

# Qihua Xiong

## List of Publications by Citations

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276  
papers

21,281  
citations

77  
h-index

139  
g-index

300  
ext. papers

25,095  
ext. citations

12.1  
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7.01  
L-index

| #   | Paper   | IF   | Citations |
|-----|---|------|-----------|
| 276 | Perovskite light-emitting diodes with external quantum efficiency exceeding 20 per cent. <i>Nature</i> , <b>2018</b> , 562, 245-248   | 50.4 | 1802      |
| 275 | Room-temperature near-infrared high-Q perovskite whispering-gallery planar nanolasers. <i>Nano Letters</i> , <b>2014</b> , 14, 5995-6001  | 11.5 | 579       |
| 274 | High phase-purity 1TPMoS- and 1TPMoSe-layered crystals. <i>Nature Chemistry</i> , <b>2018</b> , 10, 638-643   | 17.6 | 510       |
| 273 | Interlayer breathing and shear modes in few-trilayer MoS <sub>2</sub> and WSe <sub>2</sub> . <i>Nano Letters</i> , <b>2013</b> , 13, 1007-15  | 11.5 | 502       |
| 272 | High-Quality Whispering-Gallery-Mode Lasing from Cesium Lead Halide Perovskite Nanoplatelets. <i>Advanced Functional Materials</i> , <b>2016</b> , 26, 6238-6245  | 15.6 | 406       |
| 271 | Laminated carbon nanotube networks for metal electrode-free efficient perovskite solar cells. <i>ACS Nano</i> , <b>2014</b> , 8, 6797-804   | 16.7 | 371       |
| 270 | Color-stable highly luminescent sky-blue perovskite light-emitting diodes. <i>Nature Communications</i> , <b>2018</b> , 9, 3541   | 17.4 | 370       |
| 269 | Vapor Phase Synthesis of Organometal Halide Perovskite Nanowires for Tunable Room-Temperature Nanolasers. <i>Nano Letters</i> , <b>2015</b> , 15, 4571-7  | 11.5 | 361       |
| 268 | Raman spectroscopy of few-quintuple layer topological insulator Bi <sub>2</sub> Se <sub>3</sub> nanoplatelets. <i>Nano Letters</i> , <b>2011</b> , 11, 2407-14  | 11.5 | 338       |
| 267 | InAs/InP radial nanowire heterostructures as high electron mobility devices. <i>Nano Letters</i> , <b>2007</b> , 7, 3214-8  | 11.5 | 336       |
| 266 | Synthesis of Organic/Inorganic Lead Halide Perovskite Nanoplatelets: Towards High-Performance Perovskite Solar Cells and Optoelectronic Devices. <i>Advanced Optical Materials</i> , <b>2014</b> , 2, 838-844 | 8.1  | 316       |
| 265 | Large-area synthesis of monolayer and few-layer MoSe <sub>2</sub> films on SiO <sub>2</sub> substrates. <i>Nano Letters</i> , <b>2014</b> , 14, 2419-25   | 11.5 | 312       |
| 264 | Rapid and reliable thickness identification of two-dimensional nanosheets using optical microscopy. <i>ACS Nano</i> , <b>2013</b> , 7, 10344-53   | 16.7 | 295       |
| 263 | Broadband Absorbing Semiconducting Polymer Nanoparticles for Photoacoustic Imaging in Second Near-Infrared Window. <i>Nano Letters</i> , <b>2017</b> , 17, 4964-4969  | 11.5 | 289       |
| 262 | High-Efficiency Light-Emitting Diodes of Organometal Halide Perovskite Amorphous Nanoparticles. <i>ACS Nano</i> , <b>2016</b> , 10, 6623-30   | 16.7 | 285       |
| 261 | Electronic properties of semiconductor nanowires. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2008</b> , 8, 1-26  | 1.3  | 285       |
| 260 | Enhanced thermoelectric properties of solution grown Bi <sub>2</sub> Te(3-x)Se(x) nanoplatelet composites. <i>Nano Letters</i> , <b>2012</b> , 12, 1203-9   | 11.5 | 283       |

