

# Xing Zhu

## List of Publications by Year in descending order

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121  
papers

4,726  
citations

108046

37  
h-index

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68  
g-index

123  
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123  
docs citations

123  
times ranked

8189  
citing authors

| #  | ARTICLE  | IF   | CITATIONS |
|----|--|------|-----------|
| 1  | Deep subwavelength control of valley polarized cathodoluminescence in h-BN/WSe <sub>2</sub> /h-BN heterostructure. Nature Communications, 2021, 12, 291.             | 5.8  | 25        |
| 2  | Plasmonic Modulation of Valleytronic Emission in Two-Dimensional Transition Metal Dichalcogenides. Advanced Functional Materials, 2021, 31, 2010234.                 | 7.8  | 21        |
| 3  | Spontaneous Emission of Plasmon-Exciton Polaritons Revealed by Ultrafast Nonradiative Decays. Laser and Photonics Reviews, 2020, 14, 2000233.                        | 4.4  | 8         |
| 4  | Light-Controlled Near-Field Energy Transfer in Plasmonic Metasurface Coupled MoS <sub>2</sub> Monolayer. Small, 2020, 16, 2003539.                                   | 5.2  | 16        |
| 5  | Controllable inversion symmetry breaking in single layer graphene induced by sub-lattice contrasted charge polarization. Carbon, 2020, 163, 63-69.                   | 5.4  | 2         |
| 6  | Ultrathin circular polarimeter based on chiral plasmonic metasurface and monolayer MoSe <sub>2</sub> . Nanoscale, 2020, 12, 5906-5913.                               | 2.8  | 34        |
| 7  | Efficient All-Optical Plasmonic Modulators with Atomically Thin Van Der Waals Heterostructures. Advanced Materials, 2020, 32, e1907105.                              | 11.1 | 44        |
| 8  | Bi-channel near- and far-field optical vortex generator based on a single plasmonic metasurface. Photonics Research, 2020, 8, 986.                                   | 3.4  | 19        |
| 9  | Plasmonic-modulated dissipative-driven multiqubit entanglement under asymmetric detuning. Physical Review B, 2019, 100, .  | 1.1  | 8         |
| 10 | High-efficiency modulation of coupling between different polaritons in an in-plane graphene/hexagonal boron nitride heterostructure. Nanoscale, 2019, 11, 2703-2709. | 2.8  | 24        |
| 11 | Plasmonic Circular Dichroism of Gold Nanoparticle Based Nanostructures. Advanced Optical Materials, 2019, 7, 1801590.  | 3.6  | 46        |
| 12 | Self-Learning Perfect Optical Chirality via a Deep Neural Network. Physical Review Letters, 2019, 123, 213902.   | 2.9  | 72        |
| 13 | Imaging of Plasmonic Chiral Radiative Local Density of States with Cathodoluminescence Nanoscopy. Nano Letters, 2019, 19, 775-780.                                   | 4.5  | 43        |
| 14 | Direct observation of ultrafast plasmonic hot electron transfer in the strong coupling regime. Light: Science and Applications, 2019, 8, 9.                          | 7.7  | 150       |
| 15 | Mode Controlling of Surface Plasmon Polaritons by Geometric Phases. Plasmonics, 2019, 14, 785-790.   | 1.8  | 1         |
| 16 | Perfect-absorption graphene metamaterials for surface-enhanced molecular fingerprint spectroscopy. Nanotechnology, 2018, 29, 184004.                                 | 1.3  | 22        |
| 17 | Deep-Subwavelength Resolving and Manipulating of Hidden Chirality in Achiral Nanostructures. ACS Nano, 2018, 12, 3908-3916.  | 7.3  | 57        |
| 18 | Plasmonic-Functionalized Broadband Perovskite Photodetector. Advanced Optical Materials, 2018, 6, 1701271.   | 3.6  | 86        |

