

Guillermo Aguilar

List of Publications by Year in descending order

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153
papers

3,018
citations

136740

32
h-index

205818

48
g-index

155
all docs

155
docs citations

155
times ranked

1936
citing authors

#	ARTICLE	IF	CITATIONS
1	Mitigation of cavitation erosion using laser-induced periodic surface structures. <i>Surfaces and Interfaces</i> , 2022, 29, 101692.	1.5	6
2	High resolution optical investigation of laser intensity and solution temperature effects on thermocavitation. <i>Experimental Thermal and Fluid Science</i> , 2022, 136, 110683.	1.5	3
3	Experimental and computational model approach to assess the photothermal effects in transparent nanocrystalline yttria stabilized zirconia cranial implant. <i>Computer Methods and Programs in Biomedicine</i> , 2022, 221, 106896.	2.6	0
4	Nanocrystalline Yttria-Stabilized Zirconia Ceramics for Cranial Window Applications. <i>ACS Applied Bio Materials</i> , 2022, 5, 2664-2675.	2.3	0
5	Bubble dynamics of laser-induced cavitation in plasmonic gold nanorod solutions and the relative effect of surface tension and viscosity. <i>Optics and Laser Technology</i> , 2021, 134, 106621.	2.2	13
6	Group Refractive Index of Nanocrystalline Yttria-Stabilized Zirconia Transparent Cranial Implants. <i>Frontiers in Bioengineering and Biotechnology</i> , 2021, 9, 619686.	2.0	0
7	Laser-induced cavitation in plasmonic nanoparticle solutions: A comparative study between gold and titanium nitride. <i>Journal of Biomedical Materials Research - Part A</i> , 2021, 109, 2483-2492.	2.1	3
8	Characterization of ageing resistant transparent nanocrystalline yttria-stabilized zirconia implants. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2020, 108, 709-716.	1.6	6
9	Synthesis of molybdenum oxide nanoparticles by nanosecond laser ablation. <i>Materials Chemistry and Physics</i> , 2020, 240, 122163.	2.0	16
10	Chronic Brain Imaging Across a Transparent Nanocrystalline Yttria-Stabilized-Zirconia Cranial Implant. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020, 8, 659.	2.0	4
11	Soft material perforation via double-bubble laser-induced cavitation microjets. <i>Physics of Fluids</i> , 2020, 32, .	1.6	38
12	Optical access to the brain through a transparent cranial implant. , 2020, , .		1
13	Optical Access to Arteriovenous Cerebral Microcirculation Through a Transparent Cranial Implant. <i>Lasers in Surgery and Medicine</i> , 2019, 51, 920-932.	1.1	6
14	Ultrafast laser welding of ceramics. <i>Science</i> , 2019, 365, 803-808.	6.0	115
15	Laboratory and numerical modeling of the formation of superfog from wildland fires. <i>Fire Safety Journal</i> , 2019, 106, 94-104.	1.4	5
16	Planar laser induced fluorescence for temperature measurement of optical thermocavitation. <i>Experimental Thermal and Fluid Science</i> , 2019, 103, 385-393.	1.5	19
17	Molybdenum nanoparticles generation by pulsed laser ablation and effects of oxidation due to aging. <i>Journal of Alloys and Compounds</i> , 2019, 788, 666-671.	2.8	13
18	Application of optical flow algorithms to laser speckle imaging. <i>Microvascular Research</i> , 2019, 122, 52-59.	1.1	16