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| 259 | Weak Van der Waals Stacking, Wide-Range Band Gap, and Raman Study on Ultrathin Layers of Metal Phosphorus Trichalcogenides. <i>ACS Nano</i> , <b>2016</b> , 10, 1738-43      | 16.7 | 273 |
| 258 | Local electrical potential detection of DNA by nanowire-nanopore sensors. <i>Nature Nanotechnology</i> , <b>2011</b> , 7, 119-25   | 28.7 | 254 |
| 257 | A room temperature low-threshold ultraviolet plasmonic nanolaser. <i>Nature Communications</i> , <b>2014</b> , 5, 4953   | 17.4 | 236 |
| 256 | Laser cooling of organic/inorganic lead halide perovskites. <i>Nature Photonics</i> , <b>2016</b> , 10, 115-121  | 33.9 | 234 |
| 255 | Room-Temperature Polariton Lasing in All-Inorganic Perovskite Nanoplatelets. <i>Nano Letters</i> , <b>2017</b> , 17, 3982-3988   | 11.5 | 227 |
| 254 | Highly sensitive, uniform, and reproducible surface-enhanced Raman spectroscopy from hollow Au-Ag alloy nanourchins. <i>Advanced Materials</i> , <b>2014</b> , 26, 2431-9    | 24   | 212 |
| 253 | High-yield synthesis and optical properties of g-C <sub>3</sub> N <sub>4</sub> . <i>Nanoscale</i> , <b>2015</b> , 7, 12343-50  | 7.7  | 208 |
| 252 | Spin control in reduced-dimensional chiral perovskites. <i>Nature Photonics</i> , <b>2018</b> , 12, 528-533  | 33.9 | 205 |
| 251 | Raman spectroscopy of atomically thin two-dimensional magnetic iron phosphorus trisulfide (FePS <sub>3</sub> ) crystals. <i>2D Materials</i> , <b>2016</b> , 3, 031009       | 5.9  | 199 |
| 250 | Advances in Small Perovskite-Based Lasers. <i>Small Methods</i> , <b>2017</b> , 1, 1700163   | 12.8 | 199 |
| 249 | Vertically aligned gold nanorod monolayer on arbitrary substrates: self-assembly and femtomolar detection of food contaminants. <i>ACS Nano</i> , <b>2013</b> , 7, 5993-6000 | 16.7 | 197 |
| 248 | Ultrafast carrier thermalization and cooling dynamics in few-layer MoS <sub>2</sub> . <i>ACS Nano</i> , <b>2014</b> , 8, 10931-40  | 16.7 | 192 |
| 247 | Laser cooling of a semiconductor by 40 kelvin. <i>Nature</i> , <b>2013</b> , 493, 504-8  | 50.4 | 192 |
| 246 | Flexible visible-infrared metamaterials and their applications in highly sensitive chemical and biological sensing. <i>Nano Letters</i> , <b>2011</b> , 11, 3232-8           | 11.5 | 186 |
| 245 | Optical Properties of Rectangular Cross-sectional ZnS Nanowires. <i>Nano Letters</i> , <b>2004</b> , 4, 1663-1668  | 11.5 | 185 |
| 244 | Growth of wafer-scale MoS <sub>2</sub> monolayer by magnetron sputtering. <i>Nanoscale</i> , <b>2015</b> , 7, 2497-503   | 7.7  | 182 |
| 243 | Metal halide perovskite nanomaterials: synthesis and applications. <i>Chemical Science</i> , <b>2017</b> , 8, 2522-2536  | 9.4  | 179 |
| 242 | Effects of lower symmetry and dimensionality on Raman spectra in two-dimensional WSe <sub>2</sub> . <i>Physical Review B</i> , <b>2013</b> , 88,                             | 3.3  | 175 |

