

Wenjun Wang

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2485700/publications.pdf>

Version: 2024-02-01

66
papers

1,687
citations

218677

26
h-index

302126

39
g-index

67
all docs

67
docs citations

67
times ranked

1300
citing authors

#	ARTICLE	IF	CITATIONS
1	Pseudo-topotactic conversion of carbon nanotubes to T-carbon nanowires under picosecond laser irradiation in methanol. <i>Nature Communications</i> , 2017, 8, 683.	12.8	184
2	Laser-induced graphene: preparation, functionalization and applications. <i>Materials Technology</i> , 2018, 33, 340-356.	3.0	92
3	Artificial Compound Eyes Prepared by a Combination of Air-Assisted Deformation, Modified Laser Swelling, and Controlled Crystal Growth. <i>ACS Nano</i> , 2019, 13, 114-124.	14.6	89
4	Effect of the surface microstructure ablated by femtosecond laser on the bonding strength of EBCs for SiC/SiC composites. <i>Optics Communications</i> , 2018, 424, 137-144.	2.1	71
5	Formation of hierarchical porous graphene films with defects using a nanosecond laser on polyimide sheet. <i>Applied Surface Science</i> , 2017, 419, 893-900.	6.1	47
6	Nanospot welding of carbon nanotubes using near-field enhancement effect of AFM probe irradiated by optical fiber probe laser. <i>RSC Advances</i> , 2015, 5, 56677-56685.	3.6	45
7	Fabrication of broadband antireflective black metal surfaces with ultra-light-trapping structures by picosecond laser texturing and chemical fluorination. <i>Applied Physics B: Lasers and Optics</i> , 2016, 122, 1.	2.2	43
8	Ablation experiment and threshold calculation of titanium alloy irradiated by ultra-fast pulse laser. <i>AIP Advances</i> , 2014, 4, .	1.3	42
9	Recent Progress in the Preparation of Horizontally Ordered Carbon Nanotube Assemblies from Solution. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2018, 215, 1700719.	1.8	41
10	Fabrication of Artificial Compound Eye with Controllable Field of View and Improved Imaging. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 8870-8878.	8.0	41
11	Fabrication of superhydrophilic or superhydrophobic self-cleaning metal surfaces using picosecond laser pulses and chemical fluorination. <i>Radiation Effects and Defects in Solids</i> , 2016, 171, 461-473.	1.2	37
12	Ablation and morphological evolution of micro-holes in stainless steel with picosecond laser pulses. <i>International Journal of Advanced Manufacturing Technology</i> , 2015, 80, 1713-1720.	3.0	36
13	Fabrication of Hierarchical Micro/Nano Compound Eyes. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 34507-34516.	8.0	36
14	Investigating interfacial contact configuration and behavior of single-walled carbon nanotube-based nanodevice with atomistic simulations. <i>Journal of Nanoparticle Research</i> , 2017, 19, 1.	1.9	35
15	Nanoscale Electrodes for Flexible Electronics by Swelling Controlled Cracking. <i>Advanced Materials</i> , 2016, 28, 6337-6344.	21.0	34
16	Control of microstructure shape and morphology in femtosecond laser ablation of imprint rollers. <i>International Journal of Advanced Manufacturing Technology</i> , 2009, 41, 504-512.	3.0	33
17	Nanojoining of crossed Ag nanowires: a molecular dynamics study. <i>Journal of Nanoparticle Research</i> , 2016, 18, 1.	1.9	33
18	New optical near-field nanolithography with optical fiber probe laser irradiating atomic force microscopy probe tip. <i>Integrated Ferroelectrics</i> , 2016, 169, 124-132.	0.7	33

