# Ying-Hao Chu

## List of Publications by Year in Descending Order



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|---|---|---|---|
| 345 papers | 23,213 citations | 72 h-index | 145 g-index |
| 364 ext. papers | 25,369 ext. citations | 9.2 avg, IF | 6.6 L-index |

| # | Paper | IF | Citations |
|---|---|---|---|
| 345 | Atomically resolved interlayer electronic states in complex oxides by using cross-sectional scanning tunneling microscopy. *Progress in Surface Science*, **2022**, 100662 | 6.6 | |
| 344 | Flexoelectric Domain Walls Originated from Structural Phase Transition in Epitaxial BiVO Films.. *Small*, **2022**, e2107540 | 11 | 0 |
| 343 | A top-down strategy for amorphization of hydroxyl compounds for electrocatalytic oxygen evolution.. *Nature Communications*, **2022**, 13, 1187 | 17.4 | 8 |
| 342 | Flexible Epsilon Iron Oxide Thin Films. *ACS Applied Materials & Interfaces*, **2021**, 13, 17006-17012 | 9.5 | 4 |
| 341 | Structural Anisotropy Determining the Oxygen Evolution Mechanism of Strongly Correlated Perovskite Nickelate Electrocatalyst. *ACS Sustainable Chemistry and Engineering*, **2021**, 9, 4262-4270 | 8.3 | 8 |
| 340 | Fabrication of Large-Scale High-Mobility Flexible Transparent Zinc Oxide Single Crystal Wafers. *ACS Applied Materials & Interfaces*, **2021**, 13, 18991-18998 | 9.5 | 0 |
| 339 | Flexible BiVO/WO/ITO/Muscovite Heterostructure for Visible-Light Photoelectrochemical Photoelectrode. *ACS Applied Materials & Interfaces*, **2021**, 13, 21186-21193 | 9.5 | 2 |
| 338 | One-Step Surface-Plasma-Induced Exfoliation of the Graphite/WS2 Bilayer into Homogeneous Two-Dimensional Graphene/WS2 Nanosheet Composites as Catalysts for the Hydrogen Evolution Reaction. *ACS Applied Energy Materials*, **2021**, 4, 5143-5154 | 6.1 | 8 |
| 337 | Remote growth of oxide heteroepitaxy through MoS2. *APL Materials*, **2021**, 9, 051115 | 5.7 | 1 |
| 336 | Generation and coherent control of terahertz acoustic phonons in superlattices of perovskite oxides. *New Journal of Physics*, **2021**, 23, 053009 | 2.9 | 4 |
| 335 | Properties of stress-induced super tetragonal phase in epitaxial BiFeO3 thin film. *Applied Physics Letters*, **2021**, 118, 242903 | 3.4 | |
| 334 | Dislocation-induced large local polarization inhomogeneity of ferroelectric materials. *Scripta Materialia*, **2021**, 194, 113624 | 5.6 | 2 |
| 333 | The microstructure and ferroelectric properties of PbZr0.52Ti0.48O3 films on mica substrates. *Ceramics International*, **2021**, 47, 9252-9257 | 5.1 | 3 |
| 332 | Strain engineering of optical properties in transparent VO/muscovite heterostructures. *Physical Chemistry Chemical Physics*, **2021**, 23, 8908-8915 | 3.6 | 8 |
| 331 | Advances in strain engineering on oxide heteroepitaxy. *Matter*, **2021**, 4, 2117-2119 | 12.7 | 1 |
| 330 | Antiferroelectric Anisotropy of Epitaxial PbHfO3 Films for Flexible Energy Storage. *Advanced Functional Materials*, **2021**, 31, 2105060 | 15.6 | 5 |
| 329 | Evidence for largest room temperature magnetic signal from Co2+ in antiphase-free & fully inverted CoFe2O4 in multiferroic-ferrimagnetic BiFeO3-CoFe2O4 nanopillar thin films. *Journal of Magnetism and Magnetic Materials*, **2021**, 530, 167940 | 2.8 | 1 |

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| 328 | High-stability transparent flexible energy storage based on PbZrO3/muscovite heterostructure. *Nano Energy*, **2021**, 87, 106149 | 17.1 | 8 |
