# Pavel A Loiko

List of Publications by Year
in descending order



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|---|---|---|---|
| 333 papers | 4,589 citations | 109137 35 h-index | 233125 45 g-index |
| 336 all docs | 336 docs citations | 336 times ranked | 1822 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Diode-pumped microchip Tm:KLu(WO_4)_2 laser with more than 3â€‰â€‰W of output power. Optics Letters, 2014, 39, 4247. | 1.7 | 79 |
| 2 | Thermo-optic characterization of Yb:CaGdAlO_4 laser crystal. Optical Materials Express, 2014, 4, 2241. | 1.6 | 66 |
| 3 | Polarization anisotropy of thermal lens in Yb:KY(WO_4)_2 laser crystal under high-power diode pumping. Applied Optics, 2017, 56, 2937. | 2.1 | 61 |
| 4 | Tm:KLu(WO_4)_2 microchip laser Q-switched by a graphene-based saturable absorber. Optics Express, 2015, 23, 14108. | 1.7 | 59 |
| 5 | SESAM mode-locked Tm:CALGO laser at 2 Âµm. Optical Materials Express, 2016, 6, 131. | 1.6 | 59 |
| 6 | Sub-10 optical-cycle passively mode-locked Tm:(Lu<sub>2/3</sub>Sc<sub>1/3</sub>)<sub>2</sub>O<sub>3</sub> ceramic laser at 2 Âµm. Optics Express, 2018, 26, 10299. | 1.7 | 59 |
| 7 | Sub-100â€‰â€‰fs Tm:MgWO_4 laser at 2017â€‰â€‰nm mode locked by a graphene saturable absorber. Optics Letters, 2017, 42, 3076. | 1.7 | 57 |
| 8 | Microchip Yb:CaLnAlO_4 lasers with up to 91% slope efficiency. Optics Letters, 2017, 42, 2431. | 1.7 | 57 |
| 9 | 87â€‰â€‰fs mode-locked Tm,Ho:CaYAlO<sub>4</sub> laser at â¼2043â€‰â€‰nm. Optics Letters, 2018, 43, 915. | 1.7 | 56 |
| 10 | Thermal-Lens-Driven Effects in $N_{mathrm {g}}$ -Cut Yb-and Tm-Doped Monoclinic KLu(WO4)2 Crystals. IEEE Journal of Quantum Electronics, 2014, 50, 1-8. | 1.0 | 55 |
| 11 | A discretely tunable dual-wavelength multi-watt Yb:CALGO laser. Applied Physics B: Lasers and Optics, 2018, 124, 1. | 1.1 | 53 |
| 12 | Thermo-optic dispersion formulas for monoclinic double tungstates KRe(WO4)2 where Re=Gd, Y, Lu, Yb. Optical Materials, 2011, 33, 1688-1694. | 1.7 | 51 |
| 13 | 78â€‰â€‰fs SWCNT-SA mode-locked Tm:CLNGG disordered garnet crystal laser at 2017â€‰â€‰nm. Optics Letters, 2018, 43, 4268. | 1.7 | 47 |
| 14 | Vibronic thulium laser at 2131â€‰â€‰nm Q-switched by single-walled carbon nanotubes. Journal of the Optical Society of America B: Optical Physics, 2016, 33, D19. | 0.9 | 45 |
| 15 | Passive Q-switching of microchip lasers based on Ho:YAG ceramics. Applied Optics, 2016, 55, 4877. | 2.1 | 45 |
| 16 | Sellmeier equations, group velocity dispersion, and thermo-optic dispersion formulas for CaLnAlO_4 (Ln = Y, Gd) laser host crystals. Optics Letters, 2017, 42, 2275. | 1.7 | 45 |
| 17 | Synthesis, spectroscopy, and efficient laser operation of â€œmixedâ€•sesquioxide Tm:(Lu,Sc)_2O_3 transparent ceramics. Optical Materials Express, 2017, 7, 4192. | 1.6 | 45 |
| 18 | Close look on cubic Tm:KY<sub>3</sub>F<sub>10</sub> crystal for highly efficient lasing on the <sup>3</sup>H<sub>4</sub> â† <sup>3</sup>H<sub>5</sub> transition. Optics Express, 2020, 28, 3451. | 1.7 | 45 |

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|---|---|---|---|
| 19 | Thermal lens study in diode pumped Ng- and Np-cut Nd:KGd(WO_4)_2 laser crystals. Optics Express, 2009, 17, 23536. | 1.7 | 44 |
| 20 | Stochastic Model of Energy-Transfer Processes Among Rare-Earth Ions. Example of Al<sub>2</sub>O<sub>3</sub>:Tm<sup>3+</sup>. Journal of Physical Chemistry C, 2016, 120, 26480-26489. | 1.5 | 44 |
| 21 | MoS_2 saturable absorber for passive Q-switching of Yb and Tm microchip lasers. Optical Materials Express, 2016, 6, 3262. | 1.6 | 43 |
| 22 | Femtosecond-laser-written Tm:KLu(WO_4)_2 waveguide lasers. Optics Letters, 2017, 42, 1169. | 1.7 | 43 |
| 23 | Development of Saturable Absorbers for Laser Passive Qâ€Switching near 1.5 Î¼m Based on Transparent Ceramic Co<sup>2+</sup>:MgAl<sub>2</sub>O<sub>4</sub>. Journal of the American Ceramic Society, 2016, 99, 1324-1331. | 1.9 | 42 |
| 24 | Generation of 84-fs pulses from a mode-locked Tm:CNNGG disordered garnet crystal laser. Photonics Research, 2018, 6, 800. | 3.4 | 42 |
| 25 | Growth, spectroscopic and thermal properties of Nd-doped disordered Ca9(La/Y)(VO4)7 and Ca10(Li/K)(VO4)7crystals. Journal of Luminescence, 2013, 137, 252-258. | 1.5 | 41 |
| 26 | Microchip laser operation of Tm,Ho:KLu(WO_4)_2 crystal. Optics Express, 2014, 22, 27976. | 1.7 | 40 |
| 27 | Thermal Lensing and Multiwatt Microchip Laser Operation of Yb:YCOB Crystals. IEEE Photonics Journal, 2016, 8, 1-12. | 1.0 | 40 |
| 28 | Highly Efficient, Compact Tm3+:RE2O3 (RE = Y, Lu, Sc) Sesquioxide Lasers Based on Thermal Guiding. IEEE Journal of Selected Topics in Quantum Electronics, 2018, 24, 1-13. | 1.9 | 40 |
| 29 | SESAM mode-locked Tm:LuYO<sub>3</sub> ceramic laser generating 54-fs pulses at 2048â€‰â€‰nm. Applied Optics, 2020, 59, 10493. | 0.9 | 40 |
| 30 | Continuous-wave Tm:YAlO<sub>3</sub> laser at âˆ¼23â€‰â€‰Î¼m. Optics Letters, 2019, 44, 5077. | 1.7 | 39 |
| 31 | Synthesis, characterization and absorption saturation of Co:ZnAl2O4 (gahnite) transparent ceramic and glass-ceramics: A comparative study. Journal of Alloys and Compounds, 2017, 725, 998-1005. | 2.8 | 37 |
| 32 | Detailed characterization of thermal expansion tensor in monoclinic KRe(WO4)2 (where Re=Gd, Y, Lu,) Tj ETQq0 0 0 rgBT /Overlock 10 T | 1.7 | 36 |
| 33 | Modelling of graphene Q-switched Tm lasers. Optics Communications, 2017, 389, 15-22. | 1.0 | 36 |
| 34 | Crystal growth, optical spectroscopy and laser action of Tm^3+-doped monoclinic magnesium tungstate. Optics Express, 2017, 25, 3682. | 1.7 | 36 |
| 35 | Efficient Tm:LiYF<sub>4</sub> Lasers at ${sim}2.3~mu$ m: Effect of Energy-Transfer Upconversion. IEEE Journal of Quantum Electronics, 2019, 55, 1-12. | 1.0 | 36 |
| 36 | In-band-pumped Ho:KLu(WO_4)_2 microchip laser with 84% slope efficiency. Optics Letters, 2015, 40, 344. | 1.7 | 35 |

