Liangbi Su

List of Publications by Year
in descending order

103 papers	1,744 citations	304743 22 h-index	361022 35 g-index
103 all docs	103 docs citations	103 times ranked	933 citing authors

#	Article	IF	Citations
1	Dual-wavelength Q-switched Er:SrF_2 laser with a black phosphorus absorber in the mid-infrared region. Optics Express, 2016, 24, 30289.	3.4	88
2	Compact passive Q-switching of a diode-pumped Tm,Y:CaF2 laser near 2â€Î¼m. Optics and Laser Technology, 2018, 103, 89-92.	4.6	79
3	A solid-state passively Q-switched Tm,Gd:CaF₂laser with a Ti₃C₂T_{<i>x</i>}MXene absorber near 2<i>Âµ</i>m. Laser Physics Letters, 2019, 16, 015803.	1.4	69
4	Bismuth nanosheets as a Q-switcher for a mid-infrared erbium-doped SrF₂ laser. Photonics Research, 2018, 6, 762.	7.0	65
5	Diode-pumped Yb:GSO femtosecond laser. Optics Express, 2007, 15, 2354.	3.4	62
6	Highly efficient dual-wavelength mid-infrared CW Laser in diode end-pumped Er:SrF2 single crystals. Scientific Reports, 2016, 6, 36635.	3.3	53
7	Codoping Na^+ to modulate the spectroscopy and photoluminescence properties of Yb^3+ in CaF_2 laser crystal. Optics Letters, 2005, 30, 1003.	3.3	50
8	Raman spectroscopic investigation of pure and ytterbiumâ€doped rare earth silicate crystals. Journal of Raman Spectroscopy, 2007, 38, 1421-1428.	2.5	45
9	Nd,Y:CaF₂laser crystals: novel spectral properties and laser performance from a controlled local structure. CrystEngComm, 2015, 17, 7398-7405.	2.6	45
10	Operation of continuous wave and Q-switching on diode-pumped Nd,Y:CaF2 disordered crystal. Optics and Laser Technology, 2015, 69, 140-143.	4.6	40
11	Mode locked Nd3+ and Gd3+ co-doped calcium fluoride crystal laser at dual gain lines. Optics and Laser Technology, 2018, 100, 294-297.	4.6	40
12	Efficient diode-pumped Yb:Gd2SiO5 laser. Applied Physics Letters, 2006, 88, 221117.	3.3	38
13	Enhanced photoluminescence and initial red laser operation in Pr:CaF 2 crystal via co-doping Gd 3+ ions. Materials Letters, 2017, 206, 140-142.	2.6	33
14	Influence of Tb3+ concentration on the optical properties and Verdet constant of magneto-optic ABS-PZZ glass. Optical Materials, 2017, 69, 202-206.	3.6	31
15	Effects of Nd Concentration on Microstructure and Optical Properties of Nd: CaF₂ Transparent Ceramics. Journal of the American Ceramic Society, 2016, 99, 4039-4044.	3.8	28
16	Pulsed and continuous-wave laser operation of TGT-grown Nd,Y-codopedâ€‰:SrF₂single crystal. Laser Physics Letters, 2014, 11, 055001.	1.4	27
17	Generation of sub-100 fs pulses from mode-locked Nd,Y:SrF₂laser with enhancing SPM. Laser Physics Letters, 2016, 13, 055804.	1.4	27
18	Structural, spectroscopic and thermal properties of hot-pressed Nd:(Ca0.94Gd0.06)F2.06 transparent ceramics. Journal of the European Ceramic Society, 2018, 38, 3240-3245.	5.7	25

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19	The defect aggregation of RE3+ (REâ€¯=â€¯Y, La âˆ¼ Lu) in MF2 (Mâ€¯=â€¯Ca, Sr, Ba) fluorites. Materials Research Bulletin, 2020, 125, 110788.	5.2	25
20	Efficient mid-infrared laser under different excitation pump wavelengths. Optics Letters, 2017, 42, 3908.	3.3	24
21	Preparation and characterizations of Pr3+:CaF2 transparent ceramics with different doping concentrations. Ceramics International, 2019, 45, 3541-3546.	4.8	23
