Xiao-Ming Duan

List of Publications by Year
in descending order

104 papers	1,589 citations	331670 21 h-index	377865 34 g-index
105 all docs	105 docs citations	105 times ranked	901 citing authors

#	Article	IF	Citations
1	Watt-level long-wave infrared CdSe pulsed-nanosecond optical parametric oscillator. Optics and Laser Technology, 2022, 145, 107491.	4.6	5
2	Hardness and toughness improvement of SiCâ€based ceramics with the addition of (Hf_{0.2}Mo_{0.2}Ta_{0.2}Nb_{0.2}Ti_{0.2})B₂. Journal of the American Ceramic Society, 2022, 105, 1629-1634.	3.8	7
3	Influence of sintering temperature on the crystallization and mechanical properties of BNâ€MAS composites. Journal of the American Ceramic Society, 2022, 105, 3590-3600.	3.8	5
4	Growth, spectra and continuous-wave 2.1 Î¼m laser operation of a Ho³⁺-doped bismuth silicate crystal. CrystEngComm, 2022, 24, 1590-1597.	2.6	8
5	An efficient, compact Ho:YLF MOPA system pumped by a linearly polarized Tm:YAP laser. Optics and Laser Technology, 2022, 150, 107977.	4.6	5
6	1ÂkHz, 1.5ÂMW peak power pulse generation from an acousto-optically Q-switched Ho:GdVO4 oscillator. Optics and Laser Technology, 2022, 152, 108114.	4.6	4
7	A Mid-Irfrared Rectangle Ring OPO Pumped by an Actively/Passively Q-Switched 2.09 Î¼m Polycrystalline Laser. Journal of Russian Laser Research, 2022, 43, 224-228.	0.6	4
8	Editorial for the Special Issue on â€œAdvances in Middle Infrared Laser Crystals and Its Applicationsâ€. Crystals, 2022, 12, 643.	2.2	0
9	Thermal-birefringence-induced depolarization in a 450 W Ho:YAG MOPA system. Optics Express, 2022, 30, 21501.	3.4	6
10	113â€‰â€‰W Ho:YLF oscillator with good beam quality efficiently pumped by a Tm:YAP laser. Applied Optics, 2022, 61, 5755.	1.8	5
11	Atomically Thin Hexagonal Boron Nitride and Its Heterostructures. Advanced Materials, 2021, 33, e2000769.	21.0	71
12	Tunable single-longitudinal-mode resonantly-pumped Ho:YAP unidirectional ring laser. Optical and Quantum Electronics, 2021, 53, 1.	3.3	1
13	High-power actively Q-switched Ho-doped gadolinium tantalate laser. Optics Express, 2021, 29, 12471.	3.4	9
14	Solvents adjusted pure phase CoCO3 as anodes for high cycle stability. Journal of Advanced Ceramics, 2021, 10, 509-519.	17.4	22
15	A 2 Î¼m Single-Longitudinal-Mode Ho:GdVO4 CW Laser. Journal of Russian Laser Research, 2021, 42, 355.	0.6	5
16	202 W dual-end-pumped Tm:YLF laser with a VBG as an output coupler. High Power Laser Science and Engineering, 2021, 9, .	4.6	5
17	Tm³⁺: Bi₄Si₃O₁₂crystal as a promising laser material near 2 Î¼m: growth, spectroscopic properties and laser performance. Optics Express, 2021, 29, 29138.	3.4	5
18	Passively Q-switched Tm:YAP laser with a lead zirconate titanate saturable absorber. Applied Optics, 2021, 60, 8097.	1.8	6

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19	First-principles study of the anisotropic thermal expansion and thermal transport properties in h-BN. Science China Materials, 2021, 64, 953-963.	6.3	14
20	161â€‰â€‰W middle infrared ZnGeP₂ MOPA system pumped by 300â€‰â€‰W-class Ho:YAG MOPA system. Optics Letters, 2021, 46, 82.	3.3	41
