

# Jun Li

## List of Publications by Citations

**Source:** <https://exaly.com/author-pdf/4162483/jun-li-publications-by-citations.pdf>

**Version:** 2024-04-29

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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

179  
papers

8,186  
citations

46  
h-index

87  
g-index

194  
ext. papers

8,944  
ext. citations

5.9  
avg, IF

5.82  
L-index

#	Paper	IF	Citations
179	Carbon Nanotube Nanoelectrode Array for Ultrasensitive DNA Detection. <i>Nano Letters</i> , <b>2003</b> , 3, 597-602	11.5	573
178	Bottom-up approach for carbon nanotube interconnects. <i>Applied Physics Letters</i> , <b>2003</b> , 82, 2491-2493	3.4	393
177	Growth of epitaxial nanowires at the junctions of nanowalls. <i>Science</i> , <b>2003</b> , 300, 1249	33.3	375
176	Preparation of Nucleic Acid Functionalized Carbon Nanotube Arrays. <i>Nano Letters</i> , <b>2002</b> , 2, 1079-1081	11.5	315
175	Novel Three-Dimensional Electrodes: Electrochemical Properties of Carbon Nanotube Ensembles. <i>Journal of Physical Chemistry B</i> , <b>2002</b> , 106, 9299-9305	3.4	265
174	Optical properties of single-crystalline ZnO nanowires on m-sapphire. <i>Applied Physics Letters</i> , <b>2003</b> , 82, 2023-2025	3.4	262
173	Direct Integration of Metal Oxide Nanowire in Vertical Field-Effect Transistor. <i>Nano Letters</i> , <b>2004</b> , 4, 651-657	11.5	248
172	Hybrid Supercapacitor Based on Coaxially Coated Manganese Oxide on Vertically Aligned Carbon Nanofiber Arrays. <i>Chemistry of Materials</i> , <b>2010</b> , 22, 5022-5030	9.6	231
171	The fabrication and electrochemical characterization of carbon nanotube nanoelectrode arrays. <i>Journal of Materials Chemistry</i> , <b>2004</b> , 14, 676		216
170	Vertically aligned carbon nanofiber arrays: an advance toward electrical-neural interfaces. <i>Small</i> , <b>2006</b> , 2, 89-94	11	177
169	Thermal Interface Properties of Cu-filled Vertically Aligned Carbon Nanofiber Arrays. <i>Nano Letters</i> , <b>2004</b> , 4, 2403-2407	11.5	175
168	Ultrasensitive label-free DNA analysis using an electronic chip based on carbon nanotube nanoelectrode arrays. <i>Nanotechnology</i> , <b>2003</b> , 14, 1239-45	3.4	163
167	Structure of octadecyl thiol self-assembled on the silver(111) surface: an incommensurate monolayer. <i>Langmuir</i> , <b>1991</b> , 7, 2013-2016	4	161
166	Self-supported supercapacitor membranes: Polypyrrole-coated carbon nanotube networks enabled by pulsed electrodeposition. <i>Journal of Power Sources</i> , <b>2010</b> , 195, 674-679	8.9	159
165	Electronic properties of multiwalled carbon nanotubes in an embedded vertical array. <i>Applied Physics Letters</i> , <b>2002</b> , 81, 910-912	3.4	141
164	Inlaid Multi-Walled Carbon Nanotube Nanoelectrode Arrays for Electroanalysis. <i>Electroanalysis</i> , <b>2005</b> , 17, 15-27	3	134
163	Thermal Contact Resistance and Thermal Conductivity of a Carbon Nanofiber. <i>Journal of Heat Transfer</i> , <b>2006</b> , 128, 234-239	1.8	131

