

# Jing Gao

## List of Publications by Year in descending order

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78  
papers

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citations

394421

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all docs

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docs citations

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#	ARTICLE	IF	CITATIONS
1	The single-wavelength 561-nm laser based on reflective volume Bragg grating. <i>Microwave and Optical Technology Letters</i> , 2023, 65, 1255-1260.	1.4	1
2	Tunable short-wave near-infrared continuous wave source based on a 532-nm pumped singly resonant optical parametric idler oscillator. , 2022, 1, 547.		0
3	High peak power, high repetition rate electro-optically Q-switched Nd:GdTaO <sub>4</sub> 1066-nm laser. <i>Infrared Physics and Technology</i> , 2022, 125, 104266.	2.9	0
4	Determination of blood species using echelle Raman spectrometer and surface enhanced Raman spectroscopy. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2022, 281, 121640.	3.9	3
5	Discrimination of blood species using Raman spectroscopy combined with a recurrent neural network. <i>OSA Continuum</i> , 2021, 4, 672.	1.8	15
6	High Dynamic Range Structured Illumination Microscope Based on Multiple Exposures. <i>Frontiers in Physics</i> , 2021, 9, .	2.1	3
7	High-power, continuous-wave optical parametric oscillator based on MgO:PPLT crystal. <i>Microwave and Optical Technology Letters</i> , 2021, 63, 2068-2073.	1.4	7
8	The application of bioactive pyrazolopyrimidine unit for the construction of fluorescent biomarkers. <i>Dyes and Pigments</i> , 2020, 173, 107878.	3.7	16
9	The identification of blood species using the correlation coefficient of sub-spectra based on Raman spectroscopy. <i>Optik</i> , 2020, 200, 163312.	2.9	4
10	Comparison on performances of continuous-wave and acousto-optically Q-switched Nd:GdYTaO <sub>4</sub> lasers under 808-nm and 879-nm pumping. <i>Infrared Physics and Technology</i> , 2020, 110, 103449.	2.9	2
11	4F <sub>3/2</sub> →4I <sub>9/2</sub> and 4F <sub>3/2</sub> →4I <sub>13/2</sub> laser operations with a Nd:GdTaO <sub>4</sub> crystal. <i>Optics and Laser Technology</i> , 2020, 131, 106444.	4.6	4
12	Harmonic mode locking underneath the Q-switched envelope in passively Q-switched mode-locked Nd:GdTaO <sub>4</sub> 1066-nm laser. <i>Infrared Physics and Technology</i> , 2020, 111, 103553.	2.9	5
13	Synthesis and optical properties of bispyrazolopyridine derivatives. <i>Dyes and Pigments</i> , 2020, 181, 108569.	3.7	3
14	Rational design of a multifunctional molecular dye for dual-modal NIR-II/photoacoustic imaging and photothermal therapy. <i>Chemical Science</i> , 2019, 10, 8348-8353.	7.4	137
15	High-repetition-rate passively Q-switched Nd:GdTaO <sub>4</sub> 1066-nm laser under 879-nm pumping. <i>Infrared Physics and Technology</i> , 2019, 102, 103025.	2.9	6
16	Novel CW and actively Q-switched 1066 nm Nd:GdYNbO <sub>4</sub> laser under direct pumping. <i>Optik</i> , 2019, 181, 398-403.	2.9	1
17	Fluorescent hydrogen sulfide probes based on azonia-cyanine dyes and their imaging applications in organelles. <i>Analytica Chimica Acta</i> , 2019, 1068, 60-69.	5.4	14
18	Switchable Nanochannel Biosensor for H <sub>2</sub> S Detection Based on an Azide Reduction Reaction Controlled BSA Aggregation. <i>Analytical Chemistry</i> , 2019, 91, 6149-6154.	6.5	45