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|----|---|------|-----------|
| 19 | Spin-Controlled Integrated Near- and Far-Field Optical Launcher. <i>Advanced Functional Materials</i> , 2018, 28, 1705503.  | 7.8  | 39        |
| 20 | Reveal and Control of Chiral Cathodoluminescence at Subnanoscale. <i>Nano Letters</i> , 2018, 18, 567-572.  | 4.5  | 49        |
| 21 | Nanoscience and Nanotechnology Research at Peking University. <i>ACS Nano</i> , 2018, 12, 4075-4076.  | 7.3  | 2         |
| 22 | Scanning cathodoluminescence microscopy: applications in semiconductor and metallic nanostructures. <i>Opto-Electronic Advances</i> , 2018, 1, 18000701-18000711.   | 6.4  | 13        |
| 23 | Revealing the spin optics in conic-shaped metasurfaces. <i>Physical Review B</i> , 2017, 95, .  | 1.1  | 44        |
| 24 | Temperature dependent Raman and photoluminescence of vertical WS <sub>2</sub> /MoS <sub>2</sub> monolayer heterostructures. <i>Science Bulletin</i> , 2017, 62, 16-21.  | 4.3  | 37        |
| 25 | Plasmonic hot electron tunneling photodetection in vertical Au-graphene hybrid nanostructures. <i>Laser and Photonics Reviews</i> , 2017, 11, 1600148.  | 4.4  | 61        |
| 26 | Near-Field Raman Spectroscopy with Aperture Tips. <i>Chemical Reviews</i> , 2017, 117, 5095-5109.   | 23.0 | 60        |
| 27 | Single-Nanoparticle Plasmonic Electro-optic Modulator Based on MoS <sub>2</sub> Monolayers. <i>ACS Nano</i> , 2017, 11, 9720-9727.  | 7.3  | 90        |
| 28 | Higher order Fano graphene metamaterials for nanoscale optical sensing. <i>Nanoscale</i> , 2017, 9, 14998-15004.  | 2.8  | 56        |
| 29 | Spin-Controlled Directional Launching of Surface Plasmons Under Oblique Illumination. <i>Plasmonics</i> , 2017, 12, 729-734.  | 1.8  | 0         |
| 30 | Enhanced optical performance of multifocal metalens with conic shapes. <i>Light: Science and Applications</i> , 2017, 6, e17071-e17071.   | 7.7  | 47        |
| 31 | Spin-controlled directional launching of surface plasmons at the subwavelength scale. <i>Chinese Physics B</i> , 2016, 25, 087302.  | 0.7  | 1         |
| 32 | Unidirectional propagation of surface plasmons under active control. <i>Proceedings of SPIE</i> , 2016, , .   | 0.8  | 0         |
| 33 | Plasmonics: Magnetic Plasmonic Fano Resonance at Optical Frequency (Small 18/2015). <i>Small</i> , 2015, 11, 2102-2102.   | 5.2  | 1         |
| 34 | Graphene Quantum Dots Doping of MoS <sub>2</sub> Monolayers. <i>Advanced Materials</i> , 2015, 27, 5235-5240.   | 11.1 | 168       |
| 35 | A high-selective positive-type developing technique for phase-change inorganic resist Ge <sub>2</sub> Sb <sub>2</sub> (1 $\hat{a}$ )Bi <sub>2</sub> Te <sub>5</sub> . <i>Materials Science in Semiconductor Processing</i> , 2015, 40, 690-694. | 1.9  | 7         |
| 36 | Plasmonic hot electron enhanced MoS <sub>2</sub> photocatalysis in hydrogen evolution. <i>Nanoscale</i> , 2015, 7, 4482-4488.   | 2.8  | 169       |

