

Beng Kang Tay

List of Publications by Year in descending order

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536
papers

22,670
citations

13068

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11899

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543
all docs

543
docs citations

543
times ranked

26300
citing authors

#	ARTICLE	IF	CITATIONS
1	Graphitisation of Waste Carbon Powder with Femtosecond Laser Annealing. <i>Micromachines</i> , 2022, 13, 120.	1.4	0
2	Low-Power Magnetron Sputtering Deposition of Antimonene Nanofilms for Water Splitting Reaction. <i>Micromachines</i> , 2022, 13, 489.	1.4	1
3	Surface disinfection with silver loaded pencil graphite prepared with green UV photoreduction technique. <i>Nanotechnology</i> , 2022, 33, 235602.	1.3	0
4	Performance Optimization of Atomic Layer Deposited HfO _x Memristor by Annealing With Back-End-of-Line Compatibility. <i>IEEE Electron Device Letters</i> , 2022, 43, 1141-1144.	2.2	9
5	Global-Gate Controlled One-Transistor One-Digital-Memristor Structure for Low-Bit Neural Network. <i>IEEE Electron Device Letters</i> , 2021, 42, 106-109.	2.2	9
6	Development of a CMOS-Compatible Carbon Nanotube Array Transfer Method. <i>Micromachines</i> , 2021, 12, 95.	1.4	6
7	Hardware-Friendly Stochastic and Adaptive Learning in Memristor Convolutional Neural Networks. <i>Advanced Intelligent Systems</i> , 2021, 3, 2100041.	3.3	16
8	Enhanced Tunneling Magnetoresistance Effect via Ferroelectric Control of Interface Electronic/Magnetic Reconstructions. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 56638-56644.	4.0	1
9	Analysis, Modelling and Applications of Ferroelectric Negative Capacitance-incorporated 2D Semiconductor Field Effect Transistors. , 2021, , .		0
10	Assembly Process and Electrical Properties of Top-Transferred Graphene on Carbon Nanotubes for Carbon-Based 3-D Interconnects. <i>IEEE Transactions on Components, Packaging and Manufacturing Technology</i> , 2020, 10, 516-524.	1.4	8
11	Engineering grain boundaries at the 2D limit for the hydrogen evolution reaction. <i>Nature Communications</i> , 2020, 11, 57.	5.8	153
12	Imaging the defect distribution in 2D hexagonal boron nitride by tracing photogenerated electron dynamics. <i>Journal Physics D: Applied Physics</i> , 2020, 53, 405106.	1.3	5
13	Effects of precursors' purity on graphene quality: Synthesis and thermoelectric effect. <i>AIP Advances</i> , 2020, 10, .	0.6	2
14	Ti ₃ C ₂ (MXene) based field electron emitters. <i>Nanotechnology</i> , 2020, 31, 285701.	1.3	14
15	Manipulating Coherent Light-Matter Interaction: Continuous Transition between Strong Coupling and Weak Coupling in MoS ₂ Monolayer Coupled with Plasmonic Nanocavities. <i>Advanced Optical Materials</i> , 2019, 7, 1900857.	3.6	48
16	Design and Implementation of Ternary Logic Integrated Circuits by Using Novel Two-Dimensional Materials. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 4212.	1.3	33
17	Graphene-Metal Nanoparticles for Enhancing Thermoelectric Power Factor. <i>IEEE Nanotechnology Magazine</i> , 2019, 18, 1114-1118.	1.1	5
18	First-Principles Study of Structural and Electronic Properties of MoS _{1.5} Se _{0.5} Alloy. <i>International Journal of Nanoscience</i> , 2019, 18, 1940006.	0.4	0

