

# Gehan A J Amaratunga

## List of Publications by Year in descending order

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175  
papers

11,239  
citations

47006

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30087

103  
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175  
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175  
docs citations

175  
times ranked

13956  
citing authors

#	ARTICLE	IF	CITATIONS
1	A Fast and Robust State Estimator Based on Exponential Function for Power Systems. IEEE Sensors Journal, 2022, 22, 5755-5767.	4.7	8
2	Smart textile lighting/display system with multifunctional fibre devices for large scale smart home and IoT applications. Nature Communications, 2022, 13, 814.	12.8	80
3	Color controllable smart white lighting based on various device architectures of electrically driven quantum-dot light-emitting diodes. Journal of Materials Chemistry C, 2022, 10, 10728-10741.	5.5	2
4	A Robust Dynamic State Estimation Method for Power Systems Using Exponential Absolute Value-Based Estimator. IEEE Transactions on Instrumentation and Measurement, 2022, 71, 1-10.	4.7	2
5	A Distributed Maximum-Likelihood-Based State Estimation Approach for Power Systems. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-10.	4.7	12
6	Indoor photovoltaics, <i>The Next Big Trend</i> in solution-processed solar cells. Informa Materials, 2021, 3, 445-459.	17.3	75
7	Updating Levothyroxine Synthesis for the Modern Age. Current Organic Synthesis, 2021, 18, 371-376.	1.3	0
8	Interval State Estimation in Active Distribution Systems Considering Multiple Uncertainties. Sensors, 2021, 21, 4644.	3.8	1
9	Modelling charge transport and electro-optical characteristics of quantum dot light-emitting diodes. Npj Computational Materials, 2021, 7, .	8.7	19
10	Multi-objective optimal power flow solutions using a constraint handling technique of evolutionary algorithms. Soft Computing, 2020, 24, 2999-3023.	3.6	69
11	Graphene Oxide-Based Nanocomposite for Sustained Release of Cephalexin. Journal of Pharmaceutical Sciences, 2020, 109, 1130-1135.	3.3	19
12	Asymmetric Carbon Nanohorn Enabled Soft Capacitors with High Power Density and Ultra-Low Cutoff Frequency. Advanced Materials Technologies, 2020, 5, 2000372.	5.8	5
13	Waterproof Flexible InP@ZnSeS Quantum Dot Light-Emitting Diode. Advanced Optical Materials, 2020, 8, 1901362.	7.3	23
14	Optimum Placement of Phasor Measurement Units in Power Systems. IEEE Transactions on Instrumentation and Measurement, 2019, 68, 421-429.	4.7	38
15	Synthesis of calcium carbonate microcapsules as self-healing containers. RSC Advances, 2019, 9, 23666-23677.	3.6	11
16	A Hybrid Firefly-Swarm Optimized Fractional Order Interval Type-2 Fuzzy PID-PSS for Transient Stability Improvement. IEEE Transactions on Industry Applications, 2019, 55, 6486-6498.	4.9	60
17	Inorganic Quantum Dot Materials and their Applications in Organic-Hybrid Solar Cells. Israel Journal of Chemistry, 2019, 59, 720-728.	2.3	4
18	Full Coverage of Optimal Phasor Measurement Unit Placement Solutions in Distribution Systems Using Integer Linear Programming. Energies, 2019, 12, 1552.	3.1	24