21	Immobilization behavior of Sr in geopolymer and its ceramic product. Journal of the American Ceramic Society, 2020, 103, 1372-1384.	3.8	24
22	Interplay between storage temperature, medium and leaching kinetics of hazardous wastes in Metakaolin-based geopolymer. Journal of Hazardous Materials, 2020, 384, 121377.	12.4	51
23	A high-beam-quality passively Q-switched 2ÂÎ¼m solid-state laser with a WSe2 saturable absorber. Optics and Laser Technology, 2020, 125, 105960.	4.6	12
24	High power passively Q-switched Tmc+:(LuxGd1-x)3Ga5O12 laser based on boron nitride. Optics and Laser Technology, 2020, 123, 105795.	4.6	3
25	Microstructure and Hydrophobic Properties of Nano-Cu-Coated Wood-Based Composites by Ultrasonic Pretreatment. Applied Sciences (Switzerland), 2020, 10, 5448.	2.5	3
26	Thermal lens effect and laser characteristics of Ho:YAG ceramic laser with a concave-convex cavity. Optik, 2020, 221, 165307.	2.9	7
27	Geopolymer-Encapsulated Cesium Lead Bromide Perovskite Nanocrystals for Potential Display Applications. ACS Applied Nano Materials, 2020, 3, 11695-11700.	5.0	6
28	Microstructural evolution and mechanical properties of in situ nano Ta4HfC5 reinforced SiBCN composite ceramics. Journal of Advanced Ceramics, 2020, 9, 739-748.	17.4	28
29	Effects of Zr and chopped C fiber on microstructure and mechanical properties of SiBCN ceramics. Science China Technological Sciences, 2020, 63, 1520-1530.	4.0	7
30	From bulk to porous structures: Tailoring monoclinic SrAl₂Si₂O₈ ceramic by geopolymer precursor technique. Journal of the American Ceramic Society, 2020, 103, 4957-4968.	3.8	10
31	Measurement of optical homogeneity of ZnGeP₂ crystal using a 2.02 Âµm single-longitudinal-mode Tm:LuAG ring laser. Applied Optics, 2020, 59, 5864.	1.8	5
32	Broadband second-harmonic and sum-frequency generation with a long-wave infrared laser in AgGaGe₅Se₁₂. Applied Optics, 2020, 59, 5247.	1.8	3
33	11 Âµm, high beam quality idler-resonant CdSe optical parametric oscillator with continuous-wave injection-seeded at 2.58 Âµm. Optics Express, 2020, 28, 17056.	3.4	9
34	Tunable twisted-mode Ho:YAG laser at continuous-wave and pulsed operation. Optics Express, 2020, 28, 31775.	3.4	2
35	3.5â€‰â€‰W long-wave infrared ZnGeP₂ optical parametric oscillator at 9.8â€‰â€‰Âµm. Optics Letters, 2020, 45, 2347.	3.3	16
36	1â€‰â€‰W, 10.1â€‰â€‰Âµm, CdSe optical parametric oscillator with continuous-wave seed injection. Optics Letters, 2020, 45, 2119.	3.3	11

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37	High-beam-quality 2.1â€‰â€‰Âµm pumped mid-infrared type-II phase-matching BaGa₄Se₇ optical parametric oscillator with a ZnGeP₂ amplifier. Optics Letters, 2020, 45, 3805.	3.3	17
38	Research on performance improvement technology of a BaGa₄Se₇ mid-infrared optical parametric oscillator. Optics Letters, 2020, 45, 6418.	3.3	16
39	Continuously tunable high-power single-longitudinal-mode Ho:YLF laser around the P12 CO₂ absorption line. Optics Letters, 2020, 45, 6691.	3.3	7
40	11.6 W middle infrared ZnGeP2 optical parametric amplifier system with a 1 kHz repetition rate. Laser Physics, 2020, 30, 095001.	1.2	2
41	570â€…MHz harmonic mode-locking in an all polarization-maintaining Ho-doped fiber laser. Optics Express, 2020, 28, 33028.	3.4	17
