

# Jun Chen

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

294  
papers

6,644  
citations

42  
h-index

71  
g-index

385  
ext. papers

7,586  
ext. citations

4.9  
avg, IF

5.62  
L-index

#	Paper	IF	Citations
294	Gated Si-Tip with On-Tip Integrated Gate-all-Around Field Effect Transistor for Actively Controlled Field Electron Emission. <i>IEEE Electron Device Letters</i> , <b>2022</b> , 1-1	4.4	
293	A Microelectronic Terahertz Source Using Multiple Field Emitter Cathodes With an Array of Coupled Cavities. <i>IEEE Transactions on Electron Devices</i> , <b>2022</b> , 1-7	2.9	
292	Pulsed voltage driving enhanced electron emission in ZnO nanowire cold cathode flat-panel X-ray source. <i>Vacuum</i> , <b>2022</b> , 199, 110970	3.7	4
291	Drain Current Drop in Oxide Semiconductor Thin-Film Transistors: The Mechanisms and a Solution. <i>IEEE Transactions on Electron Devices</i> , <b>2022</b> , 1-6	2.9	0
290	P-Type Si-Tips With Integrated Nanochannels for Stable Nonsaturated High Current Density Field Electron Emission. <i>IEEE Transactions on Electron Devices</i> , <b>2022</b> , 1-6	2.9	
289	Achieving High Current Stability of Gated Carbon Nanotube Cold Cathode Electron Source Using IGBT Modulation for X-ray Source Application. <i>Nanomaterials</i> , <b>2022</b> , 12, 1882	5.4	0
288	How Materials and Device Factors Determine the Performance: A Unified Solution for Transistors with Nontrivial Gates and Transistor-Diode Hybrid Integration.. <i>Advanced Science</i> , <b>2021</b> , e2104896	13.6	6
287	Widely Adjusting the Breakdown Voltages of Kilo-voltage Thin Film Transistors. <i>IEEE Electron Device Letters</i> , <b>2021</b> , 1-1	4.4	
286	Performance Enhancement of Terahertz Laser Diode via Resonant Cavities. <i>IEEE Transactions on Electron Devices</i> , <b>2021</b> , 68, 6465-6469	2.9	1
285	WO <sub>3</sub> nanowire field emission point electron source with high brightness and current stability. <i>Vacuum</i> , <b>2021</b> , 110660	3.7	
284	. <i>Journal of Lightwave Technology</i> , <b>2021</b> , 39, 2618-2624	4	2
283	Fast-response X-ray detector based on nanocrystalline Ga <sub>2</sub> O <sub>3</sub> thin film prepared at room temperature. <i>Applied Surface Science</i> , <b>2021</b> , 554, 149619	6.7	4
282	Pixelated Perovskite Photodiode on IGZO Thin Film Transistor Backplane for Low Dose Indirect X-Ray Detection. <i>IEEE Journal of the Electron Devices Society</i> , <b>2021</b> , 9, 96-101	2.3	3
281	Terahertz laser diode using field emitter arrays. <i>Physical Review B</i> , <b>2021</b> , 103,	3.3	5
280	High Current Field Emission from Large-Area Indium Doped ZnO Nanowire Field Emitter Arrays for Flat-Panel X-ray Source Application. <i>Nanomaterials</i> , <b>2021</b> , 11,	5.4	8
279	High-Quality All-Inorganic Perovskite CsPbBr Microsheet Crystals as Low-Loss Subwavelength Exciton-Polariton Waveguides. <i>Nano Letters</i> , <b>2021</b> , 21, 1822-1830	11.5	6
278	EGa <sub>2</sub> O <sub>3</sub> Thin Film Avalanche Low-Energy X-Ray Detectors for Highly Sensitive Detection and Fast-Response Applications. <i>Advanced Materials Technologies</i> , <b>2021</b> , 6, 2001094	6.8	5

