

# Jong-Ki Kim

## List of Publications by Year in descending order

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Version: 2024-02-01

47  
papers

786  
citations

567281

15  
h-index

526287

27  
g-index

47  
all docs

47  
docs citations

47  
times ranked

1185  
citing authors

#	ARTICLE	IF	CITATIONS
1	Enhanced proton treatment in mouse tumors through proton irradiated nanoradiator effects on metallic nanoparticles. <i>Physics in Medicine and Biology</i> , 2012, 57, 8309-8323.	3.0	131
2	Therapeutic application of metallic nanoparticles combined with particle-induced x-ray emission effect. <i>Nanotechnology</i> , 2010, 21, 425102.	2.6	84
3	In vivo <sup>1</sup> H-MRS evaluation of malignant and benign breast diseases. <i>Breast</i> , 2003, 12, 179-182.	2.2	56
4	Development of Gallic Acid-Modified Hydrogels Using Interpenetrating Chitosan Network and Evaluation of Their Antioxidant Activity. <i>Molecules</i> , 2017, 22, 1976.	3.8	43
5	Enhanced production of reactive oxygen species by gadolinium oxide nanoparticles under coreâ€‘inner-shell excitation by proton or monochromatic X-ray irradiation: implication of the contribution from the interatomic de-excitation-mediated nanoradiator effect to dose enhancement. <i>Radiation and Environmental Biophysics</i> , 2015, 54, 423-431.	1.4	35
6	Photon activated therapy (PAT) using monochromatic Synchrotron x-rays and iron oxide nanoparticles in a mouse tumor model: feasibility study of PAT for the treatment of superficial malignancy. <i>Radiation Oncology</i> , 2012, 7, 184.	2.7	34
7	Intravitreal implantable magnetic micropump for on-demand VEGFR-targeted drug delivery. <i>Journal of Controlled Release</i> , 2018, 283, 105-112.	9.9	33
8	An Antithrombotic Fucoidan, Unlike Heparin, Does Not Prolong Bleeding Time in a Murine Arterial Thrombosis Model: A Comparative Study of <i>Undaria pinnatifida</i> sporophylls and <i>Fucus vesiculosus</i> . <i>Phytotherapy Research</i> , 2012, 26, 752-757.	5.8	26
9	NMR Structural Studies of DNA Decamer Duplex Containing the Dewar Photoproduct of Thymidyl(3'5')Thymidine. Conformational Changes of the Oligonucleotide Duplex by Photoconversion of a (6-4) Adduct to its Dewar Valence Isomer. <i>FEBS Journal</i> , 1996, 235, 359-365.	0.2	22
10	Algal fucoidan, unlike heparin, has thrombolytic activity in a murine arterial thrombosis model. <i>Blood Coagulation and Fibrinolysis</i> , 2012, 23, 359-366.	1.0	22
11	Dark-Field Imaging: Recent developments and potential clinical applications. <i>Physica Medica</i> , 2016, 32, 1801-1812.	0.7	22
12	Stimulus-Responsive Contact Lens for IOP Measurement or Temperature-Triggered Drug Release. <i>Translational Vision Science and Technology</i> , 2020, 9, 1.	2.2	22
13	Reactive oxygen species-based measurement of the dependence of the Coulomb nanoradiator effect on proton energy and atomic <i>Z</i> value. <i>International Journal of Radiation Biology</i> , 2017, 93, 1239-1247.	1.8	20
14	Thermoresponsive drug controlled release from chitosanâ€‘based hydrogel embedded with poly( <i>N</i> -isopropylacrylamide) nanogels. <i>Journal of Polymer Science Part A</i> , 2018, 56, 1907-1914.	2.3	18
15	The solution structure of DNA decamer duplex containing the Dewar product of thymidyl(3â€‘5â€‘)thymidine by NMR and full relaxation matrix refinement. <i>FEBS Letters</i> , 1998, 428, 269-274. <sup>2,8</sup>		17
16	Fluorescence Kinetics of Protoporphyrinâ€‘IX Induced from 5â€‘ALA Compounds in Rabbit Postballoon Injury Model for ALAâ€‘Photoangioplasty. <i>Photochemistry and Photobiology</i> , 2008, 84, 1209-1214.	2.5	16
17	High-resolution X-ray refraction imaging of rat lung and histological correlations. <i>Microscopy Research and Technique</i> , 2006, 69, 656-659.	2.2	15
18	Coulomb nanoradiator-mediated, site-specific thrombolytic proton treatment with a traversing pristine Bragg peak. <i>Scientific Reports</i> , 2016, 6, 37848.	3.3	15