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|---|---|---|---|
| 37 | Spectroscopic and photoluminescence characterization of Eu3+-doped monoclinic KY(WO4)2 crystal. Journal of Luminescence, 2014, 153, 221-226. | 1.5 | 34 |
| 38 | Transparent glassâ€“ceramics with (Eu3+,Yb3+):YNbO4 nanocrystals: Crystallization, structure, optical spectroscopy and cooperative upconversion. Journal of Luminescence, 2016, 179, 64-73. | 1.5 | 34 |
| 39 | Optical properties of novel PbS and PbSe quantum-dot-doped alumino-alkali-silicate glasses. Journal of Non-Crystalline Solids, 2012, 358, 1840-1845. | 1.5 | 33 |
| 40 | Thermo-optic properties of Yb:Lu2O3 single crystals. Applied Physics B: Lasers and Optics, 2015, 120, 601-607. | 1.1 | 33 |
| 41 | Up- and down-conversion emissions from Er3+ doped K2YF5 and K2YbF5 crystals. Journal of Luminescence, 2016, 170, 1-7. | 1.5 | 33 |
| 42 | Spectroscopy of Tb3+ ions in monoclinic KLu(WO4)2 crystal application of an intermediate configuration interaction theory. Optical Materials, 2018, 78, 495-501. | 1.7 | 33 |
| 43 | â€œMixedâ€•Tm:Ca(Gd,Lu)AlO<sub>4</sub> â€” a novel crystal for tunable and mode-locked 2 Âµm lasers. Optics Express, 2019, 27, 9987. | 1.7 | 33 |
| 44 | 14W high-efficiency diode-pumped cw Yb:KGd(WO4)2 laser with low thermo-optic aberrations. Optical Materials, 2013, 35, 582-585. | 1.7 | 32 |
| 45 | Dispersion and anisotropy of thermo-optic coefficients in tetragonal GdVO<sub>4</sub> and YVO<sub>4</sub> laser host crystals. Applied Optics, 2013, 52, 698. | 0.9 | 32 |
| 46 | Watt-level Tm:LiYF<sub>4</sub> channel waveguide laser produced by diamond saw dicing. Optics Express, 2018, 26, 24653. | 1.7 | 32 |
| 47 | 67-fs pulse generation from a mode-locked Tm,Ho:CLNGG laser at 2083 nm. Optics Express, 2019, 27, 1922. | 1.7 | 32 |
| 48 | Subnanosecond Tm:KLuW microchip laser Q-switched by a Cr:ZnS saturable absorber. Optics Letters, 2015, 40, 5220. | 1.7 | 31 |
| 49 | Microchip laser operation of Yb-doped gallium garnets. Optical Materials Express, 2016, 6, 46. | 1.6 | 31 |
| 50 | Comparative spectroscopic and thermo-optic study of Tm:LiLnF_4 (Ln = Y, Gd, and Lu) crystals for highly-efficient microchip lasers at ~2 Î¼m. Optical Materials Express, 2017, 7, 844. | 1.6 | 31 |
| 51 | Dispersive properties of alexandrite and beryllium hexaaluminate crystals. Optical Materials Express, 2016, 6, 2177. | 1.6 | 30 |
| 52 | Cooperative up-conversion in Eu3+,Yb3+-doped SiO2â€“PbOâ€“PbF2â€“CdF2 oxyfluoride glass. Journal of Non-Crystalline Solids, 2014, 392-393, 39-44. | 1.5 | 29 |
| 53 | Prospects of monoclinic Yb:KLu(WO_4)_2 crystal for multi-watt microchip lasers. Optical Materials Express, 2015, 5, 661. | 1.6 | 29 |
| 54 | Sub-nanosecond Yb:KLu(WO_4)_2 microchip laser. Optics Letters, 2016, 41, 2620. | 1.7 | 29 |

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|---|---|---|---|
| 55 | Na Modification of Lanthanide Doped Ca<sub>3</sub>Nb<sub>1.5</sub>Ga<sub>3.5</sub>O<sub>12</sub>-Type Laser Garnets: Czochralski Crystal Growth and Characterization. Crystal Growth and Design, 2016, 16, 1480-1491. | 1.4 | 29 |
| 56 | Sub-80â€‰â€‰fs mode-locked Tm,Ho-codoped disordered garnet crystal oscillator operating at 2081â€‰â€‰nm. Optics Letters, 2018, 43, 5154. | 1.7 | 29 |
| 57 | Thermal lensing and microchip laser performance of N g-cut Tm3+:KY(WO4)2 crystal. Applied Physics B: Lasers and Optics, 2012, 108, 603-607. | 1.1 | 28 |
| 58 | Thermo-optic coefficients and thermal lensing in Nd-doped KGd(WO_4)_2 laser crystals. Applied Optics, 2010, 49, 6651. | 2.1 | 27 |
| 59 | Saturable absorber: transparent glass-ceramics based on a mixture of Co:Î²-Zn_2SiO_4 and Co:ZnO nanocrystals. Applied Optics, 2016, 55, 5505. | 2.1 | 27 |
| 60 | Growth, spectroscopy and laser operation of Ho:KY(WO 4 ) 2. Journal of Luminescence, 2016, 179, 50-58. | 1.5 | 26 |
| 61 | SWCNT-SA mode-locked Tm:LuYO<sub>3</sub> ceramic laser delivering 8-optical-cycle pulses at 2.05â€‰â€‰Âµm. Optics Letters, 2020, 45, 459. | 1.7 | 26 |
| 62 | Thermo-optical properties of pure and Yb-doped monoclinic KY(WO4)2 crystals. Applied Physics B: Lasers and Optics, 2012, 106, 663-668. | 1.1 | 25 |
| 63 | Influence of NiO on phase transformations and optical properties of ZnOâ€“Al2O3â€“SiO2 glass-ceramics nucleated by TiO2 and ZrO2. Part I. Influence of NiO on phase transformations of ZnOâ€“Al2O3â€“SiO2 glass-ceramics nucleated by TiO2 and ZrO2. Journal of Non-Crystalline Solids, 2014, 384, 73-82. | 1.5 | 25 |
| 64 | Structure and nonlinear optical properties of novel transparent glass-ceramics based on Co<sup>2+</sup>:ZnO nanocrystals. Laser Physics Letters, 2016, 13, 055803. | 0.6 | 25 |
| 65 | Structural transformations and spectroscopic properties of Ni-doped magnesium aluminosilicate glass-ceramics nucleated by a mixture of TiO2 and ZrO2 for broadband near-IR light emission. Journal of Alloys and Compounds, 2019, 780, 137-146. | 2.8 | 25 |
| 66 | In-band pumping of Tm:LiYF<sub>4</sub> channel waveguide: a power scaling strategy for âˆ¼2â€‰â€‰Î¼m waveguide lasers. Optics Letters, 2019, 44, 3010. | 1.7 | 25 |
| 67 | Juddâ€“Ofelt analysis and stimulated-emission cross-sections for highly doped (38at%) Er:YSGG laser crystal. Journal of Luminescence, 2016, 171, 226-233. | 1.5 | 24 |
| 68 | Structural transformations and optical properties of glass-ceramics based on ZnO, Î²- and Î±-Zn2SiO4 nanocrystals and doped with Er2O3 and Yb2O3: Part I. The role of heat-treatment. Journal of Luminescence, 2018, 202, 47-56. | 1.5 | 24 |
| 69 | Sb2Te3 thin film for the passive Q-switching of a Tm:GdVO4 laser. Optical Materials Express, 2018, 8, 1723. | 1.6 | 24 |
| 70 | Structured laser beams: toward 2-Î¼m femtosecond laser vortices. Photonics Research, 2021, 9, 357. | 3.4 | 24 |
| 71 | Fluorite-type Tm3+:KY3F10: A promising crystal for watt-level lasers at âˆ¼1.9â€“Î¼m. Journal of Alloys and Compounds, 2020, 813, 152176. | 2.8 | 23 |
| 72 | Highly efficient 2.3â€‰â€‰Âµm thulium lasers based on a high-phonon-energy crystal: evidence of vibronic-assisted emissions. Journal of the Optical Society of America B: Optical Physics, 2021, 38, 482. | 0.9 | 23 |

