 |
| 51 | From Nanowarming to Thermoregulation: New Multiscale Applications of Bioheat Transfer. Annual Review of Biomedical Engineering, 2018, 20, 301-327. | 12.3 | 22 |
| 52 | In vivo imaging of electrical properties of an animal tumor model with an 8 hannel transceiver array at 7 T using electrical properties tomography. Magnetic Resonance in Medicine, 2017, 78, 2157-2169. | 3.0 | 22 |
| 53 | Thermo-mechanical stress analysis of cryopreservation in cryobags and the potential benefit of nanowarming. Cryobiology, 2017, 76, 129-139. | 0.7 | 34 |
| 54 | Improved tissue cryopreservation using inductive heating of magnetic nanoparticles. Science Translational Medicine, 2017, 9, . | 12.4 | 213 |

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| 55 | The promise of organ and tissue preservation to transform medicine. Nature Biotechnology, 2017, 35, 530-542. | 17.5 | 371 |
| 56 | Determination of cryothermal injury thresholds in tissues impacted by cardiac cryoablation. Cryobiology, 2017, 75, 125-133. | 0.7 | 14 |
| 57 | Multiscale Thermal Property Measurements for Biomedical Applications. ACS Biomaterials Science and Engineering, 2017, 3, 2669-2691. | 5.2 | 18 |
| 58 | The Role of Nanoparticle Design in Determining Analytical Performance of Lateral Flow Immunoassays. Nano Letters, 2017, 17, 7207-7212. | 9.1 | 149 |
| 59 | Gold Nanorod Induced Warming of Embryos from the Cryogenic State Enhances Viability. ACS Nano, 2017, 11, 7869-7878. | 14.6 | 106 |
| 60 | Thermal thresholds of cardiovascular HL-1 cell destruction by cryothermal exposure. Cryobiology, 2017, 78, 115-118. | 0.7 | 5 |
| 61 | Quantification and biodistribution of iron oxide nanoparticles in the primary clearance organs of mice using T ₁ contrast for heating. Magnetic Resonance in Medicine, 2017, 78, 702-712. | 3.0 | 34 |
| 62 | Thermal Properties of Porcine and Human Biological Systems. , 2017, , 1-26. | | 1 |
| 63 | Ion-Mobility-Based Quantification of Surface-Coating-Dependent Binding of Serum Albumin to Superparamagnetic Iron Oxide Nanoparticles. ACS Applied Materials & Interfaces, 2016, 8, 24482-24490. | 8.0 | 15 |
| 64 | Quantifying intra- and extracellular aggregation of iron oxide nanoparticles and its influence on specific absorption rate. Nanoscale, 2016, 8, 16053-16064. | 5.6 | 58 |
| 65 | Thermal Contrast Amplification Reader Yielding 8-Fold Analytical Improvement for Disease Detection with Lateral Flow Assays. Analytical Chemistry, 2016, 88, 11774-11782. | 6.5 | 81 |
| 66 | A Micro-Thermal Sensor for Focal Therapy Applications. Scientific Reports, 2016, 6, 21395. | 3.3 | 13 |
| 67 | Quantitative Comparison of Photothermal Heat Generation between Gold Nanospheres and Nanorods. Scientific Reports, 2016, 6, 29836. | 3.3 | 114 |
| 68 | Multi-scale Thermal Conductivity Measurements for Cryobiological Applications. Frontiers in Nanobiomedical Research, 2016, , 125-171. | 0.1 | 2 |
| 69 | <italic>In Vivo</italic> Electrical Conductivity Contrast Imaging in a Mouse Model of Cancer Using High-Frequency Magnetoacoustic Tomography With Magnetic Induction (hfMAT-MI). IEEE Transactions on Medical Imaging, 2016, 35, 2301-2311. | 8.9 | 28 |
| 70 | Thermomechanical Stress in Cryopreservation Via Vitrification With Nanoparticle Heating as a Stress-Moderating Effect. Journal of Biomechanical Engineering, 2016, 138, . | 1.3 | 30 |
| 71 | Predictable Heating and Positive MRI Contrast from a Mesoporous Silica-Coated Iron Oxide Nanoparticle. Molecular Pharmaceutics, 2016, 13, 2172-2183. | 4.6 | 75 |
| 72 | The Grand Challenges of Organ Banking: Proceedings from the first global summit on complex tissue cryopreservation. Cryobiology, 2016, 72, 169-182. | 0.7 | 110 |

