

# Chen Mingjun

## List of Publications by Year in descending order

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25  
papers

266  
citations

933447

10  
h-index

940533

16  
g-index

25  
all docs

25  
docs citations

25  
times ranked

354  
citing authors

#	ARTICLE	IF	CITATIONS
1	A DFT study of water adsorption on rutile TiO <sub>2</sub> (110) surface: The effects of surface steps. Journal of Chemical Physics, 2016, 145, 044702.	3.0	43
2	Effect of surface roughness on the initial response of MC3T3-E1 cells cultured on polished titanium alloy. Bio-Medical Materials and Engineering, 2015, 26, S155-S164.	0.6	38
3	Effect of tool inclination on surface quality of KDP crystal processed by micro ball-end milling. International Journal of Advanced Manufacturing Technology, 2018, 99, 2777-2788.	3.0	24
4	Dynamic behavior modeling of laser-induced damage initiated by surface defects on KDP crystals under nanosecond laser irradiation. Scientific Reports, 2020, 10, 500.	3.3	22
5	Determination of intrinsic defects of functional KDP crystals with flawed surfaces and their effect on the optical properties. Nanoscale, 2022, 14, 10041-10050.	5.6	18
6	Quantitative imaging of printed circuit board (PCB) delamination defects using laser-induced ultrasound scanning imaging. Journal of Applied Physics, 2022, 131, .	2.5	16
7	Determination of ultra-short laser induced damage threshold of KH <sub>2</sub> PO <sub>4</sub> crystal: Numerical calculation and experimental verification. AIP Advances, 2016, 6, 035221.	1.3	14
8	Molecular dynamics simulations of collagen adsorption onto grooved rutile surface: The effects of groove width. Colloids and Surfaces B: Biointerfaces, 2014, 121, 150-157.	5.0	13
9	Rapid CO <sub>2</sub> laser processing technique for fabrication of micro-optics and micro-structures on fused silica materials. Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture, 2022, 236, 100-110.	2.4	13
10	Optimization of Thermal-Wave Radar Thermography by Transverse Heat Flow Suppression Technique for Accurate Defect Detection of CFRP Laminates. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-10.	4.7	13
11	Molecular mechanics of the cooperative adsorption of a Pro-Hyp-Gly tripeptide on a hydroxylated rutile TiO <sub>2</sub> (110) surface mediated by calcium ions. Physical Chemistry Chemical Physics, 2016, 18, 19757-19764.	2.8	11
12	Molecular Investigation of the Initial Nucleation of Calcium Phosphate on TiO <sub>2</sub> Substrate: The Effects of Surface Nanotopographies. Crystal Growth and Design, 2018, 18, 3283-3290.	3.0	10
13	Model Development for Nanosecond Laser-Induced Damage Caused by Manufacturing-Induced Defects on Potassium Dihydrogen Phosphate Crystals. ACS Omega, 2020, 5, 19884-19895.	3.5	6
14	Molecular Dynamics Simulation of Elliptical Vibration Cutting. , 2006, , .		4
15	Potential damage threats to downstream optics caused by Gaussian mitigation pits on rear KDP surface. High Power Laser Science and Engineering, 2020, 8, .	4.6	4
16	Machine-learning-assisted microstructure-property linkages of carbon nanotube-reinforced aluminum matrix nanocomposites produced by laser powder bed fusion. Nanotechnology Reviews, 2021, 10, 1410-1424.	5.8	4
17	Surface hydrophobicity and oleophilicity of hierarchical metal structures fabricated using ink-based selective laser melting of micro/nanoparticles. Nanotechnology Reviews, 2020, 9, 626-636.	5.8	4
18	Estimation of the convolutional neural network with attention mechanism and transfer learning on wood knot defect classification. Journal of Applied Physics, 2022, 131, .	2.5	3

#	ARTICLE	IF	CITATIONS
19	Simulations and Experimental Study of Individual Au Nanoparticle Using Photothermal Heterodyne Imaging (PHI). IEEE Transactions on Instrumentation and Measurement, 2022, 71, 1-6.	4.7	2
20	A Novel Subpixel Size Calibration Method for the Size Detection of Microtarget on Large-Aperture Optics Surface. IEEE Transactions on Instrumentation and Measurement, 2022, 71, 1-10.	4.7	1
21	Quantification of the Microrheology of Living Cells Using Multi-Frequency Magnetic Force Modulation Atomic Force Microscopy. IEEE Transactions on Instrumentation and Measurement, 2022, 71, 1-9.	4.7	1
22	Repaired morphology of CO2 laser rapid ablation mitigation of fused silica and its influence on downstream light modulation. Science China Technological Sciences, 2022, 65, 1116-1126.	4.0	1
23	Phase shifting profilometry based on Hilbert transform: An efficient phase unwrapping algorithm. Journal of Applied Physics, 2022, 131, .	2.5	1
24	Reliability Modelling Method of Computerized Numerical Control Machine Tools Based on the Improved Posterior Distribution. , 2019, , .		0
25	Exploration on the Development of Engineering Practice Teaching Ability for Young Teachers in Professional Education. , 2021, , .		0