# Judy Z Wu

List of Publications by Year
in descending order



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|---|---|---|---|
| 153 papers | 3,498 citations | 117453 34 h-index | 189595 50 g-index |
| 156 all docs | 156 docs citations | 156 times ranked | 4552 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | All-Printable ZnO Quantum Dots/Graphene van der Waals Heterostructures for Ultrasensitive Detection of Ultraviolet Light. ACS Nano, 2017, 11, 4114-4123. | 7.3 | 158 |
| 2 | Ultrahighâ€Sensitive Broadband Photodetectors Based on Dielectric Shielded MoTe<sub>2</sub>/Graphene/SnS<sub>2</sub> pâ€“gâ€“n Junctions. Advanced Materials, 2019, 31, e1805656. | 11.1 | 138 |
| 3 | High-Performance All-Inorganic CsPbCl<sub>3</sub> Perovskite Nanocrystal Photodetectors with Superior Stability. ACS Nano, 2019, 13, 1772-1783. | 7.3 | 105 |
| 4 | Development of a Seedless Floating Growth Process in Solution for Synthesis of Crystalline ZnO Micro/Nanowire Arrays on Graphene: Towards Highâ€Performance Nanohybrid Ultraviolet Photodetectors. Advanced Functional Materials, 2013, 23, 4941-4948. | 7.8 | 84 |
| 5 | Suspending single-wall carbon nanotube thin film infrared bolometers on microchannels. Applied Physics Letters, 2009, 94, . | 1.5 | 83 |
| 6 | Printable Transfer-Free and Wafer-Size MoS<sub>2</sub>/Graphene van der Waals Heterostructures for High-Performance Photodetection. ACS Applied Materials & Interfaces, 2017, 9, 12728-12733. | 4.0 | 82 |
| 7 | A high-performance lithium-ion battery anode based on the coreâ€“shell heterostructure of silicon-coated vertically aligned carbon nanofibers. Journal of Materials Chemistry A, 2013, 1, 1055-1064. | 5.2 | 81 |
| 8 | Graphene/GaSe-Nanosheet Hybrid: Towards High Gain and Fast Photoresponse. Scientific Reports, 2016, 6, 19161. | 1.6 | 79 |
| 9 | Using Bulk Heterojunctions and Selective Electron Trapping to Enhance the Responsivity of Perovskiteâ€“Graphene Photodetectors. Advanced Functional Materials, 2017, 27, 1704173. | 7.8 | 79 |
| 10 | Extraordinary Photocurrent Harvesting at Type-II Heterojunction Interfaces: Toward High Detectivity Carbon Nanotube Infrared Detectors. Nano Letters, 2012, 12, 6244-6249. | 4.5 | 76 |
| 11 | High sensitivity surface enhanced Raman spectroscopy of R6G on in situ fabricated Au nanoparticle/graphene plasmonic substrates. Carbon, 2015, 86, 78-85. | 5.4 | 76 |
| 12 | Extraordinary Sensitivity of Surfaceâ€Enhanced Raman Spectroscopy of Molecules on MoS<sub>2</sub> (WS<sub>2</sub>) Nanodomes/Graphene van der Waals Heterostructure Substrates. Advanced Optical Materials, 2019, 7, 1801249. | 3.6 | 73 |
| 13 | High performance multiwall carbon nanotube bolometers. Journal of Applied Physics, 2010, 108, . | 1.1 | 60 |
| 14 | Localized Surface Plasmon Resonance Enhanced Light Absorption in AuCu/CsPbCl<sub>3</sub> Core/Shell Nanocrystals. Advanced Materials, 2020, 32, e2002163. | 11.1 | 59 |
| 15 | Synchronous growth of AB-stacked bilayer graphene on Cu by simply controlling hydrogen pressure in CVD process. Carbon, 2015, 93, 199-206. | 5.4 | 54 |