42	A passively Q-switching of diode-pumped 2.08-Âµm Ho:CaF2 laser. Infrared Physics and Technology, 2019, 103, 103071.	2.9	13
43	High-Power Dual-End-Pumped Monolithic Tm:YAP Microlaser. Journal of Russian Laser Research, 2019, 40, 382-385.	0.6	1
44	Acousto-optic mode-locked Tm:LuAG laser with nearly diffraction-limited beam. Optical and Quantum Electronics, 2019, 51, 1.	3.3	0
45	Safe trapping of cesium into doping-enhanced pollucite structure by geopolymer precursor technique. Journal of Hazardous Materials, 2019, 367, 577-588.	12.4	43
46	High-Power Continuous-Wave and Acousto-Optical Q-Switched Ho:(Sc0.5Y0.5)2SiO5 Laser Pumped by Laser Diode. Chinese Physics Letters, 2019, 36, 064201.	3.3	2
47	A 2.22-W Passively Q-Switched Tm³⁺-Doped Laser With a TiC₂ Saturable Absorber. IEEE Photonics Journal, 2019, 11, 1-7.	2.0	4
48	Study on long-wave infrared ZnGeP2 subsequent optical parametric amplifiers with different types of phase matching of ZnGeP2 crystals. Applied Physics B: Lasers and Optics, 2019, 125, 1.	2.2	8
49	Passively Q-switched operation of a Tm:YAlO₃ laser with a BN saturable absorber mirror. Laser Physics Letters, 2019, 16, 025801.	1.4	7
50	1104â€‰â€‰mJ, 1â€‰â€‰kHz repetition rate, Ho:YAG master oscillator power amplifier. Applied Optics, 2019, 58, 879.	1.5	5
51	High-beam-quality operation of a 2â€‰â€‰Î¼m passively Q-switched solid-state laser based on a boron nitride saturable absorber. Applied Optics, 2019, 58, 2546.	1.8	9
52	Efficient Ho:(Sc₀₅Y₀₅)₂SiO₅ laser at 21 Âµm in-band pumped by Tm fiber laser. Optics Express, 2019, 27, 4522.	3.4	7
53	Active Q-switching operation of slab Ho:SYSO laser wing-pumped by fiber coupled laser diodes. Optics Express, 2019, 27, 11455.	3.4	20
54	Resonantly pumped high efficiency Ho:GdTaO₄ laser. Optics Express, 2019, 27, 18273.	3.4	9

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55	High efficiency single-longitudinal-mode resonantly-pumped Ho:GdTaO₄ laser at 2068nm. Optics Express, 2019, 27, 34204.	3.4	9
56	Single-longitudinal-mode Ho:YVO4 MOPA system with a passively Q-switched unidirectional ring oscillator. Optics Express, 2019, 27, 34618.	3.4	5
57	High repetition rate 102â€‰â€‰W middle infrared ZnGeP₂ master oscillator power amplifier system with thermal lens compensation. Optics Letters, 2019, 44, 715.	3.3	50
58	Comparison of mid-infrared ZnGeP₂ rectangle ring optical parametric oscillators of three types of resonant regimes. Applied Optics, 2019, 58, 4163.	1.8	4
59	High-repetition-rate laser ultrasonic generation in carbon-fiber-reinforced plastics excited by a 32â€“34â€‰â€‰Î¼m ZGP master oscillator power amplifier system. Applied Optics, 2019, 58, 7655.	1.8	2
60	Resonantly pumped high efficiency Ho:GdTaO4 laser: erratum. Optics Express, 2019, 27, 31362.	3.4	1
61	Singleâ€Phase Mixed Transition Metal Carbonate Encapsulated by Graphene: Facile Synthesis and Improved Lithium Storage Properties. Advanced Functional Materials, 2018, 28, 1705817.	14.9	56
62	Carbonâ€contentâ€dependent phase composition, microstructural evolution, and mechanical properties of Si<scp>BCN</scp> monoliths. Journal of the American Ceramic Society, 2018, 101, 2137-2154.	3.8	3