#	ARTICLE	IF	CITATIONS
19	An experimental investigation into the defects of laser-drilled holes in thermal barrier coated Inconel 718 superalloys. <i>International Journal of Advanced Manufacturing Technology</i> , 2018, 96, 1467-1481.	3.0	33
20	Nanofabrication with the thermal AFM metallic tip irradiated by continuous laser. <i>Integrated Ferroelectrics</i> , 2017, 179, 140-147.	0.7	32
21	Atomistic simulations on the axial nanowelding configuration and contact behavior between Ag nanowire and single-walled carbon nanotubes. <i>Journal of Nanoparticle Research</i> , 2017, 19, 1.	1.9	31
22	Process research on micro-machining diamond microgroove by femtosecond laser. <i>Integrated Ferroelectrics</i> , 2019, 198, 9-19.	0.7	31
23	Local Field Enhancement Characteristics in a Tapered Metal-Coated Optical Fiber Probe for Nanolithography. <i>Integrated Ferroelectrics</i> , 2015, 164, 90-97.	0.7	28
24	Near-field optical characteristics of Ag nanoparticle within the near-field scope of a metallic AFM tip irradiated by SNOM laser. <i>Integrated Ferroelectrics</i> , 2017, 178, 117-124.	0.7	28
25	Research on the mechanism of micromachining of CVD diamond by femtosecond laser. <i>Ferroelectrics</i> , 2019, 549, 266-275.	0.6	28
26	Broad-Band Ultra-Low-Reflectivity Multiscale Microâ€“Nano Structures by the Combination of Femtosecond Laser Ablation and In Situ Deposition. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 49265-49274.	8.0	28
27	Graphitized hierarchically porous carbon nanosheets derived from bakelite induced by high-repetition picosecond laser. <i>Applied Surface Science</i> , 2018, 450, 155-163.	6.1	27
28	Atomic-Scale Simulation of the Contact Behavior and Mechanism of the SWNTâ€“AgNW Heterostructure. <i>Journal of Physical Chemistry C</i> , 2019, 123, 19693-19703.	3.1	27
29	Water-assisted femtosecond laser drilling of 4H-SiC to eliminate cracks and surface material shedding. <i>International Journal of Advanced Manufacturing Technology</i> , 2021, 112, 553-562.	3.0	27
30	Experimental characterizations of burr deposition in Nd:YAG laser drilling: a parametric study. <i>International Journal of Advanced Manufacturing Technology</i> , 2015, 76, 1529-1542.	3.0	26
31	Fractal titanium oxide under inverse 10-ns laser deposition in air and water. <i>Applied Physics A: Materials Science and Processing</i> , 2017, 123, 1.	2.3	26
32	Nanomanipulation of Carbon Nanotubes with the Vector Scanning Mode of Atomic Force Microscope. <i>Integrated Ferroelectrics</i> , 2015, 163, 81-88.	0.7	25
33	3-D finite element calculation of electric field enhancement for nanostructures fabrication mechanism on silicon surface with AFM tip induced local anodic oxidation. <i>Integrated Ferroelectrics</i> , 2018, 190, 129-141.	0.7	25
34	A Molecular Dynamics Study on Selfâ€“Assembly of Singleâ€“Walled Carbon Nanotubes: From Molecular Morphology and Binding Energy. <i>Advanced Materials Interfaces</i> , 2019, 6, 1900983.	3.7	23
35	Research status and application prospects of manufacturing technology for microâ€“nano surface structures with low reflectivity. <i>Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture</i> , 2015, 229, 1877-1892.	2.4	22
36	Large-scale assembly of single-walled carbon nanotubes based on aqueous solution. <i>Integrated Ferroelectrics</i> , 2018, 190, 39-47.	0.7	21