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19	Synchrotron X-ray nanotomography and three-dimensional nanoscale imaging analysis of pore structure-function in nanoporous polymeric membranes. <i>Journal of Membrane Science</i> , 2017, 535, 28-34.	8.2	14
20	Enhanced production of reactive oxygen species in HeLa cells under concurrent low-dose carboplatin and Photofrin <sup>®</sup> 1/2 photodynamic therapy. <i>Oncology Reports</i> , 2018, 40, 339-345.	2.6	13
21	Synchrotron nanoscopy imaging study of scalp hair in breast cancer patients and healthy individuals: Difference in medulla loss and cortical membrane enhancements. <i>Microscopy Research and Technique</i> , 2016, 79, 23-30.	2.2	11
22	Anti-Fit1 peptide and cyanine-conjugated gold nanoparticles for the concurrent antiangiogenic and endothelial cell proton treatment. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2019, 107, 1272-1283.	3.4	11
23	Thermo-sensitive nanogel-laden bicontinuous microemulsion drug-eluting contact lenses. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2019, 107, 1159-1169.	3.4	11
24	Successful full term pregnancy and delivery after concurrent chemo-photodynamic therapy (CCPDT) for the uterine cervical cancer staged 1B1 and 1B2: Preserving fertility in young women. <i>Gynecologic Oncology Case Reports</i> , 2012, 2, 54-57.	0.9	10
25	Thrombolytic fucoidans inhibit the tPA-PAI1 complex, indicating activation of plasma tissue-type plasminogen activator is a mechanism of fucoidan-mediated thrombolysis in a mouse thrombosis model. <i>Thrombosis Research</i> , 2018, 161, 22-25.	1.7	10
26	<i>In vivo</i> high-resolution synchrotron radiation imaging of collagen-induced arthritis in a rodent model. <i>Journal of Synchrotron Radiation</i> , 2010, 17, 393-399.	2.4	9
27	Stimulatory effect of an algal fucoidan on the release of vascular endothelial tissue-type plasminogen activator as a mechanism of fucoidan-mediated thrombolysis. <i>Blood Coagulation and Fibrinolysis</i> , 2016, 27, 594-596.	1.0	8
28	High resolution X-ray phase contrast synchrotron imaging of normal and ligation damaged rat sciatic nerves. <i>Microscopy Research and Technique</i> , 2008, 71, 443-447.	2.2	7
29	X-ray dark-field phase-contrast imaging: Origins of the concept to practical implementation and applications. <i>Physica Medica</i> , 2020, 79, 188-208.	0.7	7
30	INVESTIGATION OF TUMOR CELL TOXICITY FROM PARTICLE INDUCED X-RAY EMISSION FROM A 45-MeV PROTON BEAM IRRADIATED FERRITE NANOPARTICLE. <i>International Journal of PIXE</i> , 2009, 19, 143-155.	0.4	6
31	Visualization of microvascular proliferation as a tumor infiltration structure in rat glioma specimens using the diffraction-enhanced imaging in-plane CT technique. <i>Physics in Medicine and Biology</i> , 2012, 57, 1251-1262.	3.0	6
32	Fluorescence imaging of reactive oxygen species by confocal laser scanning microscopy for track analysis of synchrotron X-ray photoelectric nanoradiator dose: X-ray pump optical probe. <i>Journal of Synchrotron Radiation</i> , 2016, 23, 1191-1196.	2.4	5
33	Synchrotron tomographic images from human lung adenocarcinoma: Three-dimensional reconstruction and histologic correlations. <i>Microscopy Research and Technique</i> , 2017, 80, 1141-1148.	2.2	5
34	Investigation of the redox state of magnetite upon A $\beta$ -fibril formation or proton irradiation; implication of iron redox inactivation and A $\beta$ -amyloidolysis. <i>MRS Communications</i> , 2018, 8, 955-960.	1.8	4
35	Proton Stimulation Targeting Plaque Magnetite Reduces Amyloid- $\beta$ Plaque and Iron Redox Toxicity and Improves Memory in an Alzheimer's Disease Mouse Model. <i>Journal of Alzheimer's Disease</i> , 2021, 84, 377-392.	2.6	4
36	Wave propagation simulation based on the Fourier diffraction integral for X-ray refraction contrast imaging-computed tomography. <i>Journal of the Korean Physical Society</i> , 2016, 69, 1098-1104.	0.7	3

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37	Ion Beam Stimulation Therapy With a Nanoradiator as a Site-Specific Prodrug. <i>Frontiers in Physics</i> , 2020, 8, .	2.1	3
38	Medulla loss of scalp hair in breast cancer patients determined by near-infrared microscopy. <i>Journal of Biomedical Optics</i> , 2019, 24, 1.	2.6	3
39	Crystal-based X-ray Medical Imaging Using Synchrotron Radiation and Its Future Prospect. , 2018, , 287-342.		2
40	A gel-forming poly-l-guluronic acid produced from no guluronate-rich marine algae using new hydrolysis method: test for endovascular embolization. <i>Journal of Materials Science: Materials in Medicine</i> , 2009, 20, 1917-1926.	3.6	1
41	Track analysis of a synchrotron X-ray photoelectric nanoradiator by in situ fluorescence imaging of reactive oxygen species: comparative study of gold and iron oxide nanoparticles. <i>Journal of Synchrotron Radiation</i> , 2018, 25, 1768-1773.	2.4	1
42	Enhanced proton treatment with a LDLR-ligand peptide-conjugated gold nanoparticles targeting the tumor microenvironment in an infiltrative brain tumor model.. <i>American Journal of Cancer Research</i> , 2022, 12, 198-209.	1.4	1
43	<sup>1</sup> H-NMR Studies of Duplex DNA Decamer Containing a Uracil Cyclobutane Dimer: Implications Regarding the High UV Mutagenicity of CC Photolesions. <i>Photochemistry and Photobiology</i> , 2002, 76, 417-422.	2.5	0
44	Wave-propagation simulation and dark-field computed tomography imaging study to elucidate the contrast-loss problem in X-ray diffraction-based transcranial brain imaging. <i>Journal of Applied Physics</i> , 2018, 124, 234701.	2.5	0
45	Imaging Experiment of Multi-Pinhole Based X-Ray Fluorescence Computed Tomography Using Rat Head Phantoms. , 2019, , .		0
46	Tumor treating fields can effectively overcome trastuzumab resistant breast cancer multiplication. <i>American Journal of Cancer Research</i> , 2021, 11, 3935-3945.	1.4	0
47	Tumor-treating fields as a proton beam-sensitizer for glioblastoma therapy. <i>American Journal of Cancer Research</i> , 2021, 11, 4582-4594.	1.4	0