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| 73 | Magneto acoustic tomography with short pulsed magnetic field for in-vivo imaging of magnetic iron oxide nanoparticles. Nanomedicine: Nanotechnology, Biology, and Medicine, 2016, 12, 689-699. | 3.3 | 29 |
| 74 | The Effect of Cold Temperatures on Biological Systems. , 2016, , 19-36. | | 0 |
| 75 | Evaluating Broader Impacts of Nanoscale Thermal Transport Research. Nanoscale and Microscale Thermophysical Engineering, 2015, 19, 127-165. | 2.6 | 69 |
| 76 | Identification of the biologically active liquid chemistry induced by a nonthermal atmospheric pressure plasma jet. Biointerphases, 2015, 10, 029518. | 1.6 | 226 |
| 77 | Reusable bi-directional 3 <i>ï‰</i> sensor to measure thermal conductivity of 100- <i>î¼</i> m thick biological tissues. Review of Scientific Instruments, 2015, 86, 014905. | 1.3 | 45 |
| 78 | Pulse Timing During Irreversible Electroporation Achieves Enhanced Destruction in a Hindlimb Model of Cancer. Annals of Biomedical Engineering, 2015, 43, 887-895. | 2.5 | 25 |
| 79 | A Review of Basic to Clinical Studies of Irreversible Electroporation Therapy. IEEE Transactions on Biomedical Engineering, 2015, 62, 4-20. | 4.2 | 278 |
| 80 | Accounting for biological aggregation in heating and imaging of magnetic nanoparticles. Technology, 2014, 02, 214-228. | 1.4 | 102 |
| 81 | RF heating of magnetic nanoparticles improves the thawing of cryopreserved biomaterials. Technology, 2014, 02, 229-242. | 1.4 | 89 |
| 82 | Correlated Parameter Fit of Arrhenius Model for Thermal Denaturation of Proteins and Cells. Annals of Biomedical Engineering, 2014, 42, 2392-2404. | 2.5 | 52 |
| 83 | Multisite Validation of Cryptococcal Antigen Lateral Flow Assay and Quantification by Laser Thermal Contrast. Emerging Infectious Diseases, 2014, 20, 45-53. | 4.3 | 253 |
| 84 | Quantifying iron-oxide nanoparticles at high concentration based on longitudinal relaxation using a three-dimensional SWIFT look-locker sequence. Magnetic Resonance in Medicine, 2014, 71, spcone-spcone. | 3.0 | 0 |
| 85 | <i>In vivo</i> detection of the effects of preconditioning on LNCaP tumors by a TNF-α nanoparticle construct using MRI. NMR in Biomedicine, 2014, 27, 1063-1069. | 2.8 | 8 |
| 86 | Quantifying ironâ€oxide nanoparticles at high concentration based on longitudinal relaxation using a threeâ€dimensional SWIFT lookâ€locker sequence. Magnetic Resonance in Medicine, 2014, 71, 1982-1988. | 3.0 | 51 |
| 87 | Dynamic imaging of tumor perfusion using contrast enhanced ultrasound: In vivo results. , 2014, , . | | 5 |
| 88 | A01 Plenary Lecture. Cryobiology, 2014, 69, 184. | 0.7 | 0 |
| 89 | Membrane-Targeting Approaches for Enhanced Cancer Cell Destruction with Irreversible Electroporation. Annals of Biomedical Engineering, 2014, 42, 193-204. | 2.5 | 27 |
| 90 | A Head and Neck Support Device for Inducing Local Hypothermia. Journal of Medical Devices, Transactions of the ASME, 2014, 8, 0110021-110029. | 0.7 | 6 |

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| 91 | Blood protein and blood cell interactions with gold nanoparticles: the need for in vivo studies. BioNanoMaterials, 2013, 14, . | 1.4 | 4 |
| 92 | Irreversible Electroporation: An In Vivo Study with Dorsal Skin Fold Chamber. Annals of Biomedical Engineering, 2013, 41, 619-629. | 2.5 | 41 |
| 93 | Optimizing Magnetic Nanoparticle Based Thermal Therapies Within the Physical Limits of Heating. Annals of Biomedical Engineering, 2013, 41, 78-88. | 2.5 | 61 |
| 94 | 10. Nanoparticle delivered vascular disrupting agents (VDAs): a new opportunity in multimodal cancer treatment. Cryobiology, 2013, 66, 345. | 0.7 | 0 |