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19	High repetition rate femtosecond laser heat accumulation and ablation thresholds in cobalt-binder and binderless tungsten carbides. <i>Journal of Materials Processing Technology</i> , 2019, 266, 388-396.	3.1	17
20	Evaluation of a transparent cranial implant for multi-wavelength intrinsic optical signal imaging. , 2019, , .		4
21	Enhanced near infrared optical access to the brain with a transparent cranial implant and scalp optical clearing. <i>Biomedical Optics Express</i> , 2019, 10, 3369.	1.5	14
22	Growth inhibition of <i>Staphylococcus Aureus</i> by a combined treatment of ZnO nanoparticles and femtosecond laser light. , 2019, , .		0
23	Second-harmonic generation of ZnO nanoparticles synthesized by laser ablation of solids in liquids. <i>Optics and Laser Technology</i> , 2018, 99, 118-123.	2.2	12
24	Meso-Scale Particle Image Velocimetry Studies of Neurovascular Flows <i>In Vitro</i> . <i>Journal of Visualized Experiments</i> , 2018, , .	0.2	0
25	Influence of oxygen pressure on the fs laser-induced oxidation of molybdenum thin films. <i>Optical Materials Express</i> , 2018, 8, 581.	1.6	15
26	Laser speckle imaging of brain blood flow through a transparent nanocrystalline yttria-stabilized-zirconia cranial implant. , 2018, , .		5
27	Influence of low temperature ageing on optical and mechanical properties of transparent yttria stabilized-zirconia cranial prosthesis. , 2018, , .		2
28	Evaluation of a transparent cranial implant as a permanent window for cerebral blood flow imaging. <i>Biomedical Optics Express</i> , 2018, 9, 4879.	1.5	16
29	Evaluation of Optical Access to the Brain in the Near Infrared Range with a Transparent Cranial Implant. , 2018, , .		4
30	Composite polymer membranes for laser-induced fluorescence thermometry. <i>Optical Materials Express</i> , 2018, 8, 3072.	1.6	3
31	Antibacterial studies of ZnO nanoparticle coatings on nanocrystalline YSZ irradiated with femtosecond laser light. , 2018, , .		0
32	Novel Cranial Implants of Yttria-stabilized Zirconia as Acoustic Windows for Ultrasonic Brain Therapy. <i>Advanced Healthcare Materials</i> , 2017, 6, 1700214.	3.9	19
33	Femtosecond laser assisted antibacterial activity of ZnO nanoparticles. , 2017, , .		0
34	Laser-excited gold nanoparticles for treatment of cancer cells in vitro. <i>Proceedings of SPIE</i> , 2017, , .	0.8	0
35	Controllable direction of liquid jets generated by thermocavitation within a droplet. <i>Applied Optics</i> , 2017, 56, 7167.	0.9	14
36	Evaluation of laser bacterial anti-fouling of transparent nanocrystalline yttria-stabilized-zirconia cranial implant. <i>Lasers in Surgery and Medicine</i> , 2016, 48, 782-789.	1.1	9

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37	Inflammatory response to implantation of transparent nanocrystalline yttria-stabilized zirconia using a dorsal window chamber model. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2016, 12, 1757-1763.	1.7	17
38	Reconstruction of laser-induced cavitation bubble dynamics based on a Fresnel propagation approach. <i>Applied Optics</i> , 2015, 54, 10432.	2.1	3
39	Monte Carlo method for photon heating using temperature-dependent optical properties. <i>Computer Methods and Programs in Biomedicine</i> , 2015, 118, 234-241.	2.6	2
40	EFFECTS OF LIQUID AND SURFACE CHARACTERISTICS ON OSCILLATION BEHAVIOR OF DROPLETS UPON IMPACT. <i>Atomization and Sprays</i> , 2014, 24, 895-913.	0.3	29
41	Optic cavitation with CW lasers: A review. <i>Physics of Fluids</i> , 2014, 26, .	1.6	79
42	Optical clearing agent perfusion enhancement via combination of microneedle poration, heating and pneumatic pressure. <i>Lasers in Surgery and Medicine</i> , 2014, 46, 488-498.	1.1	6
43	Laser-induced cavitation bubble reconstruction based on the Fresnel optical propagation. , 2014, , .		0
44	Green Fluorescent Protein as an Indicator of Cryoinjury in Tissues. <i>Annals of Biomedical Engineering</i> , 2013, 41, 2676-2686.	1.3	0
45	Transparent nanocrystalline yttria-stabilized-zirconia calvarium prosthesis. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2013, 9, 1135-1138.	1.7	51
46	Liquid jet generated by thermocavitation bubbles within a droplet. , 2013, , .		0
47	Preface for the Special Issue: CAVITATION BUBBLES, DROPLETS AND JETS. <i>Atomization and Sprays</i> , 2013, 23, v-vii.	0.3	0
48	HIGH RESOLUTION OPTICAL EXPERIMENTAL TECHNIQUE FOR COMPUTING PULSED LASER-INDUCED CAVITATION BUBBLE DYNAMICS IN A SINGLE SHOT. <i>Atomization and Sprays</i> , 2013, 23, 475-485.	0.3	7
49	EFFECTS OF DROP AND FILM VISCOSITY ON DROP IMPACTS ONTO THIN FILMS. <i>Atomization and Sprays</i> , 2013, 23, 525-540.	0.3	12
50	BREAKING THE RAYLEIGH-PLATEAU INSTABILITY LIMIT USING THERMOCAVITATION WITHIN A DROPLET. <i>Atomization and Sprays</i> , 2013, 23, 487-503.	0.3	9
51	Waveguide-like structures written in transparent polycrystalline ceramics with an ultra-low fluence femtosecond laser. <i>Optical Materials Express</i> , 2012, 2, 1416.	1.6	13
52	Towards the enhancement of transdermal drug delivery through thermocavitation. <i>Photonics & Lasers in Medicine</i> , 2012, 1, .	0.3	6
53	Numerical Prediction of the Intracellular ICE Formation Zone during Cryosurgery on a Nodular Basal Cell Carcinoma Using Liquid Nitrogen Spray. <i>International Journal of Spray and Combustion Dynamics</i> , 2012, 4, 341-379.	0.4	4
54	Optical properties of super stoichiometric TiN _{1+x} thin films. <i>Thin Solid Films</i> , 2012, 524, 272-277.	0.8	7