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|----|---|------|-----------|
| 37 | Magnetic Plasmonic Fano Resonance at Optical Frequency. <i>Small</i> , 2015, 11, 2177-2181.   | 5.2  | 66        |
| 38 | Plasmonic Toroidal Dipolar Response under Radially Polarized Excitation. <i>Scientific Reports</i> , 2015, 5, 11793.  | 1.6  | 65        |
| 39 | Plasmonic circular polarization analyzer formed by unidirectionally controlling surface plasmon propagation. <i>Applied Physics Letters</i> , 2015, 106, 161106.                                    | 1.5  | 18        |
| 40 | Introduction to ChinaNANO 2013. <i>Chinese Physics B</i> , 2014, 23, 088101.  | 0.7  | 0         |
| 41 | Plasmonic focusing in spiral nanostructures under linearly polarized illumination. <i>Optics Express</i> , 2014, 22, 16686.   | 1.7  | 17        |
| 42 | Polarization dependence of the light coupling to surface plasmons in an Ag nanoparticle & Ag nanowire system. <i>Chinese Physics B</i> , 2014, 23, 117302.  | 0.7  | 2         |
| 43 | Plasmonic waveplate: incident polarization modulation. <i>Applied Physics A: Materials Science and Processing</i> , 2014, 115, 589-593.   | 1.1  | 1         |
| 44 | Active Tunable Absorption Enhancement with Graphene Nanodisk Arrays. <i>Nano Letters</i> , 2014, 14, 299-304.   | 4.5  | 565       |
| 45 | A study on inorganic phase-change resist $\text{Ge}_2\text{Sb}_2(1-x)\text{Bi}_x\text{Te}_5$ and its mechanism. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 22281-22286.                 | 1.3  | 13        |
| 46 | Plasmonic Hot Electron Induced Structural Phase Transition in a $\text{MoS}_2$ Monolayer. <i>Advanced Materials</i> , 2014, 26, 6467-6471.  | 11.1 | 516       |
| 47 | Plasmonic Focusing in Nanostructures. <i>Plasmonics</i> , 2014, 9, 879-886.   | 1.8  | 8         |
| 48 | Plasmonic properties and device in nanostructures. <i>Applied Physics A: Materials Science and Processing</i> , 2013, 112, 15-22.   | 1.1  | 1         |
| 49 | Plasmonics in Nanostructures. <i>Advanced Materials</i> , 2013, 25, 3840-3856.  | 11.1 | 134       |
| 50 | Absorption Enhancements in Plasmonic Solar Cells Coated with Metallic Nanoparticles. <i>Plasmonics</i> , 2013, 8, 877-883.  | 1.8  | 10        |
| 51 | Substrate-mediated charge transfer plasmons in simple and complex nanoparticle clusters. <i>Nanoscale</i> , 2013, 5, 9897.  | 2.8  | 47        |
| 52 | Au Core/Au@Ag Alloy Shell Nanorods: Composition- and Shape-Tailored Optical Responses. <i>Journal of Nanoscience and Nanotechnology</i> , 2013, 13, 1006-1010.                                      | 0.9  | 2         |
| 53 | Selected Peer-Reviewed Articles from the International Conference on Nanoscience and Technology, China 2011 (ChinaNANO 2011). <i>Journal of Nanoscience and Nanotechnology</i> , 2013, 13, 733-735. | 0.9  | 1         |
| 54 | Scattering of Light by Plasmonic Nanoparticles on a Silicon Substrate. <i>ChemPhysChem</i> , 2012, 13, 2573-2577.   | 1.0  | 10        |