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|---|---|---|---|
| 73 | Passively Q-switched femtosecond-laser-written thulium waveguide laser based on evanescent field interaction with carbon nanotubes. Photonics Research, 2018, 6, 971. | 3.4 | 23 |
| 74 | Spectroscopic characterization and pulsed laser operation of Eu3+:KGd(WO4)2crystal. Laser Physics, 2013, 23, 105811. | 0.6 | 22 |
| 75 | Influence of NiO on phase transformations and optical properties of ZnOâ€“Al2O3â€“SiO2 glassâ€“ceramics nucleated by TiO2 and ZrO2. Part II. Optical absorption and luminescence. Journal of Non-Crystalline Solids, 2013, 376, 99-105. | 1.5 | 22 |
| 76 | NIR photoluminescence of bismuth-doped CsCdBr3 â€“ The first ternary bromide phase with a univalent bismuth impurity center. Journal of Luminescence, 2015, 167, 371-375. | 1.5 | 22 |
| 77 | Femtosecond-laser-written hexagonal cladding waveguide in Tm:KLu(WO_4)_2: Âµ-Raman study and laser operation. Optical Materials Express, 2017, 7, 4258. | 1.6 | 22 |
| 78 | Watt-level mid-infrared continuous-wave Tm:YAG laser operating on the 3H4 â† 3H5 transition. Optical Materials, 2020, 101, 109745. | 1.7 | 22 |
| 79 | Comparative study of the spectroscopic and laser properties of Tm<sup>3+</sup>, Na<sup>+</sup>(Li<sup>+</sup>)-codoped Ca<sub>3</sub>Nb<sub>15</sub>Ga<sub>35</sub>O<sub>12</sub>-type disordered garnet crystals for mode-locked lasers. Optical Materials Express, 2018, 8, 2287. | 1.6 | 21 |
| 80 | Microstructure, doping and optical properties of Co2+:ZnAl2O4 transparent ceramics for saturable absorbers: Effect of the ZnF2 sintering additive. Journal of Alloys and Compounds, 2020, 829, 154514. | 2.8 | 21 |
| 81 | Sub-50â€‰â€‰fs pulse generation from a SESAM mode-locked Tm,Ho-codoped calcium aluminate laser. Optics Letters, 2021, 46, 2642. | 1.7 | 21 |
| 82 | Polarized spectroscopy and SESAM mode-locking of Tm,Ho:CALGO. Optics Express, 2022, 30, 7883. | 1.7 | 21 |
| 83 | Glass-ceramics withÎ³-Ga<sub>2</sub>O<sub>3</sub>:Co<sup>2+</sup>nanocrystals: saturable absorber for 1.5â€“1.7â€‰Î¼m Er lasers. Laser Physics Letters, 2015, 12, 035803. | 0.6 | 20 |
| 84 | Structure and upconversion luminescence of transparent glass-ceramics containing (Er,Yb)2(Ti,Zr)2O7 nanocrystals. Journal of Non-Crystalline Solids, 2015, 409, 54-62. | 1.5 | 20 |
| 85 | Juddâ€“Ofelt modeling, stimulated-emission cross-sections and non-radiative relaxation in Er3+:K2YF5 crystals. Journal of Luminescence, 2016, 180, 103-110. | 1.5 | 20 |
| 86 | Judd-Ofelt modelling and stimulated-emission cross-sections for Tb3+ ions in monoclinic KYb(WO4)2 crystal. Journal of Luminescence, 2017, 190, 37-44. | 1.5 | 20 |
| 87 | Disordered Tm3+,Ho3+-codoped CNGG garnet crystal: Towards efficient laser materials for ultrashort pulse generation at â¼2ÂΜm. Journal of Alloys and Compounds, 2021, 853, 157100. | 2.8 | 20 |
| 88 | Fs-laser-written thulium waveguide lasers Q-switched by graphene and MoS<sub>2</sub>. Optics Express, 2019, 27, 8745. | 1.7 | 20 |
| 89 | Watt-level efficient 2.3â€‰â€‰Âμm thulium fluoride fiber laser. Optics Letters, 2020, 45, 5788. | 1.7 | 20 |
| 90 | Thermo-optic coefficients of Nd-doped anisotropic KGd(WO4)2, YVO4 and GdVO4 laser crystals. Applied Physics B: Lasers and Optics, 2011, 102, 117-122. | 1.1 | 19 |

| # | Article | IF | Citations |
|---|---|---|---|
| 91 | Thermo-optical properties of uniaxial NaT(XO4)2 laser host crystals (where TÂ=ÂY, La, Gd or Bi, and XÂ=ÂW) Tj ETQq1 1 0.784314 rgBT | 1.1 | 19 |
| 92 | Structural characteristics and spectral properties of novel transparent lithium aluminosilicate glass-ceramics containing (Er,Yb)NbO4 nanocrystals. Journal of Luminescence, 2015, 160, 337-345. | 1.5 | 19 |
| 93 | Growth, structure, Raman spectra and luminescence of orthorombic Li 2 Mg 2 (MoO 4 ) 3 crystals doped with Eu 3+ and Ce 3+ ions. Journal of Luminescence, 2017, 188, 154-161. | 1.5 | 19 |
| 94 | Crystal growth and properties of the disordered crystal Yb:SrLaAlO<sub>4</sub>: a promising candidate for high-power ultrashort pulse lasers. CrystEngComm, 2018, 20, 3388-3395. | 1.3 | 19 |
| 95 | Emission properties of Tm3+-doped CaF2, KY3F10, LiYF4, LiLuF 4 and BaY2F8 crystals at 1.5ÂÎ¼m and 2.3ÂÎ¼m. Journal of Luminescence, 2020, 225, 117279. | 1.5 | 19 |
| 96 | Kerr-lens mode-locked Tm-doped sesquioxide ceramic laser. Optics Letters, 2021, 46, 3428. | 1.7 | 19 |
| 97 | Synthesis, spectroscopic characterization and laser operation of Ho3+ in â€œmixedâ€•(Lu,Sc)2O3 ceramics. Journal of Luminescence, 2018, 203, 145-151. | 1.5 | 19 |
| 98 | Watt-level diode-pumped thulium lasers around 2.3â€‰â€‰Âµm. Applied Optics, 2020, 59, 7530. | 0.9 | 19 |
| 99 | Thermo-optic dispersion formulas for YCOB and GdCOB laser host crystals. Optical Materials Express, 2015, 5, 1089. | 1.6 | 18 |
| 100 | Monoclinic Tm:MgWO4 crystal: Crystal-field analysis, tunable and vibronic laser demonstration. Journal of Alloys and Compounds, 2018, 763, 581-591. | 2.8 | 18 |
| 101 | Growth, spectroscopy and first laser operation of monoclinic Ho3+:MgWO4 crystal. Journal of Luminescence, 2019, 213, 316-325. | 1.5 | 18 |
| 102 | Juddâ€“Ofelt analysis of spectroscopic properties of Eu3+:KLu(WO4)2 crystal. Journal of Luminescence, 2015, 168, 102-108. | 1.5 | 17 |
| 103 | Diode-pumped passively Q-switched self-frequency-doubled Nd:CNGS laser. Optics Express, 2017, 25, 19760. | 1.7 | 17 |
| 104 | Monoclinic Tm^3+:MgWO_4: a promising crystal for continuous-wave and passively Q-switched lasers at â^¼2â€‰â€‰Î¼m. Optics Letters, 2017, 42, 1177. | 1.7 | 17 |
| 105 | Hot pressing of Yb:Y2O3 laser ceramics with LiF sintering aid. Optical Materials, 2021, 119, 111349. | 1.7 | 17 |
| 106 | Femtosecond-laser-written Ho:KGd(WO<sub>4</sub>)<sub>2</sub> waveguide laser at 21â€‰â€‰Î¼m. Optics Letters, 2019, 44, 1738. | 1.7 | 17 |
| 107 | Thermo-optic coefficients study in KGd(WO<sub>4</sub>)<sub>2</sub> and KY(WO<sub>4</sub>)<sub>2</sub> by a modified minimum deviation method. Applied Optics, 2012, 51, 2951. | 0.9 | 16 |
| 108 | Anisotropy of the photo-elastic effect in Ndâ€‰:â€‰KGd(WO4)2laser crystals. Laser Physics Letters, 2014, 11, 055002. | 0.6 | 16 |