22	Fabrication, microstructure and laser performance of Yb3+ doped CaF2-YF3 transparent ceramics. Ceramics International, 2020, 46, 19530-19536.	4.8	23
23	Color-tunable visible photoluminescence of Eu:CaF₂ single crystals: variations of valence state and local lattice environment of Eu ions. Optics Express, 2019, 27, 523.	3.4	23
24	Low-threshold and continuously tunable Yb:Gd2SiO5 laser. Applied Physics Letters, 2006, 89, 101125.	3.3	22
25	Effects of deformation rate on properties of Nd,Y-codoped CaF 2 transparent ceramics. Journal of the European Ceramic Society, 2018, 38, 2404-2409.	5.7	22
26	Upconversion color tunability and white light generation in Yb3+/Er3+/Tm3+ tri-doped CaF2 single crystals. Optical Materials, 2019, 90, 40-45.	3.6	22
27	Femtosecond mode-locked Nd,La:CaF_2 disordered crystal laser. Optical Materials Express, 2016, 6, 2184.	3.0	20
28	Transparent Nd-doped Ca1âˆ’xYxF2+x ceramics prepared by the ceramization of single crystals. Materials and Design, 2017, 113, 326-330.	7.0	20
29	Synthesis and optical characterizations of Nd, Y: CaF 2 transparent ceramics. Optical Materials, 2017, 71, 35-40.	3.6	20
30	High-efficiency 2â€‰â€‰Î¼m continuous-wave laser in laser diode-pumped Tm³⁺, La³⁺:CaF₂ single crystal. Optics Letters, 2018, 43, 4300.	3.3	20
31	Active Q-switching operation of slab Ho:SYSO laser wing-pumped by fiber coupled laser diodes. Optics Express, 2019, 27, 11455.	3.4	20
32	High-efficiency âˆ¼2 Âµm CW laser operation of LD-pumped Tm³⁺:CaF₂ single-crystal fibers. Optics Express, 2020, 28, 6684.	3.4	20
33	1886-nm mode-locked and wavelength tunable Tm-doped CaF₂ lasers. Optics Letters, 2019, 44, 134.	3.3	20
34	Tailoring the local lattice distortion of Nd³⁺ by codoping of Y³⁺ through first principles calculation for tuning the spectroscopic properties. Optical Materials Express, 2019, 9, 4256.	3.0	20
35	Effect of sintering temperature on the microstructure and transparency of Nd, Y:CaF 2 ceramics. Ceramics International, 2016, 42, 13285-13290.	4.8	19
36	Efficient continuous-wave, broadly tunable and passive Q-switching lasers based on a Tm3+:CaF2crystal. Laser Physics Letters, 2018, 15, 045803.	1.4	19

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37	Z-scan measurement of the nonlinear refractive index of Nd^3+, Y^3+-codoped CaF_2 and SrF_2 crystals. Applied Optics, 2015, 54, 953.	1.8	18
38	Er:CaF2 single-crystal fiber Q-switched laser with diode pumping in the mid-infrared region. Journal of Luminescence, 2020, 227, 117519.	3.1	18
39	Mid-infrared spectral properties and laser performance of Er³⁺ doped Ca_xSr_{1-x}F₂ single crystals. Optical Materials Express, 2018, 8, 3820.	3.0	16
40	Spectroscopic properties of Yb-doped CaF₂â€"YF₃solid-solution laser crystal. Laser Physics, 2013, 23, 105805.	1.2	15
41	The effect of Gd3+ ions on fabrication and luminescence properties of Nd3+-doped (Ca1-xGdx)F2+x transparent ceramics. Materials Research Bulletin, 2018, 102, 304-310.	5.2	15
42	Growth and highly efficient mid-infrared continuous-wave laser of lightly-doped Er:SrF2 single-crystal fibers. Optical Materials, 2019, 95, 109255.	3.6	15