| 327 | Negatively Charged In-Plane and Out-Of-Plane Domain Walls with Oxygen-Vacancy Agglomerations in a Ca-Doped Bismuth-Ferrite Thin Film. *ACS Applied Electronic Materials*, **2021**, 3, 4498-4508 | 4 | 1 |
| 326 | The superparaelectric battery. *Science*, **2021**, 374, 33-34 | 33.3 | |
| 325 | Scalable T-Gate Aligned Gr□WS2□r Radio-Frequency Field-Effect Transistors. *ACS Applied Electronic Materials*, **2020**, 2, 3898-3905 | 4 | 6 |
| 324 | Transparent Flexible Heteroepitaxy of NiO Coated AZO Nanorods Arrays on Muscovites for Enhanced Energy Storage Application. *Small*, **2020**, 16, e2000020 | 11 | 5 |
| 323 | Manipulating magnetoelectric energy landscape in multiferroics. *Nature Communications*, **2020**, 11, 2836 | 17.4 | 18 |
| 322 | Mechanically controllable nonlinear dielectrics. *Science Advances*, **2020**, 6, eaaz3180 | 14.3 | 12 |
| 321 | Observing topotactic phase transformation and resistive switching behaviors in low power SrCoOx memristor. *Nano Energy*, **2020**, 72, 104683 | 17.1 | 19 |
| 320 | Mechanically tunable exchange coupling of Co/CoO bilayers on flexible muscovite substrates. *Nanoscale*, **2020**, 12, 3284-3291 | 7.7 | 8 |
| 319 | Unexpected Giant Microwave Conductivity in a Nominally Silent BiFeO Domain Wall. *Advanced Materials*, **2020**, 32, e1905132 | 24 | 11 |
| 318 | Thickness dependence of transport behaviors in SrRuO3/SrTiO3 superlattices. *Physical Review Materials*, **2020**, 4, | 3.2 | 11 |
| 317 | Revealing a metastable cubic phase in CoFe2O4□SrTiO3 three-dimensional network heteroepitaxial nanostructure. *Journal of Applied Physics*, **2020**, 128, 225303 | 2.5 | |
| 316 | Proton-Mediated Phase Control in Flexible and Transparent Mott Transistors. *Advanced Electronic Materials*, **2020**, 6, 1900742 | 6.4 | 12 |
| 315 | Graphene-Transition Metal Dichalcogenide Heterojunctions for Scalable and Low-Power Complementary Integrated Circuits. *ACS Nano*, **2020**, 14, 985-992 | 16.7 | 20 |
| 314 | Effects of pillar size modulation on the magneto-structural coupling in self-assembled BiFeO3□CoFe2O4 heteroepitaxy. *CrystEngComm*, **2020**, 22, 435-440 | 3.3 | 9 |
| 313 | Self-assembled gold nanostructures in complex oxide thin films. *Materials Characterization*, **2020**, 159, 110069 | 3.9 | 1 |
| 312 | Observation of oxygen pyramid tilting induced polarization rotation in strained BiFeO3 thin film. *Journal of the American Ceramic Society*, **2020**, 103, 2828-2834 | 3.8 | |
| 311 | Photovoltaic and flexible deep ultraviolet wavelength detector based on novel □GaO/muscovite heteroepitaxy. *Scientific Reports*, **2020**, 10, 16098 | 4.9 | 13 |

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| 310 | Mechanical Modulation of Colossal Magnetoresistance in Flexible Epitaxial Perovskite Manganite. *Advanced Functional Materials*, **2020**, 30, 2004597 | 15.6 | 12 |
| 309 | Atomic-environment-dependent thickness of ferroelastic domain walls near dislocations. *Acta Materialia*, **2020**, 188, 635-640 | 8.4 | |
| 308 | Piezoresponse force microscopy imaging and its correlation with cantilever spring constant and frequency. *Journal of Applied Physics*, **2020**, 128, 084101 | 2.5 | 0 |
| 307 | Atomic structure and properties of a perovskite/spinel (111) interface. *Physical Review B*, **2020**, 102, | 3.3 | 2 |
| 306 | Flexible transparent heteroepitaxial conducting oxide with mobility exceeding 100 cm2 V□1 s□1 at room temperature. *NPG Asia Materials*, **2020**, 12, | 10.3 | 3 |