| # | Article | IF | Citations |
|---|---|---|---|
| 109 | Spectroscopy of tetragonal Eu:NaGd(WO4)2 crystal. Optical Materials, 2016, 57, 1-7. | 1.7 | 16 |
| 110 | Refined orientation of the optical axes as a function of wavelength in three monoclinic double tungstate crystals KRE(WO_4)_2 (RE = Gd, Y or Lu). Optical Materials Express, 2016, 6, 2984. | 1.6 | 16 |
| 111 | Crystallization and nonlinear optical properties of transparent glass-ceramics with Co:Mg(Al,Ga)2O4 nanocrystals for saturable absorbers of lasers at 1.6â€“1.7 Âµm. Journal of Physics and Chemistry of Solids, 2017, 103, 132-141. | 1.9 | 16 |
| 112 | Holmium thin-disk laser based on Ho:KY(WO_4)_2/KY(WO_4)_2 epitaxy with 60% slope efficiency and simplified pump geometry. Optics Letters, 2017, 42, 3490. | 1.7 | 16 |
| 113 | Highly-efficient laser operation of a novel trigonal silicate crystal Yb^3+:Ca_3NbGa_3Si_2O_14. Optical Materials Express, 2017, 7, 3626. | 1.6 | 16 |
| 114 | Passive Q-switching of an Er, Yb:glass laser with Co:Mg(Al,Ga)_2O_4-based glass-ceramics. Applied Optics, 2017, 56, 2142. | 2.1 | 16 |
| 115 | Luminescence peculiarities of Eu 3+ ions in multicomponent Ca 2 YSc 2 GaSi 2 O 12 garnet. Dyes and Pigments, 2018, 150, 158-164. | 2.0 | 16 |
| 116 | Laser operation of highly-doped Tm:LiYF<sub>4</sub> epitaxies: towards thin-disk lasers. Optics Express, 2019, 27, 9287. | 1.7 | 16 |
| 117 | Structure, optical properties and preferential site substitution of Eu3+ activated Ca8NaBi(PO4)6F2 red emitting phosphors prepared by modified Pechini process. Journal of Luminescence, 2022, 241, 118523. | 1.5 | 16 |
| 118 | Thermal lensing study and athermal directions in flashlamp-pumped Nd:KGd(WO4)2 laser crystal. Applied Physics B: Lasers and Optics, 2012, 106, 881-886. | 1.1 | 15 |
| 119 | New Luminescing Oxyfluoride Glass with Europium and Ytterbium Ions. Glass and Ceramics (English) Tj ETQq1 1 0.784314 rgBT /Over | 0.2 | 15 |
| 120 | Graphene Q-Switched Compact Yb:YAG Laser. IEEE Photonics Journal, 2015, 7, 1-7. | 1.0 | 15 |
| 121 | Efficient Micro-Lasers Based on Highly Doped Monoclinic Double Tungstates. IEEE Journal of Quantum Electronics, 2017, 53, 1-10. | 1.0 | 15 |
| 122 | Eu3+:KY(MoO4)2: A novel anisotropic red-emitting material with a layered structure. Journal of Alloys and Compounds, 2018, 762, 786-796. | 2.8 | 15 |
| 123 | Effect of SiO2 addition on structural and optical properties of Yb:Lu3Al5O12 transparent ceramics based on laser ablated nanopowders. Journal of Alloys and Compounds, 2019, 806, 717-725. | 2.8 | 15 |
| 124 | Ytterbium calcium fluoride waveguide laser. Optics Express, 2019, 27, 12647. | 1.7 | 15 |
| 125 | Thermal lensing in Yb:KLu(WO<sub>4</sub>)<sub>2</sub>crystals cut along the optical indicatrix axes. Laser Physics Letters, 2014, 11, 125802. | 0.6 | 14 |
| 126 | Passive Q-switching of a Tm,Ho:KLu(WO_4)_2 microchip laser by a Cr:ZnS saturable absorber. Applied Optics, 2016, 55, 3757. | 2.1 | 14 |

| # | Article | IF | Citations |
|---|---|---|---|
| 127 | Passive Q-switching of Yb bulk lasers by a graphene saturable absorber. Applied Physics B: Lasers and Optics, 2016, 122, 1. | 1.1 | 14 |
| 128 | Tm:KY<sub>1</sub>-x-yGdxLuy(WO<sub>4</sub>)<sub>2</sub> planar waveguide laser passively Q-switched by single-walled carbon nanotubes. Optics Express, 2018, 26, 4961. | 1.7 | 14 |
| 129 | Raman Laser Spectrometer: Application to 12C/13C Isotope Identification in CH4 and CO2 Greenhouse Gases. Applied Sciences (Switzerland), 2020, 10, 7473. | 1.3 | 14 |
| 130 | Watt-level ultrafast laser inscribed thulium waveguide lasers. Progress in Quantum Electronics, 2020, 72, 100266. | 3.5 | 14 |
| 131 | Watt-level europium laser at 703â€‰â€‰nm. Optics Letters, 2021, 46, 2702. | 1.7 | 14 |
| 132 | Synthesis, structure and spectroscopy of Fe2+:MgAl2O4 transparent ceramics and glass-ceramics. Journal of Luminescence, 2021, 236, 118090. | 1.5 | 14 |
| 133 | Spectroscopy and efficient laser operation around 2.8ÂÎ¼m of Er:(Lu,Sc)2O3 sesquioxide ceramics. Journal of Luminescence, 2021, 240, 118373. | 1.5 | 14 |
| 134 | Thermal lensing inNm-cut monoclinic Tm:KLu(WO4)2laser crystal. Laser Physics Letters, 2013, 10, 125005. | 0.6 | 13 |
| 135 | Ho:KLuW microchip laser intracavity pumped by a diode-pumped Tm:KLuW laser. Applied Physics B: Lasers and Optics, 2015, 120, 123-128. | 1.1 | 13 |
| 136 | Quasi-continuous wave and continuous wave laser operation of Eu:KGd(WO<sub>4</sub>)<sub>2</sub>crystal on a<sup>5</sup>D<sub>0</sub>â†’<sup>7</sup>F<sub>4</sub>transition. Laser Physics Letters, 2015, 12, 015006. | 0.6 | 13 |
| 137 | Graphene Q-switched Tm:KY(WO<sub>4</sub>)<sub>2</sub>waveguide laser. Laser Physics, 2017, 27, 045801. | 0.6 | 13 |
| 138 | Graphene and SESAM mode-locked Yb:CNGS lasers with self-frequency doubling properties. Optics Express, 2019, 27, 590. | 1.7 | 13 |
| 139 | Laser performance and thermal lensing in flashlamp pumped N p-cut and N g-cut Nd:KGW crystals. Applied Physics B: Lasers and Optics, 2010, 100, 477-483. | 1.1 | 12 |
| 140 | Compact 0.7 mJ/11 ns eye-safe erbium laser. Laser Physics, 2016, 26, 125801. | 0.6 | 12 |
| 141 | Q-switching of Yb:YGG, Yb:LuGG and Yb:CNGG lasers by a graphene saturable absorber. Optical and Quantum Electronics, 2016, 48, 1. | 1.5 | 12 |
| 142 | Disordered Tm:Ca_9La(VO_4)_7: a novel crystal with potential for broadband tunable lasing. Optical Materials Express, 2017, 7, 484. | 1.6 | 12 |
| 143 | Dispersion and anisotropy of thermo-optical properties of Alexandrite laser crystal. Optical Materials Express, 2018, 8, 3000. | 1.6 | 12 |
| 144 | Tm,Ho:Ca(Gd,Lu)AlO4 crystals: Crystal growth, structure refinement and Judd-Ofelt analysis. Journal of Luminescence, 2022, 246, 118828. | 1.5 | 12 |