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19	Coating-boosted interfacial thermal transport for carbon nanotube array nano-thermal interface materials. Carbon, 2019, 145, 725-733.	5.4	50
20	Thermal conductivity enhancement of carbon@ carbon nanotube arrays and bonded carbon nanotube network. Materials Research Express, 2019, 6, 085616.	0.8	6
21	Electrical properties of FCVA deposited nano-crystalline graphitic carbon thin films with in situ treatment techniques. EPJ Applied Physics, 2019, 85, 20301.	0.3	0
22	Deposited poly-Si as on-demand linewidth compensator for on-chip Fabry-Pérot interferometer and vertical linear variable optical filter bandpass and passband manipulation. Journal of Micromechanics and Microengineering, 2019, 29, 047001.	1.5	5
23	Carbon Nanotube for Interconnects and Nano-Packaging Application. , 2019, , .		2
24	Millimeter-wave CNT Based Resonant Cavity. , 2019, , .		0
25	Ultrasensitive 2D Bi ₂ O ₂ Se Phototransistors on Silicon Substrates. Advanced Materials, 2019, 31, e1804945.	11.1	183
26	Direct observation of ultrafast plasmonic hot electron transfer in the strong coupling regime. Light: Science and Applications, 2019, 8, 9.	7.7	150
27	Enhanced field emission properties of carbon nanotube films using densification technique. Applied Surface Science, 2019, 477, 211-219.	3.1	17
28	Thermal conductivity characterization of three dimensional carbon nanotube network using freestanding sensor-based 3D technique. Surface and Coatings Technology, 2018, 345, 105-112.	2.2	16
29	Electrical and Thermal Models of CNT TSV and Graphite Interface. IEEE Transactions on Electron Devices, 2018, 65, 1880-1886.	1.6	5
30	Novel three-dimensional carbon nanotube networks as high performance thermal interface materials. Carbon, 2018, 132, 359-369.	5.4	29
31	DFT study of structural and electronic properties of MoS ₂ (1-x)Se _{2x} alloy (x=0.25). Journal of Applied Physics, 2018, 123, 161594.	1.1	11
32	Mesoporous NiCo ₂ O ₄ nano-needles supported by 3D interconnected carbon network on Ni foam for electrochemical energy storage. Applied Surface Science, 2018, 439, 1019-1025.	3.1	8
33	Field emission cathode based on three-dimensional framework carbon and its operation under the driving of a triboelectric nanogenerator. Nano Energy, 2018, 49, 308-315.	8.2	20
34	Localized emission from laser-irradiated defects in 2D hexagonal boron nitride. 2D Materials, 2018, 5, 015010.	2.0	65
35	Enhanced field emission properties of carbon nanotube bundles confined in SiO ₂ pits. Nanotechnology, 2018, 29, 075205.	1.3	14
36	Field emission properties of SiO ₂ -wrapped CNT field emitter. Nanotechnology, 2018, 29, 015202.	1.3	8

