

Weidong Wu

List of Publications by Year in descending order

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61
papers

836
citations

567281

15
h-index

526287

27
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61
all docs

61
docs citations

61
times ranked

1105
citing authors

#	ARTICLE	IF	CITATIONS
1	Cavity quantum electrodynamics with ferromagnetic magnons in a small yttrium-iron-garnet sphere. <i>Npj Quantum Information</i> , 2015, 1, .	6.7	204
2	Three-dimensional Macroassembly of Sandwich-like, Hierarchical, Porous Carbon/Graphene Nanosheets towards Ultralight, Superhigh Surface Area, Multifunctional Aerogels. <i>Chemistry - A European Journal</i> , 2016, 22, 2515-2524.	3.3	59
3	High-power terahertz quantum cascade lasers with $\sim 1/40.23$ W in continuous wave mode. <i>AIP Advances</i> , 2016, 6, .	1.3	56
4	Formation of broadband antireflective and superhydrophilic subwavelength structures on fused silica using one-step self-masking reactive ion etching. <i>Scientific Reports</i> , 2015, 5, 13023.	3.3	52
5	Advanced Mitigation Process (AMP) for Improving Laser Damage Threshold of Fused Silica Optics. <i>Scientific Reports</i> , 2016, 6, 31111.	3.3	37
6	Design of Highly Birefringent and Low-Loss Oligoporous-Core THz Photonic Crystal Fiber With Single Circular Air-Hole Unit. <i>IEEE Photonics Journal</i> , 2016, 8, 1-11.	2.0	28
7	Efficient generation and transportation of energetic electrons in a carbon nanotube array target. <i>Applied Physics Letters</i> , 2010, 96, .	3.3	26
8	Facile fabrication of ultra-low density, high-surface-area, broadband antireflective carbon aerogels as ultra-black materials. <i>Journal of Porous Materials</i> , 2016, 23, 1217-1225.	2.6	25
9	Silver nanoplates: controlled preparation, self-assembly, and applications in surface-enhanced Raman scattering. <i>Applied Physics A: Materials Science and Processing</i> , 2013, 110, 335-342.	2.3	24
10	Template-dealloying synthesis of ultralow density Au foams with bimodal porous structure. <i>RSC Advances</i> , 2014, 4, 7196.	3.6	24
11	Unique Zigzag-Shaped Buckling Zn ₂ C Monolayer with Strain-Tunable Band Gap and Negative Poisson Ratio. <i>Inorganic Chemistry</i> , 2018, 57, 1958-1963.	4.0	22
12	Fabrication of silver nanosheets on quartz glass substrates through electroless plating approach. <i>Applied Physics A: Materials Science and Processing</i> , 2014, 114, 485-493.	2.3	18
13	Non-destructive evaluation of UV pulse laser-induced damage performance of fused silica optics. <i>Scientific Reports</i> , 2017, 7, 16239.	3.3	18
14	Planar Hall effect in PtSe ₂ . <i>Journal of Applied Physics</i> , 2020, 127, 054306.	2.5	17
15	Sensitive optical switch based on Bi ₂ S ₃ single nanowire and nanowire film. <i>Journal of Alloys and Compounds</i> , 2014, 612, 301-305.	5.5	16
16	Splitting of the ultraviolet plasmon resonance from controlling FePt nanoparticles morphology. <i>Applied Surface Science</i> , 2018, 435, 1-6.	6.1	15
17	The Investigation of a SAW Oxygen Gas Sensor Operated at Room Temperature, Based on Nanostructured Zn _x Fe _y O Films. <i>Sensors</i> , 2019, 19, 3025.	3.8	15
18	Pulsed laser deposition of monolayer and bilayer graphene. <i>Applied Surface Science</i> , 2019, 494, 651-658.	6.1	14