277	Flexible indirect x-ray detector enabled by organic photodiode and CsPbBr <sub>3</sub> perovskite quantum dot scintillator. <i>Flexible and Printed Electronics</i> , <b>2021</b> , 6, 015008	3.1	3
276	Diagonal 4-in ZnO Nanowire Cold Cathode Flat-Panel X-Ray Source: Preparation and Projection Imaging Properties. <i>IEEE Transactions on Nuclear Science</i> , <b>2021</b> , 68, 338-345	1.7	5
275	Ultrafast Electron Tunneling Devices-From Electric-Field Driven to Optical-Field Driven. <i>Advanced Materials</i> , <b>2021</b> , 33, e2101449	2.4	0
274	Theoretical analysis of efficiency for vacuum photoelectric energy converters with plasmon-enhanced electron emitter. <i>Journal of Applied Physics</i> , <b>2021</b> , 130, 023104	2.5	
273	P-1.6: Characteristics of High Voltage Corbino a-IGZO Thin-film Transistor. <i>Digest of Technical Papers SID International Symposium</i> , <b>2021</b> , 52, 695-695	0.5	
272	Fully vacuum-sealed addressable nanowire cold cathode flat-panel x-ray source. <i>Applied Physics Letters</i> , <b>2021</b> , 119, 053501	3.4	8
271	Concept for Realizing High Output Power Density Thermionic Energy Converter by Field-Assisted Thermionic Emission Using a Direct-Tunneling Metal/Insulator/Graphene Cathode. <i>IEEE Transactions on Electron Devices</i> , <b>2021</b> , 68, 4144-4149	2.9	1
270	P-1.8: A 3-Probe Approach to Study Dynamic Operation in High Voltage Thin Film Transistors. <i>Digest of Technical Papers SID International Symposium</i> , <b>2021</b> , 52, 699-699	0.5	
269	Realizing the large current field emission characteristics of single vertical few-layer graphene by constructing a lateral graphite heat dissipation interface. <i>Nanoscale</i> , <b>2021</b> , 13, 5234-5242	7.7	2
268	Pyramid-Shaped Single-Crystalline Nanostructure of Molybdenum with Excellent Mechanical, Electrical, and Optical Properties. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 24218-24230	9.5	2
267	Photovoltage-Coupled Dual-Gate InGaZnO Thin-Film Transistors Operated at the Subthreshold Region for Low-Power Photodetection. <i>ACS Applied Electronic Materials</i> , <b>2020</b> , 2, 1745-1751	4	3
266	Fabrication of Coaxis-Gated ZnO Nanowire Field-Emitter Arrays With In-Plane Focusing Gate Electrode Structure. <i>IEEE Transactions on Electron Devices</i> , <b>2020</b> , 67, 677-683	2.9	4
265	Vertical Transistors with Conductive-Network Electrodes: A Physical Image and What It Tells. <i>Physical Review Applied</i> , <b>2020</b> , 13,	4.3	2
264	Backside Illuminated 3-D Photosensitive Thin-Film Transistor on a Scintillating Glass Substrate for Indirect-Conversion X-Ray Detection. <i>IEEE Electron Device Letters</i> , <b>2020</b> , 41, 1209-1212	4.4	2
263	Self-Optimizing Effect of a Few-Layer Graphene's Top-Edge Structure during Field Electron Emission Observed by In Situ TEM. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 16815-16821	9.5	4
262	A Universal Method to Weld Individual One-Dimensional Nanostructures with a Tungsten Needle Based on Synergy of the Electron Beam and Electrical Current. <i>Nanomaterials</i> , <b>2020</b> , 10,	5.4	2
261	Highly-Sensitive Indirect-Conversion X-Ray Detector With an Embedded Photodiode Formed by a Three-Dimensional Dual-Gate Thin-Film Transistor. <i>Journal of Lightwave Technology</i> , <b>2020</b> , 38, 3775-3780	4	6
260	Study on Pyramidal Molybdenum Nanostructures Cold Cathode with Large-Current Properties Based on Self-Assembly Growth Method. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 35354-35364	9.5	1