| 16 | Plasmonic Au Nanoparticles on 2D MoS<sub>2</sub>/Graphene van der Waals Heterostructures for High-Sensitivity Surface-Enhanced Raman Spectroscopy. ACS Applied Nano Materials, 2019, 2, 1412-1420. | 2.4 | 53 |
| 17 | Interlayer Transition in a vdW Heterostructure toward Ultrahigh Detectivity Shortwave Infrared Photodetectors. Advanced Functional Materials, 2020, 30, 1905687. | 7.8 | 52 |
| 18 | Probing the Dielectric Properties of Ultrathin Al/Al<sub>2</sub>O<sub>3</sub>/Al Trilayers Fabricated Using in Situ Sputtering and Atomic Layer Deposition. ACS Applied Materials & Interfaces, 2018, 10, 3112-3120. | 4.0 | 49 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | High Photoresponse in Hybrid Grapheneâ€“Carbon Nanotube Infrared Detectors. ACS Applied Materials & Interfaces, 2013, 5, 11703-11707. | 4.0 | 47 |
| 20 | Development of pulsed laser deposition for CdS/CdTe thin film solar cells. Applied Physics Letters, 2012, 101, . | 1.5 | 45 |
| 21 | Iron Pyrite (FeS<sub>2</sub>) Broad Spectral and Magnetically Responsive Photodetectors. Advanced Optical Materials, 2013, 1, 78-83. | 3.6 | 44 |
| 22 | Facile zinc oxide nanowire growth on graphene via a hydrothermal floating method: towards Debye length radius nanowires for ultraviolet photodetection. Journal of Materials Chemistry C, 2017, 5, 10087-10093. | 2.7 | 44 |
| 23 | Interactive modeling-synthesis-characterization approach towards controllablein situself-assembly of artificial pinning centers in RE-123 films. Superconductor Science and Technology, 2017, 30, 103002. | 1.8 | 42 |
| 24 | Effects of thermal annealing on noise property and temperature coefficient of resistance of single-walled carbon nanotube films. Applied Physics Letters, 2008, 93, . | 1.5 | 41 |
| 25 | Plasmonic WS<sub>2</sub> Nanodiscs/Graphene van der Waals Heterostructure Photodetectors. ACS Applied Materials & Interfaces, 2019, 11, 33390-33398. | 4.0 | 41 |
| 26 | Micromechanical model for self-organized secondary phase oxide nanorod arrays in epitaxial YBa<sub>2</sub>Cu<sub>3</sub>O<sub>7â^'Î´</sub>films. Philosophical Magazine, 2012, 92, 2911-2922. | 0.7 | 39 |
| 27 | Plasmonic Graphene Transparent Conductors. Advanced Materials, 2012, 24, OP71-6. | 11.1 | 39 |
| 28 | Detangling extrinsic and intrinsic hysteresis for detecting dynamic switch of electric dipoles using graphene field-effect transistors on ferroelectric gates. Nanoscale, 2015, 7, 18489-18497. | 2.8 | 38 |
| 29 | Eliminating thickness dependence of critical current density in YBa2Cu3O7â^'x films with aligned BaZrO3 nanorods. Journal of Applied Physics, 2010, 108, . | 1.1 | 37 |
| 30 | Effective Infiltration of Gel Polymer Electrolyte into Silicon-Coated Vertically Aligned Carbon Nanofibers as Anodes for Solid-State Lithium-Ion Batteries. ACS Applied Materials & Interfaces, 2015, 7, 20909-20918. | 4.0 | 37 |
| 31 | Fused Nanojunctions of Electronâ€Depleted ZnO Nanoparticles for Extraordinary Performance in Ultraviolet Detection. Advanced Materials Interfaces, 2017, 4, 1601064. | 1.9 | 37 |
| 32 | Printable Nanocomposite FeS<sub>2</sub>â€“PbS Nanocrystals/Graphene Heterojunction Photodetectors for Broadband Photodetection. ACS Applied Materials & Interfaces, 2017, 9, 27801-27808. | 4.0 | 37 |
