

Nathaniel M Fried

List of Publications by Year in descending order

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49
papers

1,210
citations

394421

19
h-index

395702

33
g-index

49
all docs

49
docs citations

49
times ranked

657
citing authors

#	ARTICLE	IF	CITATIONS
1	Advances in laser technology and fibre-optic delivery systems in lithotripsy. <i>Nature Reviews Urology</i> , 2018, 15, 563-573.	3.8	124
2	Recent advances in infrared laser lithotripsy [Invited]. <i>Biomedical Optics Express</i> , 2018, 9, 4552.	2.9	102
3	Preclinical comparison of superpulse thulium fiber laser and a holmium:YAG laser for lithotripsy. <i>World Journal of Urology</i> , 2020, 38, 497-503.	2.2	102
4	Noncontact Stimulation of the Cavernous Nerves in the Rat Prostate Using a Tunable-Wavelength Thulium Fiber Laser. <i>Journal of Endourology</i> , 2008, 22, 409-414.	2.1	79
5	Thulium fiber laser lithotripsy in an <i>in vitro</i> ureter model. <i>Journal of Biomedical Optics</i> , 2014, 19, 128001.	2.6	73
6	High power holmium:YAG versus thulium fiber laser treatment of kidney stones in dusting mode: ablation rate and fragment size studies. <i>Lasers in Surgery and Medicine</i> , 2019, 51, 522-530.	2.1	72
7	Holmium:YAG (2,120 nm) versus thulium fiber (1,908 nm) laser lithotripsy. <i>Lasers in Surgery and Medicine</i> , 2010, 42, 232-236.	2.1	69
8	Analysis of thulium fiber laser induced bubble dynamics for ablation of kidney stones. <i>Journal of Biophotonics</i> , 2017, 10, 1240-1249.	2.3	52
9	Imaging the cavernous nerves in the rat prostate using optical coherence tomography. <i>Lasers in Surgery and Medicine</i> , 2007, 39, 36-41.	2.1	48
10	Thulium fiber laser lithotripsy using tapered fibers. <i>Lasers in Surgery and Medicine</i> , 2010, 42, 45-50.	2.1	35
11	Identification and Imaging of the Nerves Responsible for Erectile Function in Rat Prostate, <i>In Vivo</i> , Using Optical Nerve Stimulation and Optical Coherence Tomography. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2007, 13, 1641-1645.	2.9	33
12	Rapid sealing and cutting of porcine blood vessels, <i>ex vivo</i> , using a high-power, 1470-nm diode laser. <i>Journal of Biomedical Optics</i> , 2014, 19, 038002.	2.6	29
13	Fiber optic muzzle brake tip for reducing fiber burnback and stone retropulsion during thulium fiber laser lithotripsy. <i>Journal of Biomedical Optics</i> , 2017, 22, 018001.	2.6	29
14	Infrared laser thermal fusion of blood vessels: preliminary <i>ex vivo</i> tissue studies. <i>Journal of Biomedical Optics</i> , 2013, 18, 058001.	2.6	28
15	Detachable microsphere scalpel tips for potential use in ophthalmic surgery with the erbium:YAG laser. <i>Journal of Biomedical Optics</i> , 2014, 19, 018003.	2.6	25
16	Collateral damage to the ureter and Nitinol stone baskets during thulium fiber laser lithotripsy. <i>Lasers in Surgery and Medicine</i> , 2015, 47, 403-410.	2.1	23
17	Laser stimulation of the cavernous nerves in the rat prostate, <i>in vivo</i> : Optimization of wavelength, pulse energy, and pulse repetition rate. , 2008, 2008, 2777-80.		21
18	Rapid sealing of porcine renal blood vessels, <i>ex vivo</i> , using a high power, 1470-nm laser, and laparoscopic prototype. <i>Journal of Biomedical Optics</i> , 2017, 22, 058002.	2.6	21