43	Clusters modification for tunable photoluminescence in Nd3+:SrF2 crystal. Journal of Alloys and Compounds, 2022, 899, 162913.	5.5	15
44	Diode-pumped femtosecond mode-locked Nd, Y-codoped CaF₂ laser. Laser Physics Letters, 2015, 12, 035801.	1.4	14
45	Spectroscopic characteristics, continuous-wave and mode-locking laser performances of Tm,Y:CaF_2 disordered crystal. Optics Express, 2017, 25, 21267.	3.4	14
46	Pr:Ca1-xRxF2+x (R=Y or Gd) crystals: Modulated blue, orange and red emission spectra with the proportion of R3+ ions. Optical Materials, 2018, 78, 88-93.	3.6	14
47	Effect of Yb concentration on the microstructures, spectra, and laser performance of Yb: CaF₂ transparent ceramics. Journal of the American Ceramic Society, 2020, 103, 5787-5795.	3.8	14
48	Efficient 2.76 <i>Î¼</i>m continuous-wave laser in extremely lightly Er-doped CaF₂ single-crystal fiber. Laser Physics Letters, 2020, 17, 085801.	1.4	14
49	Perfectly transparent pore-free Nd3+-doped Sr9GdF21 polycrystalline ceramics elaborated from single-crystal ceramization. Journal of the European Ceramic Society, 2017, 37, 4912-4918.	5.7	13
50	A passively Q-switching of diode-pumped 2.08-Âµm Ho:CaF2 laser. Infrared Physics and Technology, 2019, 103, 103071.	2.9	13
51	Optical properties, magnetooptical properties and terahertz time-domain spectrum of Tb₃Sc₂Al₃O₁₂ crystals grown by optical floating zone methods. Optical Materials Express, 2018, 8, 2880.	3.0	13
52	Tunable Yb:CaF_2â€"SrF_2 laser and femtosecond mode-locked performance based on semiconductor saturable absorber mirrors. Applied Optics, 2016, 55, 8359.	2.1	12
53	Efficient intracavity-pumped Ho:SSO laser with cascaded in-band pumping scheme. Infrared Physics and Technology, 2018, 94, 7-10.	2.9	12
54	Cryogenic Ho:CaF₂laser pumped by Tm:fiber laser. Laser Physics Letters, 2016, 13, 065004.	1.4	11

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55	Modulated photoluminescence parameters of neodymium in Sr_095Y_005F_205 laser crystal. Optical Materials Express, 2017, 7, 3231.	3.0	10
56	Suppression of Eu2+ luminescence and enhancement of Eu3+ emission in Eu: CaF2 single crystal via Gd3+ co-doping. Journal of Luminescence, 2021, 233, 117877.	3.1	10
57	Smooth and flat photoluminescence spectra of Nd³⁺ active ions in tri-doped CaF₂ single crystals. Optical Materials Express, 2020, 10, 704.	3.0	10
58	Compact, efficient diode-end-pumped Tm:Sc2SiO5 2Î¼m laser. Optics and Laser Technology, 2013, 50, 51-54.	4.6	9
59	Growth, Characterization, and Efficient Continuous-Wave Laser Operation in Nd,Gd:CaF₂ Single-Crystal Fibers. Crystal Growth and Design, 2020, 20, 6329-6336.	3.0	9
60	Spectral and laser performance of a Tm 3+ :ScYSiO 5 crystal. Journal of Alloys and Compounds, 2017, 712, 412-417.	5.5	8
61	The codopant assisted tunable photoluminescence and highly efficient CW lasers in Nd3+:SrF2 crystal. Journal of Luminescence, 2020, 219, 116911.	3.1	8
62	Growth and optical properties of ytterbium and rare earth ions codoped CaF2-SrF2 eutectic solid-solution (REÂ=ÂY3+, Gd3+, La3+). Journal of Rare Earths, 2021, 39, 390-397.	4.8	8
63	Growth of Tm:Lu3Al5O12 single crystal fiber from transparent ceramics by laser-heated pedestal method and its spectral properties. Optical Materials, 2021, 111, 110674.	3.6	8
