

Jun Chen

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294
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385
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ext. citations

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L-index

#	Paper	IF	Citations
294	Large-Area Nanowire Arrays of Molybdenum and Molybdenum Oxides: Synthesis and Field Emission Properties. <i>Advanced Materials</i> , 2003 , 15, 1835-1840	24	309
293	Needle-shaped silicon carbide nanowires: Synthesis and field electron emission properties. <i>Applied Physics Letters</i> , 2002 , 80, 3829-3831	3.4	223
292	Growth and field-emission property of tungsten oxide nanotip arrays. <i>Applied Physics Letters</i> , 2005 , 87, 223108	3.4	203
291	Field emission from crystalline copper sulphide nanowire arrays. <i>Applied Physics Letters</i> , 2002 , 80, 3620-3622	3.4	173
290	. <i>IEEE Transactions on Electron Devices</i> , 2011 , 58, 1121-1126	2.9	166
289	Room-Temperature Strong Light-Matter Interaction with Active Control in Single Plasmonic Nanorod Coupled with Two-Dimensional Atomic Crystals. <i>Nano Letters</i> , 2017 , 17, 4689-4697	11.5	164
288	Polymerized carbon nanobells and their field-emission properties. <i>Applied Physics Letters</i> , 1999 , 75, 3105-3107	3.4	154
287	Temperature dependence of field emission from cupric oxide nanobelt films. <i>Applied Physics Letters</i> , 2003 , 83, 746-748	3.4	149
286	Metal-like single crystalline boron nanotubes: synthesis and in situ study on electric transport and field emission properties. <i>Journal of Materials Chemistry</i> , 2010 , 20, 2197		139
285	Graphitization of nanodiamond powder annealed in argon ambient. <i>Applied Physics Letters</i> , 1999 , 74, 3651-3653	3.4	133
284	Correlation between resistance and field emission performance of individual ZnO one-dimensional nanostructures. <i>ACS Nano</i> , 2008 , 2, 2015-22	16.7	122
283	Synthesis and field-emission properties of aligned MoO ₃ nanowires. <i>Applied Physics Letters</i> , 2003 , 83, 2653-2655	3.4	120
282	Low-Voltage Photodetectors with High Responsivity Based on Solution-Processed Micrometer-Scale All-Inorganic Perovskite Nanoplatelets. <i>Small</i> , 2017 , 13, 1700364	11	109
281	Mechanism responsible for initiating carbon nanotube vacuum breakdown. <i>Physical Review Letters</i> , 2004 , 93, 075501	7.4	105
280	A-site Cation Engineering for Highly Efficient MAPbI ₃ Single-Crystal X-ray Detector. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 17834-17842	16.4	97
279	Self-heated hydrogen gas sensors based on Pt-coated W18O ₄₉ nanowire networks with high sensitivity, good selectivity and low power consumption. <i>Sensors and Actuators B: Chemical</i> , 2011 , 153, 354-360	8.5	95
278	Study of Physical and Chemical Processes of H ₂ Sensing of Pt-Coated WO ₃ Nanowire Films. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 15504-15509	3.8	95

277	Fabrication of Vertically Aligned Single-Crystalline Boron Nanowire Arrays and Investigation of Their Field-Emission Behavior. <i>Advanced Materials</i> , 2008 , 20, 2609-2615	24	88
276	Gasochromic effect and relative mechanism of WO ₃ nanowire films. <i>Nanotechnology</i> , 2007 , 18, 205701	3.4	83
275	Ultrathin Seed-Layer for Tuning Density of ZnO Nanowire Arrays and Their Field Emission Characteristics. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 11685-11690	3.8	81
274	Catalyst-free synthesis of ZnO nanowire arrays on zinc substrate by low temperature thermal oxidation. <i>Materials Letters</i> , 2007 , 61, 666-670	3.3	78
