

Anatolii Kirpichnikov

List of Publications by Year in descending order

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Version: 2024-02-01

40
papers

202
citations

1163117

8
h-index

1125743

13
g-index

40
all docs

40
docs citations

40
times ranked

103
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Formation of luminescent emitters by intense laser radiation in transparent media. Quantum Electronics, 2013, 43, 463-466. | 1.0 | 39 |
| 2 | Two-photon absorption in undoped LiTaO3 crystals. Optical Materials, 2018, 78, 253-258. | 3.6 | 27 |
| 3 | Highly nonlinear fundamental mechanisms of excitation and coloring of wide-gap crystals by intense femtosecond laser pulses. Optics and Spectroscopy (English Translation of Optika i Spektroskopiya), 2008, 105, 348-351. | 0.6 | 14 |
| 4 | Formation of color centers and light scattering structures by femtosecond laser pulses in sodium fluoride. Optics Communications, 2014, 330, 56-60. | 2.1 | 14 |
| 5 | Contactless method for studying temperature within the active element of a multidisk cryogenic amplifier. Quantum Electronics, 2019, 49, 358-361. | 1.0 | 14 |
| 6 | Spectral characteristics of radiation emitted by a YAG:Nd3+laser with a saturable absorber in the form of an LiF crystal containing F2+ centers. Soviet Journal of Quantum Electronics, 1981, 11, 685-686. | 0.1 | 11 |
| 7 | Physical properties of BeAl6O10 single crystals. Journal of Applied Physics, 1997, 82, 3661-3666. | 2.5 | 10 |
| 8 | Optimisation of a multi-disk cryogenic amplifier for a high-intensity, high-repetition-rate laser system. Quantum Electronics, 2018, 48, 358-362. | 1.0 | 9 |
| 9 | Modelling of the laser amplification process with allowance for the effect of the temperature distribution in an Yb : YAG gain element on the thermophysical and lasing characteristics of the medium. Quantum Electronics, 2020, 50, 315-320. | 1.0 | 8 |
| 10 | <title>Multilevel kinoform microlens arrays in fused silica for high-power laser optics</title>. , 2004, , . | | 7 |
| 11 | The Multidisk Diode-Pumped High Power Yb:YAG Laser Amplifier of High-Intensity Laser System with 1 kHz Repetition Rate. Journal of Physics: Conference Series, 2018, 999, 012008. | 0.4 | 7 |
| 12 | Stimulated emission from (F2+)Acolor centers in an NaF crystal. Soviet Journal of Quantum Electronics, 1981, 11, 833-834. | 0.1 | 6 |
| 13 | Design of high gain OPCPA for multiterawatt and petawatt class systems on large aperture LBO crystals. , 2010, , . | | 6 |
| 14 | Tunable (0.86â€“1¼) cw room-temperature laser utilizing F2+color centers in an LiF crystal. Soviet Journal of Quantum Electronics, 1980, 10, 648-649. | 0.1 | 5 |
| 15 | Investigation of the spectral characteristics of a pulsedF2-center laser tunable in the range 1.1â€“1.26¼. Soviet Journal of Quantum Electronics, 1979, 9, 1554-1556. | 0.1 | 4 |
| 16 | Ultrarelativistic laser systems based on coherent beam combining. , 2012, , . | | 4 |
| 17 | Spectroscopic and laser properties of BeLaAl 11 O 19 single crystals doped with Cr3+, Ti3+, and Nd3+ions. , 2001, 4350, 68. | | 3 |
| 18 | The modeling of thermal fields in high power multi-disk cryogenic laser amplifier. AIP Conference Proceedings, 2017, , . | 0.4 | 3 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | Modeling of thermal field in active elements with non-uniform concentration distribution of dopant ions. AIP Conference Proceedings, 2019, , . | 0.4 | 3 |
| 20 | <title>Availability of new Yb:YVO ₄ and Yb:Gd _x Y _{1-x} VO ₄ laser crystals for femtosecond laser systems at low temperature</title>. , 2005, , . | | |
| 21 | Thermo-optical properties of beryllium containing oxide crystals as materials for high power laser systems. , 2007, , . | | 2 |
| 22 | <title>Hybrid ytterbium doped active medium for femtosecond lasers</title>. , 2007, , . | | 2 |
| 23 | <title>Hybrid high power femtosecond laser system</title>. , 2006, , . | | 1 |
| 24 | 3D Fluorescent Imaging with Highly Nonlinear Photosensitive Materials. , 2011, , . | | 1 |
| 25 | Infrared cw tunable color center lasers. , 1992, , . | | 0 |
| 26 | Investigation of Kerr-lens mode locking in lasers with composite active media. , 2001, , . | | 0 |
| 27 | <title>Ultrashort mode-locked lasers with additional Raman active elements</title>. , 2002, 4752, 26. | | 0 |
| 28 | Kinoform optical elements in fused silica for high-power laser optics. , 0, , . | | 0 |
| 29 | Femtosecond SESAM lasers with shortlength cavity. , 2003, , . | | 0 |
| 30 | <title>Spectroscopic and laser properties of BeLaAl ₁₁ O ₁₉ crystals doped with Cr ³⁺ and Nd ³⁺ ions</title>. , 2006, 6054, 137. | | 0 |
| 31 | Spatiotemporal reshaping and compression of high intensity femtosecond pulses. , 2007, , . | | 0 |
| 32 | Features of femtosecond laser pulses interaction with laser nanoceramics. Proceedings of SPIE, 2007, , . | 0.8 | 0 |
| 33 | Partially disordered Yb:Gd x Y 1-x VO 4 crystal for femtosecond lasers. , 2007, , . | | 0 |
| 34 | Limiting the intensity of femtosecond pulses with anti-stokes excitation of organic dye solutions. Russian Physics Journal, 2010, 53, 270-275. | 0.4 | 0 |
| 35 | Measurement of thermal lensing in end-pumped Yb-doped yttrium vanadate crystal and sesquioxide laser ceramics. , 2010, , . | | 0 |
| 36 | Influence of femtosecond laser radiation on cells of the transplantable tumour Krebs-2. Quantum Electronics, 2012, 42, 505-508. | 1.0 | 0 |

| # | ARTICLE | IF | CITATIONS |
|----|--|----|-----------|
| 37 | Implementation of multiterawatt femtosecond laser system at kilohertz repetition rate. , 2014, , . | | 0 |
| 38 | The amplification of transform-limited pulses in media with homogeneously broadened line. , 2016, , . | | 0 |
| 39 | Carrier-envelope offset phase control and stabilization of kilohertz solid-state laser system. , 2016, , . | | 0 |
| 40 | Compromise between wavefront distortions and gain in high power laser amplifier. , 2020, , . | | 0 |