

Xiao-Ming Duan

List of Publications by Year in descending order

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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	103-W in-band dual-end-pumped Ho:YAG laser. Optics Letters, 2012, 37, 3558.	3.3	87
2	Atomically Thin Hexagonal Boron Nitride and Its Heterostructures. Advanced Materials, 2021, 33, e2000769.	21.0	71
3	A 41-W ZnGeP ₂ optical parametric oscillator pumped by a Q-switched Ho:YAG laser. Optics Letters, 2014, 39, 6589.	3.3	67
4	Active/passive Q-switching operation of 2-μm Tm,Ho:YAP laser with an acousto-optical Q-switch/MoS ₂ saturable absorber mirror. Photonics Research, 2018, 6, 614.	7.0	61
5	High power, tunable mid-infrared BaGa ₄ Se ₇ optical parametric oscillator pumped by a 21 μm Ho:YAG laser. Optics Express, 2016, 24, 6083.	3.4	57
6	Single-Phase Mixed Transition Metal Carbonate Encapsulated by Graphene: Facile Synthesis and Improved Lithium Storage Properties. Advanced Functional Materials, 2018, 28, 1705817.	14.9	56
7	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
8	High repetition rate 102-W middle infrared ZnGeP ₂ master oscillator power amplifier system with thermal lens compensation. Optics Letters, 2019, 44, 715.	3.3	50
9	Continuous-wave and Q-switched operation of a resonantly pumped Ho:YAlO ₃ laser. Optics Express, 2008, 16, 14668.	3.4	44
10	Safe trapping of cesium into doping-enhanced pollucite structure by geopolymer precursor technique. Journal of Hazardous Materials, 2019, 367, 577-588.	12.4	43
11	161-W middle infrared ZnGeP ₂ MOPA system pumped by 300-W-class Ho:YAG MOPA system. Optics Letters, 2021, 46, 82.	3.3	41
12	High efficient actively Q-switched Ho:LuAG laser. Optics Express, 2009, 17, 21691.	3.4	40
13	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
14	Room temperature efficient actively Q-switched Ho:YAP laser. Optics Express, 2009, 17, 4427.	3.4	37
15	231-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
16	High-efficiency, tunable 8-9 μm BaGa ₄ Se ₇ optical parametric oscillator pumped at 21 μm. Optical Materials Express, 2018, 8, 3332.	3.0	33
17	Microstructural evolution and mechanical properties of in situ nano Ta ₄ HfC ₅ reinforced SiBCN composite ceramics. Journal of Advanced Ceramics, 2020, 9, 739-748.	17.4	28
18	<i>In Situ</i> Processing of Graphene/Leucite Nanocomposite Through Graphene Oxide/Geopolymer. Journal of the American Ceramic Society, 2016, 99, 1164-1173.	3.8	27

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19	Highly Dense Amorphous Si ₂ BC ₃ N Monoliths with Excellent Mechanical Properties Prepared by High Pressure Sintering. Journal of the American Ceramic Society, 2015, 98, 3782-3787.	3.8	24
20	Immobilization behavior of Sr in geopolymer and its ceramic product. Journal of the American Ceramic Society, 2020, 103, 1372-1384.	3.8	24
21	Solvents adjusted pure phase CoCO ₃ as anodes for high cycle stability. Journal of Advanced Ceramics, 2021, 10, 509-519.	17.4	22
22	Continuous-wave laser action around 2.14 μ m in Ho ³⁺ :Lu ₂ SiO ₅ . Optics Express, 2009, 17, 12582.	3.4	20
23	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
24	Active Q-switching operation of slab Ho:YSO laser wing-pumped by fiber coupled laser diodes. Optics Express, 2019, 27, 11455.	3.4	20
25	Effect of the BN content on the thermal shock resistance and properties of BN/SiO ₂ composites fabricated from mechanically alloyed SiBON powders. RSC Advances, 2017, 7, 48994-49003.	3.6	18
26	High-beam-quality 2.1 μ m pumped mid-infrared type-II phase-matching BaGa ₄ Se ₇ optical parametric oscillator with a ZnGeP ₂ amplifier. Optics Letters, 2020, 45, 3805.	3.3	17
27	570 μ m harmonic mode-locking in an all polarization-maintaining Ho-doped fiber laser. Optics Express, 2020, 28, 33028.	3.4	17
28	Crystallization Behavior of Amorphous Si ₂ BC ₃ N Ceramic Monolith Subjected to High Pressure. Journal of the American Ceramic Society, 2015, 98, 3788-3796.	3.8	16
29	CdSe optical parametric oscillator operating at 12.07 μ m with 170 mW output. Optics and Laser Technology, 2017, 92, 1-4.	4.6	16
30	3.5 μ W long-wave infrared ZnGeP ₂ optical parametric oscillator at 9.8 μ m. Optics Letters, 2020, 45, 2347.	3.3	16
31	Research on performance improvement technology of a BaGa ₄ Se ₇ mid-infrared optical parametric oscillator. Optics Letters, 2020, 45, 6418.	3.3	16
32	114 W long-wave infrared source based on ZnGeP ₂ optical parametric amplifier. Optics Express, 2018, 26, 30195.	3.4	15
33	Microstructures, mechanical properties and oxidation resistance of SiBCN ceramics with the addition of MgO, ZrO ₂ and SiO ₂ (MZS) as sintering additives. RSC Advances, 2015, 5, 52194-52205.	3.6	14
34	A passively Q-switched Ho:YVO ₄ Laser at 2.05 μ m with Graphene Saturable Absorber. Applied Sciences (Switzerland), 2016, 6, 128.	2.5	14
35	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
36	Stable passively Q-switched Ho:LuAG laser with graphene as a saturable absorber. Optical Engineering, 2014, 53, 126112.	1.0	13