| # | Article | IF | Citations |
|---|---|---|---|
| 145 | Temperature-dependent spectroscopy and microchip laser operation of Nd:KGd(WO4)2. Optical Materials, 2016, 58, 365-372. | 1.7 | 11 |
| 146 | Single-walled carbon-nanotube saturable absorber assisted Kerr-lens mode-locked Tm:MgWO4 laser. Optics Letters, 2020, 45, 6142. | 1.7 | 11 |
| 147 | Kerr-lens mode-locked Yb:SrLaAlO<sub>4</sub> laser. Optics Express, 2021, 29, 42837. | 1.7 | 11 |
| 148 | Comparative thermal analysis of Nd- and Yb-doped YAG and KGdW laser crystals under diode- and flashlamp-pumping. Optics and Laser Technology, 2012, 44, 2232-2237. | 2.2 | 10 |
| 149 | Characterization of the thermal lens in 3 at.%Tm:KLu(WO4)2and microchip laser operation. Laser Physics Letters, 2014, 11, 075001. | 0.6 | 10 |
| 150 | Stokes and antiâ€Stokes luminescence from cubic elpasolite Cs2NaYF6 crystals doped with Er3+and Yb3+ ions. Journal of Luminescence, 2016, 175, 260-266. | 1.5 | 10 |
| 151 | Q-switching of a Tm,Ho:KLu(WO4)2microchip laser by a graphene-based saturable absorber. Laser Physics Letters, 2016, 13, 025801. | 0.6 | 10 |
| 152 | Structure and thermal expansion of Ca 9 Gd(VO 4 ) 7 : A combined powder-diffraction and dilatometric study of a Czochralski-grown crystal. Nuclear Instruments & Methods in Physics Research B, 2017, 411, 100-111. | 0.6 | 10 |
| 153 | Crystal growth, spectroscopy and first laser operation of a novel disordered tetragonal Tm:Na2La4(WO4)7 tungstate crystal. Journal of Luminescence, 2018, 203, 676-682. | 1.5 | 10 |
| 154 | Spectroscopy and high-power laser operation of a monoclinic Yb<sup>3+</sup>:MgWO<sub>4</sub> crystal. Optics Letters, 2020, 45, 1770. | 1.7 | 10 |
| 155 | Transparent materials based on semiconducting ZnO: glass-ceramics and optical ceramics doped with rare-earth and transition-metal ions. Journal of Non-Crystalline Solids, 2022, 588, 121625. | 1.5 | 10 |
| 156 | Wavelength-tunable absorption and luminescence of SiO2â€“Al2O3â€“ZnOâ€“Na2Oâ€–K2Oâ€–NaF glasses with PbS quantum dots. Journal of Luminescence, 2013, 143, 418-422. | 1.5 | 9 |
| 157 | Red Eu,Yb:KY(WO4)2laser at ~702â€‰nm. Laser Physics Letters, 2015, 12, 085001. | 0.6 | 9 |
| 158 | Photoluminescence behavior of surface radiation induced color centers in lithium fluoride and influence of nanosized clusters. Journal of Luminescence, 2017, 188, 75-80. | 1.5 | 9 |
| 159 | Refractive-index variation with rare-earth incorporation in amorphous Al2O3 thin films. Journal of Non-Crystalline Solids, 2017, 476, 95-99. | 1.5 | 9 |
| 160 | Crystal growth, low-temperature spectroscopy and multi-watt laser operation of Yb:Ca3NbGa3Si2O14. Journal of Luminescence, 2018, 197, 90-97. | 1.5 | 9 |
| 161 | Monoclinic zinc monotungstate Yb3+,Li+:ZnWO4: Part I. Czochralski growth, structure refinement and Raman spectra. Journal of Luminescence, 2020, 228, 117601. | 1.5 | 9 |
| 162 | Comparative study of Yb:Lu3Al5O12 and Yb:Lu2O3 laser ceramics produced from laser-ablated nanopowders. Ceramics International, 2021, 47, 6633-6642. | 2.3 | 9 |

| # | Article | IF | Citations |
|---|---|---|---|
| 163 | Diode-pumped sub-50-fs Kerr-lens mode-locked Yb:GdYCOB laser. Optics Express, 2021, 29, 13496. | 1.7 | 9 |
| 164 | Spectroscopy and laser operation of highly-doped 10Âat.% Yb:(Lu,Sc)2O3 ceramics. Optical Materials, 2021, 117, 111128. | 1.7 | 9 |
| 165 | Sub-100 fs mode-locked Tm:CLTGG laser. Optics Express, 2021, 29, 31137. | 1.7 | 9 |
| 166 | Fs-laser-written erbium-doped double tungstate waveguide laser. Optics Express, 2018, 26, 30826. | 1.7 | 9 |
| 167 | Diamond saw dicing of thulium channel waveguide lasers in monoclinic crystalline films. Optics Letters, 2019, 44, 1596. | 1.7 | 9 |
| 168 | In-band pumped Tm,Ho:LiYF<sub>4</sub> waveguide laser. Optics Express, 2022, 30, 11840. | 1.7 | 9 |
| 169 | Photo-elastic effect, thermal lensing and depolarization ina-cut tetragonal laser crystals. Laser Physics, 2016, 26, 065002. | 0.6 | 8 |
| 170 | Single-walled carbon nanotubes oust graphene and semiconductor saturable absorbers inQ-switched solid-state lasers at 2Âμm. Laser Physics Letters, 2017, 14, 095801. | 0.6 | 8 |
| 171 | Graphene Q-switched Er,Yb:GdAl_3(BO_3)_4 laser at 1550â€‰â€‰nm. Applied Optics, 2017, 56, 4745. | 2.1 | 8 |
| 172 | Oriented zinc oxide nanorods: A novel saturable absorber for lasers in the near-infrared. Beilstein Journal of Nanotechnology, 2018, 9, 2730-2740. | 1.5 | 8 |
| 173 | Growth, spectroscopy, and laser operation of â€œmixedâ€•vanadate crystals Yb:Lu<sub>1-</sub>x-yYxLayVO<sub>4</sub>. Optical Materials Express, 2018, 8, 493. | 1.6 | 8 |
| 174 | Sources of parasitic features in the visible range of oxide transparent ceramics absorption spectra. Journal of the American Ceramic Society, 2020, 103, 4803-4821. | 1.9 | 8 |
| 175 | Growth, spectroscopy and laser operation of monoclinic Nd:CsGd(MoO4)2 crystal with a layered structure. Journal of Luminescence, 2021, 231, 117793. | 1.5 | 8 |
| 176 | Self-frequency-doubling Yb:CNGS lasers operating in the femtosecond regime. Journal of the Optical Society of America B: Optical Physics, 2020, 37, 2822. | 0.9 | 8 |
| 177 | Semiconductor saturable absorber Q-switching of a holmium micro-laser. Optics Express, 2017, 25, 4579. | 1.7 | 8 |
| 178 | Thermal lensing, heat loading and power scaling of mid-infrared Er:CaF<sub>2</sub> lasers. Optics Express, 2022, 30, 8092. | 1.7 | 8 |
| 179 | Thermal stresses in the laser disc from a tetragonal c -cut crystal. Optics Communications, 2014, 333, 175-181. | 1.0 | 7 |
| 180 | All-space existence and dispersion of athermal directions in monoclinic KY(WO4)2. Optics Communications, 2014, 326, 144-149. | 1.0 | 7 |

| # | Article | IF | Citations |
|---|---|---|---|
| 181 | Thermo-optic characterization of Yb:YAl3(BO3)4 laser crystal. Applied Physics B: Lasers and Optics, 2014, 117, 577-583. | 1.1 | 7 |
| 182 | Synthesis and optical properties of transparent glass ceramics with Eu,Yb:PbF2 nanocrystals. Optics and Spectroscopy (English Translation of Optika I Spektroskopiya), 2015, 118, 235-239. | 0.2 | 7 |
| 183 | Europium doping in monoclinic KYb(WO 4 ) 2 crystal. Journal of Luminescence, 2017, 183, 217-225. | 1.5 | 7 |
| 184 | Thermo-optic effects in Ho:KY(WO4)2 thin-disk lasers. Optical Materials Express, 2018, 8, 684. | 1.6 | 7 |
| 185 | Efficient continuous-wave in-band pumped Nd:KY(MoO<sub>4</sub>)<sub>2</sub> laser. Laser Physics Letters, 2018, 15, 065002. | 0.6 | 7 |
| 186 | Inkjet-printing of graphene saturable absorbers for ~2 Î¼m bulk and waveguide lasers. Optical Materials Express, 2018, 8, 2803. | 1.6 | 7 |
| 187 | Liquid Phase Epitaxy growth of Tm3+-doped CaF2 thin-films based on LiF solvent. Journal of Alloys and Compounds, 2019, 803, 442-449. | 2.8 | 7 |
| 188 | Ultrafast Laser Inscription and âˆ¼2 Î¼m Laser Operation of Y-Branch Splitters in Monoclinic Crystals. Journal of Lightwave Technology, 2020, 38, 4374-4384. | 2.7 | 7 |
| 189 | Liquid Phase Epitaxy growth, structure and spectroscopy of highly-doped 20 at.% Yb3+:LiYF4 thin films. Journal of Luminescence, 2021, 236, 118071. | 1.5 | 7 |
| 190 | Comparative study of Ho:Y2O3 and Ho:Y3Al5O12 transparent ceramics produced from laser-ablated nanoparticles. Journal of Luminescence, 2021, 240, 118460. | 1.5 | 7 |
| 191 | 52-fs SESAM Mode-Locked Tm,Ho:CALGO Laser. , 2019, , . | | 7 |
| 192 | Tm<sup>3+</sup> and Ho<sup>3+</sup> colasing in in-band pumped waveguides fabricated by femtosecond laser writing. Optics Letters, 2021, 46, 122. | 1.7 | 7 |
| 193 | Yellow Up-Conversion Luminescence of Transparent Glass Ceramics with Erbium Ions. Glass and Ceramics (English Translation of Steklo I Keramika), 2014, 71, 266-269. | 0.2 | 6 |
| 194 | Spectral and Luminescent Properties of Oxyfluoride Glasses Codoped with (Yb3+, Eu3+) and (Yb3+,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5 | 0.3 | 6 |
| 195 | Tm,Ho:KY(WO<sub>4</sub>)<sub>2</sub>planar waveguide laser. Laser Physics Letters, 2016, 13, 095801. | 0.6 | 6 |
| 196 | Spectroscopic and laser characterization of Yb,Tm:KLu(WO4)2 crystal. Optical Materials, 2016, 51, 223-231. | 1.7 | 6 |
| 197 | Indium-modified Yb:KLu(WO 4 ) 2 crystal: Growth, spectroscopy and laser operation. Journal of Luminescence, 2017, 183, 391-400. | 1.5 | 6 |
| 198 | Efficient diode-pumped Er:KLu(WO_4)_2 laser at âˆ¼161â€‰â€‰Î¼m. Optics Letters, 2018, 43, 218. | 1.7 | 6 |