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| 241 | Raman Scattering from Surface Phonons in Rectangular Cross-sectional w-ZnS Nanowires. <i>Nano Letters</i> , <b>2004</b> , 4, 1991-1996   | 11.5 | 174 |
| 240 | Direct growth of large-area graphene and boron nitride heterostructures by a co-segregation method. <i>Nature Communications</i> , <b>2015</b> , 6, 6519                               | 17.4 | 173 |
| 239 | Ordered array of gold semishells on TiO <sub>2</sub> spheres: an ultrasensitive and recyclable SERS substrate. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2012</b> , 4, 2180-5 | 9.5  | 169 |
| 238 | Highly Efficient Visible Colloidal Lead-Halide Perovskite Nanocrystal Light-Emitting Diodes. <i>Nano Letters</i> , <b>2018</b> , 18, 3157-3164   | 11.5 | 160 |
| 237 | Polarity assignment in ZnTe, GaAs, ZnO, and GaN-AlN nanowires from direct dumbbell analysis. <i>Nano Letters</i> , <b>2012</b> , 12, 2579-86   | 11.5 | 146 |
| 236 | A graphene-cobalt oxide based needle electrode for non-enzymatic glucose detection in micro-droplets. <i>Chemical Communications</i> , <b>2012</b> , 48, 6490-2                        | 5.8  | 145 |
| 235 | Layered Structure Causes Bulk NiFe Layered Double Hydroxide Unstable in Alkaline Oxygen Evolution Reaction. <i>Advanced Materials</i> , <b>2019</b> , 31, e1903909                     | 24   | 142 |
| 234 | Solution-processed highly bright and durable cesium lead halide perovskite light-emitting diodes. <i>Nanoscale</i> , <b>2016</b> , 8, 18021-18026                                      | 7.7  | 135 |
| 233 | Photonics and Optoelectronics of 2D Metal-Halide Perovskites. <i>Small</i> , <b>2018</b> , 14, e1800682  | 11   | 128 |
| 232 | Iron pyrite thin film counter electrodes for dye-sensitized solar cells: high efficiency for iodine and cobalt redox electrolyte cells. <i>ACS Nano</i> , <b>2014</b> , 8, 10597-605   | 16.7 | 127 |
| 231 | Interface driven energy filtering of thermoelectric power in spark plasma sintered Bi(2)Te(2.7)Se(0.3) nanoplatelet composites. <i>Nano Letters</i> , <b>2012</b> , 12, 4305-10        | 11.5 | 127 |
| 230 | Coherent twinning phenomena: towards twinning superlattices in III-V semiconducting nanowires. <i>Nano Letters</i> , <b>2006</b> , 6, 2736-42  | 11.5 | 127 |
| 229 | Correlated fluorescence blinking in two-dimensional semiconductor heterostructures. <i>Nature</i> , <b>2017</b> , 541, 62-67   | 50.4 | 124 |
| 228 | Recent developments and future directions in the growth of nanostructures by van der Waals epitaxy. <i>Nanoscale</i> , <b>2013</b> , 5, 3570-88  | 7.7  | 122 |
| 227 | Wavelength tunable single nanowire lasers based on surface plasmon polariton enhanced Burstein-Moss effect. <i>Nano Letters</i> , <b>2013</b> , 13, 5336-43                            | 11.5 | 118 |
| 226 | Giant Two-Photon Absorption and Its Saturation in 2D Organic-Inorganic Perovskite. <i>Advanced Optical Materials</i> , <b>2017</b> , 5, 1601045  | 8.1  | 116 |
| 225 | Optimizing Electromagnetic Hotspots in Plasmonic Bowtie Nanoantennae. <i>Journal of Physical Chemistry Letters</i> , <b>2013</b> , 4, 496-501  | 6.4  | 115 |
| 224 | Multifunctional 0D-2D Ni <sub>2</sub> P Nanocrystals/Black Phosphorus Heterostructure. <i>Advanced Energy Materials</i> , <b>2017</b> , 7, 1601285                                     | 21.8 | 114 |