273	Field emission study of SiC nanowires/nanorods directly grown on SiC ceramic substrate. <i>Applied Physics Letters</i> , 2006 , 89, 023118	3.4	78
272	Optimize the field emission character of a vertical few-layer graphene sheet by manipulating the morphology. <i>Nanotechnology</i> , 2012 , 23, 015202	3.4	75
271	Morphology Effect of Vertical Graphene on the High Performance of Supercapacitor Electrode. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 7363-9	9.5	69
270	Large-Scale Synthesis of Bicrystalline ZnO Nanowire Arrays by Thermal Oxidation of Zinc Film: Growth Mechanism and High-Performance Field Emission. <i>Crystal Growth and Design</i> , 2013 , 13, 2897-2905	3.5	69
269	Catalytic synthesis and photoluminescence of needle-shaped 3CβSiC nanowires. <i>Solid State Communications</i> , 2003 , 128, 295-297	1.6	69
268	Vacuum gap dependence of field electron emission properties of large area multi-walled carbon nanotube films. <i>Journal Physics D: Applied Physics</i> , 2001 , 34, 1597-1601	3	69
267	Physical origin of nonlinearity in the Fowler-Nordheim plot of field-induced emission from amorphous diamond films: Thermionic emission to field emission. <i>Applied Physics Letters</i> , 2000 , 76, 2463-2465	3.4	64
266	Vacuum breakdown of carbon-nanotube field emitters on a silicon tip. <i>Applied Physics Letters</i> , 2003 , 83, 2671-2673	3.4	62
265	Segregation behaviors and radial distribution of dopant atoms in silicon nanowires. <i>Nano Letters</i> , 2011 , 11, 651-6	11.5	61
264	Fabrication of vertically aligned Si nanowires and their application in a gated field emission device. <i>Applied Physics Letters</i> , 2006 , 88, 013112	3.4	56
263	Synthesis of crystalline alumina nanowires and nanotrees. <i>Chemical Physics Letters</i> , 2002 , 365, 505-508	2.5	56
262	A Catalyzed-Growth Route to Directly Form Micropatterned WO ₂ and WO ₃ Nanowire Arrays with Excellent Field Emission Behaviors at Low Temperature. <i>Crystal Growth and Design</i> , 2010 , 10, 5193-5199	3.5	54
261	Synthesis of silicon carbide nanowires in a catalyst-assisted process. <i>Chemical Physics Letters</i> , 2002 , 356, 511-514	2.5	53
260	Yellow-emitting NaCaPO ₄ :Mn ²⁺ phosphor for field emission displays. <i>Optics Express</i> , 2011 , 19, 16423-313	3.3	52

259	Field emission display device structure based on double-gate driving principle for achieving high brightness using a variety of field emission nanoemitters. <i>Applied Physics Letters</i> , 2007 , 90, 253105	3.4	51
258	Tailoring of electromagnetic field localizations by two-dimensional graphene nanostructures. <i>Light: Science and Applications</i> , 2017 , 6, e17057	16.7	48
257	Controllable preparation of 1-D and dendritic ZnO nanowires and their large area field-emission properties. <i>Journal of Alloys and Compounds</i> , 2017 , 690, 304-314	5.7	48
256	Resonance Coupling in Silicon Nanosphere-J-Aggregate Heterostructures. <i>Nano Letters</i> , 2016 , 16, 6886-6895	6.95	48
255	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 & Interfaces</i> , 2017 , 9, 3911-3921	9.5	45
254	Fabrication of Ru and Ru-based functionalized nanotubes. <i>Journal of the American Chemical Society</i> , 2004 , 126, 3060-1	16.4	44
253	Cathodoluminescent properties of nanocrystalline Lu ₃ Ga ₅ O ₁₂ :Tb ³⁺ phosphor for field emission display application). <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2010 , 28, 490-494	1.3	42
252	An approach for synthesizing various types of tungsten oxide nanostructure. <i>Nanotechnology</i> , 2006 , 17, 5590-5	3.4	42
251	Growth of large-area aligned molybdenum nanowires by high temperature chemical vapor deposition: synthesis, growth mechanism, and device application. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 10296-302	3.4	41
