

# Jiâ€an Duan

## List of Publications by Year in descending order

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133  
papers

3,165  
citations

201385

27  
h-index

182168

51  
g-index

133  
all docs

133  
docs citations

133  
times ranked

2173  
citing authors

#	ARTICLE	IF	CITATIONS
1	Femtosecond laser induced robust periodic nanoripple structured mesh for highly efficient oil-water separation. <i>Nanoscale</i> , 2017, 9, 14229-14235.	2.8	305
2	A simple way to achieve bioinspired hybrid wettability surface with micro/nanopatterns for efficient fog collection. <i>Nanoscale</i> , 2017, 9, 14620-14626.	2.8	259
3	Solar-driven thermal-wind synergistic effect on laser-textured superhydrophilic copper foam architectures for ultrahigh efficient vapor generation. <i>Applied Physics Letters</i> , 2021, 118, .	1.5	123
4	Recent advances in femtosecond laser-structured Janus membranes with asymmetric surface wettability. <i>Nanoscale</i> , 2021, 13, 2209-2226.	2.8	120
5	Ultrafast Achievement of a Superhydrophilic/Hydrophobic Janus Foam by Femtosecond Laser Ablation for Directional Water Transport and Efficient Fog Harvesting. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 31433-31440.	4.0	104
6	Ultrafast nano-structuring of superwetting Ti foam with robust antifouling and stability towards efficient oil-in-water emulsion separation. <i>Nanoscale</i> , 2019, 11, 17607-17614.	2.8	104
7	Robust laser-structured asymmetrical PTFE mesh for underwater directional transportation and continuous collection of gas bubbles. <i>Applied Physics Letters</i> , 2018, 112, .	1.5	99
8	Under-oil self-driven and directional transport of water on a femtosecond laser-processed superhydrophilic geometry-gradient structure. <i>Nanoscale</i> , 2020, 12, 4077-4084.	2.8	90
9	Robust Hierarchical Porous PTFE Film Fabricated via Femtosecond Laser for Self-Cleaning Passive Cooling. <i>Nano Letters</i> , 2021, 21, 4209-4216.	4.5	77
10	A hierarchical superaerophilic cone: Robust spontaneous and directional transport of gas bubbles. <i>Applied Physics Letters</i> , 2018, 113, .	1.5	76
11	Femtosecond laser structuring of Janus foam: Water spontaneous antigravity unidirectional penetration and pumping. <i>Applied Physics Letters</i> , 2018, 113, .	1.5	65
12	Highly sensitive refractive index fiber inline Mach-Zehnder interferometer fabricated by femtosecond laser micromachining and chemical etching. <i>Optics and Laser Technology</i> , 2016, 77, 11-15.	2.2	57
13	Microstructural characteristics of Au/Al bonded interfaces. <i>Materials Characterization</i> , 2007, 58, 103-107.	1.9	56
14	A Novel High-Speed Jet Dispenser Driven by Double Piezoelectric Stacks. <i>IEEE Transactions on Industrial Electronics</i> , 2017, 64, 412-419.	5.2	52
15	Femtosecond laser fabrication of shape-gradient platform: Underwater bubbles continuous self-driven and unidirectional transportation. <i>Applied Surface Science</i> , 2019, 471, 999-1004.	3.1	51
16	Laser Fabrication of Bioinspired Gradient Surfaces for Wettability Applications. <i>Advanced Materials Interfaces</i> , 2021, 8, 2001610.	1.9	48
17	Advances in Laser Drilling of Structural Ceramics. <i>Nanomaterials</i> , 2022, 12, 230.	1.9	48
18	Structural Design and Control of a Small-MRF Damper Under 50 N Soft-Landing Applications. <i>IEEE Transactions on Industrial Informatics</i> , 2015, 11, 612-619.	7.2	47

