

Judy Wu

List of Publications by Year in descending order

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84
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docs citations

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times ranked

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#	ARTICLE	IF	CITATIONS
1	Development of a Seedless Floating Growth Process in Solution for Synthesis of Crystalline ZnO Micro/Nanowire Arrays on Graphene: Towards High-Performance Nanohybrid Ultraviolet Photodetectors. <i>Advanced Functional Materials</i> , 2013, 23, 4941-4948.	7.8	84
2	Printable Transfer-Free and Wafer-Size MoS ₂ /Graphene van der Waals Heterostructures for High-Performance Photodetection. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 12728-12733.	4.0	82
3	A high-performance lithium-ion battery anode based on the core-shell heterostructure of silicon-coated vertically aligned carbon nanofibers. <i>Journal of Materials Chemistry A</i> , 2013, 1, 1055-1064.	5.2	81
4	Using Bulk Heterojunctions and Selective Electron Trapping to Enhance the Responsivity of Perovskite-Graphene Photodetectors. <i>Advanced Functional Materials</i> , 2017, 27, 1704173.	7.8	79
5	Extraordinary Photocurrent Harvesting at Type-II Heterojunction Interfaces: Toward High Detectivity Carbon Nanotube Infrared Detectors. <i>Nano Letters</i> , 2012, 12, 6244-6249.	4.5	76
6	Novel Dye-Sensitized Solar Cell Architecture Using TiO ₂ -Coated Vertically Aligned Carbon Nanofiber Arrays. <i>ACS Applied Materials & Interfaces</i> , 2009, 1, 1645-1649.	4.0	71
7	Controlling Dielectric and Relaxor-Ferroelectric Properties for Energy Storage by Tuning Pb _{0.92} La _{0.08} Zr _{0.52} Ti _{0.48} O ₃ Film Thickness. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 22417-22422.	4.0	65
8	Development of Nanopatterned Fluorine-Doped Tin Oxide Electrodes for Dye-Sensitized Solar Cells with Improved Light Trapping. <i>ACS Applied Materials & Interfaces</i> , 2012, 4, 1565-1572.	4.0	54
9	Synchronous growth of AB-stacked bilayer graphene on Cu by simply controlling hydrogen pressure in CVD process. <i>Carbon</i> , 2015, 93, 199-206.	5.4	54
10	Probing the Dielectric Properties of Ultrathin Al/Al ₂ O ₃ /Al Trilayers Fabricated Using <i>in Situ</i> Sputtering and Atomic Layer Deposition. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 3112-3120.	4.0	49
11	Metal-catalyst-free and controllable growth of high-quality monolayer and AB-stacked bilayer graphene on silicon dioxide. <i>Carbon</i> , 2016, 96, 203-211.	5.4	48
12	Development of pulsed laser deposition for CdS/CdTe thin film solar cells. <i>Applied Physics Letters</i> , 2012, 101, .	1.5	45
13	Enhanced energy density with a wide thermal stability in epitaxial Pb _{0.92} La _{0.08} Zr _{0.52} Ti _{0.48} O ₃ thin films. <i>Applied Physics Letters</i> , 2016, 109, .	1.5	45
14	Facile zinc oxide nanowire growth on graphene via a hydrothermal floating method: towards Debye length radius nanowires for ultraviolet photodetection. <i>Journal of Materials Chemistry C</i> , 2017, 5, 10087-10093.	2.7	44
15	Interactive modeling-synthesis-characterization approach towards controllable <i>in situ</i> self-assembly of artificial pinning centers in RE-123 films. <i>Superconductor Science and Technology</i> , 2017, 30, 103002.	1.8	42
16	Plasmonic Graphene Transparent Conductors. <i>Advanced Materials</i> , 2012, 24, OP71-6.	11.1	39
17	Higher-power supercapacitor electrodes based on mesoporous manganese oxide coating on vertically aligned carbon nanofibers. <i>Nanoscale</i> , 2015, 7, 8485-8494.	2.8	38
18	Detangling extrinsic and intrinsic hysteresis for detecting dynamic switch of electric dipoles using graphene field-effect transistors on ferroelectric gates. <i>Nanoscale</i> , 2015, 7, 18489-18497.	2.8	38