| 305 | Dynamical Strain-Driven Phase Separation in Flexible CoFeO/CoO Exchange Coupling System. *ACS Applied Materials & Interfaces*, **2020**, 12, 46874-46882 | 9.5 | 6 |
| 304 | van der Waals oxide heteroepitaxy for soft transparent electronics. *Nanoscale*, **2020**, 12, 18523-18544 | 7.7 | 8 |
| 303 | Giant Resistivity Change of Transparent ZnO/Muscovite Heteroepitaxy. *ACS Applied Materials & Interfaces*, **2020**, 12, 21818-21826 | 9.5 | 6 |
| 302 | Topological Hall Effect in Single Thick SrRuO3 Layers Induced by Defect Engineering. *Advanced Electronic Materials*, **2020**, 6, 2000184 | 6.4 | 15 |
| 301 | Thickness dependence of the anomalous Hall effect in thin films of the topological semimetal Co2MnGa. *Physical Review B*, **2019**, 100, | 3.3 | 33 |
| 300 | Heteroepitaxy of Co-Based Heusler Compound/Muscovite for Flexible Spintronics. *ACS Applied Materials & Interfaces*, **2019**, 11, 35162-35168 | 9.5 | 11 |
| 299 | Highly efficient flexible organic light-emitting diodes based on a high-temperature durable mica substrate. *Organic Electronics*, **2019**, 75, 105442 | 3.5 | 6 |
| 298 | Tailoring Magnetoelectric Coupling in BiFeO /La Sr MnO Heterostructure through the Interface Engineering. *Advanced Materials*, **2019**, 31, e1806335 | 24 | 35 |
| 297 | van der Waals heteroepitaxy on muscovite. *Materials Chemistry and Physics*, **2019**, 234, 185-195 | 4.4 | 29 |
| 296 | Pulsed laser deposition of complex oxide heteroepitaxy. *Chinese Journal of Physics*, **2019**, 60, 481-501 | 3.5 | 12 |
| 295 | Deterministic optical control of room temperature multiferroicity in BiFeO thin films. *Nature Materials*, **2019**, 18, 580-587 | 27 | 41 |
| 294 | Electrical polarization induced by atomically engineered compositional gradient in complex oxide solid solution. *NPG Asia Materials*, **2019**, 11, | 10.3 | 4 |
| 293 | Highly flexible, robust, stable and high efficiency perovskite solar cells enabled by van der Waals epitaxy on mica substrate. *Nano Energy*, **2019**, 60, 476-484 | 17.1 | 44 |

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| 292 | Direct observation of weakened interface clamping effect enabled ferroelastic domain switching. *Acta Materialia*, **2019**, 171, 184-189 | 8.4 | 8 |
| 291 | Ultrasensitivity of self-powered wireless triboelectric vibration sensor for operating in underwater environment based on surface functionalization of rice husks. *Nano Energy*, **2019**, 60, 715-723 | 17.1 | 26 |
| 290 | Nondestructive Mapping of Long-Range Dislocation Strain Fields in an Epitaxial Complex Metal Oxide. *Nano Letters*, **2019**, 19, 1445-1450 | 11.5 | 10 |
| 289 | Enhanced Ferroelectric Functionality in Flexible Lead Zirconate Titanate Films with In Situ Substrate-Clamping Compensation. *Advanced Electronic Materials*, **2019**, 5, 1900428 | 6.4 | 4 |
| 288 | Oxide Heteroepitaxy-Based Flexible Ferroelectric Transistor. *ACS Applied Materials & Interfaces* , **2019**, 11, 25882-25890 | 9.5 | 22 |
| 287 | Real time imaging of two-dimensional iron oxide spherulite nanostructure formation. *Nano Research*, **2019**, 12, 2889-2893 | 10 | 4 |
| 286 | Wearable Gallium Oxide Solar-Blind Photodetectors on Muscovite Mica Having Ultrahigh Photoresponsivity and Detectivity with Added High-Temperature Functionalities. *ACS Applied Electronic Materials*, **2019**, 1, 2463-2470 | 4 | 25 |