162	Miniaturized multiplex label-free electronic chip for rapid nucleic acid analysis based on carbon nanotube nanoelectrode arrays. <i>Clinical Chemistry</i> , <b>2004</b> , 50, 1886-93	5.5	131
161	Epitaxial Directional Growth of Indium-Doped Tin Oxide Nanowire Arrays. <i>Nano Letters</i> , <b>2003</b> , 3, 925-928	11.5	128
160	Structural defects in self-assembled organic monolayers via combined atomic beam and x-ray diffraction. <i>Journal of Chemical Physics</i> , <b>1993</b> , 99, 744-747	3.9	128
159	Structure and Photoluminescence Study of TiO <sub>2</sub> Nanoneedle Texture along Vertically Aligned Carbon Nanofiber Arrays. <i>Journal of Physical Chemistry C</i> , <b>2008</b> , 112, 17127-17132	3.8	122
158	Vertically aligned carbon nanofiber architecture as a multifunctional 3-D neural electrical interface. <i>IEEE Transactions on Biomedical Engineering</i> , <b>2007</b> , 54, 1121-8	5	120
157	Effects of calcining temperature on formation of hierarchical TiO <sub>2</sub> /g-C <sub>3</sub> N <sub>4</sub> hybrids as an effective Z-scheme heterojunction photocatalyst. <i>Applied Surface Science</i> , <b>2018</b> , 441, 1012-1023	6.7	114
156	Conversion of PtNi alloy from disordered to ordered for enhanced activity and durability in methanol-tolerant oxygen reduction reactions. <i>Nano Research</i> , <b>2015</b> , 8, 2777-2788	10	101
155	Thermostable gel polymer electrolyte based on succinonitrile and ionic liquid for high-performance solid-state supercapacitors. <i>Journal of Power Sources</i> , <b>2016</b> , 328, 510-519	8.9	99
154	ZnO nanoparticles implanted in TiO <sub>2</sub> macrochannels as an effective direct Z-scheme heterojunction photocatalyst for degradation of RhB. <i>Applied Surface Science</i> , <b>2018</b> , 456, 666-675	6.7	95
153	Wafer-scale fabrication of patterned carbon nanofiber nanoelectrode arrays: a route for development of multiplexed, ultrasensitive disposable biosensors. <i>Biosensors and Bioelectronics</i> , <b>2009</b> , 24, 2818-24	11.8	82
152	3D printing of hybrid MoS <sub>2</sub> -graphene aerogels as highly porous electrode materials for sodium ion battery anodes. <i>Materials and Design</i> , <b>2019</b> , 170, 107689	8.1	75
151	Electron transport through metal-multiwall carbon nanotube interfaces. <i>IEEE Nanotechnology Magazine</i> , <b>2004</b> , 3, 311-317	2.6	75
150	Carbon nanotubes as AFM tips: measuring DNA molecules at the liquid/solid interface. <i>Surface and Interface Analysis</i> , <b>1999</b> , 28, 8-11	1.5	75
149	Ba <sub>5</sub> Ta <sub>4</sub> O <sub>15</sub> Nanosheet/AgVO <sub>3</sub> Nanoribbon Heterojunctions with Enhanced Photocatalytic Oxidation Performance: Hole Dominated Charge Transfer Path and Plasmonic Effect Insight. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2018</b> , 6, 6682-6692	8.3	74
148	A high-performance lithium-ion battery anode based on the core-shell heterostructure of silicon-coated vertically aligned carbon nanofibers. <i>Journal of Materials Chemistry A</i> , <b>2013</b> , 1, 1055-1064	13	71
147	Growth of Carbon Nanotubes: A Combinatorial Method To Study the Effects of Catalysts and Underlayers. <i>Journal of Physical Chemistry B</i> , <b>2003</b> , 107, 8484-8489	3.4	70
146	Combinatorial chips for optimizing the growth and integration of carbon nanofibre based devices. <i>Nanotechnology</i> , <b>2004</b> , 15, 9-15	3.4	69
145	Characterization of carbon nanofiber electrode arrays using electrochemical impedance spectroscopy: effect of scaling down electrode size. <i>ACS Nano</i> , <b>2010</b> , 4, 955-61	16.7	68