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19	Comparative analysis of sugar and mineral content of Sargassum spp. collected from different coasts of Sri Lanka. <i>Journal of Applied Phycology</i> , 2019, 31, 2643-2651.	2.8	9
20	Fusion of multiple indicators with ensemble incremental learning techniques for stock price forecasting. <i>Journal of Banking and Financial Technology</i> , 2019, 3, 33-42.	3.8	18
21	A Fully Integrated Split-Electrode SSHC Rectifier for Piezoelectric Energy Harvesting. <i>IEEE Journal of Solid-State Circuits</i> , 2019, 54, 1733-1743.	5.4	55
22	Real-time Grid Impedance Measurement of Three-Phase Micro-grid System in d-q Frame using Quadratic Residue Ternary Sequence (QRTS). , 2019, , .		1
23	Crystalline Silicon Heterojunction Solar Cells With Metal Oxide Window Layers. , 2019, , .		5
24	Small Signal Stability Analysis of Microgrid System Based on Real-time Grid Impedance Measurement using Quadratic Residue Binary Sequence (QRBS). , 2019, , .		4
25	Flexible, Dopant Free a-Si:H Solar Cell. , 2019, , .		3
26	An Empirical Study on the Impact of Collaborative R&D Networks on Enterprise Innovation Performance Based on the Mediating Effect of Technology Standard Setting. <i>Sustainability</i> , 2019, 11, 7249.	3.2	8
27	A Cold-Startup SSHI Rectifier for Piezoelectric Energy Harvesters With Increased Open-Circuit Voltage. <i>IEEE Transactions on Power Electronics</i> , 2019, 34, 263-274.	7.9	39
28	A Passive Design Scheme to Increase the Rectified Power of Piezoelectric Energy Harvesters. <i>IEEE Transactions on Industrial Electronics</i> , 2018, 65, 7095-7105.	7.9	34
29	Improvement of power quality and reliability in the distribution system of petrochemical plants using active power filters. , 2018, , .		8
30	Photocatalytic activity of electrospun MgO nanofibres: Synthesis, characterization and applications. <i>Materials Research Bulletin</i> , 2018, 99, 204-210.	5.2	49
31	Optimal Power Flow Solutions Using Algorithm Success History Based Adaptive Differential Evolution with Linear Population Reduction. , 2018, , .		8
32	Voltage Stability Assessment by Holomorphically Estimating the Bifurcation Point of Electric Grids. , 2018, , .		0
33	The Noether current in Maxwell's equations and radiation under symmetry breaking. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2018, 376, 20170452.	3.4	1
34	Drug-Loaded Halloysite Nanotube-Reinforced Electrospun Alginate-Based Nanofibrous Scaffolds with Sustained Antimicrobial Protection. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 33913-33922.	8.0	72
35	Atomic scale study for the structural transformation of single layered MoS <sub>2</sub> . <i>CrystEngComm</i> , 2018, 20, 6482-6489.	2.6	9
36	GIS Integrated Automation of a Near Real-Time Power-Flow Service for Electrical Grids. <i>IEEE Transactions on Industry Applications</i> , 2018, 54, 5661-5670.	4.9	8

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37	Optical bandgap modelling from the structural arrangement of carbon nanotubes. <i>Nanoscale</i> , 2018, 10, 10683-10690.	5.6	1
38	Reduced Graphene Oxide as a Monolithic Multifunctional Conductive Binder for Activated Carbon Supercapacitors. <i>ACS Omega</i> , 2018, 3, 9246-9255.	3.5	21
39	Urea-Hydroxyapatite Nanohybrids for Slow Release of Nitrogen. <i>ACS Nano</i> , 2017, 11, 1214-1221.	14.6	395
40	Dielectric behaviour of montmorillonite/cyanoethylated cellulose nanocomposites. <i>Carbohydrate Polymers</i> , 2017, 172, 315-321.	10.2	19
41	Ultra-thin LiF Layer As The Electron Collector For a-Si:H Based Photovoltaic Cell. <i>MRS Advances</i> , 2017, 2, 863-867.	0.9	3
42	Cylindrical Ultra-Thin a-Si:H Photovoltaic Cell With No Doped Layers. <i>MRS Advances</i> , 2017, 2, 825-833.	0.9	5
43	Optimal placement of wind turbines in a windfarm using L-SHADE algorithm. , 2017, , .		16
44	HIT Solar Cell With V20x Window Layer. <i>MRS Advances</i> , 2017, 2, 3147-3156.	0.9	7
45	Minimizing THD of multilevel inverters with optimal values of DC voltages and switching angles using LSHADE-EpSin algorithm. , 2017, , .		13
46	Short-term wind power ramp forecasting with empirical mode decomposition based ensemble learning techniques. , 2017, , .		7
47	Multi-functional DSTATCOM to improve power quality and energy efficiency in petrochemical plant. , 2017, , .		0
48	Improved Delivery of Caffeic Acid through Liposomal Encapsulation. <i>Journal of Nanomaterials</i> , 2016, 2016, 1-7.	2.7	27
49	Chitosan-Alginate Nanoparticle System Efficiently Delivers Doxorubicin to MCF-7 Cells. <i>Journal of Nanomaterials</i> , 2016, 2016, 1-12.	2.7	47
50	Nanocomposites of TiO <sub>2</sub> /cyanoethylated cellulose with ultra high dielectric constants. <i>Nanotechnology</i> , 2016, 27, 195402.	2.6	20
51	Electricity load demand time series forecasting with Empirical Mode Decomposition based Random Vector Functional Link network. , 2016, , .		14
52	Hybrid approach based on global search algorithm for optimal placement of 1/4PMU in distribution networks. , 2016, , .		13
53	Customized optimal 1/4PMU Placement method for distribution networks. , 2016, , .		4
54	GIS integrated automation of a near real-time power-flow service for electrical grids. , 2016, , .		3