| 33 | Heat-Assisted Inkjet Printing of Tungsten Oxide for High-Performance Ultraviolet Photodetectors. ACS Applied Materials & Interfaces, 2018, 10, 873-879. | 4.0 | 37 |
| 34 | Using Silver Nanoparticles-Embedded Silica Metafilms as Substrates to Enhance the Performance of Perovskite Photodetectors. ACS Applied Materials & Interfaces, 2019, 11, 32301-32309. | 4.0 | 37 |
| 35 | Doped graphene nanohole arrays for flexible transparent conductors. Applied Physics Letters, 2011, 99, . | 1.5 | 36 |
| 36 | Photodetection Based on Ionic Liquid Gated Plasmonic Ag Nanoparticle/Graphene Nanohybrid Field Effect Transistors. Advanced Optical Materials, 2014, 2, 729-736. | 3.6 | 36 |

| # | Article | IF | Citations |
|---|---|---|---|
| 37 | Atomically Thin <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi>Al</mml:mi></mml:mrow><mml:mrow><mml:mn>2</mml:mn></mml:mrow></mml:msub><mml:mrow><mml:mi mathvariant="normal">O</mml:mi></mml:mrow><mml:mrow><mml:mn>3</mml:mn></mml:mrow></mml:msub></mml:mrow></mml: Films for Tunnel Junctions. Physical Review Applied, 2017, 7, . | 1.5 | 35 |
| 38 | Time-Resolved Measurements of Photocarrier Dynamics in TiS<sub>3</sub> Nanoribbons. ACS Applied Materials & Interfaces, 2016, 8, 18334-18338. | 4.0 | 35 |
| 39 | Designing the Interface of Carbon Nanotube/Biomaterials for High-Performance Ultra-Broadband Photodetection. ACS Applied Materials & Interfaces, 2017, 9, 11016-11024. | 4.0 | 34 |
| 40 | Broadband Photodetectors Enabled by Localized Surface Plasmonic Resonance in Doped Iron Pyrite Nanocrystals. Advanced Optical Materials, 2018, 6, 1701241. | 3.6 | 32 |
| 41 | Triangular Graphene Grain Growth on Cubeâ€Textured Cu Substrates. Advanced Functional Materials, 2011, 21, 3868-3874. | 7.8 | 31 |
| 42 | Growing Ultra-flat Organic Films on Graphene with a Face-on Stacking via Moderate Molecule-Substrate Interaction. Scientific Reports, 2016, 6, 28895. | 1.6 | 31 |
| 43 | Study of the Flux Pinning Landscape of YBCO Thin Films With Single and Mixed Phase Additions BaMO3 + Z: M = Hf, Sn, Zr and Z = Y2O3, Y211. IEEE Transactions on Applied Superconductivity, 2017, 27, 1-5. | 1.1 | 31 |
| 44 | 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 |
| 45 | Highly Stable Three Lithium Insertion in Thin V<sub>2</sub>O<sub>5</sub> Shells on Vertically Aligned Carbon Nanofiber Arrays for Ultrahighâ€Capacity Lithium Ion Battery Cathodes. Advanced Materials Interfaces, 2016, 3, 1600824. | 1.9 | 28 |
| 46 | Microscopic adaptation of BaHfO<sub>3</sub>and Y<sub>2</sub>O<sub>3</sub>artificial pinning centers for strong and isotropic pinning landscape in YBa<sub>2</sub>Cu<sub>3</sub>O<sub>7â€“x</sub>thin films. Superconductor Science and Technology, 2018, 31, 025008. | 1.8 | 27 |
| 47 | Au Nanoparticle/WS<sub>2</sub> Nanodome/Graphene van der Waals Heterostructure Substrates for Surface-Enhanced Raman Spectroscopy. ACS Applied Nano Materials, 2020, 3, 2354-2363. | 2.4 | 27 |
| 48 | Graphene/WS<sub>2</sub> 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 |