| # | Article | IF | Citations |
|---|---|---|---|
| 199 | Passively mode-locked diode-pumped Tm,Ho:LiYF<sub>4</sub> laser. Laser Physics Letters, 2020, 17, 045801. | 0.6 | 6 |
| 200 | Ultrafast laser inscribed waveguide lasers in Tm:CALGO with depressed-index cladding. Optics Express, 2020, 28, 3528. | 1.7 | 6 |
| 201 | Spectroscopy and diode-pumped laser operation of transparent Tm:Lu<sub>3</sub>Al<sub>5</sub>O<sub>12</sub> ceramics produced by solid-state sintering. Optics Express, 2020, 28, 28399. | 1.7 | 6 |
| 202 | Laser operation of cleaved single-crystal plates and films of Tm:KY(MoO<sub>4</sub>)<sub>2</sub>. Optics Express, 2020, 28, 9039. | 1.7 | 6 |
| 203 | SWCNT-SA mode-locked Tm,Ho:LCLNGG laser. Optics Express, 2021, 29, 40323. | 1.7 | 6 |
| 204 | Ho:KLu(WO<sub>4</sub>)<sub>2</sub> Microchip Laser Q-Switched by a PbS Quantum-Dot-Doped Glass. IEEE Photonics Technology Letters, 2015, 27, 1795-1798. | 1.3 | 5 |
| 205 | Juddâ€“Ofelt modeling, emission lifetimes and non-radiative relaxation for Er 3+ doped Cs 2 NaYF 6 elpasolite crystals. Journal of Luminescence, 2017, 185, 279-285. | 1.5 | 5 |
| 206 | PassivelyQ-switched 1.6Âµm Er:YAG laser with aÎ³-Ga<sub>2</sub>O<sub>3</sub>:Co-based glass-ceramics as a saturable absorber. Laser Physics Letters, 2018, 15, 045004. | 0.6 | 5 |
| 207 | Ho:KY(WO<sub>4</sub>)<sub>2</sub> thin-disk laser passively Q-switched by a GaSb-based SESAM. Optics Express, 2018, 26, 9011. | 1.7 | 5 |
| 208 | Saturable absorption properties at 1.54 Âµm of Cr<sup>2+</sup>:ZnS prepared by thermal diffusion at hot isostatic pressing. Laser Physics Letters, 2019, 16, 065801. | 0.6 | 5 |
| 209 | Monoclinic zinc monotungstate Yb3+,Li+:ZnWO4: Part II. Polarized spectroscopy and laser operation. Journal of Luminescence, 2021, 231, 117811. | 1.5 | 5 |
| 210 | Power-scalable sub-100-fs Tm laser at 2.08 Î¼m. High Power Laser Science and Engineering, 0, , 1-20. | 2.0 | 5 |
| 211 | Design and modeling of a passively Q-switched diode-pumped Thulium laser at 2.3 <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" id="d1e923" altimg="si87.svg"><mml:mi mathvariant="normal">Î¼</mml:mi></mml:math>m. Optics Communications, 2021, 500, 127219. | 1.0 | 5 |
| 212 | Thermal stress and end-bulging in monoclinic crystals: the case study of double tungstates. Applied Optics, 2017, 56, 3857. | 2.1 | 5 |
| 213 | Channel waveguide lasers in bulk Tm:LiYF4 produced by deep diamond-saw dicing. Optics Express, 2020, 28, 26676. | 1.7 | 5 |
| 214 | ZnO â€“ Yb2O3 composite optical ceramics: Synthesis, structure and spectral-luminescent properties. Journal of the European Ceramic Society, 2022, 42, 616-630. | 2.8 | 5 |
| 215 | Spectroscopy and efficient laser operation of cleaving Yb:KY(MoO4)2 crystal. Optical Materials Express, 2020, 10, 2356. | 1.6 | 5 |
| 216 | Polarized spectroscopy and diode-pumped laser operation of disordered Yb:Ca<sub>3</sub>Gd<sub>2</sub>(BO<sub>3</sub>)<sub>4</sub> crystal. Optical Materials Express, 2022, 12, 673. | 1.6 | 5 |

| # | Article | IF | Citations |
|---|---|---|---|
| 217 | Thermal stresses and end-bulging in the laser disc from a tetragonal crystal: the case of LiYF4. Laser Physics, 2015, 25, 065004. | 0.6 | 4 |
| 218 | Thermal lensing in diode-pumped [001]-cut tetragonal crystals. Optics Communications, 2015, 355, 543-550. | 1.0 | 4 |
| 219 | IR luminescence of bismuth-containing centers in materials prepared by impregnation and thermal treatment of porous glasses. Russian Journal of Physical Chemistry B, 2016, 10, 211-214. | 0.2 | 4 |
| 220 | Up-Conversion Luminescence in Oxyfluoride Glass-Ceramics with PbF2:(Yb3+, Eu3+, RE3+) (RE = Tm, Ho,) Tj ETQq0 0 0 rgBT /Overlock 1 | 0.3 | 4 |
| 221 | Luminescence of Oxyfluoride Glasses Containing Yb3+â€“RE3+ Ions. Glass and Ceramics (English) Tj ETQq1 1 0.784314 rgBT /Overlock | 0.2 | 4 |
| 222 | Tm:CaGdAlO4: spectroscopy, microchip laser and passive Q-switching by carbon nanostructures. , 2017, , . | | 4 |
| 223 | Orthorombic Yb:Li2Zn2(MoO4)3â€”a novel potential crystal for broadly tunable lasers. Laser Physics Letters, 2017, 14, 085804. | 0.6 | 4 |
| 224 | Transparent glass-ceramics based on Co2+-doped Î³-GaxAl2â^'xO3 spinel nanocrystals for passive Q-switching of Er lasers. Journal of Luminescence, 2021, 234, 117993. | 1.5 | 4 |
| 225 | Low-loss fs-laser-written surface waveguide lasers at >2â€‰â€‰Âµm in monoclinic Tm3+:MgWO4. Optics Letters, 2020, 45, 4060. | 1.7 | 4 |
| 226 | SESAM Mode-Locked Yb:Ca3Gd2(BO3)4 Femtosecond Laser. Applied Sciences (Switzerland), 2021, 11, 9464. | 1.3 | 4 |
| 227 | Er:KY<sub>3</sub>F<sub>10</sub> laser at 2.80â€‰â€‰Âµm. Optics Letters, 2021, 46, 5739. | 1.7 | 4 |
| 228 | Vibronic Thulium Laser at 2131 nm Q-switched by Single-Walled Carbon Nanotubes. , 2016, , . | | 4 |
| 229 | SESAM mode-locked Yb:SrLaAlO<sub>4</sub> laser. Optics Express, 2021, 29, 43820. | 1.7 | 4 |
| 230 | Depolarization inc-cut tetragonal laser crystals. Laser Physics, 2016, 26, 015002. | 0.6 | 3 |
| 231 | Luminescence of Eu:Y3Al5O12, Eu:Lu3Al5O12, and Eu:GdAlO3 Nanocrystals Synthesized by Solution Combustion. Journal of Applied Spectroscopy, 2017, 84, 866-874. | 0.3 | 3 |
| 232 | Tm3+-doped calcium lithium tantalum gallium garnet (Tm:CLTGG): novel laser crystal. Optical Materials Express, 2021, 11, 2938. | 1.6 | 3 |
| 233 | Growth, structure, and polarized spectroscopy of monoclinic Er<sup>3+</sup>:MgWO<sub>4</sub> crystal. Optical Materials Express, 2022, 12, 2028. | 1.6 | 3 |
| 234 | The prospects for Yb- and Nd-doped tungstate microchip lasers. , 2013, , . | | 2 |