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|-----|---|------|-----|
| 223 | Tailoring the lasing modes in semiconductor nanowire cavities using intrinsic self-absorption. <i>Nano Letters</i> , <b>2013</b> , 13, 1080-5   | 11.5 | 112 |
| 222 | Dynamics of bound exciton complexes in CdS nanobelts. <i>ACS Nano</i> , <b>2011</b> , 5, 3660-9   | 16.7 | 112 |
| 221 | Mechanical properties of ZnS nanobelts. <i>Nano Letters</i> , <b>2005</b> , 5, 1982-6   | 11.5 | 108 |
| 220 | Controllable Fabrication of Two-Dimensional Patterned VO Nanoparticle, Nanodome, and Nanonet Arrays with Tunable Temperature-Dependent Localized Surface Plasmon Resonance. <i>ACS Nano</i> , <b>2017</b> , 11, 7542-7551 | 16.7 | 107 |
| 219 | Vertically integrated, three-dimensional nanowire complementary metal-oxide-semiconductor circuits. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2009</b> , 106, 21035-8   | 11.5 | 105 |
| 218 | Incommensurate van der Waals epitaxy of nanowire arrays: a case study with ZnO on muscovite mica substrates. <i>Nano Letters</i> , <b>2012</b> , 12, 2146-52  | 11.5 | 104 |
| 217 | Optical and excitonic properties of crystalline ZnS nanowires: toward efficient ultraviolet emission at room temperature. <i>Nano Letters</i> , <b>2010</b> , 10, 4956-61   | 11.5 | 104 |
| 216 | High brightness formamidinium lead bromide perovskite nanocrystal light emitting devices. <i>Scientific Reports</i> , <b>2016</b> , 6, 36733  | 4.9  | 103 |
| 215 | Surface Plasmon Enhanced Strong Exciton-Photon Coupling in Hybrid Inorganic-Organic Perovskite Nanowires. <i>Nano Letters</i> , <b>2018</b> , 18, 3335-3343   | 11.5 | 99  |
| 214 | In Situ Spectroscopic Identification of EDO Bridging on Spinel CoO Water Oxidation Electrocatalyst. <i>Journal of Physical Chemistry Letters</i> , <b>2016</b> , 7, 4847-4853   | 6.4  | 99  |
| 213 | Whispering gallery mode lasing from hexagonal shaped layered lead iodide crystals. <i>ACS Nano</i> , <b>2015</b> , 9, 687-95  | 16.7 | 98  |
| 212 | Layer-by-layer thinning of MoS <sub>2</sub> by thermal annealing. <i>Nanoscale</i> , <b>2013</b> , 5, 8904-8  | 7.7  | 98  |
| 211 | Optical antenna effect in semiconducting nanowires. <i>Nano Letters</i> , <b>2008</b> , 8, 1341-6   | 11.5 | 96  |
| 210 | Exciton-phonon coupling in individual ZnTe nanorods studied by resonant Raman spectroscopy. <i>Physical Review B</i> , <b>2012</b> , 85,  | 3.3  | 93  |
| 209 | Anomalous frequency trends in MoS <sub>2</sub> thin films attributed to surface effects. <i>Physical Review B</i> , <b>2013</b> , 88,   | 3.3  | 91  |
| 208 | Large Frequency Change with Thickness in Interlayer Breathing Mode--Significant Interlayer Interactions in Few Layer Black Phosphorus. <i>Nano Letters</i> , <b>2015</b> , 15, 3931-8                                     | 11.5 | 85  |
| 207 | Rapid and Nondestructive Identification of Polytypism and Stacking Sequences in Few-Layer Molybdenum Diselenide by Raman Spectroscopy. <i>Advanced Materials</i> , <b>2015</b> , 27, 4502-4508                            | 24   | 85  |
| 206 | Phonons in Bi <sub>2</sub> S <sub>3</sub> nanostructures: Raman scattering and first-principles studies. <i>Physical Review B</i> , <b>2011</b> , 84,   | 3.3  | 85  |