| 49 | Atomic Layer Deposition of Al-Doped ZnO/Al<sub>2</sub>O<sub>3</sub> Double Layers on Vertically Aligned Carbon Nanofiber Arrays. ACS Applied Materials & Interfaces, 2014, 6, 6865-6871. | 4.0 | 23 |
| 50 | Wrapping cytochrome c around single-wall carbon nanotube: engineered nanohybrid building blocks for infrared detection at high quantum efficiency. Scientific Reports, 2015, 5, 11328. | 1.6 | 22 |
| 51 | Probing the effect of interface on vortex pinning efficiency of one-dimensional BaZrO3 and BaHfO3 artificial pinning centers in YBa2Cu3O7-x thin films. Applied Physics Letters, 2018, 113, . | 1.5 | 22 |
| 52 | Structural transition of secondary phase oxide nanorods in epitaxial YBa<sub>2</sub>Cu<sub>3</sub>O<sub>7â^'Î´</sub>films on vicinal substrates. Philosophical Magazine, 2012, 92, 4205-4214. | 0.7 | 21 |
| 53 | Transfer-free and printable graphene/ZnO-nanoparticle nanohybrid photodetectors with high performance. Journal of Materials Chemistry C, 2017, 5, 6427-6432. | 2.7 | 21 |
| 54 | Controlling the Dirac point voltage of graphene by mechanically bending the ferroelectric gate of a graphene field effect transistor. Materials Horizons, 2019, 6, 302-310. | 6.4 | 21 |

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|---|---|---|---|
| 55 | Inkjet Printing Multicolor Pixelated Quantum Dots on Graphene for Broadband Photodetection. ACS Applied Nano Materials, 2019, 2, 3246-3252. | 2.4 | 21 |
| 56 | Interactive Growth Effects of Rareâ€Earth Nanoparticles on Nanorod Formation in YBa<sub>2</sub>Cu<sub>3</sub>O<sub>x</sub> Thin Films. Advanced Functional Materials, 2013, 23, 4826-4831. | 7.8 | 20 |
| 57 | Enhanced dielectric nonlinearity in epitaxial Pb0.92La0.08Zr0.52Ti0.48O3 thin films. Applied Physics Letters, 2014, 104, . | 1.5 | 20 |
| 58 | Transformational dynamics of BZO and BHO nanorods imposed by Y2O3 nanoparticles for improved isotropic pinning in YBa2Cu3O7-Î´ thin films. AIP Advances, 2017, 7, . | 0.6 | 20 |
| 59 | High-Sensitivity Light Detection via Gate Tuning of Organometallic Perovskite/PCBM Bulk Heterojunctions on Ferroelectric Pb<sub>0.92</sub>La<sub>0.08</sub>Zr<sub>0.52</sub>Ti<sub>0.48</sub>O<sub>3</sub> Gated Graphene Field Effect Transistors. ACS Applied Materials & Interfaces, 2018, 10, 12824-12830. | 4.0 | 20 |
| 60 | Probing the Nucleation of $hbox{Al}_{2}hbox{O}_{3}$ in Atomic Layer Deposition on Aluminum for Ultrathin Tunneling Barriers in Josephson Junctions. IEEE Transactions on Applied Superconductivity, 2013, 23, 1101405-1101405. | 1.1 | 19 |
| 61 | Effect of Interlayer Coupling on Ultrafast Charge Transfer from Semiconducting Molecules to Mono- and Bilayer Graphene. Physical Review Applied, 2015, 4, . | 1.5 | 19 |
| 62 | Influence of the lattice strain decay on the diameter of self assembled secondary phase nanorod array in epitaxial films. Journal of Applied Physics, 2015, 118, . | 1.1 | 19 |
| 63 | Effect of an Interfacial Layer on Electron Tunneling through Atomically Thin Al<sub>2</sub>O<sub>3</sub> Tunnel Barriers. ACS Applied Materials & Interfaces, 2017, 9, 37468-37475. | 4.0 | 18 |