144	Novel dye-sensitized solar cell architecture using TiO <sub>2</sub> -coated vertically aligned carbon nanofiber arrays. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2009</b> , 1, 1645-9	9.5	67
143	Ultra-thin SiC layer covered graphene nanosheets as advanced photocatalysts for hydrogen evolution. <i>Journal of Materials Chemistry A</i> , <b>2015</b> , 3, 10999-11005	13	65
142	High surface area zirconia by digestion of zirconium propoxide at different pH. <i>Microporous and Mesoporous Materials</i> , <b>2000</b> , 39, 381-392	5.3	64
141	Counterion Overlayers at the Interface between an Electrolyte and an .omega.-Functionalized Monolayer Self-Assembled on Gold. An X-ray Reflectivity Study. <i>Langmuir</i> , <b>1995</b> , 11, 4418-4427	4	61
140	Structural and Electrical Characterization of Carbon Nanofibers for Interconnect Via Applications. <i>IEEE Nanotechnology Magazine</i> , <b>2007</b> , 6, 688-695	2.6	57
139	Integration of a nanostructured dielectrophoretic device and a surface-enhanced Raman probe for highly sensitive rapid bacteria detection. <i>Nanoscale</i> , <b>2015</b> , 7, 3726-36	7.7	56
138	Mesoporous Hybrids of Reduced Graphene Oxide and Vanadium Pentoxide for Enhanced Performance in Lithium-Ion Batteries and Electrochemical Capacitors. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 9200-10	9.5	56
137	Synthesis and characterization of bionanocomposites of poly(lactic acid) and TiO <sub>2</sub> nanowires by in situ polymerization. <i>Polymer</i> , <b>2011</b> , 52, 2367-2375	3.9	53
136	Detection of extremely low concentration waterborne pathogen using a multiplexing self-referencing SERS microfluidic biosensor. <i>Journal of Biological Engineering</i> , <b>2017</b> , 11, 9	6.3	49
135	Controlling dielectric and relaxor-ferroelectric properties for energy storage by tuning Pb <sub>0.92</sub> La <sub>0.08</sub> Zr <sub>0.52</sub> Ti <sub>0.48</sub> O <sub>3</sub> film thickness. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2014</b> , 6, 22417-22	9.5	49
134	3D Printing Hierarchical Silver Nanowire Aerogel with Highly Compressive Resilience and Tensile Elongation through Tunable Poisson's Ratio. <i>Small</i> , <b>2017</b> , 13, 1701756	11	47
133	High efficient electrical stimulation of hippocampal slices with vertically aligned carbon nanofiber microbrush array. <i>Biomedical Microdevices</i> , <b>2009</b> , 11, 801-8	3.7	44
132	In-situ AFM study of pitting corrosion of Cu thin films. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>1999</b> , 154, 227-237	5.1	41
131	Tin dioxide@carbon core-shell nanoarchitectures anchored on wrinkled graphene for ultrafast and stable lithium storage. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2014</b> , 6, 7434-43	9.5	39
130	Carbon nanotube networks by chemical vapor deposition. <i>Applied Physics Letters</i> , <b>2003</b> , 82, 817-819	3.4	39
129	Friction of partially embedded vertically aligned carbon nanofibers inside elastomers. <i>Applied Physics Letters</i> , <b>2007</b> , 91, 061906	3.4	37
128	Higher-power supercapacitor electrodes based on mesoporous manganese oxide coating on vertically aligned carbon nanofibers. <i>Nanoscale</i> , <b>2015</b> , 7, 8485-94	7.7	35
127	Detangling extrinsic and intrinsic hysteresis for detecting dynamic switch of electric dipoles using graphene field-effect transistors on ferroelectric gates. <i>Nanoscale</i> , <b>2015</b> , 7, 18489-97	7.7	35