259	Sensitive and Fast Direct Conversion X-Ray Detectors Based on Single-Crystalline HgI <sub>2</sub> Photoconductor and ZnO Nanowire Vacuum Diode. <i>Advanced Materials Technologies</i> , <b>2020</b> , 5, 1901108	6.8	8
258	Energy-tunable photon-enhanced thermal tunneling electrons for intrinsic adaptive full spectrum solar energy conversion. <i>Applied Physics Letters</i> , <b>2020</b> , 116, 063902	3.4	4
257	Kilo-Voltage Thin-Film Transistors for Driving Nanowire Field Emitters. <i>IEEE Electron Device Letters</i> , <b>2020</b> , 41, 405-408	4.4	12
256	Abnormal Electron Emission in a Vertical Graphene/Hexagonal Boron Nitride van der Waals Heterostructure Driven by a Hot Hole-Induced Auger Process. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 57505-57513	9.5	4
255	High-performance x-ray source based on graphene oxide-coated CuS nanowires grown on copper film. <i>Nanotechnology</i> , <b>2020</b> , 31, 485202	3.4	1
254	Electron emission and structure stability of carbon nanotube cold cathode driven by millisecond pulsed voltage. <i>Vacuum</i> , <b>2020</b> , 172, 109071	3.7	7
253	DP3 signal as a neuro-indicator for attentional processing of stereoscopic contents in varied depths within the "comfort zone". <i>Displays</i> , <b>2020</b> , 63, 101953	3.4	6
252	. <i>IEEE Access</i> , <b>2020</b> , 8, 192165-192176	3.5	1
251	. <i>IEEE Transactions on Electron Devices</i> , <b>2020</b> , 67, 4467-4472	2.9	3
250	Stable Heating Above 900 K in the Field Emission of ZnO Nanowires: Mechanism for Achieving High Current in Large Scale Field Emitter Arrays. <i>Advanced Electronic Materials</i> , <b>2020</b> , 6, 2000624	6.4	4
249	An in situ characterization technique for electron emission behavior under a photo-electric-common-excitation field: study on the vertical few-layer graphene individuals. <i>Nanotechnology</i> , <b>2019</b> , 30, 445202	3.4	1
248	Defective WO nanowire: possible long lifetime semiconductor nanowire point electron source. <i>Nanoscale</i> , <b>2019</b> , 11, 3370-3377	7.7	10
247	Quasi-Saturated Arsenic Concentration and Uniform Electron Emission by Regulating Thermal Oxidation of Si Nanotips. <i>IEEE Transactions on Electron Devices</i> , <b>2019</b> , 66, 1545-1551	2.9	4
246	Highly Stable Field Emission from a Tungsten Diselenide Monolayer on Zinc Oxide Nanowire by Geometrically Modulating Hot Electrons. <i>Advanced Electronic Materials</i> , <b>2019</b> , 5, 1900128	6.4	3
245	Non-uniaxial stress-assisted fabrication of nanoconstriction on vertical nanostructured Si. <i>Nanotechnology</i> , <b>2019</b> , 30, 365601	3.4	2
244	A General Approach to Probe Dynamic Operation and Carrier Mobility in Field-Effect Transistors with Nonuniform Accumulation. <i>Advanced Functional Materials</i> , <b>2019</b> , 29, 1901700	15.6	20
243	Nanostructured High-Performance Thin-Film Transistors and Phototransistors Fabricated by a High-Yield and Versatile Near-Field Nanolithography Strategy. <i>ACS Nano</i> , <b>2019</b> , 13, 6618-6630	16.7	11
242	Fabrication of large-area ZnO nanowire field emitter arrays by thermal oxidation for high-current application. <i>Applied Surface Science</i> , <b>2019</b> , 484, 966-974	6.7	18