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|----|--|-----|-----------|
| 55 | Tunable wide-angle plasmonic perfect absorber at visible frequencies. <i>Physical Review B</i> , 2012, 85, .   | 1.1 | 125       |
| 56 | Au@Pt core/shell nanorods with peroxidase- and ascorbate oxidase-like activities for improved detection of glucose. <i>Sensors and Actuators B: Chemical</i> , 2012, 166-167, 708-714. | 4.0 | 171       |
| 57 | Screening of inhibitors for oxidase mimics of Au@Pt nanorods by catalytic oxidation of OPD. <i>Chemical Communications</i> , 2011, 47, 10981.  | 2.2 | 94        |
| 58 | Plasmonic Coupling of Bow Tie Antennas with Ag Nanowire. <i>Nano Letters</i> , 2011, 11, 1676-1680.  | 4.5 | 142       |
| 59 | Plasmonic Focusing in Symmetry Broken Nanocorrals. <i>Nano Letters</i> , 2011, 11, 893-897.  | 4.5 | 141       |
| 60 | Removing a Wedge from a Metallic Nanodisk Reveals a Fano Resonance. <i>Nano Letters</i> , 2011, 11, 4475-4479.   | 4.5 | 190       |
| 61 | Incident angle dependence of absorption enhancement in plasmonic solar cells. <i>Optics Express</i> , 2011, 19, A763.  | 1.7 | 37        |
| 62 | Microwires and microtwists from X-shaped conjugated molecules as low-loss, long distance photo waveguide materials. <i>Organic Electronics</i> , 2011, 12, 453-460.                    | 1.4 | 7         |
| 63 | Characteristics of charge density waves on the surfaces of quasi-one-dimensional charge-transfer complex layered organic crystals. <i>Physical Review B</i> , 2011, 83, .              | 1.1 | 0         |
| 64 | Micropore Structure Representation of Sandstone in Petroleum Reservoirs Using an Atomic Force Microscope. <i>Chinese Physics Letters</i> , 2011, 28, 080701.                           | 1.3 | 2         |
| 65 | &lt;l&gt;A Special Issue on ChinaNANO&lt;/l&gt; 2009, Beijing, China. <i>Journal of Nanoscience and Nanotechnology</i> , 2010, 10, 6997-6999.  | 0.9 | 0         |
| 66 | Antenna-Mediated Coupling of Light into Ag Nanowire. <i>Journal of Nanoscience and Nanotechnology</i> , 2010, 10, 7171-7174.   | 0.9 | 0         |
| 67 | Homogeneous Epitaxial Growth of N,Nâ€²-di(n-butyl)quinacridone Thin Films on Ag(110). <i>Journal of Nanoscience and Nanotechnology</i> , 2010, 10, 7162-7166.                          | 0.9 | 0         |
| 68 | Surface Plasmon Polariton Enhancement in Silver Nanowireâ€™Nanoantenna Structure. <i>Plasmonics</i> , 2010, 5, 57-62.  | 1.8 | 29        |
| 69 | Hybrid Plasmonic Waveguide Based on Tapered Dielectric Nanoribbon: Excitation and Focusing. <i>Plasmonics</i> , 2010, 5, 207-212.  | 1.8 | 25        |
| 70 | PLASMONIC FOCUSING BASED ON <font>CdS</font> NANORIBBON. <i>Journal of Nonlinear Optical Physics and Materials</i> , 2010, 19, 729-735.  | 1.1 | 0         |
| 71 | Color-changeable properties of plasmonic waveguides based on Se-doped CdS nanoribbons. <i>Physical Review B</i> , 2010, 82, .  | 1.1 | 16        |
| 72 | Planar Plasmonic Focusing and Optical Transport Using CdS Nanoribbon. <i>ACS Nano</i> , 2010, 4, 75-82.  | 7.3 | 55        |