126	Electrochemical Protease Biosensor Based on Enhanced AC Voltammetry Using Carbon Nanofiber Nanoelectrode Arrays. <i>Journal of Physical Chemistry C</i> , <b>2013</b> , 117, 4268-4277	3.8	34
125	Microfluidic integrated multi-walled carbon nanotube (MWCNT) sensor for electrochemical nucleic acid concentration measurement. <i>Sensors and Actuators B: Chemical</i> , <b>2013</b> , 185, 370-376	8.5	33
124	The structure of n-octadecane thiol monolayers self-assembled on Au(001) studied by synchrotron x-ray and helium atom diffraction. <i>Journal of Chemical Physics</i> , <b>1995</b> , 102, 5012-5028	3.9	33
123	Enhanced photocatalytic activity under visible light by the synergistic effects of plasmonics and Ti <sup>3+</sup> -doping at the Ag/TiO <sub>2-x</sub> heterojunction. <i>Ceramics International</i> , <b>2020</b> , 46, 10667-10677	5.1	32
122	Soft-Lithography-Mediated Chemical Vapor Deposition of Architected Carbon Nanotube Networks on Elastomeric Polymer. <i>Langmuir</i> , <b>2002</b> , 18, 1-5	4	31
121	Vertically Aligned Carbon Nanofibers on Cu Foil as a 3D Current Collector for Reversible Li Plating/Stripping toward High-Performance LiB Batteries. <i>Advanced Functional Materials</i> , <b>2020</b> , 30, 1906444	15.6	31
120	Advanced physical chemistry of carbon nanotubes. <i>Annual Review of Physical Chemistry</i> , <b>2015</b> , 66, 331-561	5.7	29
119	Phases of Underpotentially Deposited Hg on Au(111): An in Situ Surface X-ray Diffraction Study. <i>Journal of Physical Chemistry B</i> , <b>1997</b> , 101, 2907-2916	3.4	29
118	Current-induced breakdown of carbon nanofibers. <i>Journal of Applied Physics</i> , <b>2007</b> , 101, 114307	2.5	29
117	Coadsorption of Sulfate/Bisulfate Anions with Hg Cations during Hg Underpotential Deposition on Au(111): An in Situ X-ray Diffraction Study. <i>Journal of Physical Chemistry B</i> , <b>1997</b> , 101, 244-252	3.4	28
116	N-doping induced tensile-strained Pt nanoparticles ensuring an excellent durability of the oxygen reduction reaction. <i>Journal of Catalysis</i> , <b>2020</b> , 382, 247-255	7.3	28
115	Effective Infiltration of Gel Polymer Electrolyte into Silicon-Coated Vertically Aligned Carbon Nanofibers as Anodes for Solid-State Lithium-Ion Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2015</b> , 7, 20909-18	9.5	27
114	Structural characteristics of carbon nanofibers for on-chip interconnect applications. <i>Applied Physics Letters</i> , <b>2005</b> , 87, 233105	3.4	27
113	Characteristics of aligned carbon nanofibers for interconnect via applications. <i>IEEE Electron Device Letters</i> , <b>2006</b> , 27, 221-224	4.4	27
112	Vertically aligned carbon nanotube heterojunctions. <i>Applied Physics Letters</i> , <b>2004</b> , 85, 2364-2366	3.4	27
111	Corn stover pretreatment by metal oxides for improving lignin removal and reducing sugar degradation and water usage. <i>Bioresource Technology</i> , <b>2018</b> , 263, 232-241	11	26
110	Synthesis of vertically aligned carbon nanotubes films on silicon wafers by pyrolysis of ethylenediamine. <i>Thin Solid Films</i> , <b>2002</b> , 422, 120-125	2.2	26
109	Electrochemical, in-situ surface EXAFS and CTR studies of Co monolayers irreversibly adsorbed onto Pt(111). <i>Electrochimica Acta</i> , <b>1999</b> , 44, 2385-2396	6.7	25