241	The Growth Methods and Field Emission Studies of Low-Dimensional Boron-Based Nanostructures. <i>Applied Sciences (Switzerland)</i> , <b>2019</b> , 9, 1019	2.6	7
240	Mechanism of photoluminescence quenching in visible and ultraviolet emissions of ZnO nanowires decorated with gold nanoparticles. <i>Japanese Journal of Applied Physics</i> , <b>2019</b> , 58, 051005	1.4	1
239	Inorganic Boron-Based Nanostructures: Synthesis, Optoelectronic Properties, and Prospective Applications. <i>Nanomaterials</i> , <b>2019</b> , 9,	5.4	19
238	Ultrafast Field-Emission Electron Sources Based on Nanomaterials. <i>Advanced Materials</i> , <b>2019</b> , 31, e1805845	2.4	26
237	High detectivity ITO/organolead halide perovskite Schottky photodiodes. <i>Semiconductor Science and Technology</i> , <b>2019</b> , 34, 074004	1.8	7
236	A Plasmon-Mediated Electron Emission Process. <i>ACS Nano</i> , <b>2019</b> , 13, 1977-1989	16.7	6
235	Defect-Enhanced Field Emission from WO <sub>3</sub> Nanowires for Flat-Panel X-ray Sources. <i>ACS Applied Nano Materials</i> , <b>2019</b> , 2, 5206-5213	5.6	17
234	Effect of Piezoresistive Behavior on Electron Emission from Individual Silicon Carbide Nanowire. <i>Nanomaterials</i> , <b>2019</b> , 9,	5.4	5
233	A-site Cation Engineering for Highly Efficient MAPbI <sub>3</sub> Single-Crystal X-ray Detector. <i>Angewandte Chemie - International Edition</i> , <b>2019</b> , 58, 17834-17842	16.4	97
232	Structure stability of few-layer graphene under high electric field. <i>Carbon</i> , <b>2019</b> , 144, 202-205	10.4	4
231	In situ study of field emission vacuum breakdown of individual multi-wall carbon nanotube. <i>Micro and Nano Letters</i> , <b>2019</b> , 14, 206-210	0.9	1
230	SnO-rGO nanocomposite as an efficient electron transport layer for stable perovskite solar cells on AZO substrate. <i>Nanotechnology</i> , <b>2019</b> , 30, 075202	3.4	14
229	Maximum field emission current density of CuO nanowires: theoretical study using a defect-related semiconductor field emission model and in situ measurements. <i>Scientific Reports</i> , <b>2018</b> , 8, 2131	4.9	8
228	Design and Realization of Microwave Frequency Multiplier Based on Field Emission From Carbon Nanotubes Cold-Cathode. <i>IEEE Transactions on Electron Devices</i> , <b>2018</b> , 65, 1146-1150	2.9	11
227	Electrical properties of fluorine-doped ZnO nanowires formed by biased plasma treatment. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , <b>2018</b> , 99, 254-260	3	2
226	Vertically Integrated Optical Sensor With Photoconductive Gain > 10 and Fill Factor > 70%. <i>IEEE Electron Device Letters</i> , <b>2018</b> , 39, 386-389	4.4	9
225	In situ sulfur loading in graphene-like nano-cell by template-free method for Li-S batteries. <i>Nanoscale</i> , <b>2018</b> , 10, 3877-3883	7.7	16
224	Defect-concentration dependence of electrical transport mechanisms in CuO nanowires.. <i>RSC Advances</i> , <b>2018</b> , 8, 2188-2195	3.7	13