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55	MoOx Hole Collection Layer for a-Si:H Based Photovoltaic Cells. MRS Advances, 2016, 1, 977-983.	0.9	6
56	Inkjet-printed graphene electrodes for dye-sensitized solar cells. Carbon, 2016, 105, 33-41.	10.3	94
57	Alginate nanoparticles protect ferrous from oxidation: Potential iron delivery system. International Journal of Pharmaceutics, 2016, 513, 404-409.	5.2	62
58	Understanding Capacitance Variation in Sub-nanometer Pores by <i>in Situ</i> Tuning of Interlayer Constrictions. ACS Nano, 2016, 10, 747-754.	14.6	64
59	Sinha and Amaratunga Reply:. Physical Review Letters, 2015, 115, 119702.	7.8	2
60	Generation profile shape dependent performance of mobility imbalanced organic solar cells. , 2015, , .		0
61	State estimation for distribution systems using micro-synchrophasors. , 2015, , .		17
62	Graphene-Based Ultrathin Flat Lenses. ACS Photonics, 2015, 2, 200-207.	6.6	70
63	Graphene-Based Integrated Photovoltaic Energy Harvesting/Storage Device. Small, 2015, 11, 2929-2937.	10.0	90
64	Visible diffraction from quasi-crystalline arrays of carbon nanotubes. Nanoscale, 2015, 7, 13452-13457.	5.6	3
65	Incorporating semiconducting single-walled carbon nanotubes as efficient charge extractors in organic solar cells. Applied Physics Letters, 2015, 106, 123305.	3.3	19
66	Electromagnetic Radiation under Explicit Symmetry Breaking. Physical Review Letters, 2015, 114, 147701.	7.8	40
67	A curcumin activated carboxymethyl cellulose-montmorillonite clay nanocomposite having enhanced curcumin release in aqueous media. Carbohydrate Polymers, 2015, 134, 695-699.	10.2	62
68	Tunable scattering from liquid crystal devices using carbon nanotubes network electrodes. Nanoscale, 2015, 7, 330-336.	5.6	18
69	A method for top down preparation of chitosan nanoparticles and nanofibers. Carbohydrate Polymers, 2015, 117, 731-738.	10.2	74
70	Ensemble deep learning for regression and time series forecasting. , 2014, , .		182
71	Periodic Nanopillar N-I-P Amorphous Si Photovoltaic Cells Using Carbon Nanotube Scaffolds. IEEE Nanotechnology Magazine, 2014, 13, 997-1004.	2.0	3
72	Improving Performance and Cyclability of Zinc-Silver Oxide Batteries by Using Graphene as a Two Dimensional Conductive Additive. ACS Applied Materials & Interfaces, 2014, 6, 20752-20757.	8.0	63