| 95 | Nanoparticle Delivered Vascular Disrupting Agents (VDAs): Use of TNF-Alpha Conjugated Gold Nanoparticles for Multimodal Cancer Therapy. Molecular Pharmaceutics, 2013, 10, 1683-1694. | 4.6 | 67 |
| 96 | Thermal Processing of Biological Tissue at High Temperatures: Impact of Protein Denaturation and Water Loss on the Thermal Properties of Human and Porcine Liver in the Range 25–80 °C. Journal of Heat Transfer, 2013, 135, . | 2.1 | 37 |
| 97 | Methods for Characterizing Convective Cryoprobe Heat Transfer in Ultrasound Gel Phantoms. Journal of Biomechanical Engineering, 2013, 135, 021002. | 1.3 | 37 |
| 98 | Adaptive third-order Volterra filter for detection and tracking of nonlinear oscillations in ultrasound echo data. , 2013, , . | | 3 |
| 99 | Thermal Conductivity Measurements of Thin Biological Tissues Using a Microfabricated 3-Omega Sensor. Journal of Medical Devices, Transactions of the ASME, 2013, 7, . | 0.7 | 3 |
| 100 | Irreversible Electroporation of Cardiovascular Cells and Tissues. Journal of Medical Devices, Transactions of the ASME, 2013, 7, . | 0.7 | 3 |
| 101 | In vivo imaging and quantification of iron oxide nanoparticle uptake and biodistribution. , 2012, 8317, . | | 15 |
| 102 | Concentration and volume effects in thermochemical ablation in vivo: Results in a porcine model. International Journal of Hyperthermia, 2012, 28, 113-121. | 2.5 | 20 |
| 103 | An Improved Cryosurgical Probe Testbed Based on Convective Exchange Boundary Conditions. , 2012, , . | | 1 |
| 104 | An In Vitro Study on Adjuvant Enhanced Irreversible Electroporation. , 2012, , . | | 3 |
| 105 | Measurements of the Thermal Conductivity of Sub-Millimeter Biological Tissues. , 2012, , . | | 2 |
| 106 | Spectroscopic and Calorimetric Evaluation of Chemically Induced Protein Denaturation in HuH-7 Liver Cancer Cells and Impact on Cell Survival. Technology in Cancer Research and Treatment, 2012, 11, 467-473. | 1.9 | 7 |
| 107 | Calorimetric measurement of water transport and intracellular ice formation during freezing in cell suspensions. Cryobiology, 2012, 65, 242-255. | 0.7 | 26 |
| 108 | In vivo comparison of simultaneous versus sequential injection technique for thermochemical ablation in a porcine model. International Journal of Hyperthermia, 2012, 28, 105-112. | 2.5 | 17 |

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| 109 | Blood–Nanoparticle Interactions and <i>in Vivo</i> Biodistribution: Impact of Surface PEG and Ligand Properties. Molecular Pharmaceutics, 2012, 9, 2146-2155. | 4.6 | 113 |
| 110 | Thermophysical and biological responses of gold nanoparticle laser heating. Chemical Society Reviews, 2012, 41, 1191-1217. | 38.1 | 486 |
| 111 | Significantly Improved Analytical Sensitivity of Lateral Flow Immunoassays by Using Thermal Contrast. Angewandte Chemie - International Edition, 2012, 51, 4358-4361. | 13.8 | 155 |
| 112 | Nanoparticle preconditioning for enhanced thermal therapies in cancer. Nanomedicine, 2011, 6, 545-563. | 3.3 | 56 |
| 113 | Cellular Uptake and Nanoscale Localization of Gold Nanoparticles in Cancer Using Label-Free Confocal Raman Microscopy. Molecular Pharmaceutics, 2011, 8, 176-184. | 4.6 | 72 |
| 114 | Cooling rate dependent biophysical and viability response shift with attachment state in human dermal fibroblast cells. Cryobiology, 2011, 63, 285-291. | 0.7 | 20 |
| 115 | Freeze–Thaw Induced Biomechanical Changes in Arteries: Role of Collagen Matrix and Smooth Muscle Cells. Annals of Biomedical Engineering, 2010, 38, 694-706. | 2.5 | 54 |
| 116 | Real-time monitoring of thermal and mechanical response to sub-therapeutic HIFU beams in vivo. , 2010, , \cdot | | 6 |