223	Change in crystalline structure of WO nanowires induced by X-ray irradiation and its effects on field emission.. <i>RSC Advances</i> , <b>2018</b> , 8, 752-760	3.7	13
222	Improved field emission properties of FeO nanoflakes with current aging treatment and morphology optimization. <i>Nanotechnology</i> , <b>2018</b> , 29, 085708	3.4	1
221	Double-sided masking and stress-release etching for the fabrication of high-aspect-ratio graphene micro-cantilever. <i>Journal of Micromechanics and Microengineering</i> , <b>2018</b> , 28, 085001	2	
220	Fabrication of ZnO Nanowire Field-Emitter Arrays With Focusing Capability. <i>IEEE Transactions on Electron Devices</i> , <b>2018</b> , 65, 1982-1987	2.9	4
219	The Effect of In situ Magnetic Field on Magnetic Properties and Residual Stress of Fe-Based Amorphous Film. <i>IEEE Transactions on Magnetics</i> , <b>2018</b> , 54, 1-8	2	4
218	Highly stable field emission from ZnO nanowire field emitters controlled by an amorphous indiumgalliumzinc-oxide thin film transistor. <i>Japanese Journal of Applied Physics</i> , <b>2018</b> , 57, 045003	1.4	8
217	Tetragonal Single-Crystalline Boron Nanowires with Strong Anisotropic Light Scattering Behaviors and Photocurrent Response in Visible-Light Regime. <i>Small</i> , <b>2018</b> , 14, e1704135	11	2
216	Penetration length-dependent hot electrons in the field emission from ZnO nanowires. <i>Applied Surface Science</i> , <b>2018</b> , 427, 573-580	6.7	6
215	Investigation of the temperature dependent field emission from individual ZnO nanowires for evidence of field-induced hot electrons emission. <i>Journal of Physics Condensed Matter</i> , <b>2018</b> , 30, 315002	1.8	6
214	ZnS nanoparticles coated with graphene-like nano-cell as anode materials for high rate capability lithium-ion batteries. <i>Journal of Materials Science</i> , <b>2018</b> , 53, 14619-14628	4.3	10
213	Pinhole evolution of few-layer graphene during electron tunneling and electron transport. <i>Carbon</i> , <b>2018</b> , 139, 688-694	10.4	3
212	Coplanar-gate ZnO nanowire field emitter arrays with enhanced gate-control performance using a ring-shaped cathode. <i>Scientific Reports</i> , <b>2018</b> , 8, 12294	4.9	7
211	Site Occupation of Eu in BaSr SiO ( x = 0-1.9) and Origin of Improved Luminescence Thermal Stability in the Intermediate Composition. <i>Inorganic Chemistry</i> , <b>2018</b> , 57, 7090-7096	5.1	32
210	Band-to-Band Tunneling-Dominated Thermo-Enhanced Field Electron Emission from p-Si/ZnO Nanoemitters. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 21518-21526	9.5	4
209	39-2: Highly Sensitive a-Si:H PIN Photodiode Gated LTPS TFT for Optical In-Display Fingerprint Identification. <i>Digest of Technical Papers SID International Symposium</i> , <b>2018</b> , 49, 490-493	0.5	3
208	Enhanced Detectivity and Suppressed Dark Current of Perovskite-InGaZnO Phototransistor via a PCBM Interlayer. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 44144-44151	9.5	31
207	Atomic-layer-deposited ultra-thin VOx film as a hole transport layer for perovskite solar cells. <i>Semiconductor Science and Technology</i> , <b>2018</b> , 33, 115016	1.8	16
206	Electron Bombardment Induced Photoconductivity and High Gain in a Flat Panel Photodetector Based on a ZnS Photoconductor and ZnO Nanowire Field Emitters. <i>ACS Photonics</i> , <b>2018</b> , 5, 4147-4155	6.3	18