| 64 | Polarityâ€Controlled Attachment of Cytochrome C for Highâ€Performance Cytochrome C/Graphene van der Waals Heterojunction Photodetectors. Advanced Functional Materials, 2018, 28, 1704797. | 7.8 | 18 |
| 65 | Controllable Synthesis of Monodispersed Fe<sub>1â€“x</sub>S<sub>2</sub> Nanocrystals for High-Performance Optoelectronic Devices. ACS Applied Materials & Interfaces, 2019, 11, 19286-19293. | 4.0 | 18 |
| 66 | Oxygen Plasma Surface Activation of Electronâ€Depleted ZnO Nanoparticle Films for Performanceâ€Enhanced Ultraviolet Photodetectors. Physica Status Solidi (A) Applications and Materials Science, 2017, 214, 1700176. | 0.8 | 17 |
| 67 | 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 |
| 68 | Microwave-power handling capability of HgBa2CaCu2O6+Î´ superconducting microstrip lines. Applied Physics Letters, 2001, 79, 2417-2419. | 1.5 | 16 |
| 69 | Fabrication of $hbox{Nb/Al}_{2}hbox{O}_{3}/hbox{Nb}$ Josephson Junctions Using In Situ Magnetron Sputtering and Atomic Layer Deposition. IEEE Transactions on Applied Superconductivity, 2013, 23, 1100705-1100705. | 1.1 | 16 |
| 70 | 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 |
| 71 | Enhancement of Isotropic Pinning Force in YBCO Films With BaZrO3 Nanorods and Y2O 3 Nanoparticles. IEEE Transactions on Applied Superconductivity, 2017, 27, 1-5. | 1.1 | 16 |
| 72 | Intermixed WS<sub>2</sub>+MoS<sub>2</sub> Nanodisks/Graphene van der Waals Heterostructures for Surface-Enhanced Raman Spectroscopy Sensing. ACS Applied Nano Materials, 2021, 4, 2941-2951. | 2.4 | 16 |

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|---|---|---|---|
| 73 | Integrating atomic layer deposition and ultra-high vacuum physical vapor deposition for in situ fabrication of tunnel junctions. Review of Scientific Instruments, 2014, 85, 073904. | 0.6 | 15 |
| 74 | Generating mixed morphology BaZrO<sub>3</sub>artificial pinning centers for strong and isotropic pinning in BaZrO<sub>3</sub>â€“Y<sub>2</sub>O<sub>3</sub>double-doped YBCO thin films. Superconductor Science and Technology, 2017, 30, 125011. | 1.8 | 15 |
| 75 | Printing High-Performance Tungsten Oxide Thin Film Ultraviolet Photodetectors on ZnO Quantum Dot Textured SiO<sub>2</sub> Surface. IEEE Sensors Journal, 2018, 18, 9542-9547. | 2.4 | 15 |
| 76 | A comparative study of 1/fnoise and temperature coefficient of resistance in multiwall and single-wall carbon nanotube bolometers. Nanotechnology, 2011, 22, 265503. | 1.3 | 14 |
| 77 | Functional Metal-oxide Plasmonic Metastructures: Ultrabright Semiconductor Quantum Dots with Polarized Spontaneous Emission and Suppressed Auger Recombination. Physical Review Applied, 2019, 11, . | 1.5 | 14 |
| 78 | Quantum Dots-Facilitated Printing of ZnO Nanostructure Photodetectors with Improved Performance. ACS Applied Materials & Interfaces, 2017, 9, 23189-23194. | 4.0 | 13 |
| 79 | 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 |
| 80 | In situ atomic layer deposition and electron tunneling characterization of monolayer Al2O3 on Fe for magnetic tunnel junctions. AIP Advances, 2018, 8, . | 0.6 | 13 |
