

Judy Wu

List of Publications by Year in descending order

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172207

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all docs

84
docs citations

84
times ranked

3270
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	High Tunneling Magnetoresistance in Magnetic Tunnel Junctions with Subnanometer Thick Al ₂ O ₃ Tunnel Barriers Fabricated Using Atomic Layer Deposition. ACS Applied Materials & Interfaces, 2021, 13, 15738-15745.	4.0	7
3	ZnO/graphene heterostructure nanohybrids for optoelectronics and sensors. Journal of Applied Physics, 2021, 130, .	1.1	12
4	Quantum dots/graphene nanohybrids photodetectors: progress and perspective. Nano Express, 2021, 2, 031002.	1.2	1
5	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
6	Quantum Dot/Graphene Heterostructure Nanohybrid Photodetectors. Lecture Notes in Nanoscale Science and Technology, 2021, , 215-248.	0.4	4
7	Graphene/WS ₂ Nanodisk Van der Waals Heterostructures on Plasmonic Ag Nanoparticle-Embedded Silica Metafilms for High-Performance Photodetectors. ACS Applied Nano Materials, 2020, 3, 7858-7868.	2.4	25
8	High-Performance Strain Sensors Based on Vertically Aligned Piezoelectric Zinc Oxide Nanowire Array/Graphene Nanohybrids. ACS Applied Nano Materials, 2020, 3, 6711-6718.	2.4	30
9	Switching On/Off Negative Capacitance in Ultrathin Ferroelectric/Dielectric Capacitors. ACS Applied Materials & Interfaces, 2020, 12, 9902-9908.	4.0	4
10	Pinning Efficiency of Artificial Pinning Centers in Superconductor Nanocomposite Films. , 2020, , 29-52.		4
11	Effect of Al ₂ O ₃ Seed-Layer on the Dielectric and Electrical Properties of Ultrathin MgO Films Fabricated Using <i>in Situ</i> Atomic Layer Deposition. ACS Applied Materials & Interfaces, 2019, 11, 30368-30375.	4.0	10
12	The angular range of effective pinning by one-dimensional artificial pinning centers in BaZrO ₃ /YBa ₂ Cu ₃ O _{7-x} nanocomposite films. AIP Advances, 2019, 9, .	0.6	6
13	Inkjet Printing Multicolor Pixelated Quantum Dots on Graphene for Broadband Photodetection. ACS Applied Nano Materials, 2019, 2, 3246-3252.	2.4	21
14	Pinning Efficiency of One-Dimensional Artificial Pinning Centers in YBa ₂ Cu ₃ O _{7-x} Thin Films. IEEE Transactions on Applied Superconductivity, 2019, 29, 1-5.	1.1	5
15	Inkjet-Printed Imbedded Graphene Nanoplatelet/Zinc Oxide Bulk Heterojunctions Nanocomposite Films for Ultraviolet Photodetection. ACS Omega, 2019, 4, 22497-22503.	1.6	10
16	Scalable Graphene-Organometal Halide Perovskite Heterostructure Fabricated by Dry Transfer. Advanced Materials Interfaces, 2019, 6, 1801419.	1.9	11
17	Probing the Dielectric Properties of Ultrathin Al/Al ₂ O ₃ /Al Trilayers Fabricated Using <i>in Situ</i> Sputtering and Atomic Layer Deposition. ACS Applied Materials & Interfaces, 2018, 10, 3112-3120.	4.0	49
18	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

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19	Heat-Assisted Inkjet Printing of Tungsten Oxide for High-Performance Ultraviolet Photodetectors. ACS Applied Materials & Interfaces, 2018, 10, 873-879.	4.0	37
20	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
21	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
22	Disordered Bilayered V ₂ O ₅ â€¦â€¦H ₂ O Shells Deposited on Vertically Aligned Carbon Nanofiber Arrays as Stable High-Capacity Sodium Ion Battery Cathodesâ€¦... Energy Technology, 2018, 6, 2438-2449.	1.8	10
23	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
24	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
25	Fused Nanojunctions of Electron-Depleted ZnO Nanoparticles for Extraordinary Performance in Ultraviolet Detection. Advanced Materials Interfaces, 2017, 4, 1601064.	1.9	37
26	Transfer-free and printable graphene/ZnO-nanoparticle nanohybrid photodetectors with high performance. Journal of Materials Chemistry C, 2017, 5, 6427-6432.	2.7	21
27	Quantum Dots-Facilitated Printing of ZnO Nanostructure Photodetectors with Improved Performance. ACS Applied Materials & Interfaces, 2017, 9, 23189-23194.	4.0	13
28	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 Ti ₁₁ . IEEE Transactions on Applied Superconductivity, 2017, 27, 1-5.	1.1	31
29	Printable Transfer-Free and Wafer-Size MoS ₂ /Graphene van der Waals Heterostructures for High-Performance Photodetection. ACS Applied Materials & Interfaces, 2017, 9, 12728-12733.	4.0	82
30	Designing the Interface of Carbon Nanotube/Biomaterials for High-Performance Ultra-Broadband Photodetection. ACS Applied Materials & Interfaces, 2017, 9, 11016-11024.	4.0	34
31	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
32	Generating mixed morphology BaZrO ₃ artificial pinning centers for strong and isotropic pinning in BaZrO ₃ â€“Y ₂ O ₃ double-doped YBCO thin films. Superconductor Science and Technology, 2017, 30, 125011.	1.8	15
33	Using Bulk Heterojunctions and Selective Electron Trapping to Enhance the Responsivity of Perovskiteâ€“Graphene Photodetectors. Advanced Functional Materials, 2017, 27, 1704173.	7.8	79
34	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
35	Interactive modeling-synthesis-characterization approach towards controllable <i>in situ</i> self-assembly of artificial pinning centers in RE-123 films. Superconductor Science and Technology, 2017, 30, 103002.	1.8	42
36	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