250	Excitation Wavelength Dependent Luminescence of LuNbO ₄ :Pr ³⁺ Influences of Intervalence Charge Transfer and Host Sensitization. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 26044-26053	3.8	40
249	Physical origin of non-linearity in Fowler-Nordheim plots of aligned large area multi-walled nitrogen-containing carbon nanotubes. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2002 , 327, 16-19	5.3	40
248	Effects of light illumination on field emission from CuO nanobelt arrays. <i>Applied Physics Letters</i> , 2005 , 86, 151107	3.4	40
247	Transmission type flat-panel X-ray source using ZnO nanowire field emitters. <i>Applied Physics Letters</i> , 2015 , 107, 243105	3.4	39
246	Enhancing electron emission from silicon tip arrays by using thin amorphous diamond coating. <i>Applied Physics Letters</i> , 1998 , 73, 3668-3670	3.4	39
245	A Fully-Sealed Carbon-Nanotube Cold-Cathode Terahertz Gyrotron. <i>Scientific Reports</i> , 2016 , 6, 32936	4.9	38
244	Host-sensitized luminescence of Dy ³⁺ in LuNbO ₄ under ultraviolet light and low-voltage electron beam excitation: energy transfer and white emission. <i>Journal of Materials Chemistry C</i> , 2017 , 5, 9012-9020 ¹	7.1	38
243	On achieving better uniform carbon nanotube field emission by electrical treatment and the underlying mechanism. <i>Applied Physics Letters</i> , 2006 , 88, 111501	3.4	38
242	Effect of structural parameter on field emission properties of semiconducting copper sulphide nanowire films. <i>Journal of Applied Physics</i> , 2003 , 93, 1774-1777	2.5	36

241	Synthesis of large-scaled MoO ₂ nanowire arrays. <i>Chemical Physics Letters</i> , 2003 , 382, 443-446	2.5	35
240	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> , 2018 , 57, 7090-7096	5.1	32
239	Electrochromic properties of WO ₃ nanowire films and mechanism responsible for the near infrared absorption. <i>Journal of Applied Physics</i> , 2007 , 101, 114303	2.5	32
238	Investigation of the effects of atomic oxygen exposure on the electrical and field emission properties of ZnO nanowires. <i>Applied Surface Science</i> , 2013 , 270, 82-89	6.7	31
237	Ultrafast optical emission of nanodiamond induced by laser excitation. <i>Applied Physics Letters</i> , 2004 , 85, 914-916	3.4	31
236	Enhanced Detectivity and Suppressed Dark Current of Perovskite-InGaZnO Phototransistor via a PCBM Interlayer. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 44144-44151	9.5	31
235	A novel lift-off method for fabricating patterned and vertically-aligned W18O49 nanowire arrays with good field emission performance. <i>Nanoscale</i> , 2011 , 3, 1850-4	7.7	30
234	Fully sealed carbon nanotube flat-panel light source and its application as thin film transistor liquid-crystal display backlight. <i>Journal of Vacuum Science & Technology B</i> , 2008 , 26, 1033		30
233	Nanomaterials for field electron emission: preparation, characterization and application. <i>Ultramicroscopy</i> , 2003 , 95, 19-28	3.1	30
232	Large-area aligned branched Cu(2)S nanostructure arrays: room-temperature synthesis and growth mechanism. <i>Nanotechnology</i> , 2010 , 21, 215602	3.4	29
231	High luminescent Li ₂ CaSiO ₄ :Eu ²⁺ cyan phosphor film for wide color gamut field emission display. <i>Optics Express</i> , 2012 , 20, 17701-10	3.3	29
230	Growth of large-scale boron nanowire patterns with identical base-up mode and in situ field emission studies of individual boron nanowire. <i>Small</i> , 2014 , 10, 685-93	11	28