#	ARTICLE	IF	CITATIONS
37	Rapid and low-cost laser synthesis of hierarchically porous graphene materials as high-performance electrodes for supercapacitors. <i>Journal of Materials Science</i> , 2019, 54, 5658-5670.	3.7	21
38	Effect of temporally modulated pulse on reducing recast layer in laser drilling. <i>International Journal of Advanced Manufacturing Technology</i> , 2016, 87, 1641-1652.	3.0	19
39	Simulation study of near-field enhancement on an Ag nanoparticle dimer system in a laser-induced nanowelding process. <i>Integrated Ferroelectrics</i> , 2018, 191, 72-79.	0.7	19
40	Interfacial Contact Behavior between CNTs and AgNW with Molecular Dynamics Simulation. <i>Materials</i> , 2020, 13, 1290.	2.9	17
41	Effect of Laser Shock Peening on Residual Stress, Microstructure and Hot Corrosion Behavior of Damage-Tolerant TC21 Titanium Alloy. <i>Journal of Materials Engineering and Performance</i> , 2018, 27, 4703-4713.	2.5	16
42	Femtosecond laser polishing of SiC/SiC composites: Effect of incident angle on surface topography and oxidation. <i>Journal of Composite Materials</i> , 2021, 55, 1437-1445.	2.4	14
43	Designable Ultratransparent and Superhydrophobic Surface of Embedded Artificial Compound Eye with Extremely Low Adhesion. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 53557-53567.	8.0	13
44	Superhydrophobic Artificial Compound Eye with High Transparency. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 35026-35037.	8.0	13
45	Simulation and experimental study on laser drilling of nickel-based alloy with thermal barrier coatings. <i>International Journal of Advanced Manufacturing Technology</i> , 2017, 90, 1871-1879.	3.0	12
46	Influence of Preheating on the Microstructure Evolution of Laser Re-Melting Thermal Barrier Coatings/Ni-Based Single Crystal Superalloy Multilayer System. <i>Materials</i> , 2019, 12, 3088.	2.9	10
47	Laser drilling of micro-holes with small diameter beyond the limits of focused spot by using a sieve plate or a cover plate. <i>International Journal of Advanced Manufacturing Technology</i> , 2016, 87, 2471-2484.	3.0	7
48	Effect of temporal control of air/water environment on laser drilling of nickel-based alloy with thermal barrier coatings. <i>International Journal of Advanced Manufacturing Technology</i> , 2018, 97, 3395-3405.	3.0	7
49	Forward scattering nanoparticles based nanostructure for light trapping over solar spectrum. <i>AIP Advances</i> , 2019, 9, 085119.	1.3	7
50	A combined model for formation mechanism of ripples induced by femtosecond laser on silicon carbide. <i>Applied Physics A: Materials Science and Processing</i> , 2020, 126, 1.	2.3	7
51	Recast layer removal using ultrafast laser in titanium alloy. <i>International Journal of Advanced Manufacturing Technology</i> , 2013, 68, 2321-2327.	3.0	5
52	Comparative experimental study of laser-induced transitions in crystalline silicon by femtosecond, picosecond, and millisecond laser ablation. <i>Radiation Effects and Defects in Solids</i> , 2014, 169, 194-203.	1.2	5
53	Fabrication of PCD Skiving Cutter by UV Nanosecond Laser. <i>Materials</i> , 2021, 14, 4027.	2.9	5
54	Sequential Combination of Femtosecond Laser Ablation and Induced Micro/Nano Structures for Marking Units with High Recognition Rate. <i>Advanced Engineering Materials</i> , 2019, 21, 1900350.	3.5	4

#	ARTICLE	IF	CITATIONS
55	Effects of Surface Wettability on the Dewetting Performance of Hydrophobic Surfaces. ACS Omega, 2020, 5, 28776-28783.	3.5	4
56	Recent Progress in Near-Field Tip Enhancement (NFTE): Principles and Applications. Physica Status Solidi - Rapid Research Letters, 0, .	2.4	4
57	Fabrication of 4H-SiC microvias using a femtosecond laser assisted by a protective layer. Optical Materials, 2022, 123, 111695.	3.6	4
58	Stable Nonwetting Artificial Compound Eye with Low Adhesion. ACS Applied Materials & Interfaces, 2021, 13, 45040-45049.	8.0	3
59	Demonstration of an Enhanced Interconnect Topology-Based Superhydrophobic Surface on 2024 Aluminum Alloy by Femtosecond Laser Ablation and Temperature-Controlled Aging Treatment. Journal of Physical Chemistry C, 2021, 125, 24196-24210.	3.1	3
60	Nanoscale Electrodes: Nanoscale Electrodes for Flexible Electronics by Swelling Controlled Cracking (Adv. Mater. 30/2016). Advanced Materials, 2016, 28, 6516-6516.	21.0	2
61	In situ three-dimensional laser machining system integrating in situ measurement, reconstruction, parameterization, and texture mapping. International Journal of Advanced Manufacturing Technology, 2020, 111, 673-684.	3.0	2
62	Picosecond laser ablation of high-quality micro-grooves on CIGS (Cu _{1-x} Ga _{2x} Se _x) thin films. Radiation Effects and Defects in Solids, 2020, 175, 627-639.	1.2	1
63	Femtosecond Laser Fabrication of Micro and Nano-Structures on CIGS/ITO Bilayer Films for Thin-Film Solar Cells. Materials, 2021, 14, 2413.	2.9	1
64	Study on the thermal effects of femtosecond laser ablation on Ti-6Al ₄ V., 2012, .		0
65	The influence of pre-melting in laser drilling with temporally modulated pulse. Radiation Effects and Defects in Solids, 2016, 171, 474-491.	1.2	0
66	Carbon Nanotubes: A Molecular Dynamics Study on Self-Assembly of Single-Walled Carbon Nanotubes: From Molecular Morphology and Binding Energy (Adv. Mater. Interfaces 19/2019). Advanced Materials Interfaces, 2019, 6, 1970124.	3.7	0