

# Yaguo Li

## List of Publications by Year in descending order

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47  
papers

701  
citations

567281

15  
h-index

580821

25  
g-index

48  
all docs

48  
docs citations

48  
times ranked

329  
citing authors

#	ARTICLE	IF	CITATIONS
1	Effect of scratches on the damage characteristics of fused silica optics under extremely-high impact load. International Journal of Mechanical Sciences, 2022, 219, 107099.	6.7	9
2	Elimination of X-rays irradiated defects in fused silica by laser conditioning. Optics Communications, 2021, 483, 126639.	2.1	1
3	Broadband absorption coating for large-curvature surfaces by atomic layer deposition. Applied Optics, 2021, 60, 5759.	1.8	1
4	Formation mechanism of bubbles in the crack healing process of fused silica using a CO <sub>2</sub> laser. Optics Express, 2021, 29, 32089.	3.4	5
5	Investigation on the influence of the CO <sub>2</sub> laser parameters on the defect healing process of fused silica. , 2021, , .		0
6	Modeling and analysis of surface roughness in fused silica by CO <sub>2</sub> laser smoothing. , 2021, , .		0
7	Effects of Wet Chemical Etching on Scratch Morphology and Laser Damage Resistance of Fused Silica. Silicon, 2020, 12, 425-432.	3.3	7
8	Investigation of the formation mechanism of the fluorocarbon film in CF <sub>4</sub> plasma processing of fused silica. Optik, 2020, 202, 163693.	2.9	2
9	Plasma-based isotropic etching polishing of synthetic quartz. Journal of Manufacturing Processes, 2020, 60, 447-456.	5.9	8
10	Top-hat and Gaussian laser beam smoothing of ground fused silica surface. Optics and Laser Technology, 2020, 127, 106141.	4.6	16
11	Effect of laser pulse duration and fluence on DKDP crystal laser conditioning. Applied Optics, 2020, 59, 5240.	1.8	5
12	Ultraviolet laser damage properties of single-layer SiO <sub>2</sub> film grown by atomic layer deposition. Optical Materials Express, 2020, 10, 1981.	3.0	7
13	Resistance of Scratched Fused Silica Surface to UV Laser Induced Damage. Scientific Reports, 2019, 9, 10741.	3.3	22
14	The early transient dynamics reaction of KDP surface during nanosecond laser breakdown. AIP Advances, 2019, 9, .	1.3	7
15	Threshold fluences for conditioning, fatigue and damage effects of DKDP crystals. Optical Materials, 2019, 91, 199-204.	3.6	4
16	Proposal of a tilted helical milling technique for high-quality hole drilling of CFRP: analysis of hole surface finish. International Journal of Advanced Manufacturing Technology, 2019, 101, 1041-1049.	3.0	24
17	Study on IR laser smoothing of ground surface on fused silica. , 2019, , .		1
18	Broadband terahertz antireflective microstructures on quartz crystal surface by CO <sub>2</sub> laser micro-processing. Optics Express, 2019, 27, 18351.	3.4	5

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19	Laser plasma-induced damage characteristics of Ta <sub>2</sub> O <sub>5</sub> films. Optical Materials Express, 2019, 9, 3132.	3.0	16
20	Ultrasonic-assisted wet chemical etching of fused silica for high-power laser systems. International Journal of Applied Glass Science, 2018, 9, 288-295.	2.0	13
21	Study of morphological feature and mechanism of potassium dihydrogen phosphate surface damage under a 351-nm nanosecond laser. Applied Optics, 2018, 57, 10334.	1.8	10
22	Laser-induced damage characteristics in fused silica surface due to mechanical and chemical defects during manufacturing processes. Optics and Laser Technology, 2017, 91, 149-158.	4.6	39
23	The characteristics of Ta <sub>2</sub> O <sub>5</sub> films deposited by radio frequency pure oxygen ion assisted deposition (RFOIAD) technology. Journal of Applied Physics, 2017, 121, .	2.5	3
24	1.6 Precision Grinding, Lapping, Polishing, and Post-Processing of Optical Glass. , 2017, , 154-170.		22
25	Laser induced damage due to scratches in the surface of nonlinear optical crystals KH <sub>2</sub> PO <sub>4</sub> (KDP). Journal of the European Optical Society-Rapid Publications, 2017, 13, .	1.9	9
26	Post-processing of fused silica and its effects on damage resistance to nanosecond pulsed UV lasers. Applied Optics, 2016, 55, 3017.	2.1	27
27	Generation of Scratches and Their Effects on Laser Damage Performance of Silica Glass. Scientific Reports, 2016, 6, 34818.	3.3	23
28	The ablation of Ta <sub>2</sub> O <sub>5</sub> film by pulsed nanosecond Gaussian laser beams. Optik, 2015, 126, 2327-2330.	2.9	8
29	Recent progress in bound-abrasive polishing of fused silica glass. Proceedings of SPIE, 2015, , .	0.8	4
30	Producing fused silica optics with high UV-damage resistance to nanosecond pulsed lasers. Proceedings of SPIE, 2015, , .	0.8	13
31	Improving UV laser damage threshold of fused silica optics by wet chemical etching technique. Proceedings of SPIE, 2015, , .	0.8	8
32	Laser induced damage characteristics of fused silica optics treated by wet chemical processes. Applied Surface Science, 2015, 357, 498-505.	6.1	31
33	Vibration-assisted dry polishing of fused silica using a fixed-abrasive polisher. International Journal of Machine Tools and Manufacture, 2014, 77, 93-102.	13.4	67
34	Function of liquid and tool wear in ultrasonic bound-abrasive polishing of fused silica with different polishing tools. Optik, 2014, 125, 4064-4068.	2.9	22
35	On the mechanism of multi-pulses induced damage in dielectrics. Optik, 2013, 124, 1528-1531.	2.9	4
36	Image processing identification of laser damage induced by ns-pulsed lasers. Optik, 2013, 124, 1940-1942.	2.9	2

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37	Tentative investigation towards precision polishing of optical components with ultrasonically vibrating bound-abrasive pellets. Optics Express, 2012, 20, 568.	3.4	28
38	Hybrid polishing of fused silica glass with bound-abrasive polishers in conjunction with vibration. , 2012, , .		2
39	Precision manufacturing of fused silica glass by combining bound-abrasive polishing with ultrasonic vibration. Proceedings of SPIE, 2012, , .	0.8	2
40	Chemo-mechanical manufacturing of fused silica by combining ultrasonic vibration with fixed-abrasive pellets. International Journal of Precision Engineering and Manufacturing, 2012, 13, 2163-2172.	2.2	17
41	Morphology and distribution of subsurface damage in optical fused silica parts: Bound-abrasive grinding. Applied Surface Science, 2011, 257, 2066-2073.	6.1	81
42	Energy transmissivity of high-power nanosecond laser pulse focused on glass. Optik, 2010, 121, 2213-2216.	2.9	6
43	Phase explosion induced by high-repetition rate pulsed laser. Applied Surface Science, 2010, 256, 6649-6654.	6.1	19
44	The Surface Layer of Fused Silica Finished by Various Polishing Techniques. , 2010, , .		2
45	A method for evaluating subsurface damage in optical glass. Optics Express, 2010, 18, 17180.	3.4	43
46	Surface characteristics of an optical component manufactured with a polyurethane lap. Applied Optics, 2009, 48, 737.	2.1	12
47	The characteristics of optics polished with a polyurethane pad. Optics Express, 2008, 16, 10285.	3.4	43