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|----|--|-----|-----------|
| 73 | Near-field nanofocusing through a combination of plasmonic Bragg reflector and converging lens. Optics Express, 2010, 18, 14762.   | 1.7 | 20        |
| 74 | Applications of Surface Plasmon Polariton in the Au Nanocircuit. Journal of the Korean Physical Society, 2010, 56, 1725-1728.  | 0.3 | 3         |
| 75 | Focusing surface plasmon polariton trapping of colloidal particles. Applied Physics Letters, 2009, 94, 063306.   | 1.5 | 25        |
| 76 | Optical waveguide behavior of Se-doped and undoped CdS one-dimensional nanostructures using near-field optical microscopy. Science in China Series G: Physics, Mechanics and Astronomy, 2009, 52, 26-30. | 0.2 | 0         |
| 77 | Color-tuning and switching optical transport through CdS hybrid plasmonic waveguide. Optics Express, 2009, 17, 20327.  | 1.7 | 17        |
| 78 | Selected Peer-Reviewed Articles from ChinaNANO 2007, Beijing, China. Journal of Nanoscience and Nanotechnology, 2009, 9, 677-678.  | 0.9 | 0         |
| 79 | Comparison of the Optical Waveguide Behaviors of Se-Doped and Undoped CdS Nanoribbons by Using Near-Field Optical Microscopy. Journal of Nanoscience and Nanotechnology, 2009, 9, 978-981.               | 0.9 | 2         |
| 80 | Influence of surface-modified TiO <sub>2</sub> nanoparticles on fracture behavior of injection molded polypropylene. Frontiers of Materials Science in China, 2008, 2, 9-15.                             | 0.5 | 4         |
| 81 | ChinaNANO 2007. Small, 2008, 4, 306-306.   | 5.2 | 0         |
| 82 | Atomic structures of boron-induced protrusion features on Si(100) surfaces. Physical Review B, 2008, 77, .   | 1.1 | 10        |
| 83 | Excitation of dielectric-loaded surface plasmon polariton observed by using near-field optical microscopy. Applied Physics Letters, 2008, 93, 073306.  | 1.5 | 25        |
| 84 | Structure and stimulated emission of ZnSe nanoribbons grown by thermal evaporation. Nanotechnology, 2007, 18, 305705.  | 1.3 | 28        |
| 85 | Large-scale synthesis and optical behaviors of ZnO tetrapods. Applied Physics Letters, 2007, 90, 153116.   | 1.5 | 44        |
| 86 | Micro-cylinder mode in photonic quasicrystal observed by near-field optical microscopy. , 2007, , .  |     | 0         |
| 87 | PHOTOLUMINESCENCE EMITTING PROPERTIES OF SINGLE ZnO NANOWIRE STUDIED BY SCANNING NEAR-FIELD OPTICAL MICROSCOPE. Modern Physics Letters B, 2007, 21, 543-549.   | 1.0 | 5         |
| 88 | Synthesis of Tower-like ZnO Structures and Visible Photoluminescence Origins of Varied-Shaped ZnO Nanostructures. Journal of Physical Chemistry C, 2007, 111, 7655-7660.                                 | 1.5 | 62        |
| 89 | Color-Changeable Optical Transport through Se-Doped CdS 1D Nanostructures. Nano Letters, 2007, 7, 2970-2975.   | 4.5 | 65        |
| 90 | Spatial mapping on surface light extraction from 2D photonic quasicrystals patterned GaN-based light emitters. Physica Status Solidi C: Current Topics in Solid State Physics, 2007, 4, 100-103.         | 0.8 | 0         |

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|-----|---|-----|-----------|
| 91  | Soft Control of Scanning Probe Microscope with High Flexibility. Scanning, 2007, 29, 109-113.   | 0.7 | 0         |
| 92  | Multistable features of boronized interstitial-pentamers on Si(113) surfaces. Surface and Interface Analysis, 2006, 38, 1078-1082.  | 0.8 | 0         |
| 93  | Mesoscopic phases and characteristics of nano-structured interfaces. Surface and Interface Analysis, 2006, 38, 1068-1072.   | 0.8 | 1         |
| 94  | Universal characteristics and function-control of nanostructured materials. Thin Solid Films, 2006, 509, 3-12.  | 0.8 | 0         |
| 95  | Self-Absorption Effect in the Spatial Resolved Spectra of CdS Nano-Ribbon Optical Waveguide Observed by Near-Field Spectroscopy. Optical Review, 2006, 13, 235-238.   | 1.2 | 7         |
| 96  | VISUALIZING Ca <sup>2+</sup> SPARKS AND SUBSTRUCTURE OF Ca <sup>2+</sup> WAVES BY TOTAL INTERNAL REFLECTION FLUORESCENCE MICROSCOPY (TIRFM). International Journal of Nanoscience, 2006, 05, 709-714.         | 0.4 | 0         |
| 97  | Study on near-field optical imaging mechanism. , 2005, 5635, 7.   |     | 0         |
| 98  | Visualizing substructure of Ca <sup>2+</sup> waves by total internal reflection fluorescence microscopy. , 2005, , .  |     | 2         |
| 99  | Mesoscopic Relaxation and Elastic Properties of Two Dimensional Magnetic Nano Structured Materials. Journal of Computational and Theoretical Nanoscience, 2005, 2, 277-286.                                   | 0.4 | 1         |
| 100 | Optical Waveguide through CdS Nanoribbons. Small, 2005, 1, 980-983.   | 5.2 | 193       |
| 101 | High spatial resolution investigation of electroluminescence of InGaN/GaN multiple quantum wells by using scanning near-field optical microscopy and spectroscopy. , 2005, , .                                |     | 1         |
| 102 | Highly cited research papers and the evaluation of a research university: A case study: Peking University 1974-2003. Scientometrics, 2004, 60, 237-347.   | 1.6 | 16        |
| 103 | Ge molecular beam epitaxy on Si(113): surface structures, nanowires and nanodots. Surface and Interface Analysis, 2004, 36, 114-118.  | 0.8 | 6         |
| 104 | Mesoscopic phase transition of nanostructured materials: construction of computer experimental systems and synthesis and control of functional properties. Surface and Interface Analysis, 2004, 36, 177-183. | 0.8 | 3         |
| 105 | <title>Three-dimensional modeling of near-field imaging in subwavelength periodic structures</title>. , 2002, , .   |     | 1         |
| 106 | Near-Field Optics. , 2000, , .  |     | 9         |
| 107 | <title>Study of whispering-gallery mode of InGaP microdisks using scanning near-field optical microscopy</title>. , 1998, , .   |     | 1         |
| 108 | Laser Induced Light-Force Interaction in the Optical Near-Field Region. Chinese Physics Letters, 1998, 15, 165-167.   | 1.3 | 8         |