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37	Carbon nanotubes based RF packaging solutions. , 2018, , .		0
38	Highly efficient nanofiller based on carboxylated graphene oxide in phase change materials for cold thermal energy storage. Energy Procedia, 2018, 152, 198-203.	1.8	10
39	Two-Step Fabrication of Mid-Infrared Linear Variable Optical Filter Using SU-8 as Mask. , 2018, , .		0
40	Theoretical study of CNT based waveguide. , 2018, , .		2
41	Spectroscopic Nanoimaging of All-Semiconductor Plasmonic Gratings Using Photoinduced Force and Scattering Type Nanoscopy. ACS Photonics, 2018, 5, 4352-4359.	3.2	10
42	Carbon Nanotube Based Faraday's Cage for RF Circuit Packaging. IEEE Nanotechnology Magazine, 2018, 17, 1295-1298.	1.1	3
43	Light emission from localised point defects induced in GaN crystal by a femtosecond-pulsed laser. Optical Materials Express, 2018, 8, 2703.	1.6	17
44	Controlled, Low-temperature Nanogap Propagation in Graphene Using Femtosecond Laser Patterning. Small, 2018, 14, e1801348.	5.2	6
45	Thermal characterization of polycrystalline diamond using infrared thermal imaging measurement. , 2018, , .		0
46	First demonstration of gate voltage-less chemical vapour deposition graphene for non-vacuum thermoelectric study. , 2018, , .		1
47	Low cost rapid fabrication of vertical LVOF microspectrometer on-chip for MIR sensing. , 2018, , .		1
48	Tailoring MoS ₂ Exciton-Plasmon Interaction by Optical Spin-Orbit Coupling. ACS Nano, 2017, 11, 1165-1171.	7.3	114
49	High Mobility 2D Palladium Diselenide Field-Effect Transistors with Tunable Ambipolar Characteristics. Advanced Materials, 2017, 29, 1602969.	11.1	251
50	An Asymmetric Supercapacitor with Both Ultra-High Gravimetric and Volumetric Energy Density Based on 3D Ni(OH) ₂ /MnO ₂ @Carbon Nanotube and Activated Polyaniline-Derived Carbon. ACS Applied Materials & Interfaces, 2017, 9, 668-676.	4.0	78
51	Electronic Properties of Bulk and Monolayer TMDs: Theoretical Study Within DFT Framework (GV) ² Tj ETQq1 1,0,784314,rgBT /Ovel	0.8	27
52	Enhanced Carbon Nanotubes Growth Using Nickel/Ferrocene-Hybridized Catalyst. ACS Omega, 2017, 2, 6063-6071.	1.6	21
53	RF nanopackaging approaches based on Carbon Nanotubes. , 2017, , .		0
54	Temperature-dependent selective growth of carbon nanotubes in Si/SiO ₂ structures for field emitter array applications. Materials Research Bulletin, 2017, 95, 129-137.	2.7	7

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55	Influences of water molecules on the electronic properties of atomically thin molybdenum disulfide. Applied Physics Letters, 2017, 111, .	1.5	7
56	Valley polarization in stacked MoS ₂ induced by circularly polarized light. Nano Research, 2017, 10, 1618-1626.	5.8	23
57	MoS ₂ /Rubrene van der Waals Heterostructure: Toward Ambipolar Field-Effect Transistors and Inverter Circuits. Small, 2017, 13, 1602558.	5.2	40
58	Laser writing of localized color centers in hexagonal boron nitrides monolayers. , 2017, , .		0
59	Influence of optically active defects on thermal conductivity of polycrystalline diamond. EPJ Applied Physics, 2017, 80, 20102.	0.3	1
60	Growth and fabrication of carbon-based three-dimensional heterostructure in through-silicon vias (TSVs) for 3D interconnects. , 2017, , .		2
61	Simulated behavior of planar-helix slow-wave structure traveling-wave tube at various electron beam current. , 2017, , .		0
62	Surface plasmons in suspended graphene: launching with in-plane gold nanoantenna and propagation properties. Optics Express, 2017, 25, 17306.	1.7	6
63	Study of carbon nanotube array antenna for submillimeter-wave wireless interconnect. , 2017, , .		1
64	Field emission properties of Ex-situ and In-situ iron catalyst-grown carbon nanotubes. , 2017, , .		0
65	Monolayer WS ₂ Enhanced High Sensitivity Plasmonic Biosensor based on Phase Modulation. , 2017, , .		2
66	Highly Sensitive Detection of Polarized Light Using Anisotropic 2D ReS ₂ . Advanced Functional Materials, 2016, 26, 1169-1177.	7.8	376
67	MoS ₂ /TiO ₂ Edge-On Heterostructure for Efficient Photocatalytic Hydrogen Evolution. Advanced Energy Materials, 2016, 6, 1600464.	10.2	264
68	Field emission characteristics of short CNT bundles. , 2016, , .		2
69	General approach for band gap calculation of semiconductors and insulators. Physica Status Solidi (A) Applications and Materials Science, 2016, 213, 2834-2837.	0.8	8
70	Ultrafast-Charging Supercapacitors Based on Corn-Like Titanium Nitride Nanostructures. Advanced Science, 2016, 3, 1500299.	5.6	163
71	Carbon-nanotube-based wireless on-chip interconnects. , 2016, , .		1
72	Oxidation-Based Continuous Laser Writing in Vertical Nano-Crystalline Graphite Thin Films. Scientific Reports, 2016, 6, 26224.	1.6	4