| 81 | Photodetectors: Ultrahighâ€Sensitive Broadband Photodetectors Based on Dielectric Shielded MoTe<sub>2</sub>/Graphene/SnS<sub>2</sub> pâ€“gâ€“n Junctions (Adv. Mater. 6/2019). Advanced Materials, 2019, 31, 1970040. | 11.1 | 13 |
| 82 | Flexible Zinc Oxide Nanowire Array/Graphene Nanohybrid for High-Sensitivity Strain Detection. ACS Omega, 2020, 5, 27359-27367. | 1.6 | 12 |
| 83 | ZnO/graphene heterostructure nanohybrids for optoelectronics and sensors. Journal of Applied Physics, 2021, 130, . | 1.1 | 12 |
| 84 | Enhancing magnetic pinning by BaZrO<sub>3</sub>nanorods forming coherent interface by strain-directed Ca-doping in YBa<sub>2</sub>Cu<sub>3</sub>O<sub>7âˆ’x</sub>nanocomposite films. Superconductor Science and Technology, 2021, 34, 104002. | 1.8 | 12 |
| 85 | Dimension effect on the performance of carbon nanotube nanobolometers. Nanotechnology, 2014, 25, 425503. | 1.3 | 11 |
| 86 | Scalable Grapheneâ€onâ€Organometal Halide Perovskite Heterostructure Fabricated by Dry Transfer. Advanced Materials Interfaces, 2019, 6, 1801419. | 1.9 | 11 |
| 87 | Effect ofIn SituThermal Annealing on Structural, Optical, and Electrical Properties of CdS/CdTe Thin Film Solar Cells Fabricated by Pulsed Laser Deposition. Advances in Condensed Matter Physics, 2016, 2016, 1-8. | 0.4 | 10 |
| 88 | Hot Exciton Relaxation and Exciton Trapping in Single-Walled Carbon Nanotube Thin Films. Journal of Physical Chemistry C, 2016, 120, 24482-24490. | 1.5 | 10 |
| 89 | Highâ€Performance Photodetectors Based on Effective Exciton Dissociation in Proteinâ€Adsorbed Multiwalled Carbon Nanotube Nanohybrids. Advanced Optical Materials, 2017, 5, 1600478. | 3.6 | 10 |
| 90 | Disordered Bilayered V<sub>2</sub>O<sub>5</sub>â€‰â‹…â€‰nH<sub>2</sub>O Shells Deposited on Vertically Aligned Carbon Nanofiber Arrays as Stable Highâ€Capacity Sodium Ion Battery Cathodesâ€‰â‹…… Energy Technology, 2018, 6, 2438-2449. | 1.8 | 10 |

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|---|---|---|---|
| 91 | Effect of Al<sub>2</sub>O<sub>3</sub> Seed-Layer on the Dielectric and Electrical Properties of Ultrathin MgO Films Fabricated Using In Situ Atomic Layer Deposition. ACS Applied Materials & Interfaces, 2019, 11, 30368-30375. | 4.0 | 10 |
| 92 | Electron tunneling properties of Al2O3 tunnel barrier made using atomic layer deposition in multilayer devices. AIP Advances, 2019, 9, . | 0.6 | 10 |
| 93 | Inkjet-Printed Imbedded Graphene Nanoplatelet/Zinc Oxide Bulk Heterojunctions Nanocomposite Films for Ultraviolet Photodetection. ACS Omega, 2019, 4, 22497-22503. | 1.6 | 10 |
| 94 | Development of an ALD-Pt@SWCNT/Graphene 3D Nanohybrid Architecture for Hydrogen Sensing. ACS Applied Materials & Interfaces, 2020, 12, 53115-53124. | 4.0 | 10 |
| 95 | Ultrahigh Brightening of Infrared PbS Quantum Dots via Collective Energy Transfer Induced by a Metal-Oxide Plasmonic Metastructure. ACS Applied Materials & Interfaces, 2020, 12, 11913-11921. | 4.0 | 10 |
| 96 | Double Ag Nanowires on a Bilayer MoS<sub>2</sub> Flake for Surface-Enhanced Raman Scattering. Journal of Physical Chemistry C, 2021, 125, 1940-1946. | 1.5 | 10 |