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19	LD pumped quasi-three-level 928-nm laser with Nd:Gd <sub>0.69</sub> Y <sub>0.3</sub> TaO <sub>4</sub> mixed crystal. Optics and Laser Technology, 2019, 111, 222-226.	4.6	0
20	Blood species identification based on deep learning analysis of Raman spectra. Biomedical Optics Express, 2019, 10, 6129.	2.9	24
21	Fourier based partial least squares algorithm: new insight into influence of spectral shift in frequency domain. Optics Express, 2019, 27, 2926.	3.4	9
22	Active Q-switching operation of slab Ho:SYSO laser wing-pumped by fiber coupled laser diodes. Optics Express, 2019, 27, 11455.	3.4	20
23	926-nm laser operation in Nd:GdNbO <sub>4</sub> crystal based on 4F <sub>3/2</sub> - <sup>4</sup> I <sub>9/2</sub> transition. Optics and Laser Technology, 2018, 101, 515-519.	4.6	5
24	Vitamin D levels correlate with lymphocyte subsets in elderly patients with age-related diseases. Scientific Reports, 2018, 8, 7708.	3.3	19
25	Error analysis of the spectral shift for partial least squares models in Raman spectroscopy. Optics Express, 2018, 26, 8016.	3.4	13
26	Continuous-wave and pulsed 1,066-nm Nd:Gd <sub>0.69</sub> Y <sub>0.3</sub> TaO <sub>4</sub> laser directly pumped by a 879-nm laser diode. Optics Express, 2018, 26, 15705.	3.4	11
27	Investigation on 1344-nm laser performance with Nd:Gd <sub>0.69</sub> Y <sub>0.3</sub> TaO <sub>4</sub> and Nd:Gd <sub>0.68</sub> Y <sub>0.3</sub> NbO <sub>4</sub> mixed crystals. Optics Express, 2018, 26, 15785.	3.4	6
28	LD pumped 1347-nm laser with a novel Nd:GdNbO <sub>4</sub> crystal. Infrared Physics and Technology, 2018, 94, 32-37.	2.9	3
29	Quasi-three-level Nd:GdY <sub>0.3</sub> NbO <sub>4</sub> 927-nm laser under 879-nm laser diode pumping. Laser Physics, 2018, 28, 085803.	1.2	0
30	Dual-model analysis for improving the discrimination performance of human and nonhuman blood based on Raman spectroscopy. Biomedical Optics Express, 2018, 9, 3512.	2.9	13
31	LD pumped Nd:GdNbO <sub>4</sub> crystal laser operating at 926 nm. , 2018, , .		0
32	Discrimination of Human and Nonhuman Blood by Raman Spectroscopy and Partial Least Squares Discriminant Analysis. Analytical Letters, 2017, 50, 379-388.	1.8	34
33	Continuous-wave yellow laser generation at 578 nm by intracavity sum-frequency mixing of thin disk Yb:YAG laser and Nd:YAG laser. Optics and Laser Technology, 2017, 92, 32-35.	4.6	11
34	Spectral Range Optimization to Enhance the Effectiveness of Phototherapy for Neonatal Hyperbilirubinemia. Journal of Applied Spectroscopy, 2017, 84, 92-102.	0.7	2
35	Continuous-wave and passively Q-switched Nd:GYTO <sub>4</sub> laser. Laser Physics Letters, 2017, 14, 095802.	1.4	12
36	Diode pumped Dy:YAG yellow laser. , 2017, , .		1