63	Carbon content-dependent microstructures, surface characteristics and thermal stability of mechanical alloying derived SiBCN powders. Ceramics International, 2018, 44, 3614-3624.	4.8	8
64	Efficient middle-infrared ZGP-OPO pumped by a Q-switched Ho:LuAG laser with the orthogonally polarized pump recycling scheme. Applied Optics, 2018, 57, 8102.	1.8	7
65	Active/passive Q-switching operation of 2â€‰â€‰Î¼m Tm,Ho:YAP laser with an acousto-optical Q-switch/MoS₂ saturable absorber mirror. Photonics Research, 2018, 6, 614.	7.0	61
66	Passive Q-switched operation of an a-cut Tm,Ho:YAP laser with a few-layer WS₂ saturable absorber. Laser Physics Letters, 2018, 15, 085806.	1.4	10
67	Efficient intracavity-pumped Ho:SSO laser with cascaded in-band pumping scheme. Infrared Physics and Technology, 2018, 94, 7-10.	2.9	12
68	Efficient Ho:YAP laser dual end-pumped by a laser diode at 1.91ÂÂµm in a wing-pumping scheme. Applied Physics B: Lasers and Optics, 2018, 124, 1.	2.2	12
69	Wavelength-locked continuous-wave and Q-switched Ho:CaF₂ laser at 21005 nm. Optics Express, 2018, 26, 26916.	3.4	8
70	114 W long-wave infrared source based on ZnGeP₂ optical parametric amplifier. Optics Express, 2018, 26, 30195.	3.4	15
71	231â€‰â€‰W dual-end-pumped Ho:YAG MOPA system and its application to a mid-infrared ZGP OPO. Optics Letters, 2018, 43, 5989.	3.3	35
72	High-efficiency, tunable 8-9 Î¼m BaGa₄Se₇optical parametric oscillator pumped at 21 Î¼m. Optical Materials Express, 2018, 8, 3332.	3.0	33

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73	CdSe optical parametric oscillator operating at 12.07 Âµm with 170 mW output. Optics and Laser Technology, 2017, 92, 1-4.	4.6	16
74	Effects of Na⁺ substitution Cs⁺ on the microstructure and thermal expansion behavior of ceramic derived from geopolymer. Journal of the American Ceramic Society, 2017, 100, 4412-4424.	3.8	8
75	Corrosion behavior and microstructural evolution of <scp>BN</scp>â€“ZrO₂â€“SiC composites in molten steel. International Journal of Applied Ceramic Technology, 2017, 14, 665-674.	2.1	9
76	Effect of the BN content on the thermal shock resistance and properties of BN/SiO₂ composites fabricated from mechanically alloyed SiBON powders. RSC Advances, 2017, 7, 48994-49003.	3.6	18
77	A passively Q-switched Ho:YVO4 Laser at 2.05 Î¼m with Graphene Saturable Absorber. Applied Sciences (Switzerland), 2016, 6, 128.	2.5	14
78	Synthesis of Novel Cobalt-Containing Polysilazane Nanofibers with Fluorescence by Electrospinning. Polymers, 2016, 8, 350.	4.5	8
79	High power, tunable mid-infrared BaGa_4Se_7 optical parametric oscillator pumped by a 21 Î¼m Ho:YAG laser. Optics Express, 2016, 24, 6083.	3.4	57
80	Effects of Li Substitution on the Microstructure and Thermal Expansion Behavior of Pollucite Derived from Geopolymer. Journal of the American Ceramic Society, 2016, 99, 3784-3791.	3.8	9
81	Investigation of a gain-switched Cr2+: ZnSe laser pumped by an acousto-optic Q-switched Ho : YAG laser. Quantum Electronics, 2016, 46, 772-776.	1.0	2
82	Microstructure and erosion resistance of in-situ SiAlON reinforced BN-SiO2 composite ceramics. Journal Wuhan University of Technology, Materials Science Edition, 2016, 31, 315-320.	1.0	7