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55	Numerical Calculation of the Shear Stress Generated by the Flow Field Induced by an Oscillating Bubble Between Two Solid Boundaries. <i>International Journal of Thermophysics</i> , 2012, 33, 2217-2221.	1.0	1
56	Optical and Thermal Analysis of the Time Evolution of Curing in Resins by Photothermal Techniques. <i>International Journal of Thermophysics</i> , 2012, 33, 1892-1900.	1.0	5
57	An overview of clinical and experimental treatment modalities for port wine stains. <i>Journal of the American Academy of Dermatology</i> , 2012, 67, 289-304.e29.	0.6	179
58	An Overview of Three Promising Mechanical, Optical, and Biochemical Engineering Approaches to Improve Selective Photothermolysis of Refractory Port Wine Stains. <i>Annals of Biomedical Engineering</i> , 2012, 40, 486-506.	1.3	54
59	TARGETED MEDICAL SPRAYS STIMULATING THERAPEUTIC EFFECTS. <i>Atomization and Sprays</i> , 2011, 21, 327-348.	0.3	0
60	Thermocavitation as a tool for stratum corneum permeation. <i>Proceedings of SPIE</i> , 2011, , .	0.8	1
61	Laser-Assisted Cryosurgery in ex vivo Mice Hepatic Tissue: Viability Assays Using Green Fluorescent Protein. <i>Annals of Biomedical Engineering</i> , 2011, 39, 636-648.	1.3	6
62	Time-resolved study of the mechanical response of tissue phantoms to nanosecond laser pulses. <i>Journal of Biomedical Optics</i> , 2011, 16, 115001.	1.4	12
63	Experimental study of mechanical response of artificial tissue models irradiated with Nd:YAG nanosecond laser pulses. <i>Proceedings of SPIE</i> , 2011, , .	0.8	2
64	Temporal evolution of thermocavitation bubbles using high speed video camera. <i>Proceedings of SPIE</i> , 2011, , .	0.8	9
65	EXAMINING VISCOSITY AND SURFACE WETTABILITY ON LAMELLA LIFT DYNAMICS AND DROPLET SPLASHING. <i>Atomization and Sprays</i> , 2011, 21, 303-315.	0.3	10
66	Mechanical response of agar gel irradiated with Nd:YAG nanosecond laser pulses. <i>Proceedings of SPIE</i> , 2010, , .	0.8	1
67	Plasma Membrane Integrity and Survival of Melanoma Cells After Nanosecond Laser Pulses. <i>Annals of Biomedical Engineering</i> , 2010, 38, 3521-3531.	1.3	2
68	Electromechanical reshaping of septal cartilage. <i>Laryngoscope</i> , 2010, 113, 1916-1921.	1.1	38
69	SPLASHING PHENOMENA DURING LIQUID DROPLET IMPACT. <i>Atomization and Sprays</i> , 2010, 20, 297-310.	0.3	75
70	Effect of vacuum and thermal shock on laser treatment of <i>Trichophyton rubrum</i> (toenail fungus). , 2010, , .		3
71	Stratum corneum permeation and percutaneous drug delivery of hydrophilic molecules enhanced by cryopneumatic and photopneumatic technologies. <i>Journal of Drugs in Dermatology</i> , 2010, 9, 1528-30.	0.4	2
72	Are Drop-Impact Phenomena Described by Rayleigh-Taylor or Kelvin-Helmholtz Theory?. <i>Drying Technology</i> , 2009, 27, 316-321.	1.7	19