| # | Article | IF | Citations |
|---|---|---|---|
| 235 | Multi-watt passively Q-switched Yb:YAB/Cr:YAG microchip lasers. Proceedings of SPIE, 2017, , . | 0.8 | 2 |
| 236 | Mechanisms of Up-Conversion Luminescence in Glass-Ceramics Containing Er:PbF2 Nanocrystals. Journal of Applied Spectroscopy, 2017, 84, 194-201. | 0.3 | 2 |
| 237 | Highly-efficient multi-watt Yb:CaLnAlO4 microchip lasers. , 2017, , . | | 2 |
| 238 | Transparent glass-ceramics with Yb3+,Ho3+:YNbO4 nanocrystals for green phosphors. Journal of Physics: Conference Series, 2017, 917, 062024. | 0.3 | 2 |
| 239 | Oriented ZnO nanorods: A novel saturable absorber for lasers at 1â€“2 Î¼m. , 2017, , . | | 2 |
| 240 | Inkjet-Printing of Graphene Saturable Absorbers for ~2 Âµm Bulk and Waveguide Lasers. , 2017, , . | | 2 |
| 241 | Sub-10 optical-cycle mode-locked Tm:(Lu2/3Sc1/3)2O3 mixed ceramic laser at 2057 nm. , 2017, , . | | 2 |
| 242 | Passive Q switching of Yb:CNGS lasers by Cr<sup>4+</sup>:YAG and V<sup>3+</sup>:YAG saturable absorbers. Applied Optics, 2018, 57, 8236. | 0.9 | 2 |
| 243 | Spectroscopy of Tm3+-doped CaF2 waveguiding thin films grown by Liquid Phase Epitaxy. Journal of Luminescence, 2021, 238, 118109. | 1.5 | 2 |
| 244 | Soliton mode-locked Yb:Ca<sub>3</sub>Gd<sub>2</sub>(BO<sub>3</sub>)<sub>4</sub> laser. Optics Express, 2022, 30, 11833. | 1.7 | 2 |
| 245 | Thermal stresses and end-bulging in the laser disc from a tetragonal [1â€‰0â€‰0]-cut crystal. Laser Physics, 2015, 25, 015003. | 0.6 | 1 |
| 246 | Thermal lensing in Er, Ybâ€‰:â€‰YVO<sub>4</sub>crystal. Laser Physics Letters, 2015, 12, 035001. | 0.6 | 1 |
| 247 | Tm:(LuxGd1â€“x)3Ga5O12 Disordered Garnet for Continuous-Wave and Passively Q-switched Microchip Lasers. , 2016, , . | | 1 |
| 248 | Optical properties of transparent cobalt-containing magnesium aluminosilicate glass-ceramics doped with gallium oxide for saturable absorbers. Optics and Spectroscopy (English Translation of Optika I) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5 | 0.2 | 1 |
| 249 | Q-Switching of Ytterbium Lasers by A Graphene Saturable Absorber. NATO Science for Peace and Security Series B: Physics and Biophysics, 2017, , 533-535. | 0.2 | 1 |
| 250 | Passive Q-switching of a Tm3+:LiYF4 waveguide laser by Cr2+:ZnSe and Co2+:ZnSe saturable absorbers. Optical Materials, 2020, 107, 110116. | 1.7 | 1 |
| 251 | Growth, Characterization and Laser Operation of Tm3+, Na+ codoped CNGG (Tm:CNNGG) Disordered Garnet. , 2018, , . | | 1 |
| 252 | MoS2 Saturable Absorber for Passive Q-Switching of Yb and Tm Microchip Lasers. , 2016, , . | | 1 |

| # | Article | IF | Citations |
|---|---|---|---|
| 253 | Growth, Spectroscopy and Laser Operation in Disordered Tm,Ho:Ca(Gd,Lu)A!O4 Crystals. , 2020, , . | | 1 |
| 254 | DEVICE FOR MEASURMENT OF RELAXATION TIME OF THE BLEACHED STATE OF OPTICAL MATERIALS BY THE Â«PUMP-PROBEÂ» METHOD IN SUB-ÎœS TIME DOMAIN. Pribory I Metody Izmerenij, 2016, 7, 24-31. | 0.1 | 1 |
| 255 | Power Scaling and Thermo-Optics of Ho:KY(WO4)2 Thin-Disk Lasers: Effect of Ho3+ Concentration. , 2017, , . | | 1 |
| 256 | Thermo-optical properties of Alexandrite laser crystal. , 2018, , . | | 1 |
| 257 | Graphene mode-locked Tm,Ho-codoped crystalline garnet laser producing 70-fs pulses near 21â€…Âµm. OSA Continuum, 2019, 2, 2593. | 1.8 | 1 |
| 258 | Thermal expansion coefficients anisotropy of monoclinic potassium (rare-earth) double tungstates KRe(WO<inf>4</inf>)<inf>2</inf> (Re=Gd,Y,Lu,Yb). , 2011, , . | | 0 |
| 259 | Optimizing Yb:CaGdAlO4 crystal for high power lasers. , 2014, , . | | 0 |
| 260 | Spectroscopic characterization of Eu<sup>3+</sup>:KY(WO<inf>4</inf>)<inf>2</inf> laser crystal. , 2014, , . | | 0 |
| 261 | Europium-Doped double tungstates: Novel crystals for visible lasers. , 2014, , . | | 0 |
| 262 | Thermo-Optic Dispersion Formulas for YCOB and GdCOB Laser Host Crystals. , 2015, , . | | 0 |
| 263 | Q-switching of Yb:KLu(WO<inf>4</inf>)<inf>2</inf> lasers with graphene saturable absorbers. , 2015, , . | | 0 |
| 264 | Tm, Ho:KLu(WO<inf>4</inf>)<inf>2</inf> microchip laser Q-switched by a Cr<sup>2+</sup>:ZnS saturable absorber. , 2015, , . | | 0 |
| 265 | Intracavity-pumped Ho:KLu(WO<inf>4</inf>)<inf>2</inf> microchip laser at 2.1 μm. , 2015, , . | | 0 |
| 266 | Inband-Pumped Ho:KLu(WO4)2 Microchip Laser Q-switched with a PbS-Quantum-Dot-Doped Glass. , 2015, , . | | 0 |
| 267 | Semiconductor Saturable Absorber Q-Switching of a Holmium Microchip Laser. , 2016, , . | | 0 |
| 268 | Glass-ceramics with Yb, Tm:YNbO<inf>4</inf> nanocrystals: Novel NIR-to-NIR upconversion phosphor. , 2016, , . | | 0 |
| 269 | Glass-ceramics with Co<sup>2+</sup>:ZnO nanocrystals: Novel saturatable absorber for Er lasers. , 2016, , . | | 0 |
| 270 | Synthesis, structure and Q-switching behaviour of transparent glass-ceramics based on a mixture of Co:Î²-Zn<inf>2</inf>SiO<inf>4</inf> and Co:ZnO nanocrystals. , 2016, , . | | 0 |

| # | Article | IF | Citations |
|---|---|---|---|
| 271 | Novel transparent glass-ceramics based on Co:Li(Al, Ga)<inf>5</inf>O<inf>8</inf> nanocrystals for passive Q-switching of Er lasers. , 2016, , . | | 0 |
| 272 | Spectroscopy and laser operation of Indium-modified Yb:KLuW: a promising crystal for femtosecond lasers. , 2017, , . | | 0 |
| 273 | Glass-ceramics with Co<sup>2+</sup>:Mg(Al,Ga)<sub>2</sub>O<sub>4</sub> nanocrystals: novel saturable absorber for compact erbium lasers. Proceedings of SPIE, 2017, , . | 0.8 | 0 |
| 274 | Holmium thin-disk laser at 2056 nm based on Ho:KYW/KYW epitaxy. , 2017, , . | | 0 |
| 275 | Monoclinic Tm<sup>3+</sup>:MgWO<inf>4</inf> â€" A novel efficient laser emitting above 2 Î¼m. , 2017, , . | | 0 |
| 276 | Thermal lensing in high power Yb:KYW laser. , 2017, , . | | 0 |
| 277 | Energy-Transfer Processes Among Non-Homogeneously Distributed Rare-Earth Ions and Impact on Amplification and Lasing. , 2018, , . | | 0 |
| 278 | Highly-Efficient Femtosecond-Laser-Written Waveguide Lasers at ~2 Âµm in Monoclinic Tm:MgWO4. , 2018, , . | | 0 |
| 279 | Saturable Absorption of Cr2+:ZnS Doped by Hot Isostatic Pressing at 1.54 Î¼m. , 2018, , . | | 0 |
| 280 | Ultrafast Laser Inscription and Laser Operation of Y-Branch Splitters in Monoclinic Thulium-Doped Crystals. , 2019, , . | | 0 |
| 281 | Femtosecond-Laser-Written Waveguide Lasers at â^¼2 Î¼m. , 2019, , . | | 0 |
| 282 | 76 fs SWCNT-SA Mode-Locked Tm:MgWO4 Laser at 2 Î¼m. , 2019, , . | | 0 |
| 283 | A Novel Saturable Absorber: Transparent Glass-Ceramics Based on Co2+:Li(Al,Ga)5O8 Spinel Nanocrystals. , 2019, , . | | 0 |
| 284 | Sub-50-fs SESAM mode-locked Tm,Ho:Ca(Gd,Lu)AlO4 laser. , 2021, , . | | 0 |
| 285 | Nanosecond Compact Eye-Safe Erbium Lasers with 190 kW Peak Power. , 2021, , . | | 0 |
| 286 | Transparent Gahnite Ceramics Cr3+:ZnAl2O4 â€" Novel Red-Emitting Material. , 2021, , . | | 0 |
| 287 | Kerr-lens mode-locked Tm:(Lu,Sc)2O3 ceramic laser generating sub-60-fs pulses at 2.08 Âµm. , 2021, , . | | 0 |
| 288 | Oriented Single-Walled Carbon Nanotubes as Saturable Absorber for Passive Q-Switching of a Tm:KLuW Microchip Laser. , 2015, , . | | 0 |