| 285 | Tunable disorder and localization in the rare-earth nickelates. *Physical Review Materials*, **2019**, 3, | 3.2 | 5 |
| 284 | Manipulate the Electronic and Magnetic States in NiCo O Films through Electric-Field-Induced Protonation at Elevated Temperature. *Advanced Materials*, **2019**, 31, e1900458 | 24 | 39 |
| 283 | Anisotropic superconductivity induced by periodic multiferroic domain patterns. *NPG Asia Materials* , **2019**, 11, | 10.3 | 3 |
| 282 | Energy Band Gap Modulation in Nd-Doped BiFeO/SrRuO Heteroepitaxy for Visible Light Photoelectrochemical Activity. *ACS Applied Materials & Interfaces*, **2019**, 11, 1655-1664 | 9.5 | 12 |
| 281 | Self-Assembled Ferroelectric Nanoarray. *ACS Applied Materials & Interfaces*, **2019**, 11, 2205-2210 | 9.5 | 5 |
| 280 | Van der Waals heteroepitaxial AZO/NiO/AZO/muscovite (ANA/muscovite) transparent flexible memristor. *Nano Energy*, **2019**, 56, 322-329 | 17.1 | 93 |
| 279 | Microstructure evolution determined by the crystalline phases competition in self-assembled WO3-BiVO4 hetero nanostructures. *Journal of Applied Physics*, **2018**, 123, 085305 | 2.5 | 4 |
| 278 | Development of magnetoelectric nanocomposite for soft technology. *Journal Physics D: Applied Physics*, **2018**, 51, 234006 | 3 | 7 |
| 277 | Discovery of a magnetic conductive interface in PbZrTiO /SrTiO heterostructures. *Nature Communications*, **2018**, 9, 685 | 17.4 | 12 |
| 276 | Atomic Heterointerfaces and Electrical Transportation Properties in Self-Assembled LaNiO3NiO Heteroepitaxy. *Advanced Materials Interfaces*, **2018**, 5, 1701202 | 4.6 | 5 |
| 275 | Atomically Resolved Electronic States and Correlated Magnetic Order at Termination Engineered Complex Oxide Heterointerfaces. *ACS Nano*, **2018**, 12, 1089-1095 | 16.7 | 8 |

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| 274 | Giant Photoresponse in Quantized SrRuO3 Monolayer at Oxide Interfaces. *ACS Photonics*, **2018**, 5, 1041-1049 | 6.5 | 17 |
| 273 | Tuning Fe concentration in epitaxial gallium ferrite thin films for room temperature multiferroic properties. *Acta Materialia*, **2018**, 145, 488-495 | 8.4 | 20 |
| 272 | A gate-free monolayer WSe pn diode. *Nature Communications*, **2018**, 9, 3143 | 17.4 | 66 |
| 271 | Characterization of domain distributions by second harmonic generation in ferroelectrics. *Npj Computational Materials*, **2018**, 4, | 10.9 | 17 |
| 270 | Dry lubrication of friction on ferroelectric BiFeO3 film. *Applied Surface Science*, **2018**, 457, 797-803 | 6.7 | 4 |
| 269 | Electric Field Writing of Ferroelectric Nano-Domains Near 71° Domain Walls with Switchable Interfacial Conductivity. *Annalen Der Physik*, **2018**, 530, 1800130 | 2.6 | 5 |
| 268 | Flexible Heteroepitaxy Photoelectrode for Photo-electrochemical Water Splitting. *ACS Applied Energy Materials*, **2018**, 1, 3900-3907 | 6.1 | 15 |
| 267 | Transparent Antiradiative Ferroelectric Heterostructure Based on Flexible Oxide Heteroepitaxy. *ACS Applied Materials & Interfaces*, **2018**, 10, 30574-30580 | 9.5 | 19 |
| 266 | Thermoelectrics: A Nanostructuring Method to Decouple Electrical and Thermal Transport through the Formation of Electrically Triggered Conductive Nanofilaments (Adv. Mater. 28/2018). *Advanced Materials*, **2018**, 30, 1870243 | 24 | |
| 265 | Deterministic, Reversible, and Nonvolatile Low-Voltage Writing of Magnetic Domains in Epitaxial BaTiO/FeO Heterostructure. *ACS Nano*, **2018**, 12, 9558-9567 | 16.7 | 34 |