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73	Limits of Incremental Conductance for determining the Maximum Power Point under rapidly changing irradiance and an alternative technique based on fast scanning. , 2014, , .		4
74	Nanowire-based multifunctional antireflection coatings for solar cells. Nanoscale, 2014, 6, 14555-14562.	5.6	42
75	Devitrite-Based Optical Diffusers. ACS Nano, 2014, 8, 2929-2935.	14.6	39
76	Modeling and simulation of non-ideal characteristics of vertical Mo/diamond Schottky barrier diode based on MIS model. Transactions of the Materials Research Society of Japan, 2014, 39, 297-303.	0.2	8
77	Optical holograms based on carbon nanotubes. , 2013, , .		0
78	Vertical CNT-Si Photodiode Array. Nano Letters, 2013, 13, 4131-4136.	9.1	11
79	Visible Diffraction from Graphene and Its Application in Holograms. Advanced Optical Materials, 2013, 1, 869-874.	7.3	17
80	Electrically Switchable Diffraction Grating Using a Hybrid Liquid Crystal and Carbon Nanotube-Based Nanophotonic Device. Advanced Optical Materials, 2013, 1, 368-373.	7.3	22
81	Computer generated holograms for carbon nanotube arrays. Nanoscale, 2013, 5, 4217.	5.6	15
82	Self-Assembled Multilayer Graphene Oxide Membrane and Carbon Nanotubes Synthesized Using a Rare Form of Natural Graphite. Journal of Physical Chemistry C, 2013, 117, 9507-9519.	3.1	38
83	A nano-patterned photonic crystal laser with a dye-doped liquid crystal. Applied Physics Letters, 2013, 103, 051101.	3.3	13
84	Liquid Crystals: Electrically Switchable Diffraction Grating Using a Hybrid Liquid Crystal and Carbon Nanotube-Based Nanophotonic Device (Advanced Optical Materials 5/2013). Advanced Optical Materials, 2013, 1, 367-367.	7.3	0
85	Continuous diffraction patterns from circular arrays of carbon nanotubes. Applied Physics Letters, 2012, 101, 251102.	3.3	21
86	Multiple color reflection in a single unit cell using double-layer electrochromic reaction. Optics Letters, 2012, 37, 235.	3.3	7
87	Cylindrical Fresnel lenses based on carbon nanotube forests. Applied Physics Letters, 2012, 101, .	3.3	26
88	NEMS based logic and memory circuits. , 2012, , .		0
89	Photovoltaic measurements in carbon nanotube - amorphous silicon core/shell nanowire. , 2012, , .		2
90	Using spacer layers to control metal and semiconductor absorption in ultrathin solar cells with plasmonic substrates. Physical Review B, 2012, 85, .	3.2	28

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91	Carbon Nanotube Based High Resolution Holograms. <i>Advanced Materials</i> , 2012, 24, OP331-6.	21.0	65
92	Hot Electron Field Emission via Individually Transistor-Ballasted Carbon Nanotube Arrays. <i>ACS Nano</i> , 2012, 6, 3236-3242.	14.6	47
93	Carbon Nanotubes: Carbon Nanotube Based High Resolution Holograms ( <i>Adv. Mater.</i> 44/2012). <i>Advanced Materials</i> , 2012, 24, OP356.	21.0	1
94	Nanowires for energy generation. <i>Nanotechnology</i> , 2012, 23, 194002.	2.6	41
95	Metamaterial filter for the near-visible spectrum. <i>Applied Physics Letters</i> , 2012, 101, 083106.	3.3	8
96	FEM MODELING OF PERIODIC ARRAYS OF MULTIWALLED CARBON NANOTUBES. <i>Progress in Electromagnetics Research M</i> , 2012, 22, 1-12.	0.9	6
97	FABRICATION OF CARBON NANOTUBES ON INTER-DIGITATED METAL ELECTRODE FOR SWITCHABLE NANOPHOTONIC DEVICES. <i>Progress in Electromagnetics Research</i> , 2012, 127, 65-77.	4.4	3
98	Can Nanotubes Make a Lens Array?. <i>Advanced Materials</i> , 2012, 24, OP170-3.	21.0	28
99	Ferroelectric carbon nanotube memory devices. <i>Nanotechnology</i> , 2012, 23, 165702.	2.6	19
100	Optical waveguides and switches based on periodic arrays of carbon nanotubes. , 2011, , .		0
101	Enhanced supercapacitors from hierarchical carbon nanotube and nanohorn architectures. <i>Journal of Materials Chemistry</i> , 2011, 21, 17810.	6.7	57
102	Enhanced reflection from arrays of silicon based inverted nanocones. <i>Applied Physics Letters</i> , 2011, 99, 133105.	3.3	23
103	Electromagnetic Modeling of Multiwalled Carbon Nanotubes as Nanorod Electrodes for Optimizing Device Geometry in a Nanophotonic Device. <i>IEEE Nanotechnology Magazine</i> , 2011, 10, 547-554.	2.0	4
104	A transparent ultraviolet triggered amorphous selenium p-n junction. <i>Applied Physics Letters</i> , 2011, 98, .	3.3	32
105	Plasmonic Band Gaps and Waveguide Effects in Carbon Nanotube Arrays Based Metamaterials. <i>ACS Nano</i> , 2011, 5, 9138-9143.	14.6	36
106	Flexible solid state lithium batteries based on graphene inks. <i>Journal of Materials Chemistry</i> , 2011, 21, 9762.	6.7	52
107	PHOTONIC CRYSTALS & METAMATERIAL FILTERS BASED ON 2D ARRAYS OF SILICON NANOPILLARS. <i>Progress in Electromagnetics Research</i> , 2011, 113, 179-194.	4.4	35
108	Spinning off a Semiconductor company from University premises &#x2014; The story of Camsemi. , 2011, , .		0