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37	A passively Q-switching of diode-pumped 2.08- μm Ho:CaF ₂ laser. Infrared Physics and Technology, 2019, 103, 103071.	2.9	13
38	Efficient intracavity-pumped Ho:SSO laser with cascaded in-band pumping scheme. Infrared Physics and Technology, 2018, 94, 7-10.	2.9	12
39	Efficient Ho:YAP laser dual end-pumped by a laser diode at 1.91 μm in a wing-pumping scheme. Applied Physics B: Lasers and Optics, 2018, 124, 1.	2.2	12
40	A high-beam-quality passively Q-switched 2 μm solid-state laser with a WSe ₂ saturable absorber. Optics and Laser Technology, 2020, 125, 105960.	4.6	12
41	10.1 μW , 10.1 μm , CdSe optical parametric oscillator with continuous-wave seed injection. Optics Letters, 2020, 45, 2119.	3.3	11
42	A ring ZnGeP ₂ optical parametric oscillator pumped by a Ho:LuAG laser. Applied Physics B: Lasers and Optics, 2014, 117, 127-130.	2.2	10
43	Passive Q-switched operation of an <i>a</i> -cut Tm,Ho:YAP laser with a few-layer WS ₂ saturable absorber. Laser Physics Letters, 2018, 15, 085806.	1.4	10
44	From bulk to porous structures: Tailoring monoclinic SrAl ₂ Si ₂ O ₈ ceramic by geopolymer precursor technique. Journal of the American Ceramic Society, 2020, 103, 4957-4968.	3.8	10
45	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
46	Corrosion behavior and microstructural evolution of $\text{BN}/\text{ZrO}_2/\text{SiC}$ composites in molten steel. International Journal of Applied Ceramic Technology, 2017, 14, 665-674.	2.1	9
47	High-power actively Q-switched Ho-doped gadolinium tantalate laser. Optics Express, 2021, 29, 12471.	3.4	9
48	High-beam-quality operation of a 2 μm passively Q-switched solid-state laser based on a boron nitride saturable absorber. Applied Optics, 2019, 58, 2546.	1.8	9
49	Resonantly pumped high efficiency Ho:GdTaO ₄ laser. Optics Express, 2019, 27, 18273.	3.4	9
50	High efficiency single-longitudinal-mode resonantly-pumped Ho:GdTaO ₄ laser at 2068nm. Optics Express, 2019, 27, 34204.	3.4	9
51	11 μm , high beam quality idler-resonant CdSe optical parametric oscillator with continuous-wave injection-seeded at 2.58 μm . Optics Express, 2020, 28, 17056.	3.4	9
52	A 52-mJ Ho:YAG Master Oscillator and Power Amplifier with Kilohertz Pulse Repetition Frequency. Chinese Physics Letters, 2014, 31, 094201.	3.3	8
53	Synthesis of Novel Cobalt-Containing Polysilazane Nanofibers with Fluorescence by Electrospinning. Polymers, 2016, 8, 350.	4.5	8
54	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