83	In Situ Processing of Graphene/Leucite Nanocomposite Through Graphene Oxide/Geopolymer. Journal of the American Ceramic Society, 2016, 99, 1164-1173.	3.8	27
84	Influence of sintering pressure on the crystallization and mechanical properties of BN-MAS composite ceramics. Journal of Materials Science, 2016, 51, 2292-2298.	3.7	20
85	Resonantly pumped high power acousto-optical Q-switched Ho:YAG ceramic laser. Optik, 2016, 127, 1595-1598.	2.9	3
86	Highly Dense Amorphous Si₂BC₃N Monoliths with Excellent Mechanical Properties Prepared by High Pressure Sintering. Journal of the American Ceramic Society, 2015, 98, 3782-3787.	3.8	24
87	Crystallization Behavior of Amorphous Si₂BC₃N Ceramic Monolith Subjected to High Pressure. Journal of the American Ceramic Society, 2015, 98, 3788-3796.	3.8	16
88	High power slab Tm:YAP laser dual-end-pumped by fiber coupled laser diodes. Optical and Quantum Electronics, 2015, 47, 1055-1061.	3.3	7
89	Microstructures, mechanical properties and oxidation resistance of SiBCN ceramics with the addition of MgO, ZrO₂ and SiO₂ (MZS) as sintering additives. RSC Advances, 2015, 5, 52194-52205.	3.6	14
90	High-power Cr^2+:ZnS saturable absorber passively Q-switched Ho:YAG ceramic laser and its application to pumping of a mid-IR OPO. Optics Letters, 2015, 40, 348.	3.3	38

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91	High power Ho:YAG laser pumped by two orthogonally polarized Tm:YLF lasers. Optical and Quantum Electronics, 2015, 47, 211-216.	3.3	6
92	A 41-W ZnGeP_2 optical parametric oscillator pumped by a Q-switched Ho:YAG laser. Optics Letters, 2014, 39, 6589.	3.3	67
93	A 52-mJ Ho:YAG Master Oscillator and Power Amplifier with Kilohertz Pulse Repetition Frequency. Chinese Physics Letters, 2014, 31, 094201.	3.3	8
94	High power narrow-linewidth Tm:YLF slab laser with volume Bragg grating and Fabry-Perot etalon. Optical Review, 2014, 21, 775-777.	2.0	2
95	Stable passively Q-switched Ho:LuAG laser with graphene as a saturable absorber. Optical Engineering, 2014, 53, 126112.	1.0	13
96	High-Power in-Band Pumped a-Cut Ho:Yap Laser. Journal of Russian Laser Research, 2014, 35, 239-243.	0.6	5
97	A ring ZnGeP2 optical parametric oscillator pumped by a Ho:LuAG laser. Applied Physics B: Lasers and Optics, 2014, 117, 127-130.	2.2	10
98	103ÂW in-band dual-end-pumped Ho:YAG laser. Optics Letters, 2012, 37, 3558.	3.3	87
99	2130.7 nm, Single-Frequency Q-Switched Operation of Tm,Ho:YAlO$_{3}$ Laser Injection-Seeded by a Microchip Tm,Ho:YAlO$_{3}$ Laser. Applied Physics Express, 2012, 5, 082702.	2.4	5
100	Room temperature efficient actively Q-switched Ho:YAP laser. Optics Express, 2009, 17, 4427.	3.4	37
101	Continuous-wave laser action around 2-Î¼m in Ho^3+:Lu_2SiO_5. Optics Express, 2009, 17, 12582.	3.4	20
102	High efficient actively Q-switched Ho:LuAG laser. Optics Express, 2009, 17, 21691.	3.4	40
103	Continuous-wave and Q-switched operation of a resonantly pumped Ho:YAlO_3 laser. Optics Express, 2008, 16, 14668.	3.4	44
104	Preparation and mechanical performance of SiC w /geopolymer composites through direct ink writing. Journal of the American Ceramic Society, 0, , .	3.8	5