64	Wavelength-locked continuous-wave and Q-switched Ho:CaF₂ laser at 21005 nm. Optics Express, 2018, 26, 26916.	3.4	8
65	Self-Q-switched and broad wavelength-tunable lasing in Tm³⁺-doped CaF₂ single-crystal fiber. Applied Physics Express, 2020, 13, 102003.	2.4	8
66	Heatâ€driven Tailored for Eliminating Nd 3+ Reâ€clusters in Nd 3+ ,Gd 3+ â€codoped SrF 2 Laser Ceramic. Journal of the American Ceramic Society, 2020, 103, 2562-2568.	3.8	7
67	The host driven local structures modulation towards broadband photoluminescence in neodymium-doped fluorite crystal. Optical Materials, 2021, 119, 111322.	3.6	7
68	Efficient Ho:(Sc₀₅Y₀₅)₂SiO₅ laser at 21 Âµm in-band pumped by Tm fiber laser. Optics Express, 2019, 27, 4522.	3.4	7
69	Effect of Yb<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" id="d1e1215" altimg="si30.svg"><mml:msup><mml:mrow /><mml:mrow><mml:mn>3</mml:mn><mml:mo>+</mml:mo></mml:mrow></mml:msup></mml:math> concentration on Er<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" id="d1e1225" altimg="si30.svg"><mml:msup><mml:mrow /><mml:mrow><mml:mn>3</mml:mn><mml:mo>+</mml:mo></mml:mrow></mml:msup></mml:math> dop	2.1	7
70	Optical study of Tm-doped solid solution (Sc0.5Y0.5)2SiO5 crystal. Journal of Crystal Growth, 2018, 487, 83-86.	1.5	6
71	Optical Spectra Properties and Continuous-Wave Laser Performance of Tm,Y:CaF2 Single Crystals. International Journal of Optics, 2018, 2018, 1-7.	1.4	6
72	Photoluminescence property and laser performance in Yb-doped Sr_{1-x}Gd_xF_{2+x} single crystals. Optical Materials Express, 2018, 8, 1747.	3.0	6

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73	Passively Q-switched operation of a novel Tm3+, La3+ co-doped CaF2 single crystal near 2â€¯Âµm. Infrared Physics and Technology, 2019, 102, 103010.	2.9	6
74	Watt-level continuous-wave and high-repetition-rate mid-infrared lasers based on a Er3+-doped Ca0.8Sr0.2F2 crystal. Applied Physics Express, 2019, 12, 115505.	2.4	6
75	Crystal growth and characterization of CexY3-xFe5O12 single crystal by optical floating zone method. Physica B: Condensed Matter, 2020, 588, 412168.	2.7	6
76	Active Q-switching operation of a Tm:SrF₂ single crystal fiber laser near 2â€…Âµm. Optical Materials Express, 2021, 11, 2877.	3.0	6
77	Continuous-wave and Q-switched Nd:BGSO lasers based on bismuth nanosheets absorber. Applied Optics, 2019, 58, 6545.	1.8	6
78	Tailoring local coordination structure of the Er³⁺ ions for tuning the up-conversion multicolor luminescence. Optics Express, 2020, 28, 22218.	3.4	6
79	Sub-60-fs ultralow threshold and efficient Kerr-lens mode-locked Yb,Gd:CaSrF₂ laser. Optics Letters, 2022, 47, 2362.	3.3	6
80	Neodymium Cluster Evolution in Fluorite Laser Crystal: A Combined DFT and Synchrotron X-ray Absorption Fine Structure Study. Crystal Growth and Design, 2022, 22, 4480-4493.	3.0	6
81	Color centers in Yb:YAG crystals grown by temperature-gradient techniques. Physica Status Solidi (A) Applications and Materials Science, 2006, 203, 2496-2500.	1.8	5
82	Color centers in gamma-irradiated YAP crystals grown by the Czochralski method. Physica Status Solidi (A) Applications and Materials Science, 2007, 204, 608-612.	1.8	5
