

Mark R Dickinson

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

67

papers

1,391

citations

18

h-index

36

g-index

77

ext. papers

1,613

ext. citations

3.6

avg, IF

4.44

L-index

#	Paper	IF	Citations
67	Nanometric optical tweezers based on nanostructured substrates. <i>Nature Photonics</i> , 2008 , 2, 365-370	33.9	488
66	Corrigendum to: Systemic sclerosis-related digital ulcers; a pilot study of cutaneous oxygenation and perfusion. <i>Rheumatology</i> , 2021 , 60, 2490-2490	3.9	78
65	Laser-tissue interaction with a continuous wave 3-mcm fibre laser: preliminary studies with soft tissue. <i>Lasers in Surgery and Medicine</i> , 2000 , 26, 491-5	3.6	65
64	Laser-tissue interaction with a high-power 2-microm fiber laser: preliminary studies with soft tissue. <i>Lasers in Surgery and Medicine</i> , 1999 , 25, 407-13	3.6	49
63	Laser manipulation in liquid crystals: an approach to microfluidics and micromachines. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2006 , 364, 2789-805	3	48
62	Erbium-YAG and holmium-YAG laser ablation of bone. <i>Lasers in Medical Science</i> , 1990 , 5, 365-373	3.1	46
61	Mechanisms of optical angular momentum transfer to nematic liquid crystalline droplets. <i>Applied Physics Letters</i> , 2004 , 84, 4292-4294	3.4	43
60	Lateralisation of nociceptive processing in the human brain: a functional magnetic resonance imaging study. <i>NeuroImage</i> , 2004 , 23, 1068-77	7.9	42
59	Continuously rotating chiral liquid crystal droplets in a linearly polarized laser trap. <i>Optics Express</i> , 2008 , 16, 6877-82	3.3	35
58	Particle sizing and flow measurement using self-mixing interferometry with a laser diode. <i>Journal of Optics</i> , 2005 , 7, S445-S452		31
57	Osseointegration of titanium metal implants in erbium-YAG laser-prepared bone. <i>Implant Dentistry</i> , 1999 , 8, 79-85	2.4	31
56	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, 193-9	3.5	29
55	Pattern of healing of calvarial bone in the rat following application of the erbium-YAG laser. <i>Lasers in Surgery and Medicine</i> , 1997 , 21, 255-61	3.6	25
54	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	3.1	24
53	Brief communication: 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, 775-8	3.4	22
52	The effects of XeCl laser etching of Ni-Cr alloy on bond strengths to composite resin: a comparison with sandblasting procedures. <i>Dental Materials</i> , 2005 , 21, 538-44	5.7	20
51	Q-switching the Erbium-YAG Laser. <i>Journal of Modern Optics</i> , 1994 , 41, 2043-2053	1.1	19

50	Laser Doppler imaging through tissues phantoms by using self-mixing interferometry with a laser diode. <i>Optics Letters</i> , 2007 , 32, 2798-800	3	18
49	Studies of Er-YAG laser interactions with soft tissue. <i>Lasers in Medical Science</i> , 1991 , 6, 125-131	3.1	18
48	Continuous-wave diode-pumped Yb ³⁺ :S-FAP laser. <i>Optics Communications</i> , 1996 , 132, 275-278	2	16
47	Healing of bone defects prepared using the erbium-YAG laser. <i>Lasers in Medical Science</i> , 1994 , 9, 239-242	3.1	16
46	Dynamic light scattering by using self-mixing interferometry with a laser diode. <i>Applied Optics</i> , 2006 , 45, 2240-5	1.7	15
45	Full-field coherence-gated holographic imaging through scattering media using a photorefractive polymer composite device. <i>Applied Physics Letters</i> , 2004 , 85, 363-365	3.4	14
44	Histological validation of near-infrared reflectance multispectral imaging technique for caries detection and quantification. <i>Journal of Biomedical Optics</i> , 2012 , 17, 076009	3.5	13
43	Development and application of fiber lasers for medical applications 2001 , 4253, 144		12
42	Ultraviolet Pulse Transmission in Optical Fibres. <i>Journal of Modern Optics</i> , 1988 , 35, 371-385	1.1	12
41	Reduction of coherent artefacts in super-resolution fluorescence localisation microscopy. <i>Journal of Microscopy</i> , 2016 , 264, 375-383	1.9	10
40	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	10
39	Tissue ablation-rate measurements with a long-pulsed, fibre-deliverable 308 nm excimer laser. <i>Lasers in Medical Science</i> , 2004 , 19, 127-38	3.1	10
38	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	4.9	10
37	Enhanced photosynthetic output via dichroic beam-sharing. <i>Biotechnology Letters</i> , 2012 , 34, 2229-34	3	9
36	Second-harmonic generation and the influence of flexoelectricity in the nematic phases of bent-core oxadiazoles. <i>Liquid Crystals</i> , 2016 , 43, 1315-1332	2.3	9
35	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	2.4	8
34	Nanometric laser trapping of microbubbles based on nanostructured substrates. <i>Optics Communications</i> , 2007 , 278, 439-444	2	8
33	Depth-resolved holographic imaging through scattering media by use of a photorefractive polymer composite device in the near infrared. <i>Optics Letters</i> , 2005 , 30, 1941-3	3	7

