

# Arkady Major

## List of Publications by Year in descending order

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71  
papers

1,996  
citations

126907

33  
h-index

233421

45  
g-index

72  
all docs

72  
docs citations

72  
times ranked

621  
citing authors

#	ARTICLE	IF	CITATIONS
1	Dispersion of the nonlinear refractive index in sapphire. Optics Letters, 2004, 29, 602.	3.3	94
2	Powerful 67 fs Kerr-lens mode-locked prismless Yb:KGW oscillator. Optics Express, 2013, 21, 31846.	3.4	69
3	Megawatt peak power level sub-100 fs Yb:KGW oscillators. Optics Express, 2014, 22, 30425.	3.4	67
4	Diode-pumped 45 fs Yb:CALGO laser oscillator with 17 W of peak power. Optics Letters, 2018, 43, 23243.	3.4	65
5	Femtosecond Kerr-lens mode-locked Alexandrite laser. Optics Express, 2016, 24, 14836.	3.4	63
6	High-power continuous-wave dual-wavelength operation of a diode-pumped Yb:KGW laser. Optics Letters, 2016, 41, 1601.	3.3	61
7	Thermal lensing in Nd:YVO <sub>4</sub> laser with in-band pumping at 914 nm. Applied Physics B: Lasers and Optics, 2016, 122, 1.	2.2	61
8	Polarization anisotropy of thermal lens in Yb:KY(WO <sub>4</sub> ) <sub>2</sub> laser crystal under high-power diode pumping. Applied Optics, 2017, 56, 2937.	2.1	61
9	Efficient frequency doubling of a femtosecond Yb:KGW laser in a BiB <sub>3</sub> O <sub>6</sub> crystal. Optics Express, 2009, 17, 12039.	3.4	58
10	High efficiency passively mode-locked Nd:YVO <sub>4</sub> laser with direct in-band pumping at 914 nm. Optics Express, 2016, 24, 12851.	3.4	58
11	High-power diode-pumped Kerr-lens mode-locked bulk Yb:KGW laser. Applied Optics, 2017, 56, 8838.	1.8	58
12	Femtosecond Yb:KGd(WO <sub>4</sub> ) <sub>2</sub> laser oscillator pumped by a high power fiber-coupled diode laser module. Optics Express, 2006, 14, 12163.	3.4	57
13	Microchip Yb:CaLnAlO <sub>4</sub> lasers with up to 91% slope efficiency. Optics Letters, 2017, 42, 2431.	3.3	57
14	High power continuous-wave dual-wavelength alexandrite laser. Laser Physics Letters, 2017, 14, 105001.	1.4	56
15	High peak power ultrafast Yb:CaF <sub>2</sub> oscillator pumped by a single-mode fiber-coupled laser diode. Optics Express, 2017, 25, 26289.	3.4	54
16	Multiwatt continuous wave Nd:KGW laser with hot-band diode pumping. Optics Letters, 2016, 41, 3810.	3.3	53
17	A discretely tunable dual-wavelength multi-watt Yb:CALGO laser. Applied Physics B: Lasers and Optics, 2018, 124, 1.	2.2	53
18	Efficient Raman shifting of high-energy picosecond pulses into the eye-safe 15- $\mu$ m spectral region by use of a KGd(WO <sub>4</sub> ) <sub>2</sub> crystal. Optics Letters, 2005, 30, 421.	3.3	52

