

Mark R Dickinson

List of Publications by Year in descending order

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77
papers

1,643
citations

430843

18
h-index

315719

38
g-index

77
all docs

77
docs citations

77
times ranked

1945
citing authors

#	ARTICLE	IF	CITATIONS
1	Nanometric optical tweezers based on nanostructured substrates. <i>Nature Photonics</i> , 2008, 2, 365-370.	31.4	602
2	Laser-tissue interaction with a continuous wave 3- μ m fibre laser: Preliminary studies with soft tissue. <i>Lasers in Surgery and Medicine</i> , 2000, 26, 491-495.	2.1	77
3	Laser-tissue interaction with a high-power 2- μ m fiber laser: Preliminary studies with soft tissue. , 1999, 25, 407-413.		55
4	Laser manipulation in liquid crystals: an approach to microfluidics and micromachines. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2006, 364, 2789-2805.	3.4	55
5	Mechanisms of optical angular momentum transfer to nematic liquid crystalline droplets. <i>Applied Physics Letters</i> , 2004, 84, 4292-4294.	3.3	53
6	Erbium-YAG and holmium-YAG laser ablation of bone. <i>Lasers in Medical Science</i> , 1990, 5, 365-373.	2.1	51
7	Lateralisation of nociceptive processing in the human brain: a functional magnetic resonance imaging study. <i>NeuroImage</i> , 2004, 23, 1068-1077.	4.2	49
8	Continuously rotating chiral liquid crystal droplets in a linearly polarized laser trap. <i>Optics Express</i> , 2008, 16, 6877.	3.4	45
9	Osseointegration of Titanium Metal Implants in Erbium-YAG Laser-Prepared Bone. <i>Implant Dentistry</i> , 1999, 8, 79-85.	1.3	42
10	Particle sizing and flow measurement using self-mixing interferometry with a laser diode. <i>Journal of Optics</i> , 2005, 7, S445-S452.	1.5	42
11	Effect of target biological tissue and choice of light source on penetration depth and resolution in optical coherence tomography. <i>Journal of Biomedical Optics</i> , 2004, 9, 193.	2.6	38
12	The effects of XeCl laser etching of Niâ€“Cr alloy on bond strengths to composite resin: a comparison with sandblasting procedures. <i>Dental Materials</i> , 2005, 21, 538-544.	3.5	28
13	Sliding displacement of amnion and chorion following controlled laser wounding suggests a mechanism for short-term sealing of ruptured membranes. <i>Placenta</i> , 1994, 15, 775-778.	1.5	27
14	Pattern of healing of calvarial bone in the rat following application of the erbium-YAG laser. , 1997, 21, 255-261.		27
15	Er:YAG ($\lambda=2.94\mu\text{m}$) Laser Etching of Dental Enamel as an Alternative to Acid Etching. <i>Lasers in Medical Science</i> , 2000, 15, 154-161.	2.1	26
16	Q-switching the Erbium-YAG Laser. <i>Journal of Modern Optics</i> , 1994, 41, 2043-2053.	1.3	24
17	Laser Doppler imaging through tissues phantoms by using self-mixing interferometry with a laser diode. <i>Optics Letters</i> , 2007, 32, 2798.	3.3	22
18	Studies of Er-YAG laser interactions with soft tissue. <i>Lasers in Medical Science</i> , 1991, 6, 125-131.	2.1	20