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|-----|---|------|----|
| 205 | Vertically aligned cadmium chalcogenide nanowire arrays on muscovite mica: a demonstration of epitaxial growth strategy. <i>Nano Letters</i> , <b>2011</b> , 11, 3051-7                 | 11.5 | 85 |
| 204 | Metamaterials-based label-free nanosensor for conformation and affinity biosensing. <i>ACS Nano</i> , <b>2013</b> , 7, 7583-91  | 16.7 | 82 |
| 203 | Multiple magnetic mode-based Fano resonance in split-ring resonator/disk nanocavities. <i>ACS Nano</i> , <b>2013</b> , 7, 11071-8   | 16.7 | 82 |
| 202 | Observation of exciton polariton condensation in a perovskite lattice at room temperature. <i>Nature Physics</i> , <b>2020</b> , 16, 301-306  | 16.2 | 80 |
| 201 | Identification of the Electronic and Structural Dynamics of Catalytic Centers in Single-Fe-Atom Material. <i>CheM</i> , <b>2020</b> , 6, 3440-3454                                      | 16.2 | 79 |
| 200 | Single Halide Perovskite/Semiconductor Core/Shell Quantum Dots with Ultrastability and Nonblinking Properties. <i>Advanced Science</i> , <b>2019</b> , 6, 1900412                       | 13.6 | 78 |
| 199 | Molecular-Barrier-Enhanced Aromatic Fluorophores in Cocrystals with Unity Quantum Efficiency. <i>Angewandte Chemie - International Edition</i> , <b>2018</b> , 57, 1928-1932            | 16.4 | 77 |
| 198 | Assembly of colloidal nanoparticles directed by the microstructures of polycrystalline ice. <i>ACS Nano</i> , <b>2011</b> , 5, 8426-33  | 16.7 | 77 |
| 197 | Adaptive Thermochromic Windows from Active Plasmonic Elastomers. <i>Joule</i> , <b>2019</b> , 3, 858-871  | 27.8 | 76 |
| 196 | Controllable electrical properties of metal-doped In <sub>2</sub> O <sub>3</sub> nanowires for high-performance enhancement-mode transistors. <i>ACS Nano</i> , <b>2013</b> , 7, 804-10 | 16.7 | 76 |
| 195 | Room temperature long-range coherent exciton polariton condensate flow in lead halide perovskites. <i>Science Advances</i> , <b>2018</b> , 4, eaau0244                                  | 14.3 | 74 |
| 194 | A general soft-enveloping strategy in the templating synthesis of mesoporous metal nanostructures. <i>Nature Communications</i> , <b>2018</b> , 9, 521                                  | 17.4 | 73 |
| 193 | Manipulating efficient light emission in two-dimensional perovskite crystals by pressure-induced anisotropic deformation. <i>Science Advances</i> , <b>2019</b> , 5, eaav9445           | 14.3 | 73 |
| 192 | Controllable Growth of Centimeter-Sized 2D Perovskite Heterostructures for Highly Narrow Dual-Band Photodetectors. <i>ACS Nano</i> , <b>2019</b> , 13, 5473-5484                        | 16.7 | 72 |
| 191 | Charge-Induced Second-Harmonic Generation in Bilayer WSe <sub>2</sub> . <i>Nano Letters</i> , <b>2015</b> , 15, 5653-7  | 11.5 | 72 |
| 190 | Lattice vibrations and Raman scattering in two-dimensional layered materials beyond graphene. <i>Nano Research</i> , <b>2016</b> , 9, 3559-3597   | 10   | 71 |
| 189 | Modulating the electronic structures of graphene by controllable hydrogenation. <i>Applied Physics Letters</i> , <b>2010</b> , 97, 233111   | 3.4  | 71 |
| 188 | Microsecond dark-exciton valley polarization memory in two-dimensional heterostructures. <i>Nature Communications</i> , <b>2018</b> , 9, 753  | 17.4 | 70 |