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19	Effective Infiltration of Gel Polymer Electrolyte into Silicon-Coated Vertically Aligned Carbon Nanofibers as Anodes for Solid-State Lithium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 20909-20918.	4.0	37
20	Fused Nanojunctions of Electron-Depleted ZnO Nanoparticles for Extraordinary Performance in Ultraviolet Detection. <i>Advanced Materials Interfaces</i> , 2017, 4, 1601064.	1.9	37
21	Heat-Assisted Inkjet Printing of Tungsten Oxide for High-Performance Ultraviolet Photodetectors. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 873-879.	4.0	37
22	Doped graphene nanohole arrays for flexible transparent conductors. <i>Applied Physics Letters</i> , 2011, 99, .	1.5	36
23	Designing the Interface of Carbon Nanotube/Biomaterials for High-Performance Ultra-Broadband Photodetection. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 11016-11024.	4.0	34
24	Preparation and characterization of pulsed laser deposited CdTe thin films at higher FTO substrate temperature and in Ar+O ₂ atmosphere. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2013, 178, 801-806.	1.7	32
25	Triangular Graphene Grain Growth on Cube-Textured Cu Substrates. <i>Advanced Functional Materials</i> , 2011, 21, 3868-3874.	7.8	31
26	Growing Ultra-flat Organic Films on Graphene with a Face-on Stacking via Moderate Molecule-Substrate Interaction. <i>Scientific Reports</i> , 2016, 6, 28895.	1.6	31
27	Study of the Flux Pinning Landscape of YBCO Thin Films With Single and Mixed Phase Additions BaMO ₃ + Z: M = Hf, Sn, Zr and Z = Y ₂ O ₃ , Y ₂ O ₃ . <i>IEEE Transactions on Applied Superconductivity</i> , 2017, 27, 1-5.	1.1	31
28	Anomalous capacity increase at high-rates in lithium-ion battery anodes based on silicon-coated vertically aligned carbon nanofibers. <i>Journal of Power Sources</i> , 2015, 276, 73-79.	4.0	30
29	High-Performance Strain Sensors Based on Vertically Aligned Piezoelectric Zinc Oxide Nanowire Array/Graphene Nanohybrids. <i>ACS Applied Nano Materials</i> , 2020, 3, 6711-6718.	2.4	30
30	Highly Stable Three Lithium Insertion in Thin V ₂ O ₅ Shells on Vertically Aligned Carbon Nanofiber Arrays for Ultrahigh-Capacity Lithium Ion Battery Cathodes. <i>Advanced Materials Interfaces</i> , 2016, 3, 1600824.	1.9	28
31	Effects of the substrate temperature on the properties of CdTe thin films deposited by pulsed laser deposition. <i>Surface and Coatings Technology</i> , 2012, 213, 84-89.	2.2	27
32	Effects of deposition temperature and CdCl ₂ annealing on the CdS thin films prepared by pulsed laser deposition. <i>Journal of Alloys and Compounds</i> , 2016, 654, 333-339.	2.8	27
33	Graphene/WS ₂ Nanodisk Van der Waals Heterostructures on Plasmonic Ag Nanoparticle-Embedded Silica Metafilms for High-Performance Photodetectors. <i>ACS Applied Nano Materials</i> , 2020, 3, 7858-7868.	2.4	25
34	Atomic Layer Deposition of Al-Doped ZnO/Al ₂ O ₃ Double Layers on Vertically Aligned Carbon Nanofiber Arrays. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 6865-6871.	4.0	23
35	Wrapping cytochrome c around single-wall carbon nanotube: engineered nanohybrid building blocks for infrared detection at high quantum efficiency. <i>Scientific Reports</i> , 2015, 5, 11328.	1.6	22
36	Transfer-free and printable graphene/ZnO-nanoparticle nanohybrid photodetectors with high performance. <i>Journal of Materials Chemistry C</i> , 2017, 5, 6427-6432.	2.7	21