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73	Graphitization and amorphization of textured carbon using high-energy nanosecond laser pulses. Carbon, 2016, 105, 227-232.	5.4	6
74	Microwave and Millimeter Wave Properties of Vertically-Aligned Single Wall Carbon Nanotubes Films. Journal of Electronic Materials, 2016, 45, 2433-2441.	1.0	3
75	Photoresponse: Highly Sensitive Detection of Polarized Light Using Anisotropic 2D ReS ₂ (Adv. Funct. Mater. 8(2016)). Advanced Functional Materials, 2016, 26, 1146-1146.	7.8	15
76	Paper-based all-solid-state flexible micro-supercapacitors with ultra-high rate and rapid frequency response capabilities. Journal of Materials Chemistry A, 2016, 4, 3754-3764.	5.2	136
77	Interfaces in Two-Dimensional Heterostructures of Transition Metal Dichalcogenides. Microscopy and Microanalysis, 2015, 21, 105-106.	0.2	0
78	Carbon nanotube cavity for compact Radar components. , 2015, , .		2
79	Inkjet-printing of hybrid Ag/conductive polymer towards stretchable microwave devices. , 2015, , .		1
80	All Metal Nitrides Solid-State Asymmetric Supercapacitors. Advanced Materials, 2015, 27, 4566-4571.	11.1	371
81	Controlled Synthesis of Organic/Inorganic van der Waals Solid for Tunable Light-Matter Interactions. Advanced Materials, 2015, 27, 7800-7808.	11.1	109
82	Van der Waals p-n Junction Based on an Organic-Inorganic Heterostructure. Advanced Functional Materials, 2015, 25, 5865-5871.	7.8	98
83	Improved RF Isolation Using Carbon Nanotube Fence-Wall for 3-D Integrated Circuits and Packaging. IEEE Microwave and Wireless Components Letters, 2015, 25, 355-357.	2.0	9
84	A light-weight electromagnetic shield using high density carbon nanotube fence-wall for RF packaging. , 2015, , .		4
85	Band gap modifications of two-dimensional defected MoS ₂ . International Journal of Nanotechnology, 2015, 12, 654.	0.1	8
86	A graphene-based non-volatile memory. Proceedings of SPIE, 2015, , .	0.8	0
87	Theoretical study of defect impact on two-dimensional MoS ₂ . Journal of Semiconductors, 2015, 36, 122002.	2.0	41
88	Evolution of Raman Scattering and Electronic Structure of Ultrathin Molybdenum Disulfide by Oxygen Chemisorption. Advanced Electronic Materials, 2015, 1, 1400037.	2.6	13
89	High-Performance Microsupercapacitors Based on Two-Dimensional Graphene/Manganese Dioxide/Silver Nanowire Ternary Hybrid Film. ACS Nano, 2015, 9, 1528-1542.	7.3	222
90	Electronic Structure: Evolution of Raman Scattering and Electronic Structure of Ultrathin Molybdenum Disulfide by Oxygen Chemisorption (Adv. Electron. Mater. 1-2(2015)). Advanced Electronic Materials, 2015, 1, n/a-n/a.	2.6	0