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19	Formation of superwetting surface with line-patterned nanostructure on sapphire induced by femtosecond laser. <i>Applied Physics A: Materials Science and Processing</i> , 2015, 119, 69-74.	1.1	45
20	A robust high refractive index sensitivity fiber Mach-Zehnder interferometer fabricated by femtosecond laser machining and chemical etching. <i>Sensors and Actuators A: Physical</i> , 2015, 230, 111-116.	2.0	44
21	Tailoring micro/nanostructured porous polytetrafluoroethylene surfaces for dual-reversible transition of wettability and transmittance. <i>Chemical Engineering Journal</i> , 2022, 434, 134756.	6.6	43
22	Femtosecond laser induced robust Ti foam based evaporator for efficient solar desalination. <i>Journal of Materials Chemistry A</i> , 2019, 7, 8361-8367.	5.2	42
23	A Novel Strain Sensor with Large Measurement Range Based on All Fiber Mach-Zehnder Interferometer. <i>Sensors</i> , 2018, 18, 1549.	2.1	40
24	A new geometric error modeling approach for multi-axis system based on stream of variation theory. <i>International Journal of Machine Tools and Manufacture</i> , 2015, 92, 41-51.	6.2	39
25	A systematic approach on analyzing the relationship between straightness & angular errors and guideway surface in precise linear stage. <i>International Journal of Machine Tools and Manufacture</i> , 2017, 120, 12-19.	6.2	39
26	Superamphiphobic Surfaces with Controllable Adhesion Fabricated by Femtosecond Laser Bessel Beam on PTFE. <i>Advanced Materials Interfaces</i> , 2019, 6, 1900550.	1.9	38
27	Broadband and wide-angle antireflective subwavelength microstructures on zinc sulfide fabricated by femtosecond laser parallel multi-beam. <i>Optics Express</i> , 2018, 26, 34016.	1.7	31
28	Multifunctional micro/nano-patterned PTFE near-superamphiphobic surfaces achieved by a femtosecond laser. <i>Surface and Coatings Technology</i> , 2018, 345, 53-60.	2.2	26
29	Effects of TiC addition on microstructure, microhardness and wear resistance of 18Ni300 maraging steel by direct laser deposition. <i>Journal of Materials Processing Technology</i> , 2021, 296, 117213.	3.1	26
30	Femtosecond laser-induced periodic surface structural formation on sapphire with nanolayered gold coating. <i>Applied Physics A: Materials Science and Processing</i> , 2016, 122, 1.	1.1	25
31	Design and Analysis of a High Acceleration Rotary-Linear Voice Coil Motor. <i>IEEE Transactions on Magnetics</i> , 2017, 53, 1-9.	1.2	25
32	Research on Permanent Magnet Linear Synchronous Motors With Ring Windings for Electromagnetic Launch System. <i>IEEE Transactions on Plasma Science</i> , 2017, 45, 1161-1167.	0.6	25
33	Simultaneous Strain and Temperature Sensor Based on a Fiber Mach-Zehnder Interferometer Coated with Pt by Iron Sputtering Technology. <i>Materials</i> , 2018, 11, 1535.	1.3	25
34	The Study on Mechanical Strength of Titanium-Aluminum Dissimilar Butt Joints by Laser Welding-Brazing Process. <i>Materials</i> , 2019, 12, 712.	1.3	25
35	Spatial light modulated femtosecond laser ablated durable superhydrophobic copper mesh for oil-water separation and self-cleaning. <i>Surface and Coatings Technology</i> , 2020, 402, 126254.	2.2	25
36	Electromagnetic Design of a Novel Linear Maglev Transportation Platform With Finite-Element Analysis. <i>IEEE Transactions on Magnetics</i> , 2011, 47, 260-263.	1.2	24