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|-----|---|------|----|
| 187 | Fluorophore-doped core-multishell spherical plasmonic nanocavities: resonant energy transfer toward a loss compensation. <i>ACS Nano</i> , <b>2012</b> , 6, 6250-9  | 16.7 | 70 |
| 186 | Halide Perovskite Semiconductor Lasers: Materials, Cavity Design, and Low Threshold. <i>Nano Letters</i> , <b>2021</b> , 21, 1903-1914  | 11.5 | 70 |
| 185 | Interfacial Interactions in van der Waals Heterostructures of MoS and Graphene. <i>ACS Nano</i> , <b>2017</b> , 11, 11714-11723   | 16.7 | 69 |
| 184 | Observation of selective plasmon-exciton coupling in nonradiative energy transfer: donor-selective versus acceptor-selective plexcitons. <i>Nano Letters</i> , <b>2013</b> , 13, 3065-72  | 11.5 | 69 |
| 183 | Recent Progress on Two-Dimensional Materials. <i>Wuli Huaxue Xuebao/Acta Physico - Chimica Sinica</i> , <b>2021</b> , 2108017-0   | 3.8  | 69 |
| 182 | Interlayer vibrational modes in few-quintuple-layer Bi <sub>2</sub> Te <sub>3</sub> and Bi <sub>2</sub> Se <sub>3</sub> two-dimensional crystals: Raman spectroscopy and first-principles studies. <i>Physical Review B</i> , <b>2014</b> , 90, | 3.3  | 68 |
| 181 | Controlled growth of bismuth antimony telluride Bi <sub>2</sub> Sb <sub>2</sub> Te <sub>3</sub> nanoplatelets and their bulk thermoelectric nanocomposites. <i>Nano Energy</i> , <b>2015</b> , 15, 688-696                                      | 17.1 | 67 |
| 180 | Synthesis and optical properties of II-VI 1D nanostructures. <i>Nanoscale</i> , <b>2012</b> , 4, 1422-35  | 7.7  | 67 |
| 179 | The electrical detection of lead ions using gold-nanoparticle- and DNAzyme-functionalized graphene device. <i>Advanced Healthcare Materials</i> , <b>2013</b> , 2, 271-4  | 10.1 | 66 |
| 178 | Composition-tunable vertically aligned CdS(x)Se(1-x) nanowire arrays via van der Waals epitaxy: investigation of optical properties and photocatalytic behavior. <i>Advanced Materials</i> , <b>2012</b> , 24, 4151-6                           | 24   | 65 |
| 177 | Force-deflection spectroscopy: a new method to determine the Young's modulus of nanofilaments. <i>Nano Letters</i> , <b>2006</b> , 6, 1904-9  | 11.5 | 65 |
| 176 | Room Temperature Coherently Coupled Exciton-Polaritons in Two-Dimensional Organic-Inorganic Perovskite. <i>ACS Nano</i> , <b>2018</b> , 12, 8382-8389   | 16.7 | 64 |
| 175 | Excitonic properties and near-infrared coherent random lasing in vertically aligned CdSe nanowires. <i>Advanced Materials</i> , <b>2011</b> , 23, 1404-8  | 24   | 64 |
| 174 | Plasmonic heating from indium nanoparticles on a floating microporous membrane for enhanced solar seawater desalination. <i>Nanoscale</i> , <b>2017</b> , 9, 12843-12849  | 7.7  | 61 |
| 173 | Excitonics of semiconductor quantum dots and wires for lighting and displays. <i>Laser and Photonics Reviews</i> , <b>2014</b> , 8, 73-93   | 8.3  | 58 |
| 172 | Electric-field-dependent photoconductivity in CdS nanowires and nanobelts: exciton ionization, Franz-Keldysh, and Stark effects. <i>Nano Letters</i> , <b>2012</b> , 12, 2993-9   | 11.5 | 56 |
| 171 | A plasmonically enhanced polymer solar cell with gold-silica core-shell nanorods. <i>Organic Electronics</i> , <b>2013</b> , 14, 2360-2368  | 3.5  | 54 |
| 170 | Room temperature nanocavity laser with interlayer excitons in 2D heterostructures. <i>Science Advances</i> , <b>2019</b> , 5, eaav4506  | 14.3 | 53 |



- 169 Twinning-, Polytypism-, and Polarity-Induced Morphological Modulation in Nonplanar Nanostructures with van der Waals Epitaxy. *Advanced Functional Materials*, **2013**, 23, 1636-1646 15.6 53
- 168 Origin of Photocarrier Losses in Iron Pyrite (FeS<sub>2</sub>) Nanocubes. *ACS Nano*, **2016**, 10, 4431-40 16.7 52
- 167 Surface depletion induced quantum confinement in CdS nanobelts. *ACS Nano*, **2012**, 6, 5283-90 16.7 52
- 166 Enhanced thermoelectric performance of solution-derived bismuth telluride based nanocomposites via liquid-phase Sintering. *Nano Energy*, **2016**, 30, 630-638 17.1 49
- 165 Epitaxial II-VI tripod nanocrystals: a generalization of van der Waals epitaxy for nonplanar polytypic nanoarchitectures. *ACS Nano*, **2012**, 6, 2281-8 16.7 49
- 164 Tailoring Optical Properties of Silicon Nanowires by Au Nanostructure Decorations: Enhanced Raman Scattering and Photodetection. *Journal of Physical Chemistry C*, **2012**, 116, 4416-4422 3.8 47
- 163 Stacking sequence determines Raman intensities of observed interlayer shear modes in 2D layered materials--A general bond polarizability model. *Scientific Reports*, **2015**, 5, 14565 4.9 46
- 162 Heteroepitaxial decoration of Ag nanoparticles on Si nanowires: a case study on Raman scattering and mapping. *Nano Letters*, **2010**, 10, 3940-7 11.5 46
- 161 Switchable Wettability in SnO<sub>2</sub> Nanowires and SnO<sub>2</sub>@SnO<sub>2</sub> Heterostructures. *Journal of Physical Chemistry C*, **2011**, 115, 22225-22231 3.8 45
- 160 Plasmonic Hot Carriers-Controlled Second Harmonic Generation in WSe Bilayers. *Nano Letters*, **2018**, 18, 1686-1692 11.5 44
- 159 Size-Dependent Exciton Recombination Dynamics in Single CdS Nanowires beyond the Quantum Confinement Regime. *Journal of Physical Chemistry C*, **2013**, 117, 10716-10722 3.8 43
- 158 One-step synthesis of single-site vanadium substitution in 1T-WS monolayers for enhanced hydrogen evolution catalysis. *Nature Communications*, **2021**, 12, 709 17.4 42
- 157 Coherent control of a strongly driven silicon vacancy optical transition in diamond. *Nature Communications*, **2017**, 8, 14451 17.4 40
- 156 Quantum dots on vertically aligned gold nanorod monolayer: plasmon enhanced fluorescence. *Nanoscale*, **2014**, 6, 5592-8 7.7 40
- 155 The origin of sub-bands in the Raman D-band of graphene. *Carbon*, **2012**, 50, 4252-4258 10.4 39
- 154 Raman spectroscopy and structure of crystalline gallium phosphide nanowires. *Journal of Nanoscience and Nanotechnology*, **2003**, 3, 335-9 1.3 39
- 153 Magnetism in phosphorene: Interplay between vacancy and strain. *Applied Physics Letters*, **2015**, 107, 072401 3.4 38
- 152 Entanglement of single-photons and chiral phonons in atomically thin WSe<sub>2</sub>. *Nature Physics*, **2019**, 15, 221-227 16.2 38