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91	Carbon Nanostructures Dedicated to Millimeter-Wave to THz Interconnects. IEEE Transactions on Terahertz Science and Technology, 2015, 5, 383-390.	2.0	19
92	Thermal conductivity of titanium nitride/titanium aluminum nitride multilayer coatings deposited by lateral rotating cathode arc. Thin Solid Films, 2015, 578, 133-138.	0.8	72
93	Designing Carbon Nanotube Interconnects for Radio Frequency Applications. Advances in Atom and Single Molecule Machines, 2015, , 137-154.	0.0	0
94	Stacking-Dependent Interlayer Coupling in Trilayer MoS ₂ with Broken Inversion Symmetry. Nano Letters, 2015, 15, 8155-8161.	4.5	141
95	In situ fabrication of three-dimensional, ultrathin graphite/carbon nanotube/NiO composite as binder-free electrode for high-performance energy storage. Journal of Materials Chemistry A, 2015, 3, 624-633.	5.2	200
96	Carbon nanostructures dedicated to RF interconnect management. , 2014, , .		0
97	Self-organised hybrid nanostructures composed of the array of vertically aligned carbon nanotubes and planar graphene multi-layer. International Journal of Nanotechnology, 2014, 11, 230.	0.1	1
98	A bulk equivalent model of carbon-nanotube arrays : Application to the design of novel antennas. , 2014, , .		2
99	Three-dimensional Ni(OH) ₂ nanoflakes/graphene/nickel foam electrode with high rate capability for supercapacitor applications. International Journal of Hydrogen Energy, 2014, 39, 7876-7884.	3.8	136
100	Fabrication of Double-Walled Titania Nanotubes and Their Photocatalytic Activity. ACS Sustainable Chemistry and Engineering, 2014, 2, 991-995.	3.2	24
101	Chemical Vapor Deposition Growth of Crystalline Monolayer MoSe ₂ . ACS Nano, 2014, 8, 5125-5131.	7.3	694
102	A binder-free CNT networkâ€“MoS ₂ composite as a high performance anode material in lithium ion batteries. Chemical Communications, 2014, 50, 3338-3340.	2.2	111
103	Solid source growth of Si oxide nanowires promoted by carbon nanotubes. Applied Surface Science, 2014, 314, 119-123.	3.1	3
104	Vertical and in-plane heterostructures from WS ₂ /MoS ₂ monolayers. Nature Materials, 2014, 13, 1135-1142.	13.3	1,918
105	A three dimensional vertically aligned multiwall carbon nanotube/NiCo ₂ O ₄ core/shell structure for novel high-performance supercapacitors. Journal of Materials Chemistry A, 2014, 2, 5100-5107.	5.2	142
106	Enhanced thermoelectric properties of n-type Bi ₂ Te _{2.7} Se _{0.3} thin films through the introduction of Pt nanoinclusions by pulsed laser deposition. Nano Energy, 2014, 8, 223-230.	8.2	46
107	Fabrication of large diameter TiO ₂ nanotube for bone morphogenetic protein-2 delivery. International Journal of Nanotechnology, 2014, 11, 1097.	0.1	4
108	A High-Performance Anode Material for Li-ion Batteries Based on a Vertically Aligned CNTs/NiCo ₂ O ₄ Core/Shell Structure. Particle and Particle Systems Characterization, 2014, 31, 1151-1157.	1.2	35