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19	Infrared laser sealing of porcine vascular tissues using a 1,470-nm diode laser: Preliminary <i>in vivo</i> studies. <i>Lasers in Surgery and Medicine</i> , 2017, 49, 366-371.	2.1	21
20	A Miniaturized, 1.9F Integrated Optical Fiber and Stone Basket for Use in Thulium Fiber Laser Lithotripsy. <i>Journal of Endourology</i> , 2015, 29, 1110-1114.	2.1	20
21	New laser treatment approaches for benign prostatic hyperplasia. <i>Current Urology Reports</i> , 2007, 8, 47-52.	2.2	19
22	Miniature ball-tip optical fibers for use in thulium fiber laser ablation of kidney stones. <i>Journal of Biomedical Optics</i> , 2016, 21, 018003.	2.6	19
23	Subsurface near-infrared laser stimulation of the periprostatic cavernous nerves. <i>Journal of Biophotonics</i> , 2012, 5, 793-800.	2.3	18
24	Novel methods for mapping the cavernous nerves during radical prostatectomy. <i>Nature Reviews Urology</i> , 2015, 12, 451-460.	3.8	18
25	Mid-IR Germanium Oxide Fibers for Contact Erbium Laser Tissue Ablation in Endoscopic Surgery. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2007, 13, 1709-1714.	2.9	16
26	Thulium fiber laser ablation of kidney stones using an automated, vibrating fiber. <i>Journal of Biomedical Optics</i> , 2019, 24, 1.	2.6	16
27	Computer simulations of thermal tissue remodeling during transvaginal and transurethral laser treatment of female stress urinary incontinence. <i>Lasers in Surgery and Medicine</i> , 2017, 49, 198-205.	2.1	13
28	Microscopic analysis of laser-induced proximal fiber tip damage during holmium:YAG and thulium fiber laser lithotripsy. <i>Optical Engineering</i> , 2016, 55, 046102.	1.0	12
29	Noninvasive laser vasectomy: Preliminary <i>ex vivo</i> tissue studies. <i>Lasers in Surgery and Medicine</i> , 2009, 41, 203-207.	2.1	8
30	Infrared Laser Nerve Stimulation as a Potential Diagnostic Method for Intra-Operative Identification and Preservation of the Prostate Cavernous Nerves. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2014, 20, 299-306.	2.9	8
31	Computational Simulations for Infrared Laser Sealing and Cutting of Blood Vessels. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2021, 27, 1-8.	2.9	8
32	Optical clearing of vaginal tissues, <i>ex vivo</i> , for minimally invasive laser treatment of female stress urinary incontinence. <i>Journal of Biomedical Optics</i> , 2017, 22, 018002.	2.6	7
33	Comparison of fiber-optic linear beam shaping designs for laparoscopic laser sealing of vascular tissues. <i>Optical Engineering</i> , 2022, 61, .	1.0	6
34	High-frequency ultrasound imaging of noninvasive laser coagulation of the canine vas deferens. <i>Lasers in Surgery and Medicine</i> , 2011, 43, 838-842.	2.1	4
35	Selective laser vaporization of polypropylene mesh used in treatment of female stress urinary incontinence and pelvic organ prolapse: Preliminary studies using a red diode laser. <i>Lasers in Surgery and Medicine</i> , 2012, 44, 325-329.	2.1	4
36	Comparison of four lasers ($\lambda = 650, 808, 980, \text{ and } 1075 \text{ nm}$) for noninvasive creation of deep subsurface lesions in tissue. <i>Proceedings of SPIE</i> , 2015, 9542, .	0.8	4

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37	Laser treatment of female stress urinary incontinence: optical, thermal, and tissue damage simulations. , 2016, 9689, .		4
38	Nondestructive optical feedback systems for use during infrared laser sealing of blood vessels. Lasers in Surgery and Medicine, 2022, 54, 875-882.	2.1	4
39	Dynamic properties of surfactant-enhanced laser-induced vapor bubbles for lithotripsy applications. Journal of Biomedical Optics, 2021, 26, .	2.6	3
40	Thulium fiber laser-induced vapor bubble dynamics using bare, tapered, ball, hollow steel, and muzzle brake fiber optic tips. Optical Engineering, 2018, 57, 1.	1.0	3
41	Noninvasive laser coagulation of the human vas deferens: Optical and thermal simulations. Lasers in Surgery and Medicine, 2011, 43, 443-449.	2.1	2
42	Thulium fiber laser recanalization of occluded ventricular catheters in an <i>ex vivo</i> tissue model. Journal of Biomedical Optics, 2017, 22, 048001.	2.6	2
43	Sealing and bisection of blood vessels using a 1470 nm laser: optical, thermal, and tissue damage simulations. , 2021, 11621, .		2
44	Optical transmission feedback for infrared laser sealing of blood vessels. , 2021, , .		2
45	Optical coherence tomography for use in infrared laser sealing of blood vessels. , 2020, 2020, .		1
46	LASER PROBE WITH INTEGRATED CONTACT COOLING FOR SUBSURFACE TISSUE THERMAL REMODELING. Journal of the Mississippi Academy of Sciences Mississippi Academy of Sciences, 2018, 63, 202-205.	1.0	1
47	Diffusing, side-firing, and radial delivery laser balloon catheters for creating subsurface thermal lesions in tissue. Proceedings of SPIE, 2016, 9689, .	0.8	0
48	Simulations and testing of the mechanical properties of small core optical fibers for ureteroscopy. Optical Engineering, 2021, 60, .	1.0	0
49	Optical clearing of vaginal tissues in cadavers. , 2018, 10468, .		0