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19	Continuous-wave diode-pumped Yb ³⁺ :S-FAP laser. <i>Optics Communications</i> , 1996, 132, 275-278.	2.1	20
20	<title>Development and application of fiber lasers for medical applications</title>. , 2001, 4253, 144.		20
21	Full-field coherence-gated holographic imaging through scattering media using a photorefractive polymer composite device. <i>Applied Physics Letters</i> , 2004, 85, 363-365.	3.3	19
22	Dynamic light scattering by using self-mixing interferometry with a laser diode. <i>Applied Optics</i> , 2006, 45, 2240.	2.1	19
23	Three-dimensional optoacoustic imaging of nailfold capillaries in systemic sclerosis and its potential for disease differentiation using deep learning. <i>Scientific Reports</i> , 2020, 10, 16444.	3.3	19
24	Healing of bone defects prepared using the erbium-YAG laser. <i>Lasers in Medical Science</i> , 1994, 9, 239-242.	2.1	17
25	Histological validation of near-infrared reflectance multispectral imaging technique for caries detection and quantification. <i>Journal of Biomedical Optics</i> , 2012, 17, 0760091.	2.6	17
26	Pushing, pulling and twisting liquid crystal systems: exploring new directions with laser manipulation. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2013, 371, 20120265.	3.4	16
27	Ultraviolet Pulse Transmission in Optical Fibres. <i>Journal of Modern Optics</i> , 1988, 35, 371-385.	1.3	15
28	Reduction of coherent artefacts in super-resolution fluorescence localisation microscopy. <i>Journal of Microscopy</i> , 2016, 264, 375-383.	1.8	13
29	Micron-scale crack propagation in laser-irradiated enamel and dentine studied with nano-CT. <i>Clinical Oral Investigations</i> , 2019, 23, 2279-2285.	3.0	13
30	Tracking digital ulcers in systemic sclerosis: a feasibility study assessing lesion area in patient-recorded smartphone photographs. <i>Annals of the Rheumatic Diseases</i> , 2018, 77, 1382-1384.	0.9	12
31	Tissue ablation-rate measurements with a long-pulsed, fibre-deliverable 308nm excimer laser. <i>Lasers in Medical Science</i> , 2004, 19, 127-138.	2.1	11
32	Second-harmonic generation and the influence of flexoelectricity in the nematic phases of bent-core oxadiazoles. <i>Liquid Crystals</i> , 2016, 43, 1315-1332.	2.2	11
33	The transverse trapping force of an optical trap: Factors affecting its measurement. <i>Journal of Modern Optics</i> , 2003, 50, 1521-1532.	1.3	9
34	Nanometric laser trapping of microbubbles based on nanostructured substrates. <i>Optics Communications</i> , 2007, 278, 439-444.	2.1	9
35	Enhanced photosynthetic output via dichroic beam-sharing. <i>Biotechnology Letters</i> , 2012, 34, 2229-2234.	2.2	9
36	State-of-the-art technologies provide new insights linking skin and blood vessel abnormalities in SSc-related disorders. <i>Microvascular Research</i> , 2020, 130, 104006.	2.5	9

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37	An erbium: YAG oscillator-amplifier laser system. Optics Communications, 1995, 113, 453-457.	2.1	7
38	Depth-resolved holographic imaging through scattering media by use of a photorefractive polymer composite device in the near infrared. Optics Letters, 2005, 30, 1941.	3.3	7
39	A novel modelling and experimental technique to predict and measure tissue temperature during CO2 laser stimuli for human pain studies. Lasers in Medical Science, 2006, 21, 95-100.	2.1	7
40	Polarization Frequency Splitting in Non-planar Ring Laser Resonators. Journal of Modern Optics, 1987, 34, 1045-1055.	1.3	6
41	Photothermal-induced temperature changes in a model inner ear: a comparison of visible, infrared, and ultraviolet lasers. IEEE Journal of Selected Topics in Quantum Electronics, 1996, 2, 951-958.	2.9	6
42	Theoretical comparison of light sources for use in optical coherence tomography. , 2002, 4619, 289.		6
43	Effect of the Er: YAG laser on the shear bond strength of conventional glass ionomer and Biodentine™ to dentine. European Journal of Dentistry, 2018, 12, 380-385.	1.7	6
44	High-speed photography of plasma during excimer laser-tissue interaction. Physics in Medicine and Biology, 2004, 49, 3325-3340.	3.0	5
45	Erbium- and Holmium-doped YAG Lasers: A Comparative Study. Journal of Modern Optics, 1990, 37, 455-462.	1.3	4
46	Post-operative healing of erbium YAG laser incisions. Lasers in Medical Science, 1992, 7, 449-453.	2.1	4
47	<title>Erbium:YAG laser radiation interaction with dental tissue</title>. Proceedings of SPIE, 1993, 2080, 33.	0.8	4
48	Effect of 2.94 Åµm Er: YAG laser on the chemical composition of hard tissues. Microscopy Research and Technique, 2018, 81, 887-896.	2.2	4
49	Initial investigation into the effect of varying parameters in using an Er:YAG laser for the removal of brass-based overpaint from an oil-gilded frame. Journal of the Institute of Conservation, 2020, 43, 94-106.	0.6	4
50	O15â€fUsing a smartphone app to characterise and quantify skin colour changes in Raynaud's attacks. Rheumatology, 2021, 60, .	1.9	4
51	Flat-top beam for laser-stimulated pain. , 2005, , .		3
52	Coreâ€Shellâ€Shell Nanoparticles for NIR Fluorescence Imaging and NRET Swelling Reporting of Injectable or Implantable Gels. Biomacromolecules, 2019, 20, 2694-2702.	5.4	3
53	High-power diode laser system near 1 Î¼m and comparative tissue interaction studies. , 1994, 2131, 308.		2
54	<title>Investigations into the interaction of a high-power semiconductor diode laser with biological tissue</title>. , 1994, , .		2