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55	Carbon content-dependent microstructures, surface characteristics and thermal stability of mechanical alloying derived SiBCN powders. <i>Ceramics International</i> , 2018, 44, 3614-3624.	4.8	8
56	Study on long-wave infrared ZnGeP ₂ subsequent optical parametric amplifiers with different types of phase matching of ZnGeP ₂ crystals. <i>Applied Physics B: Lasers and Optics</i> , 2019, 125, 1.	2.2	8
57	Wavelength-locked continuous-wave and Q-switched Ho:CaF ₂ laser at 21005 nm. <i>Optics Express</i> , 2018, 26, 26916.	3.4	8
58	Growth, spectra and continuous-wave 2.1 μ m laser operation of a Ho ³⁺ -doped bismuth silicate crystal. <i>CrystEngComm</i> , 2022, 24, 1590-1597.	2.6	8
59	High power slab Tm:YAP laser dual-end-pumped by fiber coupled laser diodes. <i>Optical and Quantum Electronics</i> , 2015, 47, 1055-1061.	3.3	7
60	Microstructure and erosion resistance of in-situ SiAlON reinforced BN-SiO ₂ composite ceramics. <i>Journal Wuhan University of Technology, Materials Science Edition</i> , 2016, 31, 315-320.	1.0	7
61	Efficient middle-infrared ZGP-OPO pumped by a Q-switched Ho:LuAG laser with the orthogonally polarized pump recycling scheme. <i>Applied Optics</i> , 2018, 57, 8102.	1.8	7
62	Passively Q-switched operation of a Tm:YAlO ₃ laser with a BN saturable absorber mirror. <i>Laser Physics Letters</i> , 2019, 16, 025801.	1.4	7
63	Thermal lens effect and laser characteristics of Ho:YAG ceramic laser with a concave-convex cavity. <i>Optik</i> , 2020, 221, 165307.	2.9	7
64	Effects of Zr and chopped C fiber on microstructure and mechanical properties of SiBCN ceramics. <i>Science China Technological Sciences</i> , 2020, 63, 1520-1530.	4.0	7
65	Efficient Ho:(Sc _{0.05} Y _{0.05}) ₂ SiO ₅ laser at 21 μ m in-band pumped by Tm fiber laser. <i>Optics Express</i> , 2019, 27, 4522.	3.4	7
66	Continuously tunable high-power single-longitudinal-mode Ho:YLF laser around the P12 CO ₂ absorption line. <i>Optics Letters</i> , 2020, 45, 6691.	3.3	7
67	Hardness and toughness improvement of SiC-based ceramics with the addition of (Hf _{0.2} Mo _{0.2} Ta _{0.2} Nb _{0.2} Ti _{0.2})B ₂ . <i>Journal of the American Ceramic Society</i> , 2022, 105, 1629-1634.	3.8	7
68	High power Ho:YAG laser pumped by two orthogonally polarized Tm:YLF lasers. <i>Optical and Quantum Electronics</i> , 2015, 47, 211-216.	3.3	6
69	Geopolymer-Encapsulated Cesium Lead Bromide Perovskite Nanocrystals for Potential Display Applications. <i>ACS Applied Nano Materials</i> , 2020, 3, 11695-11700.	5.0	6
70	Passively Q-switched Tm:YAP laser with a lead zirconate titanate saturable absorber. <i>Applied Optics</i> , 2021, 60, 8097.	1.8	6
71	Thermal-birefringence-induced depolarization in a 450 W Ho:YAG MOPA system. <i>Optics Express</i> , 2022, 30, 21501.	3.4	6
72	2130.7 nm, Single-Frequency Q-Switched Operation of Tm,Ho:YAlO ₃ Laser Injection-Seeded by a Microchip Tm,Ho:YAlO ₃ Laser. <i>Applied Physics Express</i> , 2012, 5, 082702.	2.4	5