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|-----|--|-----|-----------|
| 109 | <title>Near-field spectroscopy of GaN blue light emission diode</title>. , 1998, 3467, 222.  |     | 1         |
| 110 | <title>Progress of near-field optics research: activities in China</title>. , 1998, 3467, 202.   |     | 0         |
| 111 | Ultrasonic resonance regulated near-field scanning optical microscope and laser induced near-field optical-force interaction. Optical Review, 1997, 4, 236-239.  | 1.2 | 8         |
| 112 | Ultrasonic resonance regulated near-field scanning optical microscope and laser induced near-field optical-force interaction. Optical Review, 1997, 4, A236-A239.  | 1.2 | 2         |
| 113 | The effect of ionic radius of metal element (M) on (Pb,M)-1212 superconductors (M= Sr, Ca, Mg, Hg, Cd.) Tj ETQq1,10,9 0.784314 rgBT /O   | 1.0 | 18        |
| 114 | The growth mechanism and topography of superconducting YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7-<math>\delta</math></sub> and BiSrCaCuO-2201 films studied by scanning tunneling microscopy. Physica C: Superconductivity and Its Applications, 1993, 216, 153-159. | 0.6 | 26        |
| 115 | Effect of time aging on the properties of Ag-doped YBaCuO superconductors. Superconductor Science and Technology, 1993, 6, 715-720.  | 1.8 | 7         |
| 116 | The process of forming 2223 phase from 2212 phase in Bi(Pb)-Sr-Ca-Cu-O System. Solid State Communications, 1991, 78, 609-613.  | 0.9 | 40        |
| 117 | A MODEL FOR MODULATIONS IN Bi <sub>2</sub> Sr <sub>2</sub> Ca <sub>n</sub> Cu <sub>n+1</sub> O <sub>2n+6+d</sub> RELATED TO AURIVILLIUS OXYGEN. Modern Physics Letters B, 1990, 04, 59-62.   | 1.0 | 5         |
| 118 | Anisotropic properties of single crystal Bi <sub>2</sub> Sr <sub>2</sub> CaCu <sub>2</sub> O <sub>8+<math>\delta</math></sub> . Physica C: Superconductivity and Its Applications, 1989, 162-164, 1649-1650.   | 0.6 | 3         |
| 119 | Superconductivity and crystal structure in the Bi-Pb-Sr-Ca-Cu-O system. IEEE Transactions on Magnetics, 1989, 25, 2154-2157.   | 1.2 | 8         |
| 120 | Antiferromagnetic ordering in the high-T <sub>c</sub> superconductors (Y <sub>1-x</sub> Gd <sub>x</sub> ) Ba <sub>2</sub> Cu <sub>3</sub> O <sub>7-y</sub> . Physica C: Superconductivity and Its Applications, 1988, 153-155, 190-191.                              | 0.6 | 6         |
| 121 | Antiferromagnetic ordering observed in the high T <sub>c</sub> superconductor GdBa <sub>2</sub> Cu <sub>3</sub> O <sub>7-x</sub> . Solid State Communications, 1987, 64, 691-694.  | 0.9 | 11        |