

Hyun Wook Kang

List of Publications by Year in descending order

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113
papers

1,694
citations

304368

22
h-index

360668

35
g-index

113
all docs

113
docs citations

113
times ranked

1701
citing authors

#	ARTICLE	IF	CITATIONS
1	Dependence of calculus retropulsion on pulse duration during HO: YAG laser lithotripsy. <i>Lasers in Surgery and Medicine</i> , 2006, 38, 762-772.	1.1	104
2	Laser ablation in a liquid-confined environment using a nanosecond laser pulse. <i>Journal of Applied Physics</i> , 2008, 103, .	1.1	69
3	Engineering pharmaceutical nanocarriers for photodynamic therapy on wound healing: Review. <i>Materials Science and Engineering C</i> , 2019, 105, 110110.	3.8	66
4	Laser Vaporization of Bovine Prostate: A Quantitative Comparison of Potassium-Titanyl-Phosphate and Lithium Triborate Lasers. <i>Journal of Urology</i> , 2008, 180, 2675-2680.	0.2	58
5	Photoselective Vaporization Prostatectomy: Experience With a Novel 180 W 532 nm Lithium Triborate Laser and Fiber Delivery System in Living Dogs. <i>Journal of Urology</i> , 2011, 185, 712-718.	0.2	56
6	Astaxanthin-alpha tocopherol nanoemulsion formulation by emulsification methods: Investigation on anticancer, wound healing, and antibacterial effects. <i>Colloids and Surfaces B: Biointerfaces</i> , 2018, 172, 170-179.	2.5	53
7	Urinary calculus fragmentation during Ho: YAG and Er:YAG lithotripsy. <i>Lasers in Surgery and Medicine</i> , 2006, 38, 39-51.	1.1	52
8	Fabrication of multifunctional chitosan-based nanocomposite film with rapid healing and antibacterial effect for wound management. <i>International Journal of Biological Macromolecules</i> , 2018, 118, 1713-1725.	3.6	50
9	Ultrasound-mediated fucoxanthin rich oil nanoemulsions stabilized by $\hat{\text{P}}\text{-carrageenan}$: Process optimization, bio-accessibility and cytotoxicity. <i>Ultrasonics Sonochemistry</i> , 2019, 55, 105-116.	3.8	49
10	Enhancement of Bovine Bone Ablation Assisted by a Transparent Liquid Layer on a Target Surface. <i>IEEE Journal of Quantum Electronics</i> , 2006, 42, 633-642.	1.0	47
11	Doxorubicin-fucoidan-gold nanoparticles composite for dual-chemo-photothermal treatment on eye tumors. <i>Oncotarget</i> , 2017, 8, 113719-113733.	0.8	44
12	Hypericin-assisted photodynamic therapy against anaplastic thyroid cancer. <i>Photodiagnosis and Photodynamic Therapy</i> , 2018, 24, 15-21.	1.3	43
13	Fucoidan-loaded hydrogels facilitates wound healing using photodynamic therapy by in vitro and in vivo evaluation. <i>Carbohydrate Polymers</i> , 2020, 247, 116624.	5.1	43
14	Greenlight Photoselective 120-Watt 532-nm Lithium Triborate Laser Vaporization Prostatectomy in Living Canines. <i>Journal of Endourology</i> , 2009, 23, 837-845.	1.1	40
15	In vitro antitumor potential of astaxanthin nanoemulsion against cancer cells via mitochondrial mediated apoptosis. <i>International Journal of Pharmaceutics</i> , 2019, 560, 334-346.	2.6	38
16	Temperature feedback-controlled photothermal treatment with diffusing applicator: theoretical and experimental evaluations. <i>Biomedical Optics Express</i> , 2016, 7, 1932.	1.5	34
17	Circumferential irradiation for interstitial coagulation of urethral stricture. <i>Optics Express</i> , 2015, 23, 20829.	1.7	33
18	A new alternative insight of nanoemulsion conjugated with $\hat{\text{P}}\text{-carrageenan}$ for wound healing study in diabetic mice: In vitro and in vivo evaluation. <i>European Journal of Pharmaceutical Sciences</i> , 2019, 133, 236-250.	1.9	33