205	. <i>Journal of Lightwave Technology</i> , <b>2018</b> , 36, 5010-5015	4	22
204	Tungsten Target Optimization for Photon Fluence Maximization of a Transmission-Type Flat-Panel X-Ray Source by Monte Carlo Simulation and Experimental Measurement. <i>IEEE Transactions on Radiation and Plasma Medical Sciences</i> , <b>2018</b> , 2, 452-458	4.2	3
203	Optimizing the Field Emission Properties of ZnO Nanowire Arrays by Precisely Tuning the Population Density and Application in Large-Area Gated Field Emitter Arrays. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 3911-3921	9.5	45
202	In situ study of graphene crystallinity effect on field electron emission characteristics. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , <b>2017</b> , 35, 02C107	1.3	5
201	Luminescence properties and site occupancy of Ce <sup>3+</sup> in Ba <sub>2</sub> SiO <sub>4</sub> : a combined experimental and ab initio study. <i>RSC Advances</i> , <b>2017</b> , 7, 25685-25693	3.7	18
200	In-situ determination of the flat band carrier concentration and surface charge density of individual semiconductor nanowires by a combination of electrical and field emission measurements. <i>Journal of Applied Physics</i> , <b>2017</b> , 121, 174306	2.5	2
199	Low-Voltage Photodetectors with High Responsivity Based on Solution-Processed Micrometer-Scale All-Inorganic Perovskite Nanoplatelets. <i>Small</i> , <b>2017</b> , 13, 1700364	11	109
198	A moderate synthesis route of 5.6 mA-current LaB <sub>6</sub> nanowire film with recoverable emission performance towards cold cathode electron source applications. <i>RSC Advances</i> , <b>2017</b> , 7, 24848-24855	3.7	14
197	A two-dimensional structure graphene STM tips fabricated by microwave plasma enhanced chemical vapor deposition. <i>Carbon</i> , <b>2017</b> , 121, 337-342	10.4	12
196	Thermo-enhanced field emission from ZnO nanowires: Role of defects and application in a diode flat panel X-ray source. <i>Applied Surface Science</i> , <b>2017</b> , 399, 337-345	6.7	19
195	Tailoring of electromagnetic field localizations by two-dimensional graphene nanostructures. <i>Light: Science and Applications</i> , <b>2017</b> , 6, e17057	16.7	48
194	Fast identification of the conduction-type of nanomaterials by field emission technique. <i>Scientific Reports</i> , <b>2017</b> , 7, 13057	4.9	3
193	A double-sided radiating flat-panel X-ray source using ZnO nanowire field emitters. <i>Vacuum</i> , <b>2017</b> , 144, 266-271	3.7	18
192	One-step growth of graphene-carbon nanotube trees on Si substrate and characteristics of single individual tree. <i>Carbon</i> , <b>2017</b> , 125, 189-198	10.4	7
191	Host-sensitized luminescence of Dy <sup>3+</sup> in LuNbO <sub>4</sub> under ultraviolet light and low-voltage electron beam excitation: energy transfer and white emission. <i>Journal of Materials Chemistry C</i> , <b>2017</b> , 5, 9012-9020	7.1	38
190	An Analytical Modeling of Field Electron Emission for a Vertical Wedged Ordered Nanostructure. <i>Advanced Electronic Materials</i> , <b>2017</b> , 3, 1700295	6.4	4
189	<b>2017</b> ,		2
188	Epitaxial growth of multiwall carbon nanotube from stainless steel substrate and effect on electrical conduction and field emission. <i>Nanotechnology</i> , <b>2017</b> , 28, 305704	3.4	14