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19	Self-Organized Ag Nanorings Antenna Substrates for Surface-Enhanced Raman Spectroscopy. <i>Plasmonics</i> , 2014, 9, 375-379.	3.4	11
20	Realization of Tunable Localized Surface Plasmon Resonance of Cu@Cu ₂ O Core-Shell Nanoparticles by the Pulse Laser Deposition Method. <i>ACS Omega</i> , 2019, 4, 14404-14410.	3.5	11
21	Low temperature and hydrogen atmosphere synthesis of crystalline LiBH ₄ and amorphous Li ₂ B ₁₂ H ₁₂ mixture for hydrogen storage. <i>International Journal of Energy Research</i> , 2014, 38, 254-258.	4.5	9
22	Tailoring the Grain Size of Bi-Layer Graphene by Pulsed Laser Deposition. <i>Nanomaterials</i> , 2018, 8, 885.	4.1	8
23	Unique Schrödinger semimetal state in ternary Be ₂ P ₃ N honeycomb lattice. <i>Journal of Materials Chemistry C</i> , 2019, 7, 4118-4123.	5.5	8
24	The Investigation of High-Temperature SAW Oxygen Sensor Based on ZnO Films. <i>Materials</i> , 2019, 12, 1235.	2.9	8
25	Laser-Induced Point Defects in Fused Silica Irradiated by UV Laser in Vacuum. <i>Advances in Condensed Matter Physics</i> , 2014, 2014, 1-7.	1.1	7
26	Photoelectron transport tuning of self-assembled subbands. <i>Nanoscale</i> , 2016, 8, 4628-4634.	5.6	7
27	An investigation progress toward Be-based ablator materials for the inertial confinement fusion. <i>High Power Laser Science and Engineering</i> , 2017, 5, .	4.6	7
28	Optical and electrical properties of Ag:Cu ₂ O nanocomposite films prepared by pulse laser deposition. <i>Materials Chemistry and Physics</i> , 2020, 241, 122399.	4.0	7
29	Structural and optical properties of Fe-doped hydrogenated amorphous carbon films prepared from trans-2-butene by plasma enhanced metal organic chemical vapor deposition. <i>Applied Physics A: Materials Science and Processing</i> , 2010, 98, 895-900.	2.3	6
30	A novel superconducting magnetic levitation method to support the laser fusion capsule by using permanent magnets. <i>Matter and Radiation at Extremes</i> , 2018, 3, 104-109.	3.9	6
31	Thickness dependence of microstructure and properties in Be ₂ C coatings as a promising ablation material. <i>Matter and Radiation at Extremes</i> , 2019, 4, .	3.9	6
32	Quadratic Meta-Reflectors Made of HfO ₂ Nanopillars with a Large Field of View at Infrared Wavelengths. <i>Nanomaterials</i> , 2020, 10, 1148.	4.1	6
33	Controllable synthesis of plasmonic ZnO/Au core/shell nanocable arrays on ITO glass. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2014, 56, 59-63.	2.7	5
34	Epitaxial growth of graphene thin film by pulsed laser deposition. <i>Micro and Nano Letters</i> , 2015, 10, 649-652.	1.3	5
35	Al-doped graphene as an effective adsorber for some toxic derivatives of aromatic hydrocarbons. <i>Journal of Theoretical and Computational Chemistry</i> , 2017, 16, 1750004.	1.8	5
36	Quantum interference magnetoconductance of polycrystalline germanium films in the variable-range hopping regime. <i>Philosophical Magazine</i> , 2018, 98, 1525-1536.	1.6	5