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37	Inkjet Printing Multicolor Pixelated Quantum Dots on Graphene for Broadband Photodetection. ACS Applied Nano Materials, 2019, 2, 3246-3252.	2.4	21
38	Enhanced dielectric nonlinearity in epitaxial Pb _{0.92} La _{0.08} Zr _{0.52} Ti _{0.48} O ₃ thin films. Applied Physics Letters, 2014, 104, .	1.5	20
39	Effect of Interlayer Coupling on Ultrafast Charge Transfer from Semiconducting Molecules to Mono- and Bilayer Graphene. Physical Review Applied, 2015, 4, .	1.5	19
40	A Novel High-Power Battery-Pseudocapacitor Hybrid Based on Fast Lithium Reactions in Silicon Anode and Titanium Dioxide Cathode Coated on Vertically Aligned Carbon Nanofibers. Electrochimica Acta, 2015, 178, 797-805.	2.6	17
41	Oxygen Plasma Surface Activation of Electron-Depleted ZnO Nanoparticle Films for Performance-Enhanced Ultraviolet Photodetectors. Physica Status Solidi (A) Applications and Materials Science, 2017, 214, 1700176.	0.8	17
42	Self-Organization of Ions at the Interface between Graphene and Ionic Liquid DEME-TFSI. ACS Applied Materials & Interfaces, 2017, 9, 35437-35443.	4.0	17
43	Investigation into Photoconductivity in Single CNF/TiO ₂ -Dye Core-Shell Nanowire Devices. Nanoscale Research Letters, 2010, 5, 1480-1486.	3.1	16
44	Detecting Electric Dipoles Interaction at the Interface of Ferroelectric and Electrolyte Using Graphene Field Effect Transistors. ACS Applied Materials & Interfaces, 2017, 9, 4244-4252.	4.0	16
45	Enhancement of Isotropic Pinning Force in YBCO Films With BaZrO ₃ Nanorods and Y ₂ O ₃ Nanoparticles. IEEE Transactions on Applied Superconductivity, 2017, 27, 1-5.	1.1	16
46	Generating mixed morphology BaZrO ₃ artificial pinning centers for strong and isotropic pinning in BaZrO ₃ -Y ₂ O ₃ double-doped YBCO thin films. Superconductor Science and Technology, 2017, 30, 125011.	1.8	15
47	Printing High-Performance Tungsten Oxide Thin Film Ultraviolet Photodetectors on ZnO Quantum Dot Textured SiO ₂ Surface. IEEE Sensors Journal, 2018, 18, 9542-9547.	2.4	15
48	Quantum Dots-Facilitated Printing of ZnO Nanostructure Photodetectors with Improved Performance. ACS Applied Materials & Interfaces, 2017, 9, 23189-23194.	4.0	13
49	Interface Nanojunction Engineering of Electron-Depleted Tungsten Oxide Nanoparticles for High-Performance Ultraviolet Photodetection. ACS Applied Nano Materials, 2018, 1, 394-400.	2.4	13
50	Light Trapping on Plasmonic-Photonic Nanostructured Fluorine-Doped Tin Oxide. Journal of Physical Chemistry C, 2013, 117, 11725-11730.	1.5	12
51	ZnO/graphene heterostructure nanohybrids for optoelectronics and sensors. Journal of Applied Physics, 2021, 130, .	1.1	12
52	Enhancing magnetic pinning by BaZrO ₃ nanorods forming coherent interface by strain-directed Ca-doping in YBa ₂ Cu ₃ O _{7-x} nanocomposite films. Superconductor Science and Technology, 2021, 34, 104002.	1.8	12
53	Dimension effect on the performance of carbon nanotube nanobolometers. Nanotechnology, 2014, 25, 425503.	1.3	11
54	Toward highly stable solid-state unconventional thin-film battery-supercapacitor hybrid devices: Interfacing vertical core-shell array electrodes with a gel polymer electrolyte. Journal of Power Sources, 2017, 342, 1006-1016.	4.0	11