108	Anomalous capacity increase at high-rates in lithium-ion battery anodes based on silicon-coated vertically aligned carbon nanofibers. <i>Journal of Power Sources</i> , <b>2015</b> , 276, 73-79	8.9	24
107	Manipulation of bacteriophages with dielectrophoresis on carbon nanofiber nanoelectrode arrays. <i>Electrophoresis</i> , <b>2013</b> , 34, 1123-30	3.6	24
106	Quantitative electrochemical detection of cathepsin B activity in complex tissue lysates using enhanced AC voltammetry at carbon nanofiber nanoelectrode arrays. <i>Biosensors and Bioelectronics</i> , <b>2014</b> , 56, 129-36	11.8	23
105	Charge-transfer character of the low-energy Chl a Q(y) absorption band in aggregated light harvesting complexes II. <i>Journal of Physical Chemistry B</i> , <b>2014</b> , 118, 6086-91	3.4	23
104	Dielectrophoretic trapping of single bacteria at carbon nanofiber nanoelectrode arrays. <i>Journal of Physical Chemistry A</i> , <b>2007</b> , 111, 12772-7	2.8	23
103	Effect of the LHCII pigment-protein complex aggregation on photovoltaic properties of sensitized TiO <sub>2</sub> solar cells. <i>Physical Chemistry Chemical Physics</i> , <b>2014</b> , 16, 20856-65	3.6	22
102	Quantitative electrochemical detection of cathepsin B activity in breast cancer cell lysates using carbon nanofiber nanoelectrode arrays toward identification of cancer formation. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , <b>2015</b> , 11, 1695-704	6	22
101	Kinetic properties of alternatively spliced isoforms of laccase-2 from <i>Tribolium castaneum</i> and <i>Anopheles gambiae</i> . <i>Insect Biochemistry and Molecular Biology</i> , <b>2012</b> , 42, 193-202	4.5	22
100	Anion and electrode surface structure effects on the deposition of metal monolayers: electrochemical and time-resolved surface diffraction studies. <i>Electrochimica Acta</i> , <b>1998</b> , 43, 2899-2909	6.7	22
99	Highly Stable Three Lithium Insertion in Thin V <sub>2</sub> O <sub>5</sub> Shells on Vertically Aligned Carbon Nanofiber Arrays for Ultrahigh-Capacity Lithium Ion Battery Cathodes. <i>Advanced Materials Interfaces</i> , <b>2016</b> , 3, 1600824	4.6	22
98	Electrospray synthesis of nano-Si encapsulated in graphite/carbon microplates as robust anodes for high performance lithium-ion batteries. <i>Sustainable Energy and Fuels</i> , <b>2018</b> , 2, 679-687	5.8	21
97	Label-free electrochemical impedance detection of kinase and phosphatase activities using carbon nanofiber nanoelectrode arrays. <i>Analytica Chimica Acta</i> , <b>2012</b> , 744, 45-53	6.6	21
96	Dual-Confined SiO Embedded in TiO <sub>2</sub> Shell and 3D Carbon Nanofiber Web as Stable Anode Material for Superior Lithium Storage. <i>Advanced Materials Interfaces</i> , <b>2019</b> , 6, 1801800	4.6	20
95	Atomic layer deposition of Al-doped ZnO/Al <sub>2</sub> O <sub>3</sub> double layers on vertically aligned carbon nanofiber arrays. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2014</b> , 6, 6865-71	9.5	20
94	Isothermal crystallization and melting behaviors of bionanocomposites from poly(lactic acid) and TiO <sub>2</sub> nanowires. <i>Journal of Applied Polymer Science</i> , <b>2012</b> , 124, 2968-2977	2.9	20
93	Electrochemical Activity Assay for Protease Analysis Using Carbon Nanofiber Nanoelectrode Arrays. <i>Analytical Chemistry</i> , <b>2019</b> , 91, 3971-3979	7.8	19
92	Plasmonic Enhancement of Biosolar Cells Employing Light Harvesting Complex II Incorporated with Core@Shell Metal@TiO <sub>2</sub> Nanoparticles. <i>Advanced Materials Interfaces</i> , <b>2016</b> , 3, 1600371	4.6	19
91	Flexible carbon nanotube membrane sensory system: a generic platform. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2001</b> , 1, 375-9	1.3	19