229	Individual boron nanowire has ultra-high specific Young's modulus and fracture strength as revealed by in situ transmission electron microscopy. <i>ACS Nano</i> , 2013 , 7, 10112-20	16.7	27
228	Ultrafast Field-Emission Electron Sources Based on Nanomaterials. <i>Advanced Materials</i> , 2019 , 31, e1805845	14.5	26
227	Controlled synthesis of ultra-long AlN nanowires in different densities and in situ investigation of the physical properties of an individual AlN nanowire. <i>Nanoscale</i> , 2011 , 3, 610-8	7.7	26
226	High-voltage triode flat-panel display using field-emission nanotube-based thin films. <i>Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , 2001 , 19, 1370		26
225	Surface nitrogen functionality for the enhanced field emission of free-standing few-layer graphene nanowalls. <i>Journal of Alloys and Compounds</i> , 2016 , 672, 433-439	5.7	25
224	Study of field emission, electrical transport, and their correlation of individual single CuO nanowires. <i>Journal of Applied Physics</i> , 2011 , 109, 023710	2.5	24

223	The application of carbon nanotubes in high-efficiency low power consumption field-emission luminescent tube. <i>Ultramicroscopy</i> , 2003 , 95, 153-6	3.1	24
222	A Mo nanoscrew formed by crystalline Mo grains with high conductivity and excellent field emission properties. <i>Nanoscale</i> , 2014 , 6, 4659-68	7.7	23
221	Fabrication of gated CuO nanowire field emitter arrays for application in field emission display. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2010 , 28, 558-561	1.3	23
220	Cathodoluminescent properties of SrGa ₂ S ₄ :Eu ²⁺ phosphor for field-emission display applications. <i>Journal of Vacuum Science & Technology B</i> , 2007 , 25, 618		23
219	Large-scale fabrication of ordered arrays of microcontainers and the restraint effect on growth of CuO nanowires. <i>Nanoscale Research Letters</i> , 2011 , 6, 86	5	22
218	. <i>Journal of Lightwave Technology</i> , 2018 , 36, 5010-5015	4	22
217	Growth direction manipulation of few-layer graphene in the vertical plane with parallel arrangement. <i>Carbon</i> , 2013 , 56, 103-108	10.4	21
216	Investigation on the photoconductive behaviors of an individual AlN nanowire under different excited lights. <i>Nanoscale Research Letters</i> , 2012 , 7, 454	5	21
215	Flat-panel luminescent lamp using carbon nanotube cathodes. <i>Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , 2003 , 21, 1727		21
214	Growth of aligned Cu ₂ S nanowire arrays with AAO template and their field-emission properties. <i>Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , 2004 , 22, 1282		21
213	A General Approach to Probe Dynamic Operation and Carrier Mobility in Field-Effect Transistors with Nonuniform Accumulation. <i>Advanced Functional Materials</i> , 2019 , 29, 1901700	15.6	20
212	Effect of hydrogen treatment on the field emission of amorphous carbon film. <i>Journal of Applied Physics</i> , 2007 , 101, 084315	2.5	20
211	Laser welding of a single tungsten oxide nanotip on a handleable tungsten wire: A demonstration of laser-weld nanoassembly. <i>Applied Physics Letters</i> , 2007 , 90, 073103	3.4	20
210	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> , 2017 , 399, 337-345	6.7	19
209	Inorganic Boron-Based Nanostructures: Synthesis, Optoelectronic Properties, and Prospective Applications. <i>Nanomaterials</i> , 2019 , 9,	5.4	19
208	Integration of ZnO nanowires in gated field emitter arrays for large-area vacuum microelectronics applications. <i>Current Applied Physics</i> , 2017 , 17, 85-91	2.6	19
207	Silicon tip arrays with ultrathin amorphous diamond apexes. <i>Applied Physics Letters</i> , 2002 , 81, 4257-4259	3.4	19