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37	Flow Channel Influence of a Collision-Based Piezoelectric Jetting Dispenser on Jet Performance. <i>Sensors</i> , 2018, 18, 1270.	2.1	23
38	Enhancement of the Conductivity and Uniformity of Silver Nanowire Flexible Transparent Conductive Films by Femtosecond Laser-Induced Nanowelding. <i>Nanomaterials</i> , 2019, 9, 673.	1.9	23
39	Review of the technology of a single mode fiber coupling to a laser diode. <i>Optical Fiber Technology</i> , 2020, 55, 102097.	1.4	23
40	Highly Sensitive Strain Sensor Based on a Novel Mach-Zehnder Interferometer with TCF-PCF Structure. <i>Sensors</i> , 2018, 18, 278.	2.1	22
41	Improved thermal characteristics of a novel magnetostrictive jet dispenser using water-cooling approach. <i>Applied Thermal Engineering</i> , 2017, 112, 1-6.	3.0	21
42	Adjustable annular rings of periodic surface structures induced by spatially shaped femtosecond laser. <i>Laser Physics Letters</i> , 2015, 12, 056001.	0.6	20
43	Microcavity Mach-Zehnder Interferometer Sensors for Refractive Index Sensing. <i>IEEE Photonics Technology Letters</i> , 2016, 28, 2285-2288.	1.3	20
44	Highly sensitive refractive index sensor based on novel Mach-Zehnder interferometer with multimode fiber-thin core fiber-multimode fiber structure. <i>Japanese Journal of Applied Physics</i> , 2018, 57, 092501.	0.8	20
45	Enhanced light extraction of light-emitting diodes with micro patterns by femtosecond laser micromachining for visible light communication. <i>Optics Letters</i> , 2020, 45, 6707.	1.7	20
46	Adaptive control using interval Type-2 fuzzy logic for uncertain nonlinear systems. <i>Journal of Central South University</i> , 2011, 18, 760-766.	1.2	19
47	Coupling efficiency between ball lens capped laser diode chip and single mode fiber. <i>Optik</i> , 2018, 157, 497-502.	1.4	18
48	Effect of double-pulse-laser polarization and time delay on laser-assisted etching of fused silica. <i>Journal Physics D: Applied Physics</i> , 2017, 50, 465306.	1.3	17
49	Substrate-independent, switchable bubble wettability surfaces induced by ultrasonic treatment. <i>Soft Matter</i> , 2019, 15, 7398-7403.	1.2	17
50	Levitation mechanism modelling for maglev transportation system. <i>Central South University</i> , 2010, 17, 1230-1237.	0.5	16
51	Improvement of rear damage of thin fused silica by liquid-assisted femtosecond laser cutting. <i>Applied Physics A: Materials Science and Processing</i> , 2019, 125, 1.	1.1	16
52	Investigation on Eigenfrequency of a Cylindrical Shell Resonator under Resonator-Top Trimming Methods. <i>Sensors</i> , 2017, 17, 2011.	2.1	15
53	Study on laser/DP-MIG hybrid welding-brazing of aluminum to Al-Si coated boron steel. <i>Journal of Manufacturing Processes</i> , 2021, 64, 333-340.	2.8	15
54	Welding of glasses in optical and partial-optical contact via focal position adjustment of femtosecond-laser pulses at moderately high repetition rate. <i>Applied Physics A: Materials Science and Processing</i> , 2017, 123, 1.	1.1	14

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55	Simultaneous Curvature and Temperature Sensing Based on a Novel Mach-Zehnder Interferometer. <i>Photonic Sensors</i> , 2020, 10, 171-180.	2.5	14
56	Alignment algorithms for planar optical waveguides. <i>Optical Engineering</i> , 2012, 51, 103401-1.	0.5	13
57	Giant magnetostrictive material based jetting dispenser. <i>Optik</i> , 2015, 126, 5859-5860.	1.4	13
58	Design of the footprints of uncertainty for a class of typical interval type-2 fuzzy PI and PD controllers. <i>ISA Transactions</i> , 2021, 108, 1-9.	3.1	13
59	A novel levitation control strategy for a class of redundant actuation maglev system. <i>Control Engineering Practice</i> , 2011, 19, 1468-1478.	3.2	12
60	Chemical etching mechanism and properties of microstructures in sapphire modified by femtosecond laser. <i>Applied Physics A: Materials Science and Processing</i> , 2017, 123, 1.	1.1	12
61	Design of 4-channel AWG Multiplexer/demultiplexer for CWDM system. <i>Optik</i> , 2020, 201, 163513.	1.4	12
62	Regulated Kalman filter based training of an interval type-2 fuzzy system and its evaluation. <i>Engineering Applications of Artificial Intelligence</i> , 2020, 95, 103867.	4.3	12
63	Transmission characteristics of planar optical waveguide devices on coupling interface. <i>Optik</i> , 2013, 124, 5274-5279.	1.4	11
64	Ablation enhancement by femtosecond laser irradiation assisted with a microtorch for microgrooves fabrication in PMMA. <i>Applied Physics A: Materials Science and Processing</i> , 2016, 122, 1.	1.1	11
65	Temperature sensitivity enhancement of platinum-nanoparticle-coated long period fiber gratings fabricated by femtosecond laser. <i>Applied Optics</i> , 2017, 56, 6549.	0.9	11
66	Allowable aperture considerations for laser diode coupling to cylindrical lensed fiber: Efficiency computation with ABCD matrix. <i>Optik</i> , 2019, 185, 614-619.	1.4	11
67	Femtosecond laser manipulating underoil surface wettability for water removal from oil. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2020, 601, 125030.	2.3	11
68	Femtosecond laser fabrication of a gradient-wettability mesh for spilled oil crossflow collection. <i>Materials Letters</i> , 2018, 215, 272-275.	1.3	10
69	Experimental research on ultrasound-assisted underwater femtosecond laser drilling. <i>Laser and Particle Beams</i> , 2018, 36, 487-493.	0.4	10
70	Influence of positioning errors of optical shaping components for single emitter laser diode on beam shaping effects. <i>Journal of Central South University</i> , 2019, 26, 2814-2821.	1.2	10
71	Design and Analysis of a Novel Frequency Modulation Secondary for High-Speed Permanent Magnet Linear Synchronous Motor. <i>IEEE/ASME Transactions on Mechatronics</i> , 2022, 27, 790-799.	3.7	10
72	Review of Issues and Solutions in High-Power Semiconductor Laser Packaging Technology. <i>Frontiers in Physics</i> , 2021, 9, .	1.0	10