90	Nanotechnology: moving from microarrays toward nanoarrays. <i>Methods in Molecular Biology</i> , <b>2007</b> , 381, 411-36	1.4	19
89	The Formation of Two-Dimensional Supramolecular Chiral Lamellae by Diamide Molecules at the Solution/Graphite Interface: A Scanning Tunneling Microscopy Study. <i>Langmuir</i> , <b>2000</b> , 16, 7023-7030	4	18
88	Palladium catalyzed formation of carbon nanofibers by plasma enhanced chemical vapor deposition. <i>Carbon</i> , <b>2007</b> , 45, 424-428	10.4	17
87	Investigation into Photoconductivity in Single CNF/TiO <sub>2</sub> -Dye Core-Shell Nanowire Devices. <i>Nanoscale Research Letters</i> , <b>2010</b> , 5, 1480-1486	5	16
86	The effects of anions on the underpotential deposition of Hg on Au(111) An electrochemical and in situ surface X-ray diffraction study. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>1998</b> , 134, 113-131	5.1	16
85	A Novel High-Power Battery-Pseudocapacitor Hybrid Based on Fast Lithium Reactions in Silicon Anode and Titanium Dioxide Cathode Coated on Vertically Aligned Carbon Nanofibers. <i>Electrochimica Acta</i> , <b>2015</b> , 178, 797-805	6.7	15
84	Self-Organization of Ions at the Interface between Graphene and Ionic Liquid DEME-TFSI. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 35437-35443	9.5	15
83	Detecting Electric Dipoles Interaction at the Interface of Ferroelectric and Electrolyte Using Graphene Field Effect Transistors. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 4244-4252	9.5	14
82	Preparation and characterization of TiO <sub>2</sub> barrier layers for dye-sensitized solar cells. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2014</b> , 6, 10679-86	9.5	14
81	Dielectrophoretic capture of E. coli cells at micropatterned nanoelectrode arrays. <i>Electrophoresis</i> , <b>2011</b> , 32, 2358-65	3.6	14
80	Facilitating high-capacity V <sub>2</sub> O <sub>5</sub> cathodes with stable two and three Li <sup>+</sup> insertion using a hybrid membrane structure consisting of amorphous V <sub>2</sub> O <sub>5</sub> shells coaxially deposited on electrospun carbon nanofibers. <i>Electrochimica Acta</i> , <b>2018</b> , 269, 144-154	6.7	12
79	Electrodeposition dynamics: electrochemical and X-ray scattering studies. <i>Electrochimica Acta</i> , <b>1998</b> , 44, 983-992	6.7	12
78	Carbon nanotubes and nanowires for biological sensing. <i>Methods in Molecular Biology</i> , <b>2005</b> , 300, 191-231.4	1.4	12
77	Redox potentials, laccase oxidation, and antilarval activities of substituted phenols. <i>Bioorganic and Medicinal Chemistry</i> , <b>2012</b> , 20, 1679-89	3.4	11
76	Layer-by-layer assembled carbon nanotube films with molecule recognition function and lower capacitive background current. <i>Bioelectrochemistry</i> , <b>2009</b> , 74, 289-94	5.6	11
75	High throughput methodology for carbon nanomaterials discovery and optimization. <i>Applied Catalysis A: General</i> , <b>2003</b> , 254, 85-96	5.1	11
74	Water-Insoluble Side-Chain-Grafted Single Ion Conducting Polymer Electrolyte for Long-Term Stable Lithium Metal Secondary Batteries. <i>ACS Applied Energy Materials</i> , <b>2020</b> , 3, 1128-1138	6.1	11
73	Toward highly stable solid-state unconventional thin-film battery-supercapacitor hybrid devices: Interfacing vertical core-shell array electrodes with a gel polymer electrolyte. <i>Journal of Power Sources</i> , <b>2017</b> , 342, 1006-1016	8.9	10