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73	High-Power in-Band Pumped a-Cut Ho:Yap Laser. Journal of Russian Laser Research, 2014, 35, 239-243.	0.6	5
74	A 2 μ m Single-Longitudinal-Mode Ho:GdVO ₄ CW Laser. Journal of Russian Laser Research, 2021, 42, 355.	0.6	5
75	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
76	Tm ³⁺ : Bi ₄ Si ₃ O ₁₂ crystal as a promising laser material near 2 μ m: growth, spectroscopic properties and laser performance. Optics Express, 2021, 29, 29138.	3.4	5
77	Watt-level long-wave infrared CdSe pulsed-nanosecond optical parametric oscillator. Optics and Laser Technology, 2022, 145, 107491.	4.6	5
78	Measurement of optical homogeneity of ZnGeP ₂ crystal using a 2.02 μ m single-longitudinal-mode Tm:LuAG ring laser. Applied Optics, 2020, 59, 5864.	1.8	5
79	1104 mJ, 1 kHz repetition rate, Ho:YAG master oscillator power amplifier. Applied Optics, 2019, 58, 879.	1.58	5
80	Single-longitudinal-mode Ho:YVO ₄ MOPA system with a passively Q-switched unidirectional ring oscillator. Optics Express, 2019, 27, 34618.	3.4	5
81	Preparation and mechanical performance of SiC w /geopolymer composites through direct ink writing. Journal of the American Ceramic Society, 0, , .	3.8	5
82	Influence of sintering temperature on the crystallization and mechanical properties of BN ϵ MAS composites. Journal of the American Ceramic Society, 2022, 105, 3590-3600.	3.8	5
83	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
84	113 W Ho:YLF oscillator with good beam quality efficiently pumped by a Tm:YAP laser. Applied Optics, 2022, 61, 5755.	1.8	5
85	A 2.22-W Passively Q-Switched Tm ³⁺ -Doped Laser With a TiC ₂ Saturable Absorber. IEEE Photonics Journal, 2019, 11, 1-7.	2.0	4
86	Comparison of mid-infrared ZnGeP ₂ rectangle ring optical parametric oscillators of three types of resonant regimes. Applied Optics, 2019, 58, 4163.	1.8	4
87	1 kHz, 1.5 MW peak power pulse generation from an acousto-optically Q-switched Ho:GdVO ₄ oscillator. Optics and Laser Technology, 2022, 152, 108114.	4.6	4
88	A Mid-Infrared Rectangle Ring OPO Pumped by an Actively/Passively Q-Switched 2.09 μ m Polycrystalline Laser. Journal of Russian Laser Research, 2022, 43, 224-228.	0.6	4
89	Resonantly pumped high power acousto-optical Q-switched Ho:YAG ceramic laser. Optik, 2016, 127, 1595-1598.	2.9	3
90	Carbon ϵ content ϵ dependent phase composition, microstructural evolution, and mechanical properties of Si ₃ BCN monoliths. Journal of the American Ceramic Society, 2018, 101, 2137-2154.	3.8	3

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91	High power passively Q-switched Tm:Lu:YLF laser based on boron nitride. Optics and Laser Technology, 2020, 123, 105795.	4.6	3
92	Microstructure and Hydrophobic Properties of Nano-Cu-Coated Wood-Based Composites by Ultrasonic Pretreatment. Applied Sciences (Switzerland), 2020, 10, 5448.	2.5	3
93	Broadband second-harmonic and sum-frequency generation with a long-wave infrared laser in AgGaGe ₅ Se ₁₂ . Applied Optics, 2020, 59, 5247.	1.8	3
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	Investigation of a gain-switched Cr ²⁺ : ZnSe laser pumped by an acousto-optic Q-switched Ho : YAG laser. Quantum Electronics, 2016, 46, 772-776.	1.0	2
96	High-Power Continuous-Wave and Acousto-Optical Q-Switched Ho:(Sc _{0.5} Y _{0.5}) ₂ SiO ₅ Laser Pumped by Laser Diode. Chinese Physics Letters, 2019, 36, 064201.	3.3	2
97	Tunable twisted-mode Ho:YAG laser at continuous-wave and pulsed operation. Optics Express, 2020, 28, 31775.	3.4	2
98	High-repetition-rate laser ultrasonic generation in carbon-fiber-reinforced plastics excited by a 32-μm ZGP master oscillator power amplifier system. Applied Optics, 2019, 58, 7655.	1.8	2
99	11.6 W middle infrared ZnGeP ₂ optical parametric amplifier system with a 1 kHz repetition rate. Laser Physics, 2020, 30, 095001.	1.2	2
100	High-Power Dual-End-Pumped Monolithic Tm:YAP Microlaser. Journal of Russian Laser Research, 2019, 40, 382-385.	0.6	1
101	Tunable single-longitudinal-mode resonantly-pumped Ho:YAP unidirectional ring laser. Optical and Quantum Electronics, 2021, 53, 1.	3.3	1
102	Resonantly pumped high efficiency Ho:GdTaO ₄ laser: erratum. Optics Express, 2019, 27, 31362.	3.4	1
103	Acousto-optic mode-locked Tm:LuAG laser with nearly diffraction-limited beam. Optical and Quantum Electronics, 2019, 51, 1.	3.3	0
104	Editorial for the Special Issue on "Advances in Middle Infrared Laser Crystals and Its Applications". Crystals, 2022, 12, 643.	2.2	0