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37	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
38	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
39	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
40	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
41	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
42	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
43	Correlation of microscopic grain evolution in post-CdCl ₂ annealing and performance of CdS/CdTe thin-film solar cells fabricated using pulsed laser deposition. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2016, 213, 3231-3237.	0.8	1
44	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
45	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
46	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
47	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
48	Nondestructive Investigation of Heterojunction Interfacial Properties Using Two-Wavelength Raman Spectroscopy on Thin-Film CdS/CdTe Solar Cells. <i>Applied Spectroscopy</i> , 2016, 70, 1555-1560.	1.2	2
49	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
50	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
51	Effect of Interlayer Coupling on Ultrafast Charge Transfer from Semiconducting Molecules to Mono- and Bilayer Graphene. <i>Physical Review Applied</i> , 2015, 4, .	1.5	19
52	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
53	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
54	Direct graphene growth on (111) Cu ₂ O templates with atomic Cu surface layer. <i>Carbon</i> , 2015, 95, 608-615.	5.4	7

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55	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
56	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
57	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
58	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. <i>Electrochimica Acta</i> , 2015, 178, 797-805.	2.6	17
59	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
60	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
61	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
62	High-rate lithium-ion battery anodes based on silicon-coated vertically aligned carbon nanofibers. , 2014, , .		1
63	Controlling Dielectric and Relaxor-Ferroelectric Properties for Energy Storage by Tuning $\text{Pb}_{0.92}\text{La}_{0.08}\text{Zr}_{0.52}\text{Ti}_{0.48}\text{O}_{3\text{O}}$ Film Thickness. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 22417-22422.	4.0	65
64	Study of $\text{Ar}+\text{O}_2$ 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
65	Enhanced dielectric nonlinearity in epitaxial $\text{Pb}_{0.92}\text{La}_{0.08}\text{Zr}_{0.52}\text{Ti}_{0.48}\text{O}_3$ thin films. <i>Applied Physics Letters</i> , 2014, 104, .	1.5	20
66	Dimension effect on the performance of carbon nanotube nanobolometers. <i>Nanotechnology</i> , 2014, 25, 425503.	1.3	11
67	Atomic Layer Deposition of Al-Doped $\text{ZnO}/\text{Al}_2\text{O}_3$ Double Layers on Vertically Aligned Carbon Nanofiber Arrays. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 6865-6871.	4.0	23
68	Preparation and characterization of pulsed laser deposited CdTe thin films at higher FTO substrate temperature and in $\text{Ar}+\text{O}_2$ atmosphere. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2013, 178, 801-806.	1.7	32
69	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
70	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
71	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
72	Light Trapping on Plasmonic-Photonic Nanostructured Fluorine-Doped Tin Oxide. <i>Journal of Physical Chemistry C</i> , 2013, 117, 11725-11730.	1.5	12

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73	The effects of pressure on the fabrication of CdS/CdTe thin film solar cells made via pulsed laser deposition. , 2013, , .		2
74	Pulsed Laser Deposition of thin film CdTe/CdS solar cells with CdS/ZnS superlattice windows. , 2013, , .		3
75	Extraordinary Photocurrent Harvesting at Type-II Heterojunction Interfaces: Toward High Detectivity Carbon Nanotube Infrared Detectors. Nano Letters, 2012, 12, 6244-6249.	4.5	76
76	Development of pulsed laser deposition for CdS/CdTe thin film solar cells. Applied Physics Letters, 2012, 101, .	1.5	45
77	Development of Nanopatterned Fluorine-Doped Tin Oxide Electrodes for Dye-Sensitized Solar Cells with Improved Light Trapping. ACS Applied Materials & Interfaces, 2012, 4, 1565-1572.	4.0	54
78	Effects of the substrate temperature on the properties of CdTe thin films deposited by pulsed laser deposition. Surface and Coatings Technology, 2012, 213, 84-89.	2.2	27
79	Plasmonic Graphene Transparent Conductors. Advanced Materials, 2012, 24, OP71-6.	11.1	39
80	Triangular Graphene Grain Growth on Cubeâ€Textured Cu Substrates. Advanced Functional Materials, 2011, 21, 3868-3874.	7.8	31
81	Doped graphene nanohole arrays for flexible transparent conductors. Applied Physics Letters, 2011, 99, .	1.5	36
82	Investigation into Photoconductivity in Single CNF/TiO ₂ -Dye Coreâ€Shell Nanowire Devices. Nanoscale Research Letters, 2010, 5, 1480-1486.	3.1	16
83	The effect of annealing on the photoconductivity of carbon nanofiber/TiO ₂ core-shell nanowires for use in dye-sensitized solar cells. Applied Physics Letters, 2010, 97, 043102.	1.5	9
84	Novel Dye-Sensitized Solar Cell Architecture Using TiO ₂ -Coated Vertically Aligned Carbon Nanofiber Arrays. ACS Applied Materials & Interfaces, 2009, 1, 1645-1649.	4.0	71