72	AC dielectrophoretic manipulation and electroporation of vaccinia virus using carbon nanoelectrode arrays. <i>Electrophoresis</i> , <b>2017</b> , 38, 1515-1525	3.6	10
71	Luminol-labeled gold nanoparticles for ultrasensitive chemiluminescence-based chemical analyses. <i>Analyst, The</i> , <b>2013</b> , 138, 5600-9	5	10
70	Density functional theory studies of Si <sub>36</sub> H <sub>36</sub> and C <sub>36</sub> H <sub>36</sub> nanocages. <i>International Journal of Quantum Chemistry</i> , <b>2014</b> , 114, 725-730	2.1	10
69	Fluorescence quenching studies of potential-dependent DNA reorientation dynamics at glassy carbon electrode surfaces. <i>Journal of the American Chemical Society</i> , <b>2012</b> , 134, 14467-75	16.4	10
68	Interface characteristics of vertically aligned carbon nanofibers for interconnect applications. <i>Applied Physics Letters</i> , <b>2006</b> , 89, 263114	3.4	10
67	Microelectronic DNA assay for the detection of BRCA1 gene mutations. <i>Biomedical Microdevices</i> , <b>2004</b> , 6, 55-60	3.7	10
66	Enhancing delignification and subsequent enzymatic hydrolysis of corn stover by magnesium oxide-ethanol pretreatment. <i>Bioresource Technology</i> , <b>2019</b> , 279, 124-131	11	9
65	Enhanced Electron Transfer Rates by AC Voltammetry for Ferrocenes Attached to the End of Embedded Carbon Nanofiber Nanoelectrode Arrays. <i>Electroanalysis</i> , <b>2011</b> , 23, 1709-1717	3	9
64	The effect of annealing on the photoconductivity of carbon nanofiber/TiO <sub>2</sub> core-shell nanowires for use in dye-sensitized solar cells. <i>Applied Physics Letters</i> , <b>2010</b> , 97, 043102	3.4	9
63	Vertically aligned carbon nanofibers: interconnecting solid state electronics with biosystems. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2009</b> , 9, 5038-46	1.3	9
62	Correlation of the plasmon-enhanced photoconductance and photovoltaic properties of core-shell Au@TiO <sub>2</sub> network. <i>Applied Physics Letters</i> , <b>2016</b> , 109, 091604	3.4	9
61	Probing effect of temperature on energy storage properties of relaxor-ferroelectric epitaxial Pb <sub>0.92</sub> La <sub>0.08</sub> Zr <sub>0.52</sub> Ti <sub>0.48</sub> O <sub>3</sub> thin film capacitors. <i>Thin Solid Films</i> , <b>2016</b> , 616, 711-716	2.2	9
60	Boosting the fermentable sugar yield and concentration of corn stover by magnesium oxide pretreatment for ethanol production. <i>Bioresource Technology</i> , <b>2018</b> , 269, 400-407	11	9
59	Fundamental Electrochemical Insights of Vertically Aligned Carbon Nanofiber Architecture as a Catalyst Support for ORR. <i>Journal of the Electrochemical Society</i> , <b>2020</b> , 167, 066523	3.9	8
58	An insect nucleoside diphosphate kinase (NDK) functions as an effector protein in wheat - Hessian fly interactions. <i>Insect Biochemistry and Molecular Biology</i> , <b>2018</b> , 100, 30-38	4.5	8
57	Syntheses, neural protective activities, and inhibition of glycogen synthase kinase-3β substituted quinolines. <i>Bioorganic and Medicinal Chemistry Letters</i> , <b>2014</b> , 24, 3392-7	2.9	8
56	Electrical Capture and Detection of Microbes Using Dielectrophoresis at Nanoelectrode Arrays. <i>ACS Symposium Series</i> , <b>2013</b> , 109-124	0.4	8
55	Arrays of carbon nanofibers as a platform for biosensing at the molecular level and for tissue engineering and implantation. <i>Bio-Medical Materials and Engineering</i> , <b>2009</b> , 19, 35-43	1	8



