

Jan K Jabczynski

List of Publications by Year in descending order

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92
papers

300
citations

932766

10
h-index

887659

17
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92
all docs

92
docs citations

92
times ranked

205
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Segmented vortex wavefront coherent beam combining. AIP Advances, 2022, 12, . | 0.6 | 0 |
| 2 | Simplified sensitivity analysis of coherent beam combining in a tiled aperture architecture. Applied Optics, 2021, 60, 5012. | 0.9 | 6 |
| 3 | Impact of atmospheric turbulence on coherent beam combining for laser weapon systems. Defence Technology, 2021, 17, 1160-1167. | 2.1 | 18 |
| 4 | Vortex Coherent Beam Combining. , 2021, , . | | 0 |
| 5 | Characterization of Absorption Losses and Transient Thermo-Optic Effects in a High-Power Laser System. Photonics, 2020, 7, 94. | 0.9 | 1 |
| 6 | Analysis of the caustics of partially coherently combined truncated Gaussian beams. Applied Optics, 2020, 59, 3340. | 0.9 | 8 |
| 7 | Propagation of coherently combined beams in turbulent atmosphere: analytical approach. , 2020, , . | | 0 |
| 8 | Investigations of transient thermal optics effects in 10kW fiber laser effector. , 2020, , . | | 0 |
| 9 | Tolerance Analysis for Piston and Tilt Error in Hexagonal Laser Phased Array. , 2019, , . | | 0 |
| 10 | Effect of beam profile and partial coherence on coherent beam combining performance. Optics Communications, 2019, 442, 40-45. | 1.0 | 15 |
| 11 | Influence of beam shape on piston and tilt error in coherent combined laser array. Optical Engineering, 2019, 58, 1. | 0.5 | 3 |
| 12 | Characterization of beam quality of 10-kW class laser. , 2019, , . | | 1 |
| 13 | Beam quality characterization of 10-kW CW fiber laser effector. , 2019, , . | | 0 |
| 14 | Model of partially coherent combining and propagation of 2D array of laser beams. , 2018, , . | | 0 |
| 15 | Modeling of the laser beam shape for high-power applications. Optical Engineering, 2018, 57, 1. | 0.5 | 4 |
| 16 | Analysis of partially coherent combining of 2D arrays of laser beams. , 2018, , . | | 1 |
| 17 | Tolerance analysis of coherent combining optical system. , 2018, , . | | 1 |
| 18 | Development of laser technology in Poland: 2018. , 2018, , . | | 0 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 19 | High-peak power, athermal Nd:YAG transmitter. , 2017, , . | | 1 |
| 20 | Analysis of optical scheme for medium-range directed energy laser weapon system. , 2017, , . | | 0 |
| 21 | Development of laser technology in Poland: 2016. , 2016, , . | | 2 |
| 22 | Investigative study of a diode-pumped continuous-wave Tm:YAP laser as an efficient 1.94 μ m pump source. , 2016, , . | | 1 |
| 23 | Analysis of pumping schemes for high brightness diode-side-pumped lasers. , 2016, , . | | 0 |
| 24 | Diode-side-pumped, passively Q-switched Yb:LuAG laser. Optics and Laser Technology, 2015, 73, 101-104. | 2.2 | 4 |
| 25 | An efficient continuous-wave and Q-switched single-pass two-stage Ho:YLF MOPA system. Optics and Laser Technology, 2015, 67, 93-97. | 2.2 | 13 |
| 26 | Near-diffraction-limited, high peak power, electro-optically Q-switched, diode-side-pumped Nd:YVO4 grazing-incidence oscillator. Optics and Laser Technology, 2015, 65, 50-55. | 2.2 | 1 |
| 27 | Optimization of diode-side-pumped, passively Q-switched Yb:LuAG slab laser. , 2015, , . | | 0 |
| 28 | Low threshold polycrystalline Cr:ZnSe laser gain-switched in high inversion regime. , 2014, , . | | 0 |
| 29 | Diode-pumped, actively Q-switched Nd:YAG laser with self-adaptive, reciprocal, closed-loop resonator. Optics Express, 2014, 22, 30657. | 1.7 | 6 |
| 30 | Self-adaptive, passively Q-switched, diode-side-pumped Nd:YAG slab laser. Proceedings of SPIE, 2014, , . | 0.8 | 0 |
| 31 | Diode pumped Yb-lasers Q-switched by V:YAG saturable absorber. Proceedings of SPIE, 2014, , . | 0.8 | 0 |
| 32 | Polycrystalline Cr:ZnSe laser pumped by efficient Tm:YLF laser. Proceedings of SPIE, 2014, , . | 0.8 | 0 |
| 33 | Diffraction-limited, grazing-incidence Nd:YVO4slab laser side pumped by 2D laser diode stack. , 2014, , . | | 0 |
| 34 | Design and characterization of beam shapers for end-pumped lasers. , 2014, , . | | 0 |
| 35 | Ultra low threshold gain-switched Cr:ZnSe laser. , 2014, , . | | 0 |
| 36 | Continuous-wave and high repetition rate Q-switched operation of Ho:YLF laser in-band pumped by a linearly polarized Tm:fiber laser. Optics and Laser Technology, 2014, 63, 66-69. | 2.2 | 11 |