83	Microstructural and optical properties of Pr3+:(Ca0.97Gd0.03)F2.03 transparent ceramics sintered by vacuum hot-pressing method. Journal of Luminescence, 2019, 214, 116575.	3.1	5
84	Spectral properties and highly efficient continuous-wave laser operation in Nd, Gd:CaF2 crystals. Journal of Alloys and Compounds, 2019, 781, 629-632.	5.5	5
85	Er³⁺â€‘doped CaF₂ polycrystalline ceramic with perfect transparency for midâ€‘infrared laser. Journal of the American Ceramic Society, 2020, 103, 5808-5812.	3.8	5
86	Compact Q-switched Nd:YAG single-crystal fiber laser with 794â€…nm laser diode pumping. Optical Materials Express, 2021, 11, 3355.	3.0	5
87	Femtosecond diode-pumped mode-locked neodymium lasers. Proceedings of SPIE, 2016, , .	0.8	4
88	Re-clustering of neodymium ions in neodymium, buffer ion-codoped alkaline-earth fluoride transparent ceramics. CrystEngComm, 2017, 19, 4480-4484.	2.6	4
89	Broadly Tunable and Passively Mode-Locked Operations of Yb³⁺,Gd³⁺:SrF₂ Laser. IEEE Journal of Selected Topics in Quantum Electronics, 2019, 25, 1-5.	2.9	4
90	Linear correlation of crystal structure and spectral properties of Nd 3+ in Ca 1â€•x Sr x F 2 mixed crystals. Journal of the American Ceramic Society, 2020, 103, 3650-3656.	3.8	4

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91	Dual-wavelength synchronous mode-locked Yb:LSO laser using a double-walled carbon nanotube saturable absorber. Applied Optics, 2016, 55, 3639.	2.1	4
92	Laser-diode-pumped Tm:SrF₂ single crystal for high efficiency CW laser operation at â^¼2 Âµm. Optics Letters, 2022, 47, 1117.	3.3	4
93	Numerical Simulation of Heat Transfer and Convection for CaF₂ Crystal Growth by Vertical Bridgman Growth Method. Crystal Research and Technology, 2020, 55, 1900191.	1.3	3
94	Room temperature CW and QCW operation of Ho:CaF2 laser pumped by Tm:fiber laser. , 2017, , .		3
95	Growth and spectroscopic properties of CaxSr1-xF2: Sm: Gd single crystals. Journal of Luminescence, 2022, 249, 119008.	3.1	3
96	Effect of Î³-irradiation on spectral properties of undoped Y2SiO5 crystals. Crystal Research and Technology, 2006, 41, 255-258.	1.3	2
97	Tb,Y:SrF2 crystal for efficient laser operation in the visible spectral region. Optics Letters, 2022, 47, 774.	3.3	2
98	Defects in U3+:CaF2 single crystals grown under different conditions by the temperature gradient technique. Physica Status Solidi (B): Basic Research, 2005, 242, 1687-1693.	1.5	1
99	783 fs and 747 fs Operation of diode-pumped Nd, La:CaF<inf>2</inf> and Nd, La:SrF<inf>2</inf> lasers. , 2017, , .		1
100	Cu12Sb4S13 nanocrystals as absorbers for a diode-pumped Tm,La:CaF2 2 <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" id="d1e251" altimg="si36.svg"><mml:mi mathvariant="normal">Î¼</mml:mi></mml:math>m Q-switched laser. Optics Communications, 2020, 462, 125281.	2.1	1
101	Rare-earth induced nonlinear structural evolutions in fluorite solid solution crystals. Optical Materials Express, 2021, 11, 3870.	3.0	1
102	Nd,Gd:SrF2 Laser Generating 600 fs Pulses at 0.9 W of Pump Power. , 2019, , .		0
103	Spectral characterization and laser operation of Ho:SrF2 single-crystal fiber. Journal of Alloys and Compounds, 2022, , 166009.	5.5	0