#	ARTICLE	IF	CITATIONS
19	Dynamic characterization of intracavity losses in broadband quasi-three-level lasers. Optics Express, 2014, 22, 26651.	3.4	52
20	Orthogonally polarized dual-wavelength Yb:KGW laser induced by thermal lensing. Applied Physics B: Lasers and Optics, 2016, 122, 1.	2.2	52
21	Differential microscopy for fluorescence-detected nonlinear absorption linear anisotropy based on a staggered two-beam femtosecond Yb:KGW oscillator. Biomedical Optics Express, 2010, 1, 895.	2.9	50
22	High power continuous-wave Alexandrite laser with green pump. Laser Physics, 2016, 26, 075001.	1.2	50
23	Diode-pumped Nd:YVO <sub>4</sub> laser with discrete multi-wavelength tunability and high efficiency. Optics Letters, 2017, 42, 1149.	3.3	50
24	Dual-wavelength operation of a diode-pumped Nd:YVO <sub>4</sub> laser at the 1064.1 & 1073.1 nm and 1064.1 & 1085.3 nm wavelength pairs. Applied Physics B: Lasers and Optics, 2018, 124, 1.	2.2	50
25	An extended cavity diode-pumped femtosecond Yb:KGW laser for applications in optical DNA sensor technology based on fluorescence lifetime measurements. Optics Express, 2006, 14, 5285.	3.4	49
26	High power and beam quality continuous-wave Nd:GdVO <sub>4</sub> laser in-band diode-pumped at 912 nm. Photonics Research, 2017, 5, 346.	7.0	49
27	Femtosecond Alexandrite laser passively mode-locked by an InP/InGaP quantum-dot saturable absorber. Optics Letters, 2018, 43, 232.	3.3	48
28	Intermyofibril dynamics of myocytes revealed by second harmonic generation microscopy. Journal of Biomedical Optics, 2008, 13, 041318.	2.6	47
29	Thermal lensing in Nd:GdVO <sub>4</sub> laser with direct in-band pumping at 912 nm. Applied Physics B: Lasers and Optics, 2018, 124, 1.	2.2	47
30	Sellmeier equations, group velocity dispersion, and thermo-optic dispersion formulas for CaLnAlO <sub>4</sub> (Ln = Y, Gd) laser host crystals. Optics Letters, 2017, 42, 2275.	3.3	45
31	Discretely selectable multiwavelength operation of a semiconductor saturable absorber mirror mode-locked Nd:YVO <sub>4</sub> laser. Optics Letters, 2017, 42, 3331.	3.3	43
32	Discrete multi-wavelength tuning of a continuous wave diode-pumped Nd:GdVO <sub>4</sub> laser. Laser Physics Letters, 2018, 15, 055002.	1.4	41
33	Continuous-wave dual-wavelength operation of a diode-pumped Nd:GdVO <sub>4</sub> laser at the 1063 & 1071 nm, 1063 & 1083 nm and 1083 & 1086 nm wavelength pairs. Laser Physics, 2018, 28, 095001.	1.2	40
34	Dispersive properties of alexandrite and beryllium hexaaluminate crystals. Optical Materials Express, 2016, 6, 2177.	3.0	30
35	Passively mode-locked high power Nd:GdVO <sub>4</sub> laser with direct in-band pumping at 912 nm. Laser Physics Letters, 2018, 15, 015001.	1.4	29
36	Development of diode-pumped high average power continuous-wave and ultrashort pulse Yb:KGW lasers for nonlinear microscopy. , 2006, , .		25