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37	Seeded growth of bulk ZnO crystals in a horizontal tubular furnace. <i>CrystEngComm</i> , 2019, 21, 1288-1292.	2.6	5
38	Influence of CH ₄ /Ar ratios on the composition, microstructure and optical properties of Be ₂ C films synthesized by DC reactive magnetron sputtering. <i>RSC Advances</i> , 2016, 6, 39444-39451.	3.6	4
39	Photon-Induced Light Emission from Foamed Gold with Micro/Nanohollow Sphere Structures. <i>ACS Omega</i> , 2017, 2, 5759-5765.	3.5	4
40	Surface Morphology Study of Chemical Vapor Transport of ZnO Crystals. <i>Scanning</i> , 2018, 2018, 1-7.	1.5	4
41	Investigation on Target Erosion and Effect of Deposition Rate on Microstructure and Properties of Sputtered Be Coating. <i>Journal of Materials Engineering and Performance</i> , 2018, 27, 4043-4049.	2.5	3
42	The micro-structural studies of Ni-BaTiO ₃ nanocomposite films by TEM and EELS. <i>Journal Wuhan University of Technology, Materials Science Edition</i> , 2011, 26, 897-901.	1.0	2
43	Production of collimated MeV electron beam in carbon nanotube array irradiated by super-intense femtosecond laser. <i>Carbon</i> , 2013, 65, 28-34.	10.3	2
44	Fabrication of Graphene-Based Nanostructured Thin Films with Mid-Infrared Photoresponse Properties. <i>International Journal of Nanoscience</i> , 2014, 13, 1460008.	0.7	2
45	Linear magnetoresistance in gold foams. <i>RSC Advances</i> , 2017, 7, 26434-26439.	3.6	2
46	A Controllability Investigation of Magnetic Properties for FePt Alloy Nanocomposite Thin Films. <i>Nanomaterials</i> , 2019, 9, 53.	4.1	2
47	Controllable fabrication of a super broadband antireflection film: Gd: MgO nanoparticles composite film by pulsed laser deposition method. <i>Vacuum</i> , 2021, 190, 110310.	3.5	2
48	Thickness dependence of the initial oxidation behaviors of Gd films grown on Si by laser molecular beam epitaxy. <i>Journal Wuhan University of Technology, Materials Science Edition</i> , 2012, 27, 191-194.	1.0	1
49	The collimation of intense relativistic electron beams generated by ultra-intense femtosecond laser in nanometer-scale solid fiber array. <i>Applied Physics Letters</i> , 2014, 104, 083520.	3.3	1
50	Enhanced quantum interference transport in gold films with random antidot arrays. <i>AIP Advances</i> , 2016, 6, 095213.	1.3	1
51	Effects of Strain Rate and Texture on the Tensile Behavior of Pre-strained NiCr Microwires. <i>Journal Wuhan University of Technology, Materials Science Edition</i> , 2018, 33, 459-465.	1.0	1
52	Fabrication of Polymer Composite Fibers Embedding Ultra-Long Micro/Nanowires. <i>Nanomaterials</i> , 2021, 11, 939.	4.1	1
53	Low-loss polarization-maintaining terahertz fiber based on central air hole movements. <i>Optical Engineering</i> , 2018, 57, 1.	1.0	1
54	Distributed feedback 2.5-terahertz quantum cascade laser with high-power and single-mode emission. <i>Optical Engineering</i> , 2020, 59, 1.	1.0	1

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55	Theoretical study on the interaction between C ₃ molecular wires and nanotubes. Physica Status Solidi (B): Basic Research, 2011, 248, 1464-1470.	1.5	0
56	Grand canonical Monte Carlo simulation for hydrogen uptakes based on nanoporous NaBH ₄ . Science China: Physics, Mechanics and Astronomy, 2013, 56, 1525-1532.	5.1	0
57	Growth of erbium dihydride films under low hydrogen pressure by pulsed laser deposition. Journal Wuhan University of Technology, Materials Science Edition, 2015, 30, 33-36.	1.0	0
58	Carbazole-based bi-functional photorefractive polyphosphazene for correcting the laser wavefront distortion. Polymer Science - Series A, 2016, 58, 535-540.	1.0	0
59	Effects of C ₆₀ on the Glass Transition Temperature of Carbazole-based Photorefractive Polyphosphazenes. Journal Wuhan University of Technology, Materials Science Edition, 2018, 33, 974-979.	1.0	0
60	The structural evolution in the growth process of FePt embedded in MgO matrix. Journal of Materials Science, 2020, 55, 12305-12313.	3.7	0
61	Trimetallic PtTiMg Alloy Nanoparticles with High Activity for Efficient Electrocatalytic Ethanol Oxidation. Catalysis Surveys From Asia, 0, , 1.	2.6	0