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109	Carbon nanotubes based nanopackaging dedicated to innovative high frequency interconnections. , 2014, , .		0
110	Carbon-nanotube-based electrically-short resonant antennas. International Journal of Microwave and Wireless Technologies, 2014, 6, 57-62.	1.5	2
111	Effects of a grain boundary loop on the thermal conductivity of graphene: A molecular dynamics study. Computational Materials Science, 2013, 79, 132-135.	1.4	26
112	Flip Chip Based on Carbon Nanotubeâ€“Carbon Nanotube Interconnected Bumps for High-Frequency Applications. IEEE Nanotechnology Magazine, 2013, 12, 609-615.	1.1	23
113	Coreâ€“shell CNTâ€“Niâ€“Si nanowires as a high performance anode material for lithium ion batteries. Carbon, 2013, 63, 54-60.	5.4	41
114	Spin-Orbit Splitting in Single-Layer MoS_2 Revealed by Triply Resonant Raman Scattering. Physical Review Letters, 2013, 111, 126801.	2.9	137
115	Thickness dependency of the structure and laser irradiation stability of filtered cathodic vacuum arc grown carbon films for heat assisted magnetic recording overcoat. Surface and Coatings Technology, 2013, 236, 207-211.	2.2	3
116	Thermal conductivity of titanium aluminum silicon nitride coatings deposited by lateral rotating cathode arc. Thin Solid Films, 2013, 537, 108-112.	0.8	20
117	Femtosecond laser modification of an array of vertically aligned carbon nanotubes intercalated with Fe phase nanoparticles. Nanoscale Research Letters, 2013, 8, 375.	3.1	9
118	Carbon nanotube array as high impedance interconnects for sensing device integration. , 2013, , .		1
119	Carbon-nanotube-based RF components with multiple applications. , 2013, , .		1
120	Monopole antenna based on carbon nanotubes. , 2013, , .		5
121	Measurement and modeling of carbon nanotubes-based flip-chip RF device. , 2013, , .		2
122	Formation of thick textured carbon film using filtered cathodic vacuum arc technique. , 2013, , .		0
123	Rapid fabrication of a novel Snâ€“Ge alloy: structureâ€“property relationship and its enhanced lithium storage properties. Journal of Materials Chemistry A, 2013, 1, 14577.	5.2	47
124	Self-organized hybrid nanostructures composed of the array of vertically aligned carbon nanotubes and planar graphite layer. , 2013, , .		0
125	Droplet based lab-on-chip microfluidic Microsystems integrated nanostructured surfaces for high sensitive mass spectrometry analysis. , 2013, , .		0
126	High performance carbon nanotubeâ€“Si coreâ€“shell wires with a rationally structured core for lithium ion battery anodes. Nanoscale, 2013, 5, 1503.	2.8	66

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127	Photocatalytic properties of nanostructured titanium dioxide. Journal of Applied Spectroscopy, 2013, 79, 1010-1013.	0.3	2
128	The influence of titanium nitride barrier layer on the properties of CNT bundles. , 2013, , .		0
129	Identifying the mechanisms of p-to-n conversion in unipolar graphene field-effect transistors. Nanotechnology, 2013, 24, 195202.	1.3	8
130	Carbon nanotube-based printed antenna for conformal applications. , 2013, , .		1
131	Integration of CNT in TSV (≤5 μm) for 3D IC application and its process challenges. , 2013, , .		5
132	Monitoring cell proliferation in silk fibroin scaffolds using spectroscopic optical coherence tomography. Microwave and Optical Technology Letters, 2013, 55, 2587-2594.	0.9	2
133	Growth of Carbon Nanotubes on Carbon/Cobalt Films with Different sp^{b>2}/sp^{b>3} Ratios. Journal of Nanomaterials, 2013, 2013, 1-5.	1.5	0
134	Design and assessment of carbon-nanotube-based remote links to nanodevices. , 2013, , .		3
135	CNTs effects on RF resonators printed on paper. , 2013, , .		6
136	Molecular dynamic simulation of diamond/silicon interfacial thermal conductance. Journal of Applied Physics, 2013, 113, .	1.1	22
137	Study of Bone Morphogenetic Protein-2 Delivery with Different TiO₂ Nanotube Structures. Nanoscience and Nanotechnology Letters, 2013, 5, 162-166.	0.4	10
138	DOUBLE-WALLED TITANIA NANOTUBES. , 2013, , .		0
139	Formation of Thick Textured Carbon Film Using Filtered Cathodic Vacuum Arc Technique. Nanoscience and Nanotechnology Letters, 2013, 5, 912-915.	0.4	0
140	Tuning the Kapitza resistance in pillared-graphene nanostructures. Journal of Applied Physics, 2012, 111, .	1.1	11
141	Thermal rectification reversal in carbon nanotubes. Journal of Applied Physics, 2012, 112, .	1.1	7
142	Phononic and structural response to strain in wurtzite-gallium nitride nanowires. Journal of Applied Physics, 2012, 111, 103506.	1.1	13
143	Optical resonance of nanoantennas consisting of single nanoparticle and couple nanoparticle pair. , 2012, , .		0
144	Carbon Nanowires Fabrications via Top Down Approach. Journal of Nanoscience and Nanotechnology, 2012, 12, 707-713.	0.9	0