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19	Real-time temperature monitoring with fiber Bragg grating sensor during diffuser-assisted laser-induced interstitial thermotherapy. <i>Journal of Biomedical Optics</i> , 2017, 22, 045008.	1.4	31
20	Phloroglucinol-Gold and -Zinc Oxide Nanoparticles: Antibiofilm and Antivirulence Activities towards <i>Pseudomonas aeruginosa</i> PAO1. <i>Marine Drugs</i> , 2021, 19, 601.	2.2	26
21	Epidermal growth factor receptor conjugated fucoidan/alginate loaded hydrogel for activating EGFR/AKT signaling pathways in colon cancer cells during targeted photodynamic therapy. <i>International Journal of Biological Macromolecules</i> , 2020, 158, 1163-1174.	3.6	24
22	In vivo photoacoustic monitoring using 700-nm region Raman source for targeting Prussian blue nanoparticles in mouse tumor model. <i>Scientific Reports</i> , 2018, 8, 2000.	1.6	23
23	Nanoengineered chlorin e6 conjugated with hydrogel for photodynamic therapy on cancer. <i>Colloids and Surfaces B: Biointerfaces</i> , 2019, 181, 778-788.	2.5	23
24	The Effect of Laser-Fiber Sweeping Speed on the Efficiency of Photoselective Vaporization of the Prostate in an <i>Ex Vivo</i> Bovine Model. <i>Journal of Endourology</i> , 2009, 23, 1429-1435.	1.1	22
25	Laser vaporization of the prostate in vivo: Experience with the 150W 980nm diode laser in living canines. <i>Lasers in Surgery and Medicine</i> , 2010, 42, 736-742.	1.1	22
26	Intravascular ultrasonic photoacoustic (IVUP) endoscope with 2.2-mm diameter catheter for medical imaging. <i>Computerized Medical Imaging and Graphics</i> , 2015, 45, 57-62.	3.5	19
27	In vitro investigation of wavelength-dependent tissue ablation: Laser prostatectomy between 532nm and 2.01µm. <i>Lasers in Surgery and Medicine</i> , 2010, 42, 237-244.	1.1	18
28	Quantitative Evaluation of High Power Effect on 532 nm Laser Vaporization of Bovine Prostate In Vitro. <i>Journal of Urology</i> , 2010, 184, 1211-1215.	0.2	18
29	EGFR-conjugated hydrogel accelerates wound healing on ulcer-induced burn wounds by targeting collagen and inflammatory cells using photoimmunomodulatory inhibition. <i>Materials Science and Engineering C</i> , 2021, 118, 111541.	3.8	18
30	Biocompatible astaxanthin as a novel marine-oriented agent for dual chemo-photothermal therapy. <i>PLoS ONE</i> , 2017, 12, e0174687.	1.1	18
31	Feasibility study on photoacoustic guidance for high-intensity focused ultrasound-induced hemostasis. <i>Journal of Biomedical Optics</i> , 2014, 19, 105010.	1.4	17
32	Rabbit model of tracheal stenosis induced by prolonged endotracheal intubation using a segmented tube. <i>International Journal of Pediatric Otorhinolaryngology</i> , 2015, 79, 2384-2388.	0.4	17
33	Fabrication and biological activity of polycaprolactone/phlorotannin endotracheal tube to prevent tracheal stenosis: An in vitro and in vivo study. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2020, 108, 1046-1056.	1.6	17
34	Laser-induced optical breakdown effects of micro-lens arrays and diffractive optical elements on ex vivo porcine skin after 1064nm picosecond laser irradiation. <i>Biomedical Optics Express</i> , 2020, 11, 7286.	1.5	17
35	Defining Optimal Laser-Fiber Sweeping Angle for Effective Tissue Vaporization Using 180W 532nm Lithium Triborate Laser. <i>Journal of Endourology</i> , 2012, 26, 313-317.	1.1	16
36	Biocompatible astaxanthin as novel contrast agent for biomedical imaging. <i>Journal of Biophotonics</i> , 2017, 10, 1053-1061.	1.1	16