206	Luminescence properties and site occupancy of Ce ³⁺ in Ba ₂ SiO ₄ : a combined experimental and ab initio study. <i>RSC Advances</i> , 2017 , 7, 25685-25693	3.7	18

205	Fabrication of large-area ZnO nanowire field emitter arrays by thermal oxidation for high-current application. <i>Applied Surface Science</i> , 2019 , 484, 966-974	6.7	18
204	A double-sided radiating flat-panel X-ray source using ZnO nanowire field emitters. <i>Vacuum</i> , 2017 , 144, 266-271	3.7	18
203	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> , 2018 , 5, 4147-4155	6.3	18
202	Dual-Gate Photosensitive Thin-Film Transistor-Based Active Pixel Sensor for Indirect-Conversion X-Ray Imaging. <i>IEEE Transactions on Electron Devices</i> , 2015 , 62, 2894-2899	2.9	17
201	Defect-Enhanced Field Emission from WO ₃ Nanowires for Flat-Panel X-ray Sources. <i>ACS Applied Nano Materials</i> , 2019 , 2, 5206-5213	5.6	17
200	Highly conductive vertically aligned molybdenum nanowalls and their field emission property. <i>Nanoscale Research Letters</i> , 2012 , 7, 463	5	17
199	Effect of Contact Mode on the Electrical Transport and Field-Emission Performance of Individual Boron Nanowires. <i>Advanced Functional Materials</i> , 2010 , 20, 1994-2003	15.6	17
198	A study of control growth of three-dimensional nanowire networks of tungsten oxides: From aligned nanowires through hybrid nanostructures to 3D networks. <i>Journal of Crystal Growth</i> , 2010 , 312, 520-526	1.6	17
197	In situ sulfur loading in graphene-like nano-cell by template-free method for Li-S batteries. <i>Nanoscale</i> , 2018 , 10, 3877-3883	7.7	16
196	Atomic-layer-deposited ultra-thin VO _x film as a hole transport layer for perovskite solar cells. <i>Semiconductor Science and Technology</i> , 2018 , 33, 115016	1.8	16
195	In situ oxygen-assisted field emission treatment for improving the uniformity of carbon nanotube pixel arrays and the underlying mechanism. <i>Carbon</i> , 2011 , 49, 3299-3306	10.4	15
194	Study of high-brightness flat-panel lighting source using carbon-nanotube cathode. <i>Journal of Vacuum Science & Technology B</i> , 2008 , 26, 106		15
193	Field electron emission of Si nanotips with apexes of various compositions. <i>Applied Physics Letters</i> , 2005 , 87, 052105	3.4	15
192	A moderate synthesis route of 5.6 mA-current LaB ₆ nanowire film with recoverable emission performance towards cold cathode electron source applications. <i>RSC Advances</i> , 2017 , 7, 24848-24855	3.7	14
191	Field emission from Fe ₂ O ₃ nanoflakes: Effect of vacuum pressure, gas adsorption and in-situ thermal treatment. <i>Applied Surface Science</i> , 2014 , 292, 454-461	6.7	14
190	Controlled synthesis of patterned W ₁₈ O ₄₉ nanowire vertical-arrays and improved field emission performance by in situ plasma treatment. <i>Journal of Materials Chemistry C</i> , 2013 , 1, 3217	7.1	14
189	Epitaxial growth of multiwall carbon nanotube from stainless steel substrate and effect on electrical conduction and field emission. <i>Nanotechnology</i> , 2017 , 28, 305704	3.4	14
188	Dual-Gate Photosensitive a-Si:H Thin-Film Transistor With a π -Shape Channel for Large-Area Imaging and Sensing. <i>IEEE Electron Device Letters</i> , 2015 , 36, 1373-1375	4.4	14

187	Field-emission fluorescent lamp using carbon nanotubes on a wire-type cold cathode and a reflecting anode. <i>Journal of Vacuum Science & Technology B</i> , 2008 , 26, 1700		14
186	Bayard-Alpert ionization gauge using carbon-nanotube cold cathode. <i>Journal of Vacuum Science & Technology B</i> , 2007 , 25, 651		14