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73	An Experimental Study of In Vitro Transdermal Drug Delivery Assisted by Cryopneumatic Technology. , 2009, , .		0
74	Thermal modeling and experimental validation of human hair and skin heated by broadband light. Lasers in Surgery and Medicine, 2009, 41, 161-169.	1.1	13
75	Optical properties of transparent nanocrystalline yttria stabilized zirconia. Optical Materials, 2009, 32, 62-68.	1.7	113
76	Cell damage extent due to irradiation with nanosecond laser pulses under cell culturing medium and dry environment. Proceedings of SPIE, 2009, , .	0.8	0
77	Hydrophilic zeolite coatings for improved heat transfer: A quantitative analysis. AIChE Journal, 2008, 54, 779-790.	1.8	18
78	Vapor/liquid phase interaction in flare flashing sprays used in dermatologic cooling. International Journal of Heat and Mass Transfer, 2008, 51, 5721-5731.	2.5	25
79	Pump-probe imaging of nanosecond laser-induced bubbles in agar gel. Optics Express, 2008, 16, 7481.	1.7	40
80	Effect of Surface Roughness on Single Cryogen Droplet Spreading. Journal of Fluids Engineering, Transactions of the ASME, 2008, 130, .	0.8	9
81	Fluid and Thermal Dynamics of Cryogen Sprays Impinging on a Human Tissue Phantom. Journal of Biomechanical Engineering, 2008, 130, 051005.	0.6	2
82	Measurement of temperature profiles in turbulent pipe flow of polymer and surfactant drag-reducing solutions. Physics of Fluids, 2007, 19, 083105.	1.6	20
83	Irradiation of biological tissue using pulsed lasers: results and applications in medical areas. , 2007, 6422, 17.		2
84	Spray and Cooling Dynamics of Cryogen Sprays Impinging on a Human Skin Model. , 2007, , 815.		1
85	Laser-assisted cryosurgery of prostate: numerical study. Physics in Medicine and Biology, 2007, 52, 463-478.	1.6	10
86	Short and ultrashort laser pulse induced bubbles on transparent and scattering tissue models. , 2007, , .		5
87	Laser surgery of port wine stains using local vacuum pressure: Changes in skin morphology and optical properties (Part I). Lasers in Surgery and Medicine, 2007, 39, 108-117.	1.1	32
88	Laser surgery of port wine stains using local vacuum pressure: Changes in calculated energy deposition (Part II). Lasers in Surgery and Medicine, 2007, 39, 118-127.	1.1	22
89	Extent of lateral epidermal protection afforded by a cryogen spray against laser irradiation. Lasers in Surgery and Medicine, 2007, 39, 414-421.	1.1	9
90	Treatment of cutaneous vascular lesions using multiple, intermittent cryogen spurts and two-wavelength laser pulses: Numerical and animal studies. Lasers in Surgery and Medicine, 2007, 39, 494-503.	1.1	44

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91	Study of ns and fs Pulse Laser-Induced Effects in Biological-Tissue Models and Corneal Tissue. AIP Conference Proceedings, 2006, , .	0.3	2
92	Thermal Analysis for Cryosurgery of Nodular Basal Cell Carcinoma. , 2006, , 125.		3
93	Cutaneous Effects of Cryogen Spray Cooling on In Vivo Human Skin. Dermatologic Surgery, 2006, 32, 1007-1012.	0.4	0
94	Cutaneous Effects of Cryogen Spray Cooling on In Vivo Human Skin. Dermatologic Surgery, 2006, 32, 1007-1012.	0.4	17
95	Improvement of port wine stain laser therapy by skin preheating prior to cryogen spray cooling: A numerical simulation. Lasers in Surgery and Medicine, 2006, 38, 155-162.	1.1	26
96	Thermal responses of ex vivo human skin during multiple cryogen spurts and 1,450 nm laser pulses. Lasers in Surgery and Medicine, 2006, 38, 137-141.	1.1	8
97	Effect of ambient humidity on light transmittance through skin phantoms during cryogen spray cooling. Physics in Medicine and Biology, 2006, 51, 113-120.	1.6	10
98	Numerical Modeling of the Tissue Freezing-Thaw Cycle During Cutaneous Cryosurgery Using Liquid Nitrogen Spray. , 2005, , 275.		4
99	Effects of relative humidity on laser light transmittance during cryogen spray cooling of in vitro skin phantoms. , 2005, 5686, 154.		2
100	Numerical modeling of spray cooling-assisted dermatologic laser surgery for treatment of port wine stains. , 2005, 5686, 88.		0
101	Heat Transfer Dynamics During Treatment of Port Wine Stain Birthmarks With Multiple-Intermittent Cryogen Spurts and Laser Pulses. , 2005, , 855.		3
102	Effects of a Wire Mesh on Droplet Size and Velocity Distributions of Cryogenic Sprays. , 2005, , 825.		0
103	The Effect of Roughness on the Impact Dynamics and Heat Transfer of Cryogen Droplets Impinging Onto Indented Skin Phantoms. , 2005, , 861.		2
104	Skin model surface temperatures during single and multiple cryogen spurts used in laser dermatologic surgery. Lasers in Surgery and Medicine, 2005, 36, 141-146.	1.1	16
105	Effects of hypobaric pressure on human skin: Feasibility study for port wine stain laser therapy (Part I) Tj ETQq1 1 0.784314 rgBT /Overbo	1.1	35
106	Effects of hypobaric pressure on human skin: Implications for cryogen spray cooling (Part II). Lasers in Surgery and Medicine, 2005, 36, 130-135.	1.1	20
107	Evaluation of single versus multiple cryogen spray cooling spurts on in vitro model human skin. Lasers in Medical Science, 2005, 20, 80-86.	1.0	10
108	Confinement of Freezing Front by Laser Irradiation During Cryosurgery. , 2005, , 831.		2