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37	Spatial effect of conical angle on optical-thermal distribution for circumferential photocoagulation. <i>Biomedical Optics Express</i> , 2017, 8, 5663.	1.5	14
38	Feasibility of photoacoustic evaluations on dual-wavelength thermal treatment of <i>in vivo</i> bladder tumors. <i>Journal of Biophotonics</i> , 2017, 10, 577-588.	1.1	13
39	Antibacterial activity of <i>Staphylococcus aureus</i> biofilm under combined exposure of glutaraldehyde, near-infrared light, and 405-nm laser. <i>PLoS ONE</i> , 2018, 13, e0202821.	1.1	13
40	Multifunctional heteropolysaccharide hydrogel under photobiomodulation for accelerated wound regeneration. <i>Ceramics International</i> , 2020, 46, 7268-7278.	2.3	13
41	Enhanced photocoagulation with catheter-based diffusing optical device. <i>Journal of Biomedical Optics</i> , 2012, 17, 118001.	1.4	12
42	Cellulose nanocrystals/nanofibrils loaded astaxanthin nanoemulsion for the induction of apoptosis via ROS-dependent mitochondrial dysfunction in cancer cells under photobiomodulation. <i>International Journal of Biological Macromolecules</i> , 2020, 149, 165-177.	3.6	12
43	Integration of optical applicator with balloon catheter for photothermal treatment of biliary stricture. <i>Lasers in Surgery and Medicine</i> , 2017, 49, 781-786.	1.1	11
44	The Influence of Astaxanthin on the Proliferation of Adipose-derived Mesenchymal Stem Cells in Gelatin-Methacryloyl (GelMA) Hydrogels. <i>Materials</i> , 2019, 12, 2416.	1.3	11
45	3D printing-assisted fabrication of double-layered optical tissue phantoms for laser tattoo treatments. <i>Lasers in Surgery and Medicine</i> , 2016, 48, 392-399.	1.1	10
46	Rabbit model of tracheal stenosis using cylindrical diffuser. <i>Lasers in Surgery and Medicine</i> , 2017, 49, 372-379.	1.1	10
47	Computational analysis of linear energy modulation for laser thermal coagulation. <i>Biomedical Optics Express</i> , 2018, 9, 2575.	1.5	10
48	Endoscopic ultrasound (EUS)-guided cylindrical interstitial laser ablation (CILA) on <i>in vivo</i> porcine pancreas. <i>Biomedical Optics Express</i> , 2021, 12, 4423.	1.5	10
49	Endoscopic Ultrasound-Guided Laser Ablation Using a Diffusing Applicator for Locally Advanced Pancreatic Cancer Treatment. <i>Cancers</i> , 2022, 14, 2274.	1.7	10
50	Real-time monitoring of mono- and dual-species biofilm formation and eradication using microfluidic platform. <i>Scientific Reports</i> , 2022, 12, .	1.6	10
51	Water content contribution in calculus phantom ablation during Q-switched Tm:YAG laser lithotripsy. <i>Journal of Biomedical Optics</i> , 2015, 20, 128001.	1.4	9
52	Concentric photothermal coagulation with basket-integrated optical device for treatment of tracheal stenosis. <i>Journal of Biophotonics</i> , 2018, 11, e201700073.	1.1	9
53	Effect of spatial light distribution on the thermal response of vascular tissue. <i>Biomedical Optics Express</i> , 2018, 9, 3037.	1.5	9
54	Development of temperature controller-integrated portable HIFU driver for thermal coagulation. <i>BioMedical Engineering OnLine</i> , 2019, 18, 77.	1.3	9

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55	Application of Ultrasound Thermal Imaging for Monitoring Laser Ablation in Ex Vivo Cardiac Tissue. <i>Lasers in Surgery and Medicine</i> , 2020, 52, 218-227.	1.1	9
56	Computational analysis of endometrial photocoagulation with diffusing optical device. <i>Biomedical Optics Express</i> , 2013, 4, 2450.	1.5	8
57	Combined treatment of low-level laser therapy and phloroglucinol for inhibition of fibrosis. <i>Lasers in Surgery and Medicine</i> , 2020, 52, 276-285.	1.1	8
58	Transoral Low-Level Laser Therapy Via a Cylindrical Device to Treat Oral Ulcers in a Rodent Model. <i>Lasers in Surgery and Medicine</i> , 2020, 52, 647-652.	1.1	8
59	Dependence of laser-induced optical breakdown on skin type during 1064-nm picosecond laser treatment. <i>Journal of Biophotonics</i> , 2021, 14, e202100129.	1.1	8
60	A phlorotannins-loaded homogeneous acellular matrix film modulates post-implantation inflammatory responses. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2022, 16, 51-62.	1.3	8
61	Comparative evaluations of hypertrophic scar formation in <i>in vivo</i> models. <i>Lasers in Surgery and Medicine</i> , 2018, 50, 661-668.	1.1	7
62	In vitro anti-tumor effect of high-fluence low-power laser light on apoptosis of human colorectal cancer cells. <i>Lasers in Medical Science</i> , 2021, 36, 513-520.	1.0	7
63	Deep Learning for Analysis of Collagen Fiber Organization in Scar Tissue. <i>IEEE Access</i> , 2021, 9, 101755-101764.	2.6	7
64	Synthesis of nanohydroxyapatite/collagen-loaded fucoidan-based composite hydrogel for drug delivery to gastrointestinal cancer cells. <i>Colloids and Surfaces B: Biointerfaces</i> , 2021, 203, 111769.	2.5	7
65	Development of a reproducible <i>in vivo</i> laser-induced scar model for wound healing study and management. <i>Biomedical Optics Express</i> , 2019, 10, 1965.	1.5	7
66	Effect of optical energy modulation on the thermal response of biological tissue: computational and experimental validations. <i>Biomedical Optics Express</i> , 2020, 11, 6905.	1.5	7
67	Memristive states in vanadium-dioxide-based planar devices stimulated by 966 nm infrared laser pulses. <i>Japanese Journal of Applied Physics</i> , 2015, 54, 102601.	0.8	6
68	<i>Ex vivo</i> laser lipolysis assisted with radially diffusing optical applicator. <i>Journal of Biomedical Optics</i> , 2016, 21, 058001.	1.4	6
69	Coating Chitosan Thin Shells: A Facile Technique to Improve Dispersion Stability of Magnetoliposomes. <i>Journal of Nanoscience and Nanotechnology</i> , 2018, 18, 583-590.	0.9	6
70	The use of a 532-nm laser fitted with a balloon and a cylindrical light diffuser to treat benign biliary stricture: a pilot study. <i>Lasers in Medical Science</i> , 2021, 36, 25-31.	1.0	6
71	Near-infrared Transillumination and Photodynamic Therapy Using Hypericin in Animal Laryngeal Tumors. <i>Tissue Engineering and Regenerative Medicine</i> , 2021, 18, 941-951.	1.6	6
72	Characterization on ablation performance of various surgical fibers. <i>Lasers in Medical Science</i> , 2014, 29, 273-277.	1.0	5