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109	Full-colour quantum dot displays fabricated by transfer printing. <i>Nature Photonics</i> , 2011, 5, 176-182.	31.4	997
110	Single-Phase Inverter-Control Techniques for Interfacing Renewable Energy Sources With Microgridâ€”Part II: Series-Connected Inverter Topology to Mitigate Voltage-Related Problems Along With Active Power Flow Control. <i>IEEE Transactions on Power Electronics</i> , 2011, 26, 732-746.	7.9	138
111	Switching characteristics of diamond-based m-i-p+ diodes in power electronic applications. , 2011, , .		3
112	Thin-film transistors based on poly(3,3â€-dialkyl-quarterthiophene) and zinc oxide nanowires with improved ambient stability. <i>Applied Physics Letters</i> , 2011, 98, 102106.	3.3	3
113	Quantifying the limits of HANPP and carbon emissions which prolong total species well-being. <i>Environment, Development and Sustainability</i> , 2010, 12, 213-231.	5.0	12
114	Metamaterial high pass filter based on periodic wire arrays of multiwalled carbon nanotubes. <i>Applied Physics Letters</i> , 2010, 97, 163102.	3.3	53
115	Nanostructured carbon electrodes for energy storage. , 2010, , .		0
116	Nanostructured carbon electrodes for energy storage. , 2010, , .		0
117	A vertically aligned carbon nanotube/fiber based electrode for economic hydrogen production by water electrolysis. , 2010, , .		0
118	A vertical aligned carbon nanotube based platform for hydrogen production by water electrolysis. , 2010, , .		0
119	High emission current density, vertically aligned carbon nanotube mesh, field emitter array. <i>Applied Physics Letters</i> , 2010, 97, .	3.3	62
120	Template-free electrochemical nanofabrication of polyaniline nanobrush and hybrid polyaniline with carbon nanohorns for supercapacitors. <i>Nanotechnology</i> , 2010, 21, 435702.	2.6	14
121	Nanomaterial-Enhanced All-Solid Flexible Zincâ€Carbon Batteries. <i>ACS Nano</i> , 2010, 4, 2730-2734.	14.6	148
122	Nanocarbon based supercapacitors with reduced internal resistance. , 2010, , .		0
123	Releasing new power semiconductor technology: The start-up company route. <i>Power Semiconductor Devices &amp; IC's</i> , 2009 ISPSD 2009 21st International Symposium on, 2009, , .	0.0	1
124	A Characterization Study of a Nanowireâ€Network Transistor with Various Channel Layers. <i>Advanced Materials</i> , 2009, 21, 4139-4142.	21.0	14
125	Arrays of Parallel Connected Coaxial Multiwallâ€Carbonâ€Nanotubeâ€Amorphousâ€Silicon Solar Cells. <i>Advanced Materials</i> , 2009, 21, 3919-3923.	21.0	95
126	Zinc oxide nanowire networks for macroelectronic devices. <i>Applied Physics Letters</i> , 2009, 94, .	3.3	49