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145	Performance assessment of optimized carbon-nanotube-based wireless on-chip communication. , 2012, , .		4
146	Growth and Characterization of Bamboo-Shaped Carbon Nanotubes Using Nanocluster-Assembled ZnO:Co Thin Films as Catalyst. Journal of Nanoscience and Nanotechnology, 2012, 12, 6583-6587.	0.9	2
147	Thermal conductivity of individual multiwalled carbon nanotubes. International Journal of Thermal Sciences, 2012, 62, 40-43.	2.6	75
148	Electrical properties of textured carbon film formed by pulsed laser annealing. Diamond and Related Materials, 2012, 23, 135-139.	1.8	11
149	Effect of initial sp ³ content on bonding structure evolution of amorphous carbon upon pulsed laser annealing. Diamond and Related Materials, 2012, 30, 48-52.	1.8	16
150	Mesoscopic Model for the Electromagnetic Properties of Arrays of Nanotubes and Nanowires: A Bulk Equivalent Approach. IEEE Nanotechnology Magazine, 2012, 11, 964-974.	1.1	29
151	Dual-Window Dual-Bandwidth Spectroscopic Optical Coherence Tomography Metric for Qualitative Scatterer Size Differentiation in Tissues. IEEE Transactions on Biomedical Engineering, 2012, 59, 2439-2448.	2.5	13
152	Trade-offs in designing antennas from bundled carbon nanotubes. , 2012, , .		5
153	Morphology-tunable assembly of periodically aligned Si nanowire and radial pn junction arrays for solar cell applications. Applied Surface Science, 2012, 258, 6169-6176.	3.1	17
154	Growth of few-wall carbon nanotubes with narrow diameter distribution over Fe-Mo-MgO catalyst by methane/acetylene catalytic decomposition. Nanoscale Research Letters, 2012, 7, 102.	3.1	24
155	Carbon nanotube bumps for the flip chip packaging system. Nanoscale Research Letters, 2012, 7, 105.	3.1	29
156	Mildly reduced graphene oxide-Ag nanoparticle hybrid films for surface-enhanced Raman scattering. Nanoscale Research Letters, 2012, 7, 205.	3.1	17
157	Thickness dependency of field emission in amorphous and nanostructured carbon thin films. Nanoscale Research Letters, 2012, 7, 286.	3.1	7
158	Carbon based multi-functional materials towards 3D system integration. Application to thermal and interconnect management. , 2012, , .		0
159	Fabrication and characterization of carbon nanotube intermolecular p ⁿ junctions. Solid-State Electronics, 2012, 77, 46-50.	0.8	3
160	Phonon localization around vacancies in graphene nanoribbons. Diamond and Related Materials, 2012, 23, 88-92.	1.8	40
161	Property study of aluminium oxide thin films by thermal annealing. Physica Status Solidi C: Current Topics in Solid State Physics, 2012, 9, 77-80.	0.8	6
162	Study of nanocluster-assembled ZnO thin films by nanocluster-beam deposition. Physica Status Solidi C: Current Topics in Solid State Physics, 2012, 9, 128-132.	0.8	4