| 264 | Conductive tail-to-tail domain walls in epitaxial BiFeO3 films. *Applied Physics Letters*, **2018**, 113, 082904 | 3.4 | 12 |
| 263 | Ultrafast Giant Photostriction of Epitaxial Strontium Iridate Film with Superior Endurance. *Nano Letters*, **2018**, 18, 7742-7748 | 11.5 | 12 |
| 262 | Epitaxial Yttria-Stabilized Zirconia on Muscovite for Flexible Transparent Ionic Conductors. *ACS Applied Nano Materials*, **2018**, 1, 6890-6896 | 5.6 | 8 |
| 261 | Dynamics of Nanoscale Dendrite Formation in Solution Growth Revealed Through in Situ Liquid Cell Electron Microscopy. *Nano Letters*, **2018**, 18, 6427-6433 | 11.5 | 28 |
| 260 | Complex strain evolution of polar and magnetic order in multiferroic BiFeO thin films. *Nature Communications*, **2018**, 9, 3764 | 17.4 | 30 |
| 259 | Antiferromagnetic Interfacial Coupling and Giant Magnetic Hysteresis in LaCaMnO-SrRuO Superlattices. *ACS Omega*, **2018**, 3, 14266-14273 | 3.9 | 2 |
| 258 | Electrostatic potential and valence modulation in LaSrMnO thin films. *Scientific Reports*, **2018**, 8, 14313 | 4.9 | 6 |
| 257 | Depth-dependent atomic valence determination by synchrotron techniques. *Journal of Synchrotron Radiation*, **2018**, 25, 1711-1718 | 2.4 | |

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| 256 | A Nanostructuring Method to Decouple Electrical and Thermal Transport through the Formation of Electrically Triggered Conductive Nanofilaments. *Advanced Materials*, **2018**, 30, e1705385 | 24 | 12 |
| 255 | Development of oxide heteroepitaxy for soft technology. *Journal of Materials Chemistry C*, **2018**, 6, 6102-6117 | 7.6 | 18 |
| 254 | Atomic-scale mechanism of internal structural relaxation screening at polar interfaces. *Physical Review B*, **2018**, 97, | 3.3 | 3 |
| 253 | Enhancing the magnetic moment of ferrimagnetic NiCo2O4 via ion irradiation driven oxygen vacancies. *APL Materials*, **2018**, 6, 066109 | 5.7 | 15 |
| 252 | In-situ Multimodal Imaging and Spectroscopy of Mg Electrodeposition at Electrode-Electrolyte Interfaces. *Scientific Reports*, **2017**, 7, 42527 | 4.9 | 14 |
| 251 | In-situ TEM observation of Multilevel Storage Behavior in low power FeRAM device. *Nano Energy*, **2017**, 34, 103-110 | 17.1 | 29 |
| 250 | Flexible Heteroepitaxy of CoFeO/Muscovite Bimorph with Large Magnetostriction. *ACS Applied Materials & Interfaces*, **2017**, 9, 7297-7304 | 9.5 | 82 |
| 249 | Strain Coupling of Conversion-type Fe O Thin Films for Lithium Ion Batteries. *Angewandte Chemie - International Edition*, **2017**, 56, 7813-7816 | 16.4 | 46 |
| 248 | The preparation, and structural and multiferroic properties of B-site ordered double-perovskite Bi2FeMnO6. *Journal of Materials Chemistry C*, **2017**, 5, 5494-5500 | 7.1 | 19 |
| 247 | Atomic-Scale Mechanisms of Defect-Induced Retention Failure in Ferroelectrics. *Nano Letters*, **2017**, 17, 3556-3562 | 11.5 | 36 |
| 246 | Photostriction of strontium ruthenate. *Nature Communications*, **2017**, 8, 15018 | 17.4 | 36 |
| 245 | Flexible PbZr0.52Ti0.48O3 Capacitors with Giant Piezoelectric Response and Dielectric Tunability. *Advanced Electronic Materials*, **2017**, 3, 1600542 | 6.4 | 66 |
| 244 | Possible absence of critical thickness and size effect in ultrathin perovskite ferroelectric films. *Nature Communications*, **2017**, 8, 15549 | 17.4 | 74 |
| 243 | Flexible Multiferroic Bulk Heterojunction with Giant Magnetoelectric Coupling via van der Waals Epitaxy. *ACS Nano*, **2017**, 11, 6122-6130 | 16.7 | 88 |