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37	Long distance, distributed gas sensing based on micro-nano fiber evanescent wave quartz-enhanced photoacoustic spectroscopy. Applied Physics Letters, 2017, 111, .	3.3	44
38	Discrimination of human and nonhuman blood using Raman spectroscopy with self-reference algorithm. Journal of Biomedical Optics, 2017, 22, 1.	2.6	10
39	Generation of a 578-nm Yellow Laser by the Use of Sum-Frequency Mixing in a Branched Cavity. IEEE Photonics Journal, 2016, 8, 1-7.	2.0	3
40	LD pumped passively Q-switched ceramic Nd:YAG 946Ånm laser with a high peak power output. Optical and Quantum Electronics, 2016, 48, 1.	3.3	3
41	Continuous-wave and passively Q-switched 1.061¼m ceramic Nd:YAG laser. Optics and Laser Technology, 2016, 81, 46-49.	4.6	17
42	Modeling and optimization of actively Q-switched Nd:GdVO4 912 nm laser. Optik, 2015, 126, 1282-1286.	2.9	1
43	Continuous-wave yellow-green laser at 056Ånm based on frequency doubling of a diode-end-pumped ceramic Nd:YAG laser. Applied Optics, 2015, 54, 5817.	2.1	16
44	All-Solid-State Continuous-wave Yellow-Green Ceramic Laser at 0.56 ¼m. , 2015, , .		0
45	All-Solid-State Efficient CW Yellow Laser under Direct Diode-Pumping. , 2014, , .		0
46	High-power, high-repetition-rate actively Q-switched 916nm laser and the frequency doubled pulsed 458nm blue laser. Optics and Laser Technology, 2014, 58, 161-165.	4.6	1
47	Diode-pumped passively Q-switched 916nm laser with a Cr <sup>4+</sup> :YAG saturable absorber. Optics Communications, 2014, 313, 401-405.	2.1	1
48	High-power continuous-wave yellow-green laser at 558nm under in-band pumping. Optics Communications, 2014, 319, 110-112.	2.1	10
49	Study of the thermal effect in Nd:GdVO4 912 nm CW laser. Journal of Russian Laser Research, 2013, 34, 114-119.	0.6	3
50	Improvement of the Performance of an Acousto-Optical Q-Switched Nd:YAG 946Ånm Laser Using a Convex-Plane Cavity. Journal of Russian Laser Research, 2013, 34, 586-592.	0.6	0
51	Research on the optical system of neonatal jaundice phototherapy apparatus based on fly-eye lens. , 2013, , .		2
52	Modeling and optimization of actively Q-switched Nd-doped quasi-three-level laser. Optics Communications, 2013, 305, 276-281.	2.1	2
53	Highly efficient continuous-wave composite Nd:YAG laser at 1,112Ånm under diode pumping directly into the emitting level. Applied Physics B: Lasers and Optics, 2013, 111, 407-413.	2.2	10
54	High-efficiency Nd:LuVO <sub>4</sub> quasi-three-level 916Ånm laser under polarized pumping. Applied Optics, 2013, 52, 4020.	1.8	1