185	Noncatastrophic and catastrophic vacuum breakdowns of carbon nanotube film under direct current conditions. <i>Journal of Applied Physics</i> , 2007 , 101, 063309	2.5	14
184	SnO-rGO nanocomposite as an efficient electron transport layer for stable perovskite solar cells on AZO substrate. <i>Nanotechnology</i> , 2019 , 30, 075202	3.4	14
183	Defect-concentration dependence of electrical transport mechanisms in CuO nanowires.. <i>RSC Advances</i> , 2018 , 8, 2188-2195	3.7	13
182	Change in crystalline structure of WO nanowires induced by X-ray irradiation and its effects on field emission.. <i>RSC Advances</i> , 2018 , 8, 752-760	3.7	13
181	Microstructure change of ZnO nanowire induced by energetic x-ray radiation and its effect on the field emission properties. <i>Nanotechnology</i> , 2013 , 24, 275703	3.4	13
180	Oscillating current observed in field emission from a single zinc oxide nanostructure and the physical mechanism. <i>Journal of Applied Physics</i> , 2009 , 106, 014310	2.5	13
179	Microstructure and property of Czochralski-grown Si ₃ N ₄ /Si ₂ eutectic in situ composite for field emission. <i>Journal of Crystal Growth</i> , 2005 , 276, 92-96	1.6	13
178	Dual-Gate Photosensitive a-Si:H TFT Array Enabling Fingerprint-Sensor-Integrated Display Application. <i>Journal of Display Technology</i> , 2016 , 12, 835-839		13
177	A two-dimensional structure graphene STM tips fabricated by microwave plasma enhanced chemical vapor deposition. <i>Carbon</i> , 2017 , 121, 337-342	10.4	12
176	Kilo-Voltage Thin-Film Transistors for Driving Nanowire Field Emitters. <i>IEEE Electron Device Letters</i> , 2020 , 41, 405-408	4.4	12
175	Study on effect of hydrogen treatment on amorphous carbon film using scanning probe microscopy. <i>Ultramicroscopy</i> , 2009 , 109, 451-6	3.1	12
174	Preparation of Cu ₂ S dendritic, double-comb-like nanostructures by gas-solid reaction method. <i>Journal of Nanoscience and Nanotechnology</i> , 2008 , 8, 237-43	1.3	12
173	Nanostructured High-Performance Thin-Film Transistors and Phototransistors Fabricated by a High-Yield and Versatile Near-Field Nanolithography Strategy. <i>ACS Nano</i> , 2019 , 13, 6618-6630	16.7	11
172	Design and Realization of Microwave Frequency Multiplier Based on Field Emission From Carbon Nanotubes Cold-Cathode. <i>IEEE Transactions on Electron Devices</i> , 2018 , 65, 1146-1150	2.9	11
171	Pulse Field Emission Characteristics of Vertical Few-Layer Graphene Cold Cathode. <i>IEEE Transactions on Electron Devices</i> , 2014 , 61, 1771-1775	2.9	11
170	Effects of X-ray irradiation on the structure and field electron emission properties of vertically aligned few-layer graphene. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2013 , 304, 49-56	1.2	11

169	Defective WO nanowire: possible long lifetime semiconductor nanowire point electron source. <i>Nanoscale</i> , 2019 , 11, 3370-3377	7.7	10
168	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> , 2015 , 3, 8066-8073	7.1	10
167	ZnS nanoparticles coated with graphene-like nano-cell as anode materials for high rate capability lithium-ion batteries. <i>Journal of Materials Science</i> , 2018 , 53, 14619-14628	4.3	10
166	Non-crystallization and enhancement of field emission of cupric oxide nanowires induced by low-energy Ar ion bombardment. <i>Applied Surface Science</i> , 2015 , 329, 94-103	6.7	10
165	A cold cathode lighting element prototype. <i>Ultramicroscopy</i> , 2003 , 95, 81-4	3.1	10
164	Self-modulated field electron emitter: Gated device of integrated Si tip-on-nano-channel. <i>Applied Physics Letters</i> , 2016 , 109, 233501	3.4	10
163	Chemically-doped graphene with improved surface plasmon characteristics: an optical near-field study. <i>Nanoscale</i> , 2016 , 8, 16621-30	7.7	10