| 242 | Flexible ferroelectric element based on van der Waals heteroepitaxy. *Science Advances*, **2017**, 3, e1700121 | 14.3 | 130 |
| 241 | WO3 mesocrystal-assisted photoelectrochemical activity of BiVO4. *NPG Asia Materials*, **2017**, 9, e357-e357 | 10.3 | 47 |
| 240 | Magnetic and Magnetodielectric Properties of Epitaxial Iron Vanadate Thin Films. *Advanced Electronic Materials*, **2017**, 3, 1600295 | 6.4 | 7 |
| 239 | Scalable van der Waals Heterojunctions for High-Performance Photodetectors. *ACS Applied Materials & Interfaces*, **2017**, 9, 36181-36188 | 9.5 | 23 |

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| 238 | Spin filtering of a termination-controlled LSMO/Alq3 heterojunction for an organic spin valve. *Journal of Materials Chemistry C*, **2017**, 5, 9128-9137 | 7.1 | 5 |
| 237 | Photostriction of CH NH PbBr Perovskite Crystals. *Advanced Materials*, **2017**, 29, 1701789 | 24 | 59 |
| 236 | MICAtronics: A new platform for flexible X-tronics. *FlatChem*, **2017**, 3, 26-42 | 5.1 | 101 |
| 235 | Rewritable ferroelectric vortex pairs in BiFeO3. *Npj Quantum Materials*, **2017**, 2, | 5 | 48 |
| 234 | Strain Coupling During Lithiation of a Fe3O4/SrTiO3 Epitaxial Thin Film. *Microscopy and Microanalysis*, **2017**, 23, 1436-1437 | 0.5 | |
| 233 | A Strain-Driven Antiferroelectric-to-Ferroelectric Phase Transition in La-Doped BiFeO Thin Films on Si. *Nano Letters*, **2017**, 17, 5823-5829 | 11.5 | 47 |
| 232 | Partial Ferroelastic Domain Mediated Ferroelectric Domain Switching. *Microscopy and Microanalysis* , **2017**, 23, 1624-1625 | 0.5 | |
| 231 | Van der Waals oxide heteroepitaxy. *Npj Quantum Materials*, **2017**, 2, | 5 | 97 |
| 230 | Magnetic-coupled phase anomaly in mixed-phase BiFeO3 thin films. *APL Materials*, **2017**, 5, 086112 | 5.7 | 4 |
| 229 | Field enhancement of electronic conductance at ferroelectric domain walls. *Nature Communications* , **2017**, 8, 1318 | 17.4 | 22 |
| 228 | Role of indium tin oxide electrode on the microstructure of self-assembled WO3-BiVO4 hetero nanostructures. *Journal of Applied Physics*, **2017**, 122, 175301 | 2.5 | 5 |
| 227 | Microstructure evolution with composition ratio in self-assembled WO3BiVO4 hetero nanostructures for water splitting. *Journal of Materials Research*, **2017**, 32, 2790-2799 | 2.5 | 11 |
| 226 | A Metal-Insulator Transition of the Buried MnO Monolayer in Complex Oxide Heterostructure. *Advanced Materials*, **2016**, 28, 9142-9151 | 24 | 14 |
| 225 | Heteroepitaxy of FeO/Muscovite: A New Perspective for Flexible Spintronics. *ACS Applied Materials & Interfaces*, **2016**, 8, 33794-33801 | 9.5 | 83 |
| 224 | Self-Assembled BiFeO3-Fe2O3 Vertical Heteroepitaxy for Visible Light Photoelectrochemistry. *Advanced Energy Materials*, **2016**, 6, 1600686 | 21.8 | 43 |
| 223 | Single-Phase Type-I Multiferroics. *Series in Materials Science and Engineering*, **2016**, 33-65 | | |
| 222 | Atomic mechanism of polarization-controlled surface reconstruction in ferroelectric thin films. *Nature Communications*, **2016**, 7, 11318 | 17.4 | 48 |
| 221 | Nanochips of Tantalum Oxide Nanodots as artificial-microenvironments for monitoring Ovarian cancer progressiveness. *Scientific Reports*, **2016**, 6, 31998 | 4.9 | 11 |

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|---|---|---|---|
| 220 | Permanent ferroelectric retention of BiFeO mesocrystal. *Nature Communications*, **2016**, 7, 13199 | 17.4 | 33 |