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163	From Bulk to Monolayer MoS ₂ : Evolution of Raman Scattering. <i>Advanced Functional Materials</i> , 2012, 22, 1385-1390.	7.8	3,354
164	Reordering Chaotic Carbon: Origins and Application of Textured Carbon. <i>Advanced Materials</i> , 2012, 24, 4112-4123.	11.1	25
165	Thermal conductivity of nanocrystalline carbon films studied by pulsed photothermal reflectance. <i>Carbon</i> , 2012, 50, 1428-1431.	5.4	19
166	Microwave Frequency Characteristics of Magnetically Functionalized Carbon Nanotube Arrays. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2012, 54, 70-80.	1.4	3
167	Guest Editorial Special Issue on Applications of Nanotechnology in Electromagnetic Compatibility (nano-EMC). <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2012, 54, 2-5.	1.4	10
168	From Bulk TFETs to CNT-TFETs: Status and Trends. , 2012, , 239-246.		1
169	Study of carbon nanotube flip-chip methodology for interconnect technology via electromagnetic and circuit model approach. , 2011, , .		3
170	Growth of few wall carbon nanotubes with narrow diameter distribution over Fe-Mo-MgO catalyst by methane/acetylene catalytic decomposition. , 2011, , .		0
171	Understanding the electrical transport properties of carbon nanotubes and its metal under-layers. , 2011, , .		0
172	Chemically derived graphene as an effective substrate to detect fluorescence molecules. , 2011, , .		0
173	Electrical transport in carbon nanotube intermolecular p-n junctions. , 2011, , .		1
174	Study on thermal boundary conductance between diamond and amorphous carbon. , 2011, , .		0
175	Heat conduction across multiwalled carbon nanotube/graphene hybrid films. , 2011, , .		0
176	Microstructure and through-film electrical characteristics of vertically aligned amorphous carbon films. <i>Diamond and Related Materials</i> , 2011, 20, 290-293.	1.8	18
177	The hysteresis phenomenon of the field emission from the graphene film. <i>Applied Physics Letters</i> , 2011, 99, 173104.	1.5	54
178	Compounded effect of vacancy on interfacial thermal transport in diamond-graphene nanostructures. <i>Diamond and Related Materials</i> , 2011, 20, 1137-1142.	1.8	7
179	Large diameter TiO ₂ nanotube fabrication for bone morphogenetic protein delivery. , 2011, , .		0
180	Effect of hydrophilicity of carbon nanotube arrays on the release rate and activity of recombinant human bone morphogenetic protein-2. <i>Nanotechnology</i> , 2011, 22, 295712.	1.3	21

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181	Plasmon resonances of carbon-nanotube-based dipole antennas for nano-interconnects. , 2011, , .		7
182	Three-Stage Transformation Pathway from Nanodiamonds to Fullerenes. Journal of Physical Chemistry A, 2011, 115, 8327-8334.	1.1	9
183	Facile Fabrication of Si Nanowire Arrays for Solar Cell Application. Journal of Nanoscience and Nanotechnology, 2011, 11, 10539-10543.	0.9	1
184	One-step synthesis of pure Cu nanowire/carbon nanotube coaxial nanocables with different structures by arc discharge. Journal of Physics and Chemistry of Solids, 2011, 72, 1519-1523.	1.9	15
185	Field emission enhancement and microstructural changes of carbon films by single pulse laser irradiation. Carbon, 2011, 49, 1018-1024.	5.4	29
186	Plasma density induced formation of nanocrystals in physical vapor deposited carbon films. Carbon, 2011, 49, 1733-1744.	5.4	34
187	Characterization of CNT interconnection bumps implemented for 1st level flip chip packaging. , 2011, , .		3
188	Hybrid EM/circuit modeling for carbon nanotubes based interconnects. , 2011, , .		3
189	Interpillar phononics in pillared-graphene hybrid nanostructures. Journal of Applied Physics, 2011, 110, 083502.	1.1	15
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191	Carbon metal composite film deposited using novel Filtered Cathodic Vacuum Arc technique. , 2011, , .		0
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