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73	Refractive index and temperature-sensing characteristics of a cladding-etched thin core fiber interferometer. <i>AIP Advances</i> , 2018, 8, .	0.6	9
74	Precise Dynamic Mass-Stiffness Balancing of Cylindrical Shell Vibrating Gyroscope Along Working Modal Axis. <i>IEEE Sensors Journal</i> , 2019, 19, 10347-10354.	2.4	9
75	The effect of micro-texture on wear resistance of WC/Co-based tools during cutting Ti-6Al-4V. <i>Applied Physics A: Materials Science and Processing</i> , 2021, 127, 1.	1.1	9
76	A Six-Degree-of-Freedom Compliant Parallel Platform for Optoelectronic Packaging. <i>IEEE Transactions on Industrial Electronics</i> , 2021, 68, 11178-11187.	5.2	9
77	A simplified adaptive interval Type-2 fuzzy control in practical industrial application. <i>Journal of Central South University</i> , 2014, 21, 2693-2700.	1.2	8
78	Femtosecond laser fabrication of robust underwater superoleophobic and anti-oil surface on sapphire. <i>AIP Advances</i> , 2017, 7, 115224.	0.6	8
79	Optimal condition for employing an axicon-generated Bessel beam to fabricate cylindrical microlens arrays. <i>Journal Physics D: Applied Physics</i> , 2018, 51, 185104.	1.3	8
80	Performance Analysis of Double-Sided Permanent Magnet Linear Synchronous Motor With Quasi-Sinusoidal Ring Windings. <i>IEEE Transactions on Energy Conversion</i> , 2020, 35, 1465-1474.	3.7	8
81	Improved particle swarm optimization algorithm for enhanced coupling of coaxial optical communication laser. <i>Optical Fiber Technology</i> , 2021, 64, 102559.	1.4	8
82	Water droplet rapid spreading transport on femtosecond laser-treated photothermal and superhydrophilic surface. <i>Optics and Laser Technology</i> , 2021, 141, 107099.	2.2	8
83	Optimizing the efficiency of a laser diode and single-mode fiber coupling using multi-aspherical lenses. <i>Optical Fiber Technology</i> , 2022, 68, 102781.	1.4	8
84	Effects of AlSi12 interlayer on microstructure and mechanical properties of laser welded 5A06/Ti6Al4V joints. <i>Welding in the World, Le Soudage Dans Le Monde</i> , 2021, 65, 1389-1402.	1.3	7
85	Calibration of five-axis motion platform based on monocular vision. <i>International Journal of Advanced Manufacturing Technology</i> , 2022, 118, 3487-3496.	1.5	7
86	Interface features of ultrasonic flip chip bonding and reflow soldering in microelectronic packaging. <i>Surface and Interface Analysis</i> , 2007, 39, 783-786.	0.8	6
87	One-step femtosecond laser welding and internal machining of three glass substrates. <i>Applied Physics A: Materials Science and Processing</i> , 2017, 123, 1.	1.1	6
88	Fabrication tolerance analysis of grating couplers between optical fibers and silicon waveguide. <i>Optik</i> , 2020, 201, 163490.	1.4	6
89	Design and Modeling of a Novel Permanent Magnet Width Modulation Secondary for Permanent Magnet Linear Synchronous Motor. <i>IEEE Transactions on Industrial Electronics</i> , 2022, 69, 2749-2758.	5.2	6
90	Numerical and experimental investigation of thermal stress distribution in laser lap welding of Ti6Al4V and 2024 alloy plates. <i>International Journal of Advanced Manufacturing Technology</i> , 2022, 118, 1427-1440.	1.5	6