| 219 | Crossover between superconductivity and magnetism in SrRuO mesocrystal embedded YBaCuO heterostructures. *Nanoscale*, **2016**, 8, 18454-18460 | 7.7 | 3 |
| 218 | Oxide Heteroepitaxy for Flexible Optoelectronics. *ACS Applied Materials & Interfaces*, **2016**, 8, 32401-32407 | 9.5 | 62 |
| 217 | Hidden lattice instabilities as origin of the conductive interface between insulating LaAlO3 and SrTiO3. *Nature Communications*, **2016**, 7, 12773 | 17.4 | 48 |
| 216 | Single-domain multiferroic BiFeO3 films. *Nature Communications*, **2016**, 7, 12712 | 17.4 | 74 |
| 215 | van der Waal Epitaxy of Flexible and Transparent VO2 Film on Muscovite. *Chemistry of Materials*, **2016**, 28, 3914-3919 | 9.6 | 84 |
| 214 | Epitaxial integration of a nanoscale BiFeO3 phase boundary with silicon. *Nanoscale*, **2016**, 8, 1322-6 | 7.7 | 5 |
| 213 | Enhanced Structural and Magnetic Coupling in a Mesocrystal-Assisted Nanocomposite. *ACS Applied Materials & Interfaces*, **2016**, 8, 1104-11 | 9.5 | 10 |
| 212 | Functional Oxide Thin Films and Nanostructures: Growth, Interface, and Applications. *Journal of Nanomaterials*, **2016**, 2016, 1-2 | 3.2 | 1 |
| 211 | Spatial Control of Cell-Nanosurface Interactions by Tantalum Oxide Nanodots for Improved Implant Geometry. *PLoS ONE*, **2016**, 11, e0158425 | 3.7 | 14 |
| 210 | Strain-Mediated Inverse Photoresistivity in SrRuO3/La0.7Sr0.3MnO3 Superlattices. *Advanced Functional Materials*, **2016**, 26, 729-737 | 15.6 | 14 |
| 209 | Anomalous Electronic Anisotropy Triggered by Ferroelastic Coupling in Multiferroic Heterostructures. *Advanced Materials*, **2016**, 28, 876-83 | 24 | 15 |
| 208 | Control of the Metal-Insulator Transition at Complex Oxide Heterointerfaces through Visible Light. *Advanced Materials*, **2016**, 28, 764-70 | 24 | 11 |
| 207 | Observation of a three-dimensional quasi-long-range electronic supermodulation in YBa2Cu3O(7-x)/La0.7Ca0.3MnO3 heterostructures. *Nature Communications*, **2016**, 7, 10852 | 17.4 | 10 |
| 206 | Tunable complex magnetic states of epitaxial core-shell metal oxide nanocrystals fabricated by the phase decomposition method. *Journal Physics D: Applied Physics*, **2016**, 49, 275001 | 3 | 1 |
| 205 | Mesocrystal-embedded functional oxide systems. *MRS Communications*, **2016**, 6, 167-181 | 2.7 | 8 |
| 204 | Van der Waals epitaxy of functional MoO2 film on mica for flexible electronics. *Applied Physics Letters*, **2016**, 108, 253104 | 3.4 | 68 |
| 203 | Electrically enhanced magnetization in highly strained BiFeO3 films. *NPG Asia Materials*, **2016**, 8, e269-e269 | 10.3 | 8 |

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| 202 | Tuning the magnetic properties of self-assembled BiFeO3-CoFe2O4 heteroepitaxy by magneto-structural coupling. *Nanoscale*, **2016**, 8, 8847-54 | 7.7 | 20 |
| 201 | Superior photoelectrochemical activity of self-assembled NiWO 4 WO 3 heteroepitaxy. *Nano Energy*, **2016**, 23, 153-160 | 17.1 | 35 |
| 200 | Tunable photoelectrochemical performance of Au/BiFeO3 heterostructure. *Nanoscale*, **2016**, 8, 15795-801 | 7.7 | 60 |
| 199 | Heteroepitaxial approach to explore charge dynamics across Au/BiVO4 interface for photoactivity enhancement. *Nano Energy*, **2015**, 15, 625-633 | 17.1 | 67 |
| 198 | Self-formed conductive nanofilaments in (Bi, Mn)O for ultralow-power memory devices. *Nano Energy*, **2015**, 13, 283-290 | 17.1 | 14 |