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37	Ultrafast Yb:KGd(WO <sub>4</sub> ) <sub>2</sub> laser for multimodal biomedical imaging with reduced photodamage. Proceedings of SPIE, 2008, , .	0.8	19
38	Efficient continuous-wave Nd:YLF laser in-band diode-pumped at 908 nm and its thermal lensing. Laser Physics Letters, 2019, 16, 125002.	1.4	14
39	Fractal dimension and directional analysis of elastic and collagen fiber arrangement in unsectioned arterial tissues affected by atherosclerosis and aging. Journal of Applied Physiology, 2019, 126, 638-646.	2.5	14
40	Dispersion and anisotropy of thermo-optical properties of Alexandrite laser crystal. Optical Materials Express, 2018, 8, 3000.	3.0	12
41	Continuous-wave dual-wavelength operation of the in-band diode-pumped Nd:GdVO <sub>4</sub> /Nd:YVO <sub>4</sub> composite laser with controllable spectral power ratio. Applied Physics B: Lasers and Optics, 2020, 126, 1.	2.2	12
42	Nonlinear optical microscopy in decoding arterial diseases. Biophysical Reviews, 2012, 4, 323-334.	3.2	10
43	Wide spectral range third-order autocorrelator based on ultrafast nonresonant nonlinear refraction. Optics Letters, 2004, 29, 1945.	3.3	7
44	Coherent two-photon absorption spectroscopy of the Raman-active KGd(WO <sub>4</sub> ) <sub>2</sub> crystal. Optics Letters, 2004, 29, 2896.	3.3	5
45	Highly-efficient multi-watt Yb:CaLnAlO <sub>4</sub> microchip lasers. , 2017, , .		2
46	High power Nd:YVO-KGW conical refraction laser. , 2019, , .		2
47	Development of a high power femtosecond optical parametric oscillator for biomedical imaging applications. Proceedings of SPIE, 2008, , .	0.8	1
48	Thermo-optical properties of Alexandrite laser crystal. , 2018, , .		1
49	Low repetition rate operation of a femtosecond Yb:CALGO laser. , 2018, , .		1
50	Dual-wavelength Yb:YAP laser with tunable wavelength separation. , 2022, , .		1
51	Kerr-lens mode locking of a high-power diode-pumped Yb:KGW laser. Proceedings of SPIE, 2017, , .	0.8	0
52	SESAM-assisted Kerr-lens mode-locked Yb:CaF <sub>2</sub> oscillator pumped by a single-mode fiber-coupled laser diode. , 2017, , .		0
53	Ultrafast laser source for nonlinear imaging and spectroscopy with high energy sub-100 fs pulses. , 2021, , .		0
54	Passively mode-locked Nd:YVO <sub>4</sub> laser operating at 1073 nm and 1085 nm. , 2018, , .		0

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55	InP/InGaP quantum-dot SESAM mode-locked Alexandrite laser. , 2018, , .		0
56	Dual-wavelength Yb:CALGO laser with 1.31 THz frequency offset. , 2018, , .		0
57	Dual-wavelength Nd:CaLnAlO <sub>4</sub> lasers at 1.365 and 1.390 Åµm. , 2018, , .		0
58	Dual-wavelength operation of a continuous-wave Alexandrite laser. , 2018, , .		0
59	Optimized birefringent filter design for multi-wavelength operation of Yb-ion lasers. , 2018, , .		0
60	Continuous-wave Nd:YLF laser diode-pumped at 908 nm. , 2019, , .		0
61	Laser operation of Nd <sup>3+</sup> -doped silicates (Gd,Y) <sub>2</sub> SiO <sub>5</sub> , (Lu,Y) <sub>2</sub> SiO <sub>5</sub> and Lu <sub>2</sub> SiO <sub>5</sub> at ~1.36 Åµm. , 2019, , .		0
62	Conical refraction lasing in a Nd:YVO <sub>4</sub> laser with a conerefringent KGW element. , 2019, , .		0
63	Intracavity loss measurement in a diode-pumped Yb:CALGO laser. , 2019, , .		0
64	Thermal lensing in Nd:GdVO <sub>4</sub> laser with 912 nm diode pumping. , 2019, , .		0
65	Comparative studies of high power diode-pumped Yb:CALGO and Yb:KYW lasers. , 2019, , .		0
66	Continuous-wave Yb:YAP laser with high power diode pumping. , 2019, , .		0
67	Dual-wavelength Nd:CALGO laser based on an intracavity birefringent filter. , 2019, , .		0
68	Development of a diode-pumped high-power continuous-wave Yb:LLF laser. , 2022, , .		0
69	Compact continuous-wave Nd:YAG laser operating at 946 nm with improved beam quality. , 2022, , .		0
70	Low repetition rate mode-locked Yb:CALGO laser with a White cell configuration and sub-100 fs pulses. , 2022, , .		0
71	Development of a continuous-wave Nd:YAP laser with low quantum defect pumping at 910 nm. , 2022, , .		0