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| 37 | Resonantly pumped, Q-switched Ho:YLF laser with output energy of 5 mJ at 1 kHz. Photonics Letters of Poland, 2014, 6, . | 0.2 | 0 |
| 38 | Polycrystalline Cr ²⁺ :ZnSe Laser Pumped by Efficient Tm:YLF Oscillator. , 2013, , . | | 0 |
| 39 | The investigation of transient thermal effects in optical elements under high laser intensities. Proceedings of SPIE, 2012, , . | 0.8 | 0 |
| 40 | A highly efficient resonantly pumped Ho:YAG laser. Proceedings of SPIE, 2012, , . | 0.8 | 1 |
| 41 | Analysis on non-stationary thermo-optical effects occurring in laser mirrors under high heat load. , 2012, , . | | 0 |
| 42 | Optimization of end-pumped, actively Q-switched quasi-III-level lasers. Optics Express, 2011, 19, 15652. | 1.7 | 11 |
| 43 | Analysis of thermo-optic effects in Nd:YAG ceramics disk under high heat load. Proceedings of SPIE, 2011, , . | 0.8 | 0 |
| 44 | Technology and characterization of Nd:YAG ceramics. AIP Conference Proceedings, 2010, , . | 0.3 | 0 |
| 45 | High peak power Nd:YAG laser pumped by 600-W diode laser stack. Optics and Laser Technology, 2008, 40, 441-444. | 2.2 | 11 |
| 46 | Comparison of tunable lasers based on diode pumped Tm-doped crystals. Proceedings of SPIE, 2008, , . | 0.8 | 4 |
| 47 | Efficient, high peak power, Q-switched, tunable diode pumped Tm:YLF laser. , 2008, , . | | 1 |
| 48 | Ytterbium doped phosphate glass air-clad photonic crystal fiber for laser applications. Proceedings of SPIE, 2008, , . | 0.8 | 0 |
| 49 | High repetition rate, acousto-optic Q-switched, diode pumped Tm:YLF laser. , 2008, , . | | 0 |
| 50 | The investigations of tunable, high peak power, diode pumped Tm:YLF laser. , 2008, , . | | 1 |
| 51 | Optical and laser characterization of 2% Nd:YAG ceramics elements. , 2008, , . | | 0 |
| 52 | 2-mJ picosecond Nd:YAG slab laser passively Q-switched and mode-locked using multiple quantum well saturable absorbers. , 2007, , . | | 0 |
| 53 | Acousto-optic modulation in diode-pumped solid-state lasers. Optical Engineering, 2007, 46, 074202. | 0.5 | 2 |
| 54 | Quasi CW Laser Diode Side Pumped Nd:YAG Slab Laser Passively Mode-locked Using Multiple Quantum Well Saturable Absorbers. , 2007, , . | | 0 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 55 | Q-switched neodymium slab lasers at $1.3\ \mu\text{m}$ wavelength side-pumped by a | 0.5 | 1 |
| 56 | Q-switched mode locking with acousto-optic modulator in a diode-pumped Nd:YVO ₄ laser. Optics Express, 2006, 14, 2184. | 1.7 | 64 |
| 57 | New wavelengths generated by BaWO ₄ or KGW intracavity Raman laser. , 2006, 6100, 377. | | 0 |
| 58 | A highly efficient pulsed Nd:YVO ₄ laser pumped by two high-power diode lasers. , 2006, 6599, 68. | | 0 |
| 59 | Acousto-optic modulation in diode pumped solid state lasers. , 2006, , . | | 4 |
| 60 | High power single- and double-frequency, tunable mini-laser with nano-film selector for onboard applications. , 2006, 6243, 197. | | 0 |
| 61 | High-peak-power intracavity OPO transmitter at 1572 nm. , 2006, 6216, 237. | | 0 |
| 62 | Side-pumped neodymium slab lasers Q-switched by V:YAG on $1.3\ \mu\text{m}$. , 2006, 6100, 444. | | 0 |
| 63 | Nd:YAG slab laser side pumped by 600-W diode laser stack. , 2006, , . | | 2 |
| 64 | Acousto-Optic Q-Switching and Mode Locking in Diode Pumped Nd:YVO ₄ Laser. , 2006, , . | | 0 |
| 65 | Intracavity optical parametric oscillator pumped by acousto-optically Q-switched Nd:YVO ₄ laser. , 2005, , . | | 1 |
| 66 | Diode pumped cw mode locked Nd:YVO ₄ laser. , 2005, , . | | 0 |
| 67 | Application of Wigner transform for characterization of aberrated laser beams. , 2005, , . | | 0 |
| 68 | Characterization of thermo-optic effects in diode end pumped lasers. , 2005, , . | | 0 |
| 69 | Intracavity pumped gain-switched broadband LiF:F ²⁺ - laser. , 2005, , . | | 0 |
| 70 | Comparison of diode-side-pumped triangular Nd:YAG and Nd:YAP laser. , 2005, , . | | 6 |
| 71 | Investigations of Q-switching and mode locking in diode-pumped Nd:YVO ₄ laser with passive saturable absorbers. , 2005, , . | | 0 |
| 72 | Diode pumped Q-switched and mode locked lasers. , 2005, 5958, 22. | | 0 |