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127	Carbon nanotube arrays for optical design of amorphous silicon solar cells. International Journal of Material Forming, 2008, 1, 113.	2.0	6
128	Nanoscale memory cell based on a nanoelectromechanical switched capacitor. Nature Nanotechnology, 2008, 3, 26-30.	31.5	154
129	ZnO Nanowire and $\text{WS}_2$ Nanotube Electronics. IEEE Transactions on Electron Devices, 2008, 55, 2988-3000.	3.0	35
130	Zinc Oxide Nanostructures and High Electron Mobility Nanocomposite Thin Film Transistors. IEEE Transactions on Electron Devices, 2008, 55, 3001-3011.	3.0	46
131	Special Issue on Nanowire Transistors: Modeling, Device Design, and Technology. IEEE Transactions on Electron Devices, 2008, 55, 2813-2819.	3.0	6
132	Field emission from graphene based composite thin films. Applied Physics Letters, 2008, 93, .	3.3	258
133	Zinc Oxide Nanowire Networks for Macroelectronic Devices. , 2008, , .		1
134	Series connected photovoltaic power inverter. , 2008, , .		3
135	Long-Lifetime Power Inverter for Photovoltaic AC Modules. IEEE Transactions on Industrial Electronics, 2008, 55, 2593-2601.	7.9	214
136	A solid-state dye-sensitized solar cell based on a novel ionic liquid gel and ZnO nanoparticles on a flexible polymer substrate. Nanotechnology, 2008, 19, 424006.	2.6	68
137	Carbon nanotubes on carbon fabrics for flexible field emitter arrays. Applied Physics Letters, 2008, 93, 053107.	3.3	14
138	Guest Editorial Special Issue on Nanowire Transistors: Modeling, Device Design, and Technology. IEEE Nanotechnology Magazine, 2008, 7, 643-650.	2.0	4
139	A Nanogripper Employing Aligned Multiwall Carbon Nanotubes. IEEE Nanotechnology Magazine, 2008, 7, 389-393.	2.0	16
140	Flexible organic photovoltaics from zinc oxide nanowires grown on transparent and conducting single walled carbon nanotube thin films. Journal of Materials Chemistry, 2008, 18, 5909.	6.7	94
141	Transformation of Unipolar Single-Walled Carbon Nanotube Field Effect Transistors to Ambipolar Induced by Polystyrene Nanosphere Assembly. ACS Nano, 2008, 2, 2526-2530.	14.6	13
142	Rapid synthesis of aligned zinc oxide nanowires. Nanotechnology, 2008, 19, 255608.	2.6	127
143	Heterojunction photovoltaic devices utilizing single wall carbon nanotube thin films and silicon substrates. Conference Record of the IEEE Photovoltaic Specialists Conference, 2008, , .	0.0	1
144	Photoelectrochemical cell using dye sensitized zinc oxide nanowires grown on carbon fibers. Applied Physics Letters, 2008, 93, .	3.3	76