| 117 | Spatial Distribution of the State of Water in Frozen Mammalian Cells. Biophysical Journal, 2010, 99, 2453-2459. | 0.5 | 53 |
| 118 | Review of biomaterial thermal property measurements in the cryogenic regime and their use for prediction of equilibrium and non-equilibrium freezing applications in cryobiology. Cryobiology, 2010, 60, 52-70. | 0.7 | 98 |
| 119 | Pre-conditioning cryosurgery: Cellular and molecular mechanisms and dynamics of TNF-α enhanced cryotherapy in an in vivo prostate cancer model system. Cryobiology, 2010, 61, 280-288. | 0.7 | 35 |
| 120 | Use of Tumor Necrosis Factor–alpha-coated Gold Nanoparticles to Enhance Radiofrequency Ablation in a Translational Model of Renal Tumors. Urology, 2010, 76, 494-498. | 1.0 | 35 |
| 121 | KTP High Power Laser-Tissue Interactions: In Vitro Experiment and Simulation. Journal of Medical Devices, Transactions of the ASME, 2009, 3, . | 0.7 | 0 |
| 122 | Thermal Therapy in Urologic Systems: A Comparison of Arrhenius and Thermal Isoeffective Dose Models in Predicting Hyperthermic Injury. Journal of Biomechanical Engineering, 2009, 131, 074507. | 1.3 | 50 |
| 123 | Adjuvant Approaches to Enhance Cryosurgery. Journal of Biomechanical Engineering, 2009, 131, 074003. | 1.3 | 58 |
| 124 | Fourier Transform Infrared Spectroscopy Investigation of Native Tissue Matrix Modifications Using a Gamma Irradiation Process. Tissue Engineering - Part C: Methods, 2009, 15, 33-40. | 2.1 | 15 |
| 125 | Cellular Biophysics During Freezing of Rat and Mouse Sperm Predicts Post-thaw Motility1. Biology of Reproduction, 2009, 81, 700-706. | 2.7 | 29 |
| 126 | Biodistribution of TNF-α-coated gold nanoparticles in an <i>in vivo</i> model system. Nanomedicine, 2009, 4, 401-410. | 3.3 | 171 |

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| 127 | Membrane hydration correlates to cellular biophysics during freezing in mammalian cells. Biochimica Et Biophysica Acta - Biomembranes, 2009, 1788, 945-953. | 2.6 | 49 |
| 128 | Frontiers in Biotransport: Water Transport and Hydration. Journal of Biomechanical Engineering, 2009, 131, 074004. | 1.3 | 5 |
| 129 | A Hydrophobic Gel Phantom for Study of Thermochemical Ablation: Initial Results Using a Weak Acid and Weak Base. Journal of Vascular and Interventional Radiology, 2009, 20, 1352-1358. | 0.5 | 15 |
| 130 | Freezing-Induced Phase Separation and Spatial Microheterogeneity in Protein Solutions. Journal of Physical Chemistry B, 2009, 113, 10081-10087. | 2.6 | 84 |
| 131 | Thermal Injury Prediction During Cryoplasty Through InÂVitro Characterization of Smooth Muscle Cell Biophysics and Viability. Annals of Biomedical Engineering, 2008, 36, 86-101. | 2.5 | 20 |
| 132 | A quantitative analysis on the thermal properties of phosphate buffered saline with glycerol at subzero temperatures. International Journal of Heat and Mass Transfer, 2008, 51, 640-649. | 4.8 | 16 |
| 133 | A quantitative analysis of the thermal properties of porcine liver with glycerol at subzero and cryogenic temperatures. Cryobiology, 2008, 57, 79-83. | 0.7 | 22 |
| 134 | A Simple Transient Method for Measurement of Thermal Conductivity of Rigid Polyurethane Foams. Journal of Cellular Plastics, 2008, 44, 481-491. | 2.4 | 17 |
| 135 | Tumor necrosis factor-α–induced accentuation in cryoinjury: mechanisms <i>in vitro</i> and <i>in vivo</i> . Molecular Cancer Therapeutics, 2008, 7, 2547-2555. | 4.1 | 31 |
| 136 | Tumor necrosis factor-alpha induced enhancement of cryosurgery. Proceedings of SPIE, 2008, , . | 0.8 | 1 |
| 137 | Cryoinjury of MCF-7 Human Breast Cancer Cells and Inhibition of Post-Thaw Recovery Using TNF-α. Technology in Cancer Research and Treatment, 2007, 6, 625-633. | 1.9 | 13 |