162	Vertically Integrated Optical Sensor With Photoconductive Gain > 10 and Fill Factor > 70%. <i>IEEE Electron Device Letters</i> , 2018 , 39, 386-389	4.4	9
161	Pulsed-laser treatment of solution-grown ZnO nanowires in nitrogen: Enhancing in electrical conduction and field emission. <i>Journal of Applied Physics</i> , 2010 , 107, 024312	2.5	9
160	Fabrication and field emission properties of boron nanowire bundles. <i>Ultramicroscopy</i> , 2009 , 109, 447-503	3.1	9
159	Three-dimensional six-fold symmetry ZnO sub-microstructures. <i>Journal of Crystal Growth</i> , 2009 , 311, 1435-1440	1.6	9
158	Post-treatment of screen-printed carbon nanotube emitter by selective plasma etching. <i>Journal of Vacuum Science & Technology B</i> , 2007 , 25, 552		9
157	Field emission properties from aligned carbon nanotube films with tetrahedral amorphous carbon coatings. <i>Diamond and Related Materials</i> , 2006 , 15, 1462-1466	3.5	9
156	Study of field electron emission from nanocrystalline diamond thin films grown from a N ₂ /CH ₄ microwave plasma. <i>Journal Physics D: Applied Physics</i> , 2000 , 33, 1572-1575	3	9
155	Microfabrication and characterization of an array of diode electron source using amorphous diamond thin films. <i>Applied Physics Letters</i> , 2000 , 77, 2921-2923	3.4	9
154	A simple SVS method for obtaining large-scale WO ₃ nanowire cold cathode emitters at atmospheric pressure and low temperature. <i>CrystEngComm</i> , 2015 , 17, 1065-1072	3.3	8
153	Sensitive and Fast Direct Conversion X-Ray Detectors Based on Single-Crystalline HgI ₂ Photoconductor and ZnO Nanowire Vacuum Diode. <i>Advanced Materials Technologies</i> , 2020 , 5, 1901108	6.8	8
152	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> , 2018 , 8, 2131	4.9	8

151	Highly stable field emission from ZnO nanowire field emitters controlled by an amorphous indium gallium zinc-oxide thin film transistor. <i>Japanese Journal of Applied Physics</i> , 2018 , 57, 045003	1.4	8
150	Phonon-assisted field emission from W18O49 nanowires. <i>Applied Physics Letters</i> , 2013 , 103, 141915	3.4	8
149	3-D Dual-Gate Photosensitive Thin-Film Transistor Architectures Based on Amorphous Silicon. <i>IEEE Transactions on Electron Devices</i> , 2017 , 64, 4952-4958	2.9	8
148	Thermal-enhanced field emission from CuO nanowires due to defect-induced localized states. <i>AIP Advances</i> , 2015 , 5, 107229	1.5	8
147	A Numerical Study of an Amorphous Silicon Dual-Gate Photo Thin-Film Transistor for Low-Dose X-Ray Imaging. <i>Journal of Display Technology</i> , 2015 , 11, 646-651		8
146	Origin of the ring-shaped emission pattern observed from the field emission of ZnO nanowire: role of adsorbates and electron initial velocity. <i>Materials Research Express</i> , 2014 , 1, 045050	1.7	8
145	Effects of Pulsewidth and Area of Carbon Nanotube Films on Their Pulsed Field Emission Characteristics. <i>IEEE Transactions on Electron Devices</i> , 2013 , 60, 2677-2681	2.9	8
144	Fabrication and field emission performance of arrays of vacuum microdiodes containing CuO nanowire emitters grown directly on glass without a catalyst. <i>Science Bulletin</i> , 2011 , 56, 906-911		8
143	Arrays of vacuum microdiodes using uniform diamondlike-carbon tip apexes. <i>Applied Physics Letters</i> , 2006 , 89, 233518	3.4	8
142	The intrinsic relation between field electron emission and structure characteristics of amorphous diamond film. <i>Journal Physics D: Applied Physics</i> , 2000 , 33, 2568-2572	3	8
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