| 197 | Constraining Data Mining with Physical Models: Voltage- and Oxygen Pressure-Dependent Transport in Multiferroic Nanostructures. *Nano Letters*, **2015**, 15, 6650-7 | 11.5 | 23 |
| 196 | Atomic Visualization of the Phase Transition in Highly Strained BiFeO3 Thin Films with Excellent Pyroelectric Response. *Nano Energy*, **2015**, 17, 72-81 | 17.1 | 17 |
| 195 | In Situ Study of Spinel Ferrite Nanocrystal Growth Using Liquid Cell Transmission Electron Microscopy. *Chemistry of Materials*, **2015**, 27, 8146-8152 | 9.6 | 36 |
| 194 | Enhanced Magnetocaloric Effect Driven by Interfacial Magnetic Coupling in Self-Assembled Mn3O4-La(0.7)Sr(0.3)MnO3 Nanocomposites. *ACS Applied Materials & Interfaces*, **2015**, 7, 26504-11 | 9.5 | 10 |
| 193 | In Situ Study of Fe3Pt-Fe2O3 Core-Shell Nanoparticle Formation. *Journal of the American Chemical Society*, **2015**, 137, 14850-3 | 16.4 | 42 |
| 192 | Mapping strain modulated electronic structure perturbations in mixed phase bismuth ferrite thin films. *Journal of Materials Chemistry C*, **2015**, 3, 1835-1845 | 7.1 | 12 |
| 191 | Origin of metallic behavior in NiCo2O4 ferrimagnet. *Scientific Reports*, **2015**, 5, 15201 | 4.9 | 89 |
| 190 | Thickness dependence of La0.7Sr0.3MnO3/PbZr0.2Ti0.8O3 magnetoelectric interfaces. *Applied Physics Letters*, **2015**, 107, 141603 | 3.4 | 10 |
| 189 | Tetragonal BiFeO3 on yttria-stabilized zirconia. *APL Materials*, **2015**, 3, 116104 | 5.7 | 6 |
| 188 | Selective interlayer ferromagnetic coupling between the Cu spins in YBa2Cu3O7-x grown on top of La0.7Ca0.3MnO3. *Scientific Reports*, **2015**, 5, 16690 | 4.9 | 8 |
| 187 | Tuning the functionalities of a mesocrystal via structural coupling. *Scientific Reports*, **2015**, 5, 12073 | 4.9 | 16 |
| 186 | Spontaneous orientation-tuning driven by the strain variation in self-assembled ZnO-SrRuO3 heteroepitaxy. *Applied Physics Letters*, **2015**, 107, 191902 | 3.4 | 4 |
| 185 | Self-Assembled Epitaxial Core-Shell Nanocrystals with Tunable Magnetic Anisotropy. *Small*, **2015**, 11, 4117-22 | 11 | 5 |

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| 184 | Topological control of nitric oxide secretion by tantalum oxide nanodot arrays. *Journal of Nanobiotechnology*, **2015**, 13, 79 | 9.4 | 7 |
| 183 | The Effect of Tensile Strain on Optical Anisotropy and Exciton of $m$-Plane ZnO. *IEEE Photonics Journal*, **2015**, 7, 1-8 | 1.8 | 2 |
| 182 | Imaging magnetic and ferroelectric domains and interfacial spins in magnetoelectric La0.7Sr0.3MnO3/PbZr0.2Ti0.8O3 heterostructures. *Journal of Physics Condensed Matter*, **2015**, 27, 504003 | 1.8 | 5 |
| 181 | Revealing the flexoelectricity in the mixed-phase regions of epitaxial BiFeO3 thin films. *Scientific Reports*, **2015**, 5, 8091 | 4.9 | 32 |
| 180 | BiFeO3Thin Films: A Playground for Exploring Electric-Field Control of Multifunctionalities. *Annual Review of Materials Research*, **2015**, 45, 249-275 | 12.8 | 60 |
| 179 | Universal ferroelectric switching dynamics of vinylidene fluoride-trifluoroethylene copolymer films. *Scientific Reports*, **2014**, 4, 4772 | 4.9 | 126 |
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| 2 | Pulsed Laser Deposited Ba(Mg1/3Ta2/3)O3 Microwave Dielectric Thin Films. *Integrated Ferroelectrics*, **2003**, 55, 887-894 | 0.8 | |
| 1 | S incorporated RuO2-based nanorings for active and stable water oxidation in acid. *Nano Research*,1 | 10 | 0 |