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145	Diamond Schottky diodes for power conversion. , 2007, , .		0
146	High performance cooling system for automotive inverters. , 2007, , .		23
147	Analytic Solution to the Photovoltaic Maximum Power Point Problem. IEEE Transactions on Circuits and Systems Part 1: Regular Papers, 2007, 54, 2054-2060.	0.1	134
148	Amorphous selenium based photodetector driven by field emission current from N-doped diamond cold cathode. Journal of Vacuum Science & Technology B, 2006, 24, 1035.	1.3	7
149	Carbon nanotubes as cold cathodes. Nature, 2005, 437, 968-968.	27.8	407
150	Anneal-Induced Degradation of Amorphous Selenium Characterized by Photoconductivity Measurements. Japanese Journal of Applied Physics, 2005, 44, L334-L337.	1.5	13
151	Nanoelectromechanical switches with vertically aligned carbon nanotubes. Applied Physics Letters, 2005, 87, 163114.	3.3	153
152	Achieving High-Current Carbon Nanotube Emitters. Nano Letters, 2005, 5, 2135-2138.	9.1	199
153	The Significance of Plasma Heating in Carbon Nanotube and Nanofiber Growth. Nano Letters, 2004, 4, 921-926.	9.1	135
154	Helium Detection via Field Ionization from Carbon Nanotubes. Nano Letters, 2003, 3, 1455-1458.	9.1	62
155	Superhydrophobic Carbon Nanotube Forests. Nano Letters, 2003, 3, 1701-1705.	9.1	1,527
156	Temperature selective growth of carbon nanotubes by chemical vapor deposition. Journal of Applied Physics, 2002, 92, 3299-3303.	2.5	178
157	APPLIED PHYSICS: Enhanced: A Dawn for Carbon Electronics?. Science, 2002, 297, 1657-1658.	12.6	60
158	QUANTUM COMPUTATION WITH BALLISTIC ELECTRONS. International Journal of Modern Physics B, 2001, 15, 125-133.	2.0	44
159	Metal-insulator-vacuum type electron emission from N-containing chemical vapor deposited diamond. Applied Physics Letters, 2001, 79, 275-277.	3.3	45
160	Thin films of fullerene-like MoS <sub>2</sub> nanoparticles with ultra-low friction and wear. Nature, 2000, 407, 164-167.	27.8	798
161	Self-texturing of nitrogenated amorphous carbon thin films for electron field emission. Applied Physics Letters, 1997, 71, 1477-1479.	3.3	81
162	The trench Insulated Gate Bipolar Transistor" a high power switching device. Microelectronics Journal, 1997, 28, 1-12.	2.0	9

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163	Low-threshold cold cathodes made of nitrogen-doped chemical-vapour-deposited diamond. Nature, 1996, 381, 140-141.	27.8	539
164	Nitrogen containing hydrogenated amorphous carbon for thin-film field emission cathodes. Applied Physics Letters, 1996, 68, 2529-2531.	3.3	478
165	Forward blocking capability of double gate IGBTs at high temperatures. Solid-State Electronics, 1995, 38, 981-982.	1.4	1
166	Silicon surface tunnel transistor. Applied Physics Letters, 1995, 67, 494-496.	3.3	321
167	Quantum Size Effects in Amorphous Diamond-like Carbon Superlattices. Japanese Journal of Applied Physics, 1994, 33, 6458-6465.	1.5	33
168	Amorphous diamond-Si semiconductor heterojunctions. Applied Physics Letters, 1991, 59, 69-71.	3.3	87
169	Influence of dc bias voltage on the refractive index and stress of carbon-diamond films deposited from a CH <sub>4</sub> /Ar rf plasma. Journal of Applied Physics, 1991, 70, 5374-5379.	2.5	47
170	A current transport model which includes effects of lattice heating. Solid-State Electronics, 1990, 33, 1343-1346.	1.4	2
171	Electron beam defined delamination and ablation of carbon-diamond thin films on silicon. Journal of Applied Physics, 1990, 68, 5140-5145.	2.5	17
172	Crystalline diamond growth in thin films deposited from a CH <sub>4</sub> /Ar rf plasma. Applied Physics Letters, 1989, 55, 634-635.	3.3	83
173	Analytical Modeling of Nonlinear Diffusion of Arsenic in Silicon. Journal of the Electrochemical Society, 1987, 134, 2316-2319.	2.9	2
174	A Study of Diffusion, Clustering and Defects in As <sup>+</sup> And Bf <sub>2</sub> <sup>+</sup> Implanted Silicon During Scanning Electron Beam Annealing.. Materials Research Society Symposia Proceedings, 1987, 92, 27.	0.1	1
175	Energy control for long lifetime photovoltaic ac module inverter. , 0, , .		11