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73	Dual-wavelength-assisted thermal hemostasis for treatment of benign prostate hyperplasia. <i>Journal of Biophotonics</i> , 2018, 11, e201700192.	1.1	5
74	Evaluations on laser ablation of ex vivo porcine stomach tissue for development of Ho:YAG-assisted endoscopic submucosal dissection (ESD). <i>Lasers in Medical Science</i> , 2021, 36, 1437-1444.	1.0	5
75	Automated Structural Analysis and Quantitative Characterization of Scar Tissue Using Machine Learning. <i>Diagnostics</i> , 2022, 12, 534.	1.3	5
76	Update On Erbium:YAG lithotripsy. <i>AIP Conference Proceedings</i> , 2007, , .	0.3	4
77	Effect of multiple-sweeping on ablation performance during <i>ex vivo</i> laser nephrectomy. <i>Lasers in Surgery and Medicine</i> , 2016, 48, 616-623.	1.1	4
78	Bidirectional laser triggering in highly-resistive vanadium-dioxide thin films by using a 966-nm pump laser diode. <i>Journal of the Korean Physical Society</i> , 2016, 68, 323-328.	0.3	4
79	Endoluminal application of glass-capped diffuser for <i>ex vivo</i> endovenous photocoagulation. <i>Journal of Biophotonics</i> , 2017, 10, 997-1007.	1.1	4
80	Multivariate Analysis of Laser-Induced Tissue Ablation: Ex Vivo Liver Testing. <i>Applied Sciences (Switzerland)</i> , 2017, 7, 974.	1.3	4
81	Feasibility study of endoscopic thermal coagulation with circumferential laser irradiation for treating esophageal tissue. <i>Lasers in Medical Science</i> , 2020, 35, 893-900.	1.0	4
82	Quantitative Monitoring of Tattoo Contrast Variations after 755-nm Laser Treatments in In Vivo Tattoo Models. <i>Sensors</i> , 2020, 20, 285.	2.1	4
83	Multiple cylindrical interstitial laser ablations (CILAs) of porcine pancreas in <i>ex vivo</i> and <i>in vivo</i> models. <i>International Journal of Hyperthermia</i> , 2021, 38, 1313-1321.	1.1	4
84	Multi-Lens Arrays (MLA)-Assisted Photothermal Effects for Enhanced Fractional Cancer Treatment: Computational and Experimental Validations. <i>Cancers</i> , 2021, 13, 1146.	1.7	4
85	Phloroglucinol-Combined Photobiomodulation for Minimizing Burn-Induced Skin Fibrosis. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2021, 27, 1-9.	1.9	4
86	Laser ablation of pancreatic cancer using a cylindrical light diffuser. <i>Lasers in Medical Science</i> , 2022, 37, 2615-2621.	1.0	4
87	Temperature-monitored optical treatment for radial tissue expansion. <i>Lasers in Medical Science</i> , 2017, 32, 993-999.	1.0	3
88	In vitro anti-tumor effect of low-power laser irradiation (LPLI) on gastroenterological carcinoma cells. <i>Lasers in Medical Science</i> , 2020, 35, 677-685.	1.0	3
89	Enhanced precision of real-time control photothermal therapy using cost-effective infrared sensor array and artificial neural network. <i>Computers in Biology and Medicine</i> , 2022, 141, 104960.	3.9	3
90	Enhancement of gold nanorods-assisted photothermal treatment on cancer with laser power in stepwise modulation. <i>Lasers in Surgery and Medicine</i> , 2022, 54, 841-850.	1.1	3