| 138 | Use of a Fluorescently Labeled Poly-Caspase Inhibitor for <i>in Vivo</i> Detection of Apoptosis Related to Vascular-Targeting Agent Arsenic Trioxide for Cancer Therapy. Technology in Cancer Research and Treatment, 2007, 6, 651-654. | 1.9 | 26 |
| 139 | TNF-α–based accentuation in cryoinjury—dose, delivery, and response. Molecular Cancer Therapeutics, 2007, 6, 2039-2047. | 4.1 | 75 |
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| 142 | Cellular Level Loading and Heating of Superparamagnetic Iron Oxide Nanoparticles. Langmuir, 2007, 23, 12329-12336. | 3.5 | 92 |
| 143 | Nanotherapeutics for enhancing thermal therapy of cancer. International Journal of Hyperthermia, 2007, 23, 501-511. | 2.5 | 54 |
| 144 | Use of X-ray Tomography to Map Crystalline and Amorphous Phases in Frozen Biomaterials. Annals of Biomedical Engineering, 2007, 35, 292-304. | 2.5 | 35 |

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| 146 | A quantitative analysis on latent heat of an aqueous binary mixture. Cryobiology, 2006, 52, 146-151. | 0.7 | 35 |
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| 148 | Effects of Freezing and Cryopreservation on the Mechanical Properties of Arteries. Annals of Biomedical Engineering, 2006, 34, 823-832. | 2.5 | 124 |
| 149 | Micro and nanoscale phenomenon in bioheat transfer. Heat and Mass Transfer, 2006, 42, 955-966. | 2.1 | 24 |
| 150 | Thermal Stability of Proteins. Annals of the New York Academy of Sciences, 2005, 1066, 12-33. | 3.8 | 229 |
| 151 | Polynitroxyl albumin inhibits inflammation and vasoocclusion in transgenic sickle mice. Translational Research, 2005, 145, 204-211. | 2.3 | 39 |
| 152 | The Kinetics of Thermal Injury in Human Renal Carcinoma Cells. Annals of Biomedical Engineering, 2005, 33, 502-510. | 2.5 | 57 |
| 153 | A Cryoinjury Model Using Engineered Tissue Equivalents for Cryosurgical Applications. Annals of Biomedical Engineering, 2005, 33, 972-982. | 2.5 | 24 |
| 154 | Third Prize: Comparison of Radical Nephrectomy, Laparoscopic Microwave Thermotherapy, Cryotherapy, and Radiofrequency Ablation for Destruction of Experimental VX-2 Renal Tumors in Rabbits. Journal of Endourology, 2005, 19, 1082-1187. | 2.1 | 14 |
| 155 | Analysis of Thermal Stress in Cryosurgery of Kidneys. Journal of Biomechanical Engineering, 2005, 127, 656-661. | 1.3 | 29 |
| 156 | In vitro model systems for evaluation of smooth muscle cell response to cryoplasty. Cryobiology, 2005, 50, 162-173. | 0.7 | 38 |
| 157 | In vitrocharacterization of movement, heating and visualization of magnetic nanoparticles for biomedical applications. Nanotechnology, 2005, 16, 1221-1233. | 2.6 | 157 |
| 158 | Effects of Freezing on the Mechanical Properties of Blood Vessels. , 2004, , 699. | | 4 |
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| 161 | Foreword: Cryosurgery. Technology in Cancer Research and Treatment, 2004, 3, 93-93. | 1.9 | 0 |
| 162 | Improved Cryosurgery by Use of Thermophysical and Inflammatory Adjuvants. Technology in Cancer Research and Treatment, 2004, 3, 103-111. | 1.9 | 28 |

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| 164 | Thermodynamic Nonequilibrium Phase Change Behavior and Thermal Properties of Biological Solutions for Cryobiology Applications. Journal of Biomechanical Engineering, 2004, 126, 196-203. | 1.3 | 36 |
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| 166 | In vitrothermal therapy of AT-1 Dunning prostate tumours. International Journal of Hyperthermia, 2004, 20, 73-92. | 2.5 | 47 |
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