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55	<title>Laser stimulation for pain research</title>. , 1996, , .		2
56	Ablation studies of erbium:YAG laser radiation with. Journal Physics D: Applied Physics, 1996, 29, 2735-2739.	2.8	2
57	Qualitative assessment of surface topography of XeCl laser etched Niâ€“Cr alloy. Dental Materials, 2005, 21, 837-845.	3.5	2
58	Laser tweezers for determining anisotropic viscosity coefficients of nematic liquid crystals. , 2010, , .		2
59	Surface characteristics of argon laser ablated bone in the presence and absence of an initiator. , 1995, , .		2
60	<title>Interaction of a pulsed alexandrite laser with hard and soft biological tissue</title>. , 1994, , .		1
61	Investigation into the interaction of a XeCl excimer laser with hard tissue. , 2000, 3914, 137.		1
62	Investigation of the factors affecting the transverse force measurements of an optical trap: II. , 2002, , .		1
63	Optical coherence tomography using a photorefractive polymer composite. , 2003, 4956, 333.		1
64	Self-mixing interferometry with a laser diode: experimental considerations for sensing applications. Journal of Optics, 2006, 8, 555-568.	1.5	1
65	Time and Frequency Resolved XeCl Laser-Induced Mechanical Transients in Otic Capsule Bone. Photomedicine and Laser Surgery, 2008, 26, 31-36.	2.0	1
66	Pilot study to visualise and measure skin tissue oxygenation, erythema, total haemoglobin and melanin content using index maps in healthy controls. , 2014, , .		1
67	Temperature and evaporative water loss of leaf-sitting frogs: the role of reflection spectra. Biology Open, 2016, 5, 1799-1805.	1.2	1
68	Development of a broadband light source with variable pulse length and energy for the treatment of vascular lesions. , 1997, , .		0
69	Study of the luminous plasma and plume produced on interaction of a XeCl laser and biological tissues. , 2001, 4257, 269.		0
70	Flow measurements through scattering samples using self-mixing interferometry with a laser diode. , 2006, 6191, 305.		0
71	Flatop Laser Irradiance Profile for Stimulation of Cutaneous Nociceptors. Photomedicine and Laser Surgery, 2008, 26, 267-272.	2.0	0
72	Measuring the thickness of the peritoneal membrane in mice with optical coherence tomography. Proceedings of SPIE, 2011, , .	0.8	0

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73	Twisting and tweezing liquid crystals with lasers. , 2014, , .		0
74	Understanding local forces in electrophoretic ink systems: utilizing optical tweezers to explore electrophoretic display devices. Proceedings of SPIE, 2016, , .	0.8	0
75	P166â€fHow well does deep learning differentiate between optoacoustic and optical nailfold capillaroscopy images from patients with systemic sclerosis versus those from healthy controls?. Rheumatology, 2020, 59, .	1.9	0
76	Corrigendum to: Systemic sclerosis-related digital ulcers; a pilot study of cutaneous oxygenation and perfusion. Rheumatology, 2021, 60, 2490-2490.	1.9	0
77	P230â€fFeasibility study of mobile phone photography as a possible outcome measure of systemic sclerosis-related digital ulcers. Rheumatology, 2022, 61, .	1.9	0