| # | Article | IF | Citations |
|---|---|---|---|
| 289 | Microchip Laser Operation of Yb-Doped Gallium Garnets. , 2015, , . | | 0 |
| 290 | Graphene-Based Saturable Absorber for Passive Q-switching of Tm:KLu(WO4)2 Microchip Laser. , 2015, , . | | 0 |
| 291 | Sub-nanosecond Tm:KLuW Microchip Laser Q-switched by a Cr:ZnS Saturable Absorber. , 2015, , . | | 0 |
| 292 | Microchip Laser Operation of Yb:YCOB Crystals. , 2015, , . | | 0 |
| 293 | SESAM mode-locked Tm:CALGO laser at 2 Î¼m. , 2015, , . | | 0 |
| 294 | Sub-100 ns Tm:KLuW and Ho:KLuW Lasers Passively Q-switched with SWCNTs. , 2016, , . | | 0 |
| 295 | Graphene Q-Switched Er, Yb:GdAl3(BO3)4 Laser at 1550 nm. , 2016, , . | | 0 |
| 296 | Passive Q-switching of Ho:YAG ceramic lasers at 2.1 Î¼m. , 2016, , . | | 0 |
| 297 | Comparative Study of Tm:LiLnF4 (Ln = Y, Gd, and Lu) Crystals for Microchip Lasers at ~2 Î¼m. , 2016, , . | | 0 |
| 298 | Sub-100 fs Tm:MgWO4 laser at 2017 nm. , 2017, , . | | 0 |
| 299 | Tm:KY(WO4)2 Planar Waveguide Laser Q-switched by Single-Walled Carbon Nanotubes. , 2017, , . | | 0 |
| 300 | Growth, Spectroscopy and Laser Operation of Tm-doped Monoclinic Magnesium Tungstate (Tm:MgWO4). , 2017, , . | | 0 |
| 301 | Growth, Spectroscopy and Laser Operation of Novel â€œMixedâ€•Vanadate Crystals Yb:Lu1-x-yYxLayVO4. , 2017, , . | | 0 |
| 302 | Growth, spectroscopy and laser operation of â€œmixedâ€•Tm:Ca(Gd,Lu)AlO4 â€“ A novel crystal for mode-locked lasers. , 2018, , . | | 0 |
| 303 | 84-fs Pulse Generation from a Mode-Locked Tm,Ho:CLNGG Laser at 2080 nm. , 2018, , . | | 0 |
| 304 | 2D Materials for Mode-Locking of Bulk 2 Micron Lasers: Alternatives to SESAMs. , 2018, , . | | 0 |
| 305 | Dual-wavelength Yb:CALGO laser with 1.31 THz frequency offset. , 2018, , . | | 0 |
| 306 | Dual-wavelength Nd:CaLnAlO4 lasers at 1.365 and 1.390 Âµm. , 2018, , . | | 0 |

| # | Article | IF | Citations |
|---|---|---|---|
| 307 | Tm:GdVO4 microchip laser Q-switched by a Sb2Te3 topological insulator. , 2018, , . | | 0 |
| 308 | Optimized birefringent filter design for multi-wavelength operation of Yb-ion lasers. , 2018, , . | | 0 |
| 309 | Passive Q-switching of femtosecond-laser-written Tm:KLu(WO4)2 waveguide lasers by graphene and MoS2 saturable absorbers. , 2018, , . | | 0 |
| 310 | Highly-efficient Ho:KY(WO4)2 thin-disk lasers at 2.06 Âµm. , 2018, , . | | 0 |
| 311 | Stochastic model of energy transfer processes among rare earth ions. , 2018, , . | | 0 |
| 312 | Spectroscopy and High-Power Laser Operation of Monoclinic Yb3+:MgWO4 crystal. , 2019, , . | | 0 |
| 313 | Watt-Level fs-Laser-Written Thulium Waveguide Lasers. , 2019, , . | | 0 |
| 314 | Ultrafast Laser Inscribed Waveguide Lasers in Tm:CALGO. , 2019, , . | | 0 |
| 315 | Sub-60-fs Pulse Generation from a SWCNT Mode-Locked Tm:LuYO3 Ceramic Laser at 2045 nm. , 2019, , . | | 0 |
| 316 | Laser Operation of Cleaved Single-Crystal Plates and Films of Tm:KY(MoO4)2. , 2019, , . | | 0 |
| 317 | Laser operation of Nd3+-doped silicates (Gd,Y)2SiO5, (Lu,Y)2SiO5 and Lu2SiO5 at ~1.36 Î¼m. , 2019, , . | | 0 |
| 318 | Intracavity loss measurement in a diode-pumped Yb:CALGO laser. , 2019, , . | | 0 |
| 319 | Dual-wavelength Nd:CALGO laser based on an intracavity birefringent filter. , 2019, , . | | 0 |
| 320 | Comparative study of Ho:Y3Al5O12 and Ho:Y2O3 transparent ceramics synthesized from laser ablated nanopowders. EPJ Web of Conferences, 2020, 243, 12001. | 0.1 | 0 |
| 321 | 58-fs Pulses Generation from a SWCNT-SA Mode-Locked Mixed Sesquioxide Tm:(Lu,Sc)2O3 Ceramic Laser. , 2020, , . | | 0 |
| 322 | Spectroscopy, Cooperative Upconversion and Optical Gain in Amorphous Al2O3:Yb3+ Waveguides on Silicon. , 2020, , . | | 0 |
| 323 | Watt-Level Thulium Laser Operating on the 3H4 â†' 3 H5 Transition with ~70% Slope Efficiency. , 2020, , . | | 0 |
| 324 | Growth, spectroscopy and diode-pumped laser operation of acentric Yb:KGd(PO3)4 crystal. EPJ Web of Conferences, 2020, 243, 12002. | 0.1 | 0 |

| # | Article | IF | Citations |
|---|---|---|---|
| 325 | Near-Infrared Femtosecond Direct Laser Written Waveguide Lasers [Invited]. , 2020, , . | | 0 |
| 326 | Laser Operation of Yb3+-doped Lu-based Oxide Ceramics: A Comparative Study. , 2020, , . | | 0 |
| 327 | Novel Molybdate Laser Crystal with a Layered Structure: Orthorombic Er3+:KY(MoO4)2. , 2020, , . | | 0 |
| 328 | Polarized Spectroscopy and Eye-Safe Laser Operation of Monoclinic Er3+:MgWO4 Crystal. , 2021, , . | | 0 |
| 329 | Efficient In-band Pumped Tm,Ho:LiYF4 Waveguide Laser. , 2021, , . | | 0 |
| 330 | Sub-100 fs SWCNT-SA mode-locked Tm,Ho:LCLNGG laser. , 2022, , . | | 0 |
| 331 | Diode-pumped and tunable laser operation of Tm,Ho-codoped modified CNGG-type disordered crystals. , 2022, , . | | 0 |
| 332 | Disordered Yb:GdYCOB crystal: polarized spectroscopy, thermal lensing and diode-pumped lasers. , 2022, , . | | 0 |
| 333 | Continuous-wave and passively mode-locked operation of Yb:Ca3Gd2(BO3)4 laser. , 2022, , . | | 0 |