32	The transverse trapping force of an optical trap: Factors affecting its measurement. <i>Journal of Modern Optics</i> , 2003 , 50, 1521-1532	1.1	7
31	Micron-scale crack propagation in laser-irradiated enamel and dentine studied with nano-CT. <i>Clinical Oral Investigations</i> , 2019 , 23, 2279-2285	4.2	7
30	A novel modelling and experimental technique to predict and measure tissue temperature during CO2 laser stimuli for human pain studies. <i>Lasers in Medical Science</i> , 2006 , 21, 95-100	3.1	6
29	Polarization Frequency Splitting in Non-planar Ring Laser Resonators. <i>Journal of Modern Optics</i> , 1987 , 34, 1045-1055	1.1	6
28	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	3.7	5
27	Effect of the Er: YAG laser on the shear bond strength of conventional glass ionomer and Biodentine to dentine. <i>European Journal of Dentistry</i> , 2018 , 12, 380-385	2.6	5
26	High-speed photography of plasma during excimer laser-tissue interaction. <i>Physics in Medicine and Biology</i> , 2004 , 49, 3325-40	3.8	4
25	Erbium:YAG laser radiation interaction with dental tissue 1993 , 2080, 33		4
24	Core-Shell-Shell Nanoparticles for NIR Fluorescence Imaging and NRET Swelling Reporting of Injectable or Implantable Gels. <i>Biomacromolecules</i> , 2019 , 20, 2694-2702	6.9	3
23	An erbium: YAG oscillator-amplifier laser system. <i>Optics Communications</i> , 1995 , 113, 453-457	2	3
22	Photothermal-induced temperature changes in a model inner ear: a comparison of visible, infrared, and ultraviolet lasers. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 1996 , 2, 951-958	3.8	3
21	Post-operative healing of erbium YAG laser incisions. <i>Lasers in Medical Science</i> , 1992 , 7, 449-453	3.1	3
20	Erbium- and Holmium-doped YAG Lasers: A Comparative Study. <i>Journal of Modern Optics</i> , 1990 , 37, 455-462		3
19	Laser tweezers for determining anisotropic viscosity coefficients of nematic liquid crystals 2010 ,		2
18	Ablation studies of erbium:YAG laser radiation with. <i>Journal Physics D: Applied Physics</i> , 1996 , 29, 2735-2739		2
17	Theoretical comparison of light sources for use in optical coherence tomography 2002 , 4619, 289		2
16	Investigations into the interaction of a high-power semiconductor diode laser with biological tissue 1994 ,		2
15	Surface characteristics of argon laser ablated bone in the presence and absence of an initiator 1995 ,		2

14	O15 Using a smartphone app to characterise and quantify skin colour changes in Raynaud's attacks. <i>Rheumatology</i> , 2021 , 60,	3.9	2
13	Effect of 2.94 μm Er: YAG laser on the chemical composition of hard tissues. <i>Microscopy Research and Technique</i> , 2018 , 81, 887-896	2.8	2
12	Pilot study to visualise and measure skin tissue oxygenation, erythema, total haemoglobin and melanin content using index maps in healthy controls 2014 ,		1
11	Optical coherence tomography using a photorefractive polymer composite 2003 , 4956, 333		1
10	Qualitative assessment of surface topography of XeCl laser etched Ni-Cr alloy. <i>Dental Materials</i> , 2005 , 21, 837-45	5.7	1
9	Investigation of the factors affecting the transverse force measurements of an optical trap: II 2002 ,		1
8	Investigation into the interaction of a XeCl excimer laser with hard tissue 2000 , 3914, 137		1
7	Laser stimulation for pain research 1996 ,		1
6	Temperature and evaporative water loss of leaf-sitting frogs: the role of reflection spectra. <i>Biology Open</i> , 2016 , 5, 1799-1805	2.2	1
5	Time and frequency resolved XeCl laser-induced mechanical transients in otic capsule bone. <i>Photomedicine and Laser Surgery</i> , 2008 , 26, 31-6		0
4	Self-mixing interferometry with a laser diode: experimental considerations for sensing applications. <i>Journal of Optics</i> , 2006 , 8, 555-568		0
3	Flat-top laser irradiance profile for stimulation of cutaneous nociceptors. <i>Photomedicine and Laser Surgery</i> , 2008 , 26, 267-72		
2	Flow measurements through scattering samples using self-mixing interferometry with a laser diode 2006 , 6191, 305		
1	Study of the luminous plasma and plume produced on interaction of a XeCl laser and biological tissues 2001 , 4257, 269		