187	Room-Temperature Strong Light-Matter Interaction with Active Control in Single Plasmonic Nanorod Coupled with Two-Dimensional Atomic Crystals. <i>Nano Letters</i> , <b>2017</b> , 17, 4689-4697	11.5	164
186	Integration of ZnO nanowires in gated field emitter arrays for large-area vacuum microelectronics applications. <i>Current Applied Physics</i> , <b>2017</b> , 17, 85-91	2.6	19
185	Controllable preparation of 1-D and dendritic ZnO nanowires and their large area field-emission properties. <i>Journal of Alloys and Compounds</i> , <b>2017</b> , 690, 304-314	5.7	48
184	Molybdenum Nanoscrews: A Novel Non-coinage-Metal Substrate for Surface-Enhanced Raman Scattering. <i>Nano-Micro Letters</i> , <b>2017</b> , 9, 2	19.5	6
183	Fabrication of ZnO nanowire field emitter arrays with non-coplanar focus electrode structure <b>2017</b> ,		1
182	Si tip with integrated nano-channel: Self-heated and self-current-limited field electron emitter <b>2017</b> ,		1
181	Fabrication of large-area arrays of coaxial gated ZnO nanowire field emitters for vacuum microelectronics applications <b>2017</b> ,		2
180	ZnO nanowire field emitters integrated with amorphous Indium-Gallium-Zinc-Oxide thin film transistor <b>2017</b> ,		1
179	An easy way to controllably synthesize one-dimensional SmB <sub>6</sub> topological insulator nanostructures and exploration of their field emission applications. <i>Chinese Physics B</i> , <b>2017</b> , 26, 118103	1.2	5
178	3-D Dual-Gate Photosensitive Thin-Film Transistor Architectures Based on Amorphous Silicon. <i>IEEE Transactions on Electron Devices</i> , <b>2017</b> , 64, 4952-4958	2.9	8
177	Preparation, structure configuration, physical properties and applications of borophene and two-dimensional alkaline-earth metal boride nanomaterials. <i>Wuli Xuebao/Acta Physica Sinica</i> , <b>2017</b> , 66, 217702	0.6	2
176	Low-Temperature Fabrication of Cold Cathode WO <sub>2</sub> Nanowire Arrays on Glass Substrate and Improvement of their Working Performance. <i>Advanced Materials Technologies</i> , <b>2017</b> , 2, 1700029	6.8	4
175	Integrated ZnO Nano-Electron-Emitter with Self-Modulated Parasitic Tunneling Field Effect Transistor at the Surface of the p-Si/ZnO Junction. <i>Scientific Reports</i> , <b>2016</b> , 6, 33983	4.9	7
174	In Situ Characterization of the Local Work Function along Individual Free Standing Nanowire by Electrostatic Deflection. <i>Scientific Reports</i> , <b>2016</b> , 6, 21270	4.9	6
173	A Fully-Sealed Carbon-Nanotube Cold-Cathode Terahertz Gyrotron. <i>Scientific Reports</i> , <b>2016</b> , 6, 32936	4.9	38
172	Excitation Wavelength Dependent Luminescence of LuNbO <sub>4</sub> :Pr <sup>3+</sup> Influences of Intervalence Charge Transfer and Host Sensitization. <i>Journal of Physical Chemistry C</i> , <b>2016</b> , 120, 26044-26053	3.8	40
171	Surface nitrogen functionality for the enhanced field emission of free-standing few-layer graphene nanowalls. <i>Journal of Alloys and Compounds</i> , <b>2016</b> , 672, 433-439	5.7	25
170	Morphology Effect of Vertical Graphene on the High Performance of Supercapacitor Electrode. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 7363-9	9.5	69