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55	All-solid-state continuous-wave yellow laser at 561 nm under in-band pumping. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2013, 30, 95.	2.1	26
56	Efficient continuous-wave 1112 nm Nd:YAG laser operation under direct diode pumping at 885 nm. <i>Laser Physics Letters</i> , 2013, 10, 015802.	1.4	12
57	Quasi-three-level neodymium vanadate laser operation under polarized diode pumping: theoretical and experimental investigation. <i>Laser Physics</i> , 2012, 22, 1279-1285.	1.2	2
58	Diode-pumped short pulse passively Q-switched 912 nm Nd:GdVO <sub>4</sub> /Cr:YAG laser at high repetition rate operation. <i>Laser Physics</i> , 2010, 20, 1275-1278.	1.2	15
59	Quasi-three-level Nd:YVO <sub>4</sub> laser operation at 914 nm under 879 nm diode laser pumping. <i>Laser Physics</i> , 2010, 20, 1590-1593.	1.2	22
60	Diode-laser-pumped high efficiency continuous-wave operation at 912 nm laser in Nd:GdVO <sub>4</sub> crystal. <i>Laser Physics Letters</i> , 2009, 6, 34-37.	1.4	32
61	Upconversion spectra of Nd:GdVO <sub>4</sub> crystal under CW 808 nm diode-laser pumping. <i>Laser Physics Letters</i> , 2009, 6, 125-128.	1.4	28
62	Effects of energy-transfer up-conversion and excited-state absorption in quasi-three-level Nd:GdVO <sub>4</sub> lasers. <i>Journal of Russian Laser Research</i> , 2009, 30, 376-383.	0.6	7
63	Improvement of diode-end-pumped 912 nm Nd:GdVO <sub>4</sub> laser performance based on microchannel heat sink. <i>Journal of Russian Laser Research</i> , 2009, 30, 327-337.	0.6	9
64	456-nm deep-blue laser generation by intracavity frequency doubling of Nd:GdVO <sub>4</sub> under 879-nm diode pumping. <i>Laser Physics</i> , 2009, 19, 111-114.	1.2	106
65	8.9-W continuous-wave, diode-end-pumped all-solid-state Nd:YVO <sub>4</sub> laser operating at 914 nm. <i>Laser Physics</i> , 2009, 19, 389-391.	1.2	25
66	The influence of energy transfer upconversion on thermal loading in end-pumped Nd:GdVO <sub>4</sub> laser. <i>Laser Physics</i> , 2009, 19, 1969-1973.	1.2	8
67	120-W continuous-wave diode-end-pumped Nd:GdVO <sub>4</sub> laser with high brightness operating at 912-nm. <i>Optics Express</i> , 2009, 17, 3574.	3.4	69
68	Comparison on performance of acousto-optically Q-switched Nd:GdVO <sub>4</sub> and Nd:YVO <sub>4</sub> lasers at high repetition rates under direct diode pumping of the emitting level. <i>Optics Express</i> , 2009, 17, 9468.	3.4	18
69	Laser operation at high repetition rate of 100 kHz in Nd:GdVO <sub>4</sub> under 879 nm diode-laser pumping. <i>Applied Physics B: Lasers and Optics</i> , 2008, 92, 199-202.	2.2	15
70	Laser operation of LD end-pumped grown-together Nd:YVO <sub>4</sub> /YVO <sub>4</sub> composite crystal. <i>Laser Physics Letters</i> , 2008, 5, 429-432.	1.4	39
71	Diode-end-pumped acousto-optically Q-switched 914 nm laser and the pulsed blue light generation by intracavity frequency doubling. <i>Laser Physics Letters</i> , 2008, 5, 433-436.	1.4	54
72	Pulsed 456 nm deep blue light generation by acoustooptical Q-switching and intracavity frequency doubling of Nd:GdVO <sub>4</sub> . <i>Laser Physics Letters</i> , 2008, 5, 577-581.	1.4	84

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73	Efficient generation of 914 nm laser with high beam quality in Nd:YVO <sub>4</sub> crystal pumped by $\epsilon$ -polarized 808 nm diode-laser. Laser Physics Letters, 2008, 5, 655-658.	1.4	29
74	Quasi-three-level Nd:GdVO <sub>4</sub> laser under diode pumping directly into the emitting level. Laser Physics Letters, 2008, 5, 797-799.	1.4	33
75	Room temperature efficient continuous wave and Q-switched Ho:YAG laser double-pass pumped by a diode-pumped Tm:YLF laser. Laser Physics Letters, 2008, 5, 800-803.	1.4	56
76	Improvement in the laser performances of an A-O Q-switched Nd:GdVO <sub>4</sub> laser by direct-diode pumping into the emitting level. Laser Physics, 2008, 18, 831-834.	1.2	10
77	Improved performance of acoustooptically Q-switched Nd:GdVO <sub>4</sub> laser by using the planoconvex cavity. Laser Physics, 2008, 18, 1505-1507.	1.2	22
78	High Power Continuous-Wave and Acousto-Optic Q-Switched Nd:GdVO <sub>4</sub> Laser Operated at 912 nm. Chinese Physics Letters, 2008, 25, 119-121.	3.3	6