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Title	1–20	Cited by	Year
ZnO nanowire field-effect transistor and oxygen sensing property			
Z Fan, D Wang, PC Chang, WY Tseng, JG Lu Applied Physics Letters 85 (24), 5923-5925		850	2004
Three-dimensional nanopillar-array photovoltaics on low-cost and flexible substrates			
Z Fan, H Razavi, J Do, A Moriwaki, O Ergen, YL Chueh, PW Leu, JC Ho, ... Nature materials 8 (8), 648-653		813	2009
Zinc oxide nanostructures: synthesis and properties			
Z Fan, JG Lu Journal of nanoscience and nanotechnology 5 (10), 1561-1573		640	2005
Quasi-one-dimensional metal oxide materials—Synthesis, properties and applications			
JG Lu, P Chang, Z Fan Materials Science and Engineering: R: Reports 52 (1), 49-91		555	2006
Gate-refreshable nanowire chemical sensors			
Z Fan, JG Lu Applied Physics Letters 86 (12), 123510		480	2005
Wafer-Scale Assembly of Semiconductor Nanowire Arrays by Contact Printing			
Z Fan, JC Ho, ZA Jacobson, R Yerushalmi, RL Alley, H Razavi, A Javey arXiv preprint arXiv:0801.0105		464	2007
Wafer-Scale Assembly of Semiconductor Nanowire Arrays by Contact Printing			
Z Fan, JC Ho, ZA Jacobson, R Yerushalmi, RL Alley, H Razavi, A Javey arXiv preprint arXiv:0801.0105		461	2007
Silver nanodisks: synthesis, characterization, and self-assembly			
S Chen, Z Fan, DL Carroll The Journal of Physical Chemistry B 106 (42), 10777-10781		405	2002
Recent advances in synthesis, physical properties and applications of conducting polymer nanotubes and nanofibers			
YZ Long, MM Li, C Gu, M Wan, JL Duvail, Z Liu, Z Fan Progress in Polymer Science 36 (10), 1415-1442		400	2011

Title 1–20	Cited by	Year
Photoluminescence and polarized photodetection of single ZnO nanowires Z Fan, P Chang, JG Lu, EC Walter, RM Penner, C Lin, HP Lee Applied Physics Letters 85 (25), 6128-6130	319	2004
ZnO nanowires synthesized by vapor trapping CVD method PC Chang, Z Fan, D Wang, WY Tseng, WA Chiou, J Hong, JG Lu Chemistry of materials 16 (24), 5133-5137	299	2004
Diameter-dependent electron mobility of InAs nanowires A Ford, J Ho, YL Chueh, YC Tseng, Z Fan, J Guo, J Bokor, A Javey arXiv preprint arXiv:0812.0831	295	2008
High-performance ZnO nanowire field effect transistors PC Chang, Z Fan, CJ Chien, D Stichtenoth, C Ronning, JG Lu Applied physics letters 89 (13), 133113	272	2006
Toward the development of printable nanowire electronics and sensors Z Fan, JC Ho, T Takahashi, R Yerushalmi, K Takei, AC Ford, YL Chueh, ... Advanced Materials 21 (37), 3730-3743	266	2009
Controlled nanoscale doping of semiconductors via molecular monolayers JC Ho, R Yerushalmi, ZA Jacobson, Z Fan, RL Alley, A Javey Nature materials 7 (1), 62-67	221	2008
Ordered arrays of dual-diameter nanopillars for maximized optical absorption Z Fan, R Kapadia, PW Leu, X Zhang, YL Chueh, K Takei, K Yu, ... Nano letters 10 (10), 3823-3827	220	2010
Large-scale, heterogeneous integration of nanowire arrays for image sensor circuitry Z Fan, JC Ho, ZA Jacobson, H Razavi, A Javey Proceedings of the National Academy of Sciences 105 (32), 11066-11070	191	2008
Challenges and prospects of nanopillar-based solar cells Z Fan, DJ Ruebusch, AA Rathore, R Kapadia, O Ergen, PW Leu, A Javey Nano Research 2 (11), 829-843	180	2009
Recent advances in large-scale assembly of semiconducting inorganic nanowires and nanofibers for electronics, sensors and photovoltaics YZ Long, M Yu, B Sun, CZ Gu, Z Fan Chemical Society Reviews 41 (12), 4560-4580	157	2012
Electrical properties of ZnO nanowire field effect transistors characterized with scanning probes Z Fan, JG Lu Applied Physics Letters 86 (3), 032111	152	2005

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