| 97 | Ion beam assisted deposition of textured magnesium oxide templates on un-buffered glass and silicon substrates. Journal of Materials Research, 2006, 21, 194-198. | 1.2 | 9 |
| 98 | The effect of annealing on the photoconductivity of carbon nanofiber/TiO2 core-shell nanowires for use in dye-sensitized solar cells. Applied Physics Letters, 2010, 97, 043102. | 1.5 | 9 |
| 99 | Artificial pinning centers in (Y, RE)-Ba-Cu-O superconductors: recent progress and future perspective. Superconductor Science and Technology, 2020, 33, 040301. | 1.8 | 9 |
| 100 | Nanohybrid Photodetectors. Advanced Photonics Research, 2021, 2, 2100015. | 1.7 | 9 |
| 101 | Fabrication and characterization of two-pole X-band HgBa2CaCu2O6+Î´ microstrip filters. Applied Physics Letters, 2006, 88, 092507. | 1.5 | 8 |
| 102 | In situ switch of boron nanowire growth mode from vapor-liquid-solid to oxide-assisted growth. Applied Physics Letters, 2008, 92, . | 1.5 | 8 |
| 103 | Cationâ€“Ï€ Interaction Assisted Molecule Attachment and Photocarrier Transfer in Rhodamine/Graphene Heterostructures. Advanced Materials Interfaces, 2020, 7, 2000796. | 1.9 | 8 |
| 104 | Probing the Origin of Light-Enhanced Ion Diffusion in Halide Perovskites. ACS Applied Materials & Interfaces, 2021, 13, 33609-33617. | 4.0 | 8 |
| 105 | Enabling coherent BaZrO<sub>3</sub>nanorods/YBa<sub>2</sub>Cu<sub>3</sub>O<sub>7âˆ’x</sub>interface through dynamic lattice enlargement in vertical epitaxy of BaZrO<sub>3</sub>/YBa<sub>2</sub>Cu<sub>3</sub>O<sub>7âˆ’x</sub>nanocomposites. Superconductor Science and Technology, 2022, 35, 034001. | 1.8 | 8 |
| 106 | Third-order intermodulation in two-pole X-band HgBa2CaCu2O6+Î´ microstrip filters. Applied Physics Letters, 2007, 91, . | 1.5 | 7 |
| 107 | Study of ArÂ+ÂO2 deposition pressures on properties of pulsed laser deposited CdTe thin films at high substrate temperature. Journal of Materials Science: Materials in Electronics, 2014, 25, 1901-1907. | 1.1 | 7 |
| 108 | Plasmonic Three-Dimensional Transparent Conductor Based on Al-Doped Zinc Oxide-Coated Nanostructured Glass Using Atomic Layer Deposition. ACS Applied Materials & Interfaces, 2015, 7, 8556-8561. | 4.0 | 7 |

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|---|---|---|---|
| 109 | Comparison Study of the Flux Pinning Enhancement of YBa<sub>2</sub>Cu<sub>3</sub>O<sub>7â^'Î´</sub> Thin Films With BaHfO<sub>3</sub> + Y<sub>2</sub>O<sub>3</sub> Single- and Mixed-Phase Additions. IEEE Transactions on Applied Superconductivity, 2019, 29, 1-5. | 1.1 | 7 |
| 110 | High Tunneling Magnetoresistance in Magnetic Tunnel Junctions with Subnanometer Thick Al<sub>2</sub>O<sub>3</sub> Tunnel Barriers Fabricated Using Atomic Layer Deposition. ACS Applied Materials & Interfaces, 2021, 13, 15738-15745. | 4.0 | 7 |
| 111 | Application of near-field scanning microwave microprobe to electrical current density mapping. Applied Physics Letters, 2005, 86, 234101. | 1.5 | 6 |
| 112 | Combining Near-Field Scanning Microwave Microscopy With Transport Measurement for Imaging Current-Obstructing Defects in HTS Films. IEEE Transactions on Applied Superconductivity, 2007, 17, 3219-3222. | 1.1 | 6 |