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| 151 | Transparent free-standing metamaterials and their applications in surface-enhanced Raman scattering. <i>Nanoscale</i> , <b>2014</b> , 6, 132-9   | 7.7   | 37 |
| 150 | Tailoring alphabetical metamaterials in optical frequency: plasmonic coupling, dispersion, and sensing. <i>ACS Nano</i> , <b>2014</b> , 8, 3796-806  | 16.7  | 37 |
| 149 | Inflection Point of the Localized Surface Plasmon Resonance Peak: A General Method to Improve the Sensitivity. <i>ACS Sensors</i> , <b>2017</b> , 2, 235-242   | 9.2   | 36 |
| 148 | Minority Carrier Blocking to Enhance the Thermoelectric Performance of Solution-Processed BiSbTe Nanocomposites via a Liquid-Phase Sintering Process. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 12501-12510       | 9.5   | 36 |
| 147 | In-Plane Anisotropic Properties of 1TPMoS Layers. <i>Advanced Materials</i> , <b>2019</b> , 31, e1807764   | 24    | 36 |
| 146 | Highly enhanced exciton recombination rate by strong electron-phonon coupling in single ZnTe nanobelt. <i>Nano Letters</i> , <b>2012</b> , 12, 6420-7  | 11.5  | 36 |
| 145 | Optical sensor based on hydrogel films with 2D colloidal arrays attached on both the surfaces: anti-curling performance and enhanced optical diffraction intensity. <i>Journal of Materials Chemistry C</i> , <b>2015</b> , 3, 3659-3665 | 7.1   | 35 |
| 144 | Abnormal Near-Infrared Absorption in 2D Black Phosphorus Induced by Ag Nanoclusters Surface Functionalization. <i>Advanced Materials</i> , <b>2018</b> , 30, e1801931  | 24    | 35 |
| 143 | Cooperative Enhancement of Second-Harmonic Generation from a Single CdS Nanobelt-Hybrid Plasmonic Structure. <i>ACS Nano</i> , <b>2015</b> , 9, 5018-26  | 16.7  | 34 |
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| 13 | A room-temperature gate-tunable bipolar valley Hall effect in molybdenum disulfide/tungsten diselenide heterostructures. <i>Nature Electronics</i> , <b>2022</b> , 5, 23-27                       | 28.4 | 2 |
| 12 | Bose-Einstein condensation of exciton polariton in perovskites semiconductors. <i>Frontiers of Optoelectronics</i> , <b>2020</b> , 13, 193-195  | 2.8  | 1 |
| 11 | Raman Spectroscopy of Isotropic Two-Dimensional Materials Beyond Graphene. <i>Springer Series in Materials Science</i> , <b>2019</b> , 29-52  | 0.9  | 1 |
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| 9  | Spin-Polarized Electrons Impact on Terahertz Emission by High-Order Shift Current in CsPbBr <sub>3</sub> . <i>Advanced Optical Materials</i> , 2100822  | 8.1  | 1 |
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