169	Highly Photosensitive Dual-Gate a-Si:H TFT and Array for Low-Dose Flat-Panel X-Ray Imaging. <i>IEEE Photonics Technology Letters</i> , <b>2016</b> , 28, 1952-1955	2.2	8
168	Three-dimensional fin-shaped dual-gate photosensitive a-Si:H thin-film transistor for low dose X-ray imaging <b>2016</b> ,		2
167	Self-modulated field electron emitter: Gated device of integrated Si tip-on-nano-channel. <i>Applied Physics Letters</i> , <b>2016</b> , 109, 233501	3.4	10
166	Dual-Gate Photosensitive a-Si:H TFT Array Enabling Fingerprint-Sensor-Integrated Display Application. <i>Journal of Display Technology</i> , <b>2016</b> , 12, 835-839		13
165	Molybdenum nano emitters: the effect of the structural feature on oxygen damage immunity. <i>Materials Research Express</i> , <b>2016</b> , 3, 045001	1.7	
164	Resonance Coupling in Silicon Nanosphere-J-Aggregate Heterostructures. <i>Nano Letters</i> , <b>2016</b> , 16, 6886-6895	3.5	48
163	Chemically-doped graphene with improved surface plasmon characteristics: an optical near-field study. <i>Nanoscale</i> , <b>2016</b> , 8, 16621-30	7.7	10
162	Intense green-light emission from 9,10-bis (4-(1,2,2-triphenylvinyl)styryl)anthracene emitting electroluminescent devices. <i>Journal of Materials Chemistry C</i> , <b>2015</b> , 3, 8066-8073	7.1	10
161	Correlation between surface chemistry, gasochromism and field emission properties of tungsten oxide nanowire thin films when exposed to atomic oxygen. <i>RSC Advances</i> , <b>2015</b> , 5, 70059-70063	3.7	5
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157	Comparative study of field emission from individual ZnO nanowire with and without NH3 plasma treatment <b>2015</b> ,		1
156	Modulation of field emission current from ZnO nanowires by high voltage a-Si thin film transistor <b>2015</b> ,		1
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20	Silicon tip arrays with ultrathin amorphous diamond apices. <i>Applied Physics Letters</i> , <b>2002</b> , 81, 4257-4259	3.4	19
19	Substrate nanoprotusions and their effect on field electron emission from amorphous-diamond films. <i>Applied Physics Letters</i> , <b>2002</b> , 80, 4030-4032	3.4	6
18	Field emission from crystalline copper sulphide nanowire arrays. <i>Applied Physics Letters</i> , <b>2002</b> , 80, 3620-3622	3.4	173
17	Needle-shaped silicon carbide nanowires: Synthesis and field electron emission properties. <i>Applied Physics Letters</i> , <b>2002</b> , 80, 3829-3831	3.4	223
16	Characterization of a high voltage flat panel display unit using nanotube-based emitters. <i>Ultramicroscopy</i> , <b>2001</b> , 89, 105-9	3.1	6
15	Microfabrication and characterization of gated amorphous diamond-based field emission electron sources. <i>Ultramicroscopy</i> , <b>2001</b> , 89, 111-8	3.1	2
14	Study of the frequency response of the thin film cold cathode electron source of a lighting element. <i>Ultramicroscopy</i> , <b>2001</b> , 89, 123-8	3.1	3
13	High-voltage triode flat-panel display using field-emission nanotube-based thin films. <i>Journal of Vacuum Science &amp; Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , <b>2001</b> , 19, 1370		26
12	Vacuum gap dependence of field electron emission properties of large area multi-walled carbon nanotube films. <i>Journal Physics D: Applied Physics</i> , <b>2001</b> , 34, 1597-1601	3	69
11	The intrinsic relation between field electron emission and structure characteristics of amorphous diamond film. <i>Journal Physics D: Applied Physics</i> , <b>2000</b> , 33, 2568-2572	3	8
10	Study of field electron emission from nanocrystalline diamond thin films grown from a N <sub>2</sub> /CH <sub>4</sub> microwave plasma. <i>Journal Physics D: Applied Physics</i> , <b>2000</b> , 33, 1572-1575	3	9
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4	A Study of Field Electron Emission from Thin Amorphous-Carbon-Nitride Films. <i>Chinese Physics Letters</i> , <b>1998</b> , 15, 539-541	1.8	6
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2	Highly Sensitive Direct-Conversion Vacuum Flat-Panel X-Ray Detectors Formed by Ga <sub>2</sub> O <sub>3</sub> -ZnO Heterojunction Cold Cathode and ZnS Target and their Photoelectron Multiplication Mechanism. <i>Advanced Materials Interfaces</i> , 2102268	4.6	1
1	Sensitive Direct-Conversion X-Ray Detectors Formed by ZnO Nanowire Field Emitters and EGa <sub>2</sub> O <sub>3</sub> Photoconductor Targets with Electron Bombardment Induced Photoconductivity Mechanism. <i>Photonics Research</i> ,	6	1