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91	Fabrication and Sensing Application of Phase Shifted Bragg Grating Sensors. <i>Materials</i> , 2022, 15, 3720.	1.3	6
92	Rapid fabrication of cylindrical microlens array by shaped femtosecond laser direct writing. <i>Applied Physics A: Materials Science and Processing</i> , 2016, 122, 1.	1.1	5
93	A Novel Thrust Force Test Method for a Class of Precision Noncontact Linear Motion Actuators. <i>IEEE Transactions on Industrial Electronics</i> , 2019, 66, 5383-5391.	5.2	5
94	Fabrication of oil-water separation copper filter by spatial light modulated femtosecond laser. <i>Journal of Micromechanics and Microengineering</i> , 2020, 30, 065007.	1.5	5
95	The relationship between IR characteristic peak and microstructure of the glass used as optical fiber. <i>Central South University</i> , 2006, 13, 238-241.	0.5	4
96	Effect of technological parameters on optical performance of fiber coupler. <i>Central South University</i> , 2007, 14, 370-373.	0.5	4
97	Automated visual position detection and adjustment for optical waveguide chips and optical fiber arrays. <i>Journal of Central South University</i> , 2015, 22, 3868-3875.	1.2	4
98	Forming mechanism of three-dimensional integral fin based on flat surface. <i>Journal of Central South University</i> , 2015, 22, 1660-1666.	1.2	4
99	LIPSS formed on the sidewalls of microholes in stainless steel trepanned by a circularly polarized femtosecond laser. <i>Applied Physics A: Materials Science and Processing</i> , 2016, 122, 1.	1.1	4
100	Improving the Lot Fabrication Stability and Performance of Silica Optical Films during PECVD. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 785.	1.3	4
101	Online Research on Reliability of Thermal-Vibration Coupling for PLC Optical Splitters. <i>IEEE Transactions on Device and Materials Reliability</i> , 2020, 20, 351-357.	1.5	4
102	Influence of positioning errors on the coupling efficiency of a single emitter laser array. <i>Optik</i> , 2020, 204, 163949.	1.4	4
103	Bonding strength enhancement by Ag-Zn-Cu intermetallic compounds and microscale tapers array fabricated by femtosecond laser. <i>Journal of Materials Science: Materials in Electronics</i> , 2021, 32, 19543-19551.	1.1	4
104	Influences of polishing on return loss of optical fiber connectors. <i>Central South University</i> , 2005, 12, 320-323.	0.5	3
105	Novel manufacturing method of optical fiber coupler. <i>Central South University</i> , 2006, 13, 242-245.	0.5	3
106	Relationship between rheological manufacturing process and optical performance of optical fiber coupler. <i>Central South University</i> , 2006, 13, 175-179.	0.5	3
107	Adaptive learning with guaranteed stability for discrete-time recurrent neural networks. <i>Central South University</i> , 2007, 14, 685-689.	0.5	3
108	Wavelength dependent loss of splice of single-mode fibers. <i>Journal of Central South University</i> , 2013, 20, 1832-1837.	1.2	3