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91	Investigation on safety aspects of forward light propagation during laser surgery. <i>Lasers in Medical Science</i> , 2013, 28, 1315-1321.	1.0	2
92	Thermoelastic displacement measured by DP-OCT for detecting vulnerable plaques. <i>Biomedical Optics Express</i> , 2014, 5, 474.	1.5	2
93	Polarimetric Fiber Vibration Sensor Based on Polarization-Diversified Loop Using Short Polarization-Maintaining Photonic Crystal Fiber. <i>Journal of Nanoscience and Nanotechnology</i> , 2017, 17, 8307-8312.	0.9	2
94	Dependence of Photothermal Responses on Wavelengths. <i>Journal of the Korean Physical Society</i> , 2019, 74, 224-230.	0.3	2
95	Dependence of laser-induced tissue ablation on optical fiber movements for laser prostatectomy. <i>World Journal of Urology</i> , 2020, 38, 2253-2259.	1.2	2
96	Opto-chemical treatment for enhanced high-level disinfection of mature bacterial biofilm in a Teflon-based endoscope model. <i>Biomedical Optics Express</i> , 2021, 12, 5736.	1.5	2
97	Enhanced photothermal hemostasis using dual wavelengths in an in vivo leporine kidney model. <i>Biomedical Optics Express</i> , 2019, 10, 5198.	1.5	2
98	Collective bacterial disinfection by opto-chemical treatment on mature biofilm in clinical endoscope. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2022, 226, 112367.	1.7	2
99	Impact of residual air trap in balloon on laser treatment of tubular tissue. <i>Lasers in Surgery and Medicine</i> , 2022, 54, 767-778.	1.1	2
100	Stimulatory effects of wavelength-dependent photobiomodulation on proliferation and angiogenesis of colorectal cancer. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2022, 234, 112527.	1.7	2
101	Optical feedback-induced light modulation for fiber-based laser ablation. <i>Lasers in Medical Science</i> , 2014, 29, 1919-1925.	1.0	1
102	Enhanced coupling of optical energy during liquid-confined metal ablation. <i>Journal of Applied Physics</i> , 2015, 118, 153101.	1.1	1
103	Feasibility study on a short-pulsed IR wavelength for effective calculus fragmentation. <i>Journal of the Korean Physical Society</i> , 2015, 66, 1623-1626.	0.3	1
104	Application of double-layered skin phantoms for optical flow imaging during laser tattoo treatments. <i>Journal of the Korean Physical Society</i> , 2016, 68, 1137-1141.	0.3	1
105	Effect of the pulse repetition rate on fiber-assisted tissue ablation. <i>Journal of the Korean Physical Society</i> , 2016, 69, 152-156.	0.3	1
106	Temporal modulation of optical energy for enhanced photothermal hemostasis of intraoperative bleeding during laser treatment. <i>Journal of Biophotonics</i> , 2020, 13, e202000086.	1.1	1
107	<i>In Vivo</i> Investigation of Noncontact Rapid Photothermal Hemostasis on Venous and Arterial Bleeding. <i>IEEE Transactions on Biomedical Engineering</i> , 2021, 68, 2689-2697.	2.5	1
108	Universal Convolutional Neural Network for Histology-Independent Analysis of Collagen Fiber Organization in Scar Tissue. <i>IEEE Access</i> , 2022, 10, 34379-34392.	2.6	1

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109	Making unpolarized light sensitive to polarization-sensitive devices. Applied Physics B: Lasers and Optics, 2017, 123, 1.	1.1	0
110	Effect of multi-wavelength irradiation on color characterization with light-emitting diodes (LEDs). Journal of the Korean Physical Society, 2017, 70, 1011-1015.	0.3	0
111	Feasibility Study of Cylindrically Diffusing 532 nm Wavelength for Treatment of Pancreatic Cancer. Journal of the Korean Physical Society, 2018, 73, 1619-1624.	0.3	0
112	Feasibility of LED-Assisted CMOS Camera: Contrast Estimation for Laser Tattoo Treatment. Applied Sciences (Switzerland), 2018, 8, 661.	1.3	0
113	Contrast-Enhancing Optical Probe for Near-Infrared Fluorescence Imaging Under Surgical Light Illumination. Journal of the Korean Physical Society, 2019, 74, 568-573.	0.3	0