| 113 | Probing Microscopic Strain Interplay Due to Impurity Doping and Vicinal Growth and Its Effect on Pinning Landscape in YBCO Films. IEEE Transactions on Applied Superconductivity, 2015, 25, 1-5. | 1.1 | 6 |
| 114 | The angular range of effective pinning by one-dimensional artificial pinning centers in BaZrO3/YBa2Cu3O7-x nanocomposite films. AIP Advances, 2019, 9, . | 0.6 | 6 |
| 115 | Ternary FePSe 3 Atomic Layers with Competitive Temperature Coefficient of Resistance for Uncooled Infrared Bolometers. Advanced Materials Interfaces, 2021, 8, 2100491. | 1.9 | 6 |
| 116 | Development of a dual-channel scanning microwave/optical microprobe. Applied Physics Letters, 2004, 84, 1979-1981. | 1.5 | 5 |
| 117 | Textured Ion-Beam Assisted Deposition: Magnesium Oxide Template on Non-Metallic Flexible Ceraflex for Epitaxial Growth of Perovskite Films. Journal of Electronic Materials, 2007, 36, 1258-1264. | 1.0 | 5 |
| 118 | Microstructural Characterization of ${m YBa}_{2}{m Cu}_{3}{m O}_{7-{m x}}$ Films With ${m BaZrO}_{3}$ Nanorods Grown on Vicinal ${m SrTiO}_{3}$ Substrates. IEEE Transactions on Applied Superconductivity, 2009, 19, 3371-3374. | 1.1 | 5 |
| 119 | A Comparative Study of Nonlinear Microwave Properties in ${m YBa}_{2}{m Cu}_{3}{m O}_{7}$, TlBaCaCuO and HgBaCaCuO Microstrip Resonators. IEEE Transactions on Applied Superconductivity, 2009, 19, 2913-2916. | 1.1 | 5 |
| 120 | Development of Combinatorial Pulsed Laser Deposition for Expedited Device Optimization in CdTe/CdS Thin-Film Solar Cells. International Journal of Optics, 2016, 2016, 1-7. | 0.6 | 5 |
| 121 | Pinning Efficiency of One-Dimensional Artificial Pinning Centers in YBa<sub>2</sub>Cu<sub>3</sub>O<sub>7-x</sub> Thin Films. IEEE Transactions on Applied Superconductivity, 2019, 29, 1-5. | 1.1 | 5 |
| 122 | Ligands Anchoring Stabilizes Metal Halide Perovskite Nanocrystals. Advanced Optical Materials, 0, , 2101012. | 3.6 | 5 |
| 123 | Mixed Artificial Pining Centers by Single-Doping BaZrO $_{ext{3}}$ and Double-Doping BaZrO $_{ext{3}}$+Y$_{ext{2}}$ O$_{ext{3}}$ YBa $_{ext{2}}$Cu $_{ext{3}}$O $_{ext{7}}$â^'x on Flat and Vicinal Substrates. IEEE Transactions on Applied Superconductivity, 2018, 28, 1-4. | 1.1 | 4 |
| 124 | Intervalley Quantum Coherence Transfer and Coherently-Induced Chiral Plasmon Fields in WS<sub>2</sub>â€“Metallic Nanoantenna Systems. ACS Photonics, 2019, 6, 2441-2449. | 3.2 | 4 |
| 125 | Lateral Graphene pâ€“n Junctions Realized by Nanoscale Bipolar Doping Using Surface Electric Dipoles and Selfâ€Organized Molecular Anions. Advanced Materials Interfaces, 2019, 6, 1801380. | 1.9 | 4 |
| 126 | Switching On/Off Negative Capacitance in Ultrathin Ferroelectric/Dielectric Capacitors. ACS Applied Materials & Interfaces, 2020, 12, 9902-9908. | 4.0 | 4 |

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|---|---|---|---|
| 127 | Gain without inversion and enhancement of refractive index via intervalley quantum coherence transfer in hybrid WS2 -metallic nanoantenna systems. Physical Review A, 2021, 103, . | 1.0 | 4 |
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