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109	Laser Structuring of Underwater Bubble-Repellent Surface. <i>Journal of Nanoscience and Nanotechnology</i> , 2018, 18, 8381-8385.	0.9	3
110	Reducing the adhesion effect of aluminum alloy by cutting tools with microgroove texture. <i>Applied Physics A: Materials Science and Processing</i> , 2019, 125, 1.	1.1	3
111	Controlling of surface ablation threshold of fused silica by double-pulsed femtosecond laser. <i>Applied Physics A: Materials Science and Processing</i> , 2020, 126, 1.	1.1	3
112	Research on drop reliability of PLC optical splitters by online test. <i>Optik</i> , 2020, 217, 164890.	1.4	3
113	Switchable bubble wettability copper mesh for underwater gas collection ablated by spatial modulated femtosecond laser. <i>Surface and Coatings Technology</i> , 2021, 418, 127241.	2.2	3
114	Automatic Planar Optical Waveguide Devices Packaging System Based on Polynomial Fitting Algorithm. <i>Advances in Mechanical Engineering</i> , 2013, 5, 398092.	0.8	3
115	Flexible and Precise Droplet Manipulation by a Laser-Induced Shape Temperature Field on a Lubricant-Infused Surface. <i>Langmuir</i> , 2022, 38, 6731-6740.	1.6	3
116	A multifunctional flexible sensor with coupling bionic microstructures inspired by nature. <i>Journal of Materials Chemistry C</i> , 2022, 10, 11296-11306.	2.7	3
117	Fitting methods for relaxation modulus of viscoelastic materials. <i>Central South University</i> , 2007, 14, 248-250.	0.5	2
118	Experimental measurement and numerical analysis of fused taper shape for optical fiber coupler. <i>Central South University</i> , 2007, 14, 251-254.	0.5	2
119	Ultrafast electron dynamics of a $\text{Na}_4$ cluster under resonant femtosecond laser pulse train irradiation. <i>Laser Physics</i> , 2015, 25, 026001.	0.6	2
120	Effects of Normal-Distributed Measurement Error on Frequency Tuning for a Cylindrical Vibratory Gyroscopes. <i>IEEE Access</i> , 2020, 8, 97152-97163.	2.6	2
121	Influence of different fuzzy operators on analytical structure and variable gains of typical interval type-2 fuzzy PI controller. <i>Journal of Intelligent and Fuzzy Systems</i> , 2020, 39, 4319-4329.	0.8	2
122	Experimental Research on In Situ Uniaxial Tensile Response of Silica-Based PLC Optical Splitters. <i>Applied Sciences (Switzerland)</i> , 2022, 12, 5778.	1.3	2
123	A new automatic alignment technology for single mode fiber-waveguide based on improved genetic algorithm. <i>Optoelectronics Letters</i> , 2009, 5, 165-168.	0.4	1
124	Research on ablation process of constant elastic alloy with femtosecond laser in solution medium. <i>Applied Physics A: Materials Science and Processing</i> , 2016, 122, 1.	1.1	1
125	Red shift of absorption edge and band gap shrinkage in perovskite $\text{Pb}(\text{Zr}_{0.35}\text{Ti}_{0.65})\text{O}_3$ thin film from heat generation for solar cells application. <i>Applied Physics Express</i> , 2019, 12, 022009.	1.1	1
126	Nanostructures' difference for differing band gap materials during ultrashort double-pulse laser ablation. <i>Photonics and Nanostructures - Fundamentals and Applications</i> , 2019, 33, 16-20.	1.0	1



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127	Research on the influence of laser thermal characteristics on misalignment of optical components. <i>Optik</i> , 2021, 241, 166907.	1.4	1
128	Alignment tolerant analysis of a compact 4×25 Gbps TOSA with a thin-film filter multiplexer. <i>Optics Communications</i> , 2022, 507, 127549.	1.0	1
129	Sensitivity analysis and optimization of optical Y-branch structure parameters. <i>Applied Optics</i> , 2020, 59, 5803.	0.9	1
130	A 3-prismatic-revolute-spherical compliant parallel platform for optoelectronic packaging. <i>Journal of Mechanical Science and Technology</i> , 2022, 36, 2685-2694.	0.7	1
131	Structure analysis of optical fiber coupler with infrared spectrometry. <i>Central South University</i> , 2004, 11, 328-331.	0.5	0
132	Optimization of a zoom mechanism with flexible hinge for dispenser valve. , 2015, , .		0
133	Helical displacement Talbot lithography for duty cycles of periodic patterning. <i>Journal of Optics (India)</i> , 0, , 1.	0.8	0