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109	Determination of human skin optical properties from spectrophotometric measurements based on optimization by genetic algorithms. <i>Journal of Biomedical Optics</i> , 2005, 10, 024030.	1.4	80
110	Radial and temporal variations in surface heat transfer during cryogen spray cooling. <i>Physics in Medicine and Biology</i> , 2005, 50, 387-397.	1.6	38
111	Comparison of diffusion approximation and Monte Carlo based finite element models for simulating thermal responses to laser irradiation in discrete vessels. <i>Physics in Medicine and Biology</i> , 2005, 50, 4075-4086.	1.6	35
112	Heat-transfer dynamics during cryogen spray cooling of substrate at different initial temperatures. <i>Physics in Medicine and Biology</i> , 2004, 49, 5295-5308.	1.6	23
113	Influence of angle between the nozzle and skin surface on the heat flux and overall heat extraction during cryogen spray cooling. <i>Physics in Medicine and Biology</i> , 2004, 49, N147-N153.	1.6	29
114	Use of optical coherence tomography to monitor biological tissue freezing during cryosurgery. <i>Journal of Biomedical Optics</i> , 2004, 9, 282.	1.4	25
115	Radial Heat Transfer Dynamics During Cryogen Spray Cooling. , 2004, , 677.		5
116	A Comparative Study of Photoacoustic and Reflectance Methods for Determination of Epidermal Melanin Content. <i>Journal of Investigative Dermatology</i> , 2004, 122, 1432-1439.	0.3	72
117	Evaluation of cryogen spray cooling exposure on in vitro model human skin. <i>Lasers in Surgery and Medicine</i> , 2004, 34, 146-154.	1.1	42
118	Increase of dermal blood volume fraction reduces the threshold for laser-induced purpura: Implications for port wine stain laser treatment. <i>Lasers in Surgery and Medicine</i> , 2004, 34, 182-188.	1.1	42
119	Effect of skin indentation on heat transfer during cryogen spray cooling. <i>Lasers in Surgery and Medicine</i> , 2004, 34, 155-163.	1.1	26
120	Passive mass deposition control of cryogen sprays through the use of wire meshes. <i>Lasers in Surgery and Medicine</i> , 2004, 34, 329-334.	1.1	4
121	Evaluation of Sub-Zero and Residence Times After Continuous Versus Multiple Intermittent Cryogen Spray Cooling Exposure on Human Skin Phantom. , 2004, , .		1
122	Imaging of Port Wine Stain Lesions Using a Multi-Sensor Photoacoustic Probe. , 2004, , .		0
123	Experimental study of cryogen spray properties for application in dermatologic laser surgery. <i>IEEE Transactions on Biomedical Engineering</i> , 2003, 50, 863-869.	2.5	34
124	Cooling efficiency of cryogen spray during laser therapy of skin. <i>Lasers in Surgery and Medicine</i> , 2003, 32, 137-142.	1.1	31
125	Dynamic behavior of cryogen spray cooling: Effects of spurt duration and spray distance. <i>Lasers in Surgery and Medicine</i> , 2003, 32, 152-159.	1.1	55
126	Measurements of laser light attenuation following cryogen spray cooling spurt termination. <i>Lasers in Surgery and Medicine</i> , 2003, 32, 143-147.	1.1	24