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|----|---|-----|-----------|
| 73 | <title>Characterization of thermo-optic effects in diode pumped solid state lasers</title>. , 2005, , . | | 0 |
| 74 | Highly efficient, intracavity-pumped KTP OPO at 1572 nm. , 2005, , . | | 0 |
| 75 | Modeling of beam width in passively Q-switched end-pumped lasers. Optics Express, 2003, 11, 552. | 1.7 | 12 |
| 76 | Passively Q-switched diode-pumped Nd:YAG laser with intracavity optical parametric oscillator. , 2003, , . | | 0 |
| 77 | Diode-pumped passively Q-switched nanosecond Raman laser on BaWO 4 crystal converter. , 2003, 5036, 582. | | 2 |
| 78 | Optical characterization of diode side pumped active elements. , 2003, , . | | 1 |
| 79 | Passively mode-locked Q-switched Nd:YAP 1.34-um/1.08-um laser with efficient hollow-waveguide radiation delivery. , 2002, , . | | 0 |
| 80 | Efficient diode-pumped passively Q-switched Raman laser on barium tungstate crystal. Optics Communications, 2002, 209, 403-409. | 1.0 | 39 |
| 81 | Chromium-doped LiCAF laser passively Q switched with a V ³⁺ :YAG crystal. Applied Optics, 2001, 40, 6638. | 2.1 | 22 |
| 82 | Modeling of diode pumped laser with pump dependent diffraction loss. Optics Communications, 2000, 182, 413-422. | 1.0 | 12 |
| 83 | Single-frequency generation in Nd:crystals diode-pumped lasers. , 1998, 3320, 274. | | 0 |
| 84 | Propagation of aberrated Gaussian beams. , 1998, , . | | 1 |
| 85 | <title>Pulsed diode-pumped solid state lasers</title>. , 1997, 3186, 284. | | 0 |
| 86 | <title>Influence of active media parameters on generation characteristics of microlasers</title>. , 1997, , . | | 0 |
| 87 | <title>Formation of diode end-pumped laser beams</title>. , 1997, 3186, 296. | | 0 |
| 88 | Tunable single-frequency diode-pumped neodymium lasers with metallic thin film selectors. , 1997, , . | | 0 |
| 89 | Minimum averaged area of asymmetric multimode pumping beam. Optics Communications, 1997, 140, 1-5. | 1.0 | 5 |
| 90 | <title>Thermally induced GRIN effects in diode-pumped lasers</title>. , 1996, , . | | 0 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 91 | <title>Quasi-geometrical approach in laser diode optics problems</title>. , 1995, , . | | 0 |
| 92 | An Analytical Model Of Focal Region Of Conical , Annular Beam -2 - D And 3 - D Cases.. Proceedings of SPIE, 1990, 1121, 624. | 0.8 | 0 |