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55	Scalable Graphene-Organometal Halide Perovskite Heterostructure Fabricated by Dry Transfer. <i>Advanced Materials Interfaces</i> , 2019, 6, 1801419.	1.9	11
56	Effect of In Situ Thermal Annealing on Structural, Optical, and Electrical Properties of CdS/CdTe Thin Film Solar Cells Fabricated by Pulsed Laser Deposition. <i>Advances in Condensed Matter Physics</i> , 2016, 2016, 1-8.	0.4	10
57	Correlation of the plasmon-enhanced photoconductance and photovoltaic properties of core-shell Au@TiO ₂ network. <i>Applied Physics Letters</i> , 2016, 109, .	1.5	10
58	Probing effect of temperature on energy storage properties of relaxor-ferroelectric epitaxial Pb _{0.92} La _{0.08} Zr _{0.52} Ti _{0.48} O ₃ thin film capacitors. <i>Thin Solid Films</i> , 2016, 616, 711-716.	0.8	10
59	Hot Exciton Relaxation and Exciton Trapping in Single-Walled Carbon Nanotube Thin Films. <i>Journal of Physical Chemistry C</i> , 2016, 120, 24482-24490.	1.5	10
60	High-Performance Photodetectors Based on Effective Exciton Dissociation in Protein-Adsorbed Multiwalled Carbon Nanotube Nanohybrids. <i>Advanced Optical Materials</i> , 2017, 5, 1600478.	3.6	10
61	Disordered Bilayered V ₂ O ₅ H ₂ O Shells Deposited on Vertically Aligned Carbon Nanofiber Arrays as Stable High-Capacity Sodium Ion Battery Cathodes. <i>Energy Technology</i> , 2018, 6, 2438-2449.	1.8	10
62	Effect of Al ₂ O ₃ Seed-Layer on the Dielectric and Electrical Properties of Ultrathin MgO Films Fabricated Using In Situ Atomic Layer Deposition. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 30368-30375.	4.0	10
63	Inkjet-Printed Imbedded Graphene Nanoplatelet/Zinc Oxide Bulk Heterojunctions Nanocomposite Films for Ultraviolet Photodetection. <i>ACS Omega</i> , 2019, 4, 22497-22503.	1.6	10
64	The effect of annealing on the photoconductivity of carbon nanofiber/TiO ₂ core-shell nanowires for use in dye-sensitized solar cells. <i>Applied Physics Letters</i> , 2010, 97, 043102.	1.5	9
65	All-Optical Technique to Correlate Defect Structure and Carrier Transport in Transferred Graphene Films. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 7176-7180.	4.0	9
66	Study of Ar ⁺ /O ₂ deposition pressures on properties of pulsed laser deposited CdTe thin films at high substrate temperature. <i>Journal of Materials Science: Materials in Electronics</i> , 2014, 25, 1901-1907.	1.1	7
67	Plasmonic Three-Dimensional Transparent Conductor Based on Al-Doped Zinc Oxide-Coated Nanostructured Glass Using Atomic Layer Deposition. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 8556-8561.	4.0	7
68	Direct graphene growth on (111) Cu ₂ O templates with atomic Cu surface layer. <i>Carbon</i> , 2015, 95, 608-615.	5.4	7
69	High Tunneling Magnetoresistance in Magnetic Tunnel Junctions with Subnanometer Thick Al ₂ O ₃ Tunnel Barriers Fabricated Using Atomic Layer Deposition. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 15738-15745.	4.0	7
70	Probing Microscopic Strain Interplay Due to Impurity Doping and Vicinal Growth and Its Effect on Pinning Landscape in YBCO Films. <i>IEEE Transactions on Applied Superconductivity</i> , 2015, 25, 1-5.	1.1	6
71	The angular range of effective pinning by one-dimensional artificial pinning centers in BaZrO ₃ /YBa ₂ Cu ₃ O _{7-x} nanocomposite films. <i>AIP Advances</i> , 2019, 9, .	0.6	6
72	Development of Combinatorial Pulsed Laser Deposition for Expedited Device Optimization in CdTe/CdS Thin-Film Solar Cells. <i>International Journal of Optics</i> , 2016, 2016, 1-7.	0.6	5

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73	Pinning Efficiency of One-Dimensional Artificial Pinning Centers in $\text{YBa}_{2-x}\text{Cu}_3\text{O}_{7-x}$ Thin Films. IEEE Transactions on Applied Superconductivity, 2019, 29, 1-5.	1.1	5
74	Switching On/Off Negative Capacitance in Ultrathin Ferroelectric/Dielectric Capacitors. ACS Applied Materials & Interfaces, 2020, 12, 9902-9908.	4.0	4
75	Quantum Dot/Graphene Heterostructure Nanohybrid Photodetectors. Lecture Notes in Nanoscale Science and Technology, 2021, , 215-248.	0.4	4
76	Pinning Efficiency of Artificial Pinning Centers in Superconductor Nanocomposite Films. , 2020, , 29-52.		4
77	Pulsed Laser Deposition of thin film CdTe/CdS solar cells with CdS/ZnS superlattice windows. , 2013, , .		3
78	The effects of pressure on the fabrication of CdS/CdTe thin film solar cells made via pulsed laser deposition. , 2013, , .		2
79	Nondestructive Investigation of Heterojunction Interfacial Properties Using Two-Wavelength Raman Spectroscopy on Thin-Film CdS/CdTe Solar Cells. Applied Spectroscopy, 2016, 70, 1555-1560.	1.2	2
80	Probing the Correlation of Twin Boundaries and Charge Transport of CdTe Solar Cells Using Electron Backscattering Diffraction and Conductive Atomic Force Microscopy. ACS Applied Energy Materials, 2018, 1, 3646-3653.	2.5	2
81	High-rate lithium-ion battery anodes based on silicon-coated vertically aligned carbon nanofibers. , 2014, , .		1
82	Correlation of microscopic grain evolution in post- CdCl_2 annealing and performance of CdS/CdTe thin-film solar cells fabricated using pulsed laser deposition. Physica Status Solidi (A) Applications and Materials Science, 2016, 213, 3231-3237.	0.8	1
83	Quantum dots/graphene nanohybrids photodetectors: progress and perspective. Nano Express, 2021, 2, 031002.	1.2	1
84	Interface Engineering for Enhanced Magnetic Vortex Pinning by 1D-BZO APCs in a Wide Angular Range. IOP Conference Series: Materials Science and Engineering, 2022, 1241, 012022.	0.3	0