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127	Characterization of temperature dependent mechanical behavior of cartilage. Lasers in Surgery and Medicine, 2003, 32, 271-278.	1.1	62
128	Photoacoustic measurement of epidermal melanin. , 2003, , .		22
129	Effect of spurt duration on the heat transfer dynamics during cryogen spray cooling. Physics in Medicine and Biology, 2003, 48, 2169-2181.	1.6	57
130	Effects of mass flow rate and droplet velocity on surface heat flux during cryogen spray cooling. Physics in Medicine and Biology, 2003, 48, N1-N6.	1.6	26
131	Experimental study of multiple-intermittent cryogen spurts and laser pulses for the treatment of port wine stain birthmarks. , 2003, , .		0
132	Design and construction of experimental device to study cryogen droplet deposition and heat transfer. , 2003, , .		0
133	Optimization of Cryogen Spray Cooling for Port Wine Stain Laser Therapy Using Photoacoustic Measurement of Epidermal Melanin. , 2003, , 13.		3
134	Correlations Between Spray Properties and Heat Transfer Dynamics During Cryogen Spray Cooling. , 2003, , .		0
135	Intermittent cryogen spray cooling for optimal heat extraction during dermatologic laser treatment. Physics in Medicine and Biology, 2002, 47, 3275-3288.	1.6	34
136	<title>Influence of cryogen spray cooling parameters on the heat extraction rate from a sprayed surface</title>. , 2002, 4609, 83.		1
137	<title>Modeling the thermal response of porcine cartilage to laser irradiation</title>. , 2002, , .		8
138	<title>Dynamic measurements of laser light attenuation by cryogen film and frost formation</title>. , 2002, , .		5
139	Cryogen spray cooling efficiency: Improvement of port wine stain laser therapy through multiple-intermittent cryogen spurts and laser pulses. Lasers in Surgery and Medicine, 2002, 31, 27-35.	1.1	67
140	Modeling the thermal response of porcine cartilage to laser irradiation. IEEE Journal of Selected Topics in Quantum Electronics, 2001, 7, 944-951.	1.9	39
141	Measurement of heat flux and heat transfer coefficient during continuous cryogen spray cooling for laser dermatologic surgery. IEEE Journal of Selected Topics in Quantum Electronics, 2001, 7, 1013-1021.	1.9	43
142	Influence of spraying distance and postcooling on cryogen spray cooling for dermatologic laser surgery. , 2001, , .		7
143	Sequential cryogen spraying for heat flux control at the skin surface. , 2001, 4244, 74.		15
144	On two distinct types of drag-reducing fluids, diameter scaling, and turbulent profiles. Journal of Non-Newtonian Fluid Mechanics, 2001, 96, 405-425.	1.0	60

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145	Influence of nozzle-to-skin distance in cryogen spray cooling for dermatologic laser surgery. Lasers in Surgery and Medicine, 2001, 28, 113-120.	1.1	76
146	Cryogen spray cooling in laser dermatology: Effects of ambient humidity and frost formation. Lasers in Surgery and Medicine, 2001, 28, 469-476.	1.1	58
147	Asymptotes of maximum friction and heat transfer reductions for drag-reducing surfactant solutions. International Journal of Heat and Mass Transfer, 2001, 44, 2835-2843.	2.5	56
148	Theoretical and experimental analysis of droplet diameter, temperature, and evaporation rate evolution in cryogenic sprays. International Journal of Heat and Mass Transfer, 2001, 44, 3201-3211.	2.5	85
149	Cryogen spray cooling in laser dermatology: Effects of ambient humidity and frost formation. , 2001, 28, 469.		4
150	Buoyancy effects on heat transfer and temperature profiles in horizontal pipe flow of drag-reducing fluids. International Journal of Heat and Mass Transfer, 2000, 43, 4267-4274.	2.5	20
151	Dynamics of cryogen deposition relative to heat extraction rate during cryogen spray cooling. , 2000, , .		39
152	Coupling Between Heat and Momentum Transfer Mechanisms for Drag-Reducing Polymer and Surfactant Solutions. Journal of Heat Transfer, 1999, 121, 796-802.	1.2	41
153	An improved diameter scaling correlation for turbulent flow of drag-reducing polymer solutions. Journal of Non-Newtonian Fluid Mechanics, 1999, 84, 131-148.	1.0	36