54	Bright contrast imaging of carbon nanofiber-substrate interface. <i>Journal of Applied Physics</i> , <b>2006</b> , 100, 104305	2.5	8
53	Thermal Conductivity of Carbon Nanotube Composite Films. <i>Materials Research Society Symposia Proceedings</i> , <b>2004</b> , 812, F3.18.1		8
52	Atomic hydrogen beam etching of carbon superstructures on 6H-SiC (0001) studied by reflection high-energy electron diffraction. <i>Diamond and Related Materials</i> , <b>2001</b> , 10, 1218-1223	3.5	8
51	Microwave-assisted high-yield exfoliation of vanadium pentoxide nanoribbons for supercapacitor applications. <i>Electrochimica Acta</i> , <b>2020</b> , 330, 135200	6.7	8
50	Sr:F co-doping of In <sub>2</sub> O <sub>3</sub> thin film and its dual inhibition effect on trap states to achieve a high stability thin film transistor deposited by solution process. <i>Journal Physics D: Applied Physics</i> , <b>2019</b> , 52, 315105	3	7
49	Simultaneous, multiplex quantification of protease activities using a gold microelectrode array. <i>Biosensors and Bioelectronics</i> , <b>2020</b> , 165, 112330	11.8	7
48	Bottom-up sample preparation technique for interfacial characterization of vertically aligned carbon nanofibers. <i>Ultramicroscopy</i> , <b>2006</b> , 106, 597-602	3.1	7
47	Graphene-Based Dual-Metal Sites for Oxygen Reduction Reaction: A Theoretical Study. <i>Journal of Physical Chemistry C</i> , <b>2021</b> , 125, 2334-2344	3.8	7
46	Sandwich-like mesoporous graphene@magnetite@carbon nanosheets for high-rate lithium ion batteries. <i>Solid State Sciences</i> , <b>2016</b> , 57, 16-23	3.4	6
45	Disordered Bilayered V <sub>2</sub> O <sub>5</sub> · nH <sub>2</sub> O Shells Deposited on Vertically Aligned Carbon Nanofiber Arrays as Stable High-Capacity Sodium Ion Battery Cathodes ? . <i>Energy Technology</i> , <b>2018</b> , 6, 2438-2449	3.5	6
44	Investigation of Pt Catalysts Supported on Multi-Walled Carbon Nanotubes with Various Diameters and Lengths. <i>Catalysis Letters</i> , <b>2008</b> , 120, 236-243	2.8	6
43	High Density Array Matrices of Polymeric Structures by Ultrathin Interfacial Layer-Mediated Double Replication Approach. <i>Nano Letters</i> , <b>2002</b> , 2, 961-964	11.5	6
42	High-solids hydrolysis of corn stover to achieve high sugar yield and concentration through high xylan recovery from magnesium oxide-ethanol pretreatment. <i>Bioresource Technology</i> , <b>2019</b> , 280, 352-359 <sup>11</sup>		6
41	Zigzag Single-Walled Carbon Nanotubes Substitutionally Doped by Silicon: A Density Functional Theory Study. <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , <b>2015</b> , 23, 203-208	1.8	5
40	Highly conjugated polypyrrole on multiwalled carbon nanotube templates analyzed by Raman spectroscopy <b>2007</b> ,		5
39	Enhancing Methanol Oxidation Reaction with Platinum-based Catalysts using a N-Doped Three-dimensional Graphitic Carbon Support. <i>ChemCatChem</i> , <b>2020</b> , 12, 6000-6012	5.2	5
38	Bright-field transmission imaging of carbon nanofibers on bulk substrate using conventional scanning electron microscopy. <i>Journal of Vacuum Science &amp; Technology B</i> , <b>2007</b> , 25, 1615		4
37	Nanotechnology: An Overview and Integration with MEMS		4

36	Hydroquinone-based conjugated Schiff base polymer as anode material for lithium ion batteries. <i>Materials Letters</i> , <b>2021</b> , 286, 129235	3.3	4
35	Carbon Nanotube Based Interconnect Technology: Opportunities and Challenges <b>2007</b> , A181-A204		4
34	Boosting fermentable sugars by integrating magnesium oxide-treated corn stover and corn stover liquor without washing and detoxification. <i>Bioresource Technology</i> , <b>2019</b> , 288, 121586	11	3
33	Enzymatic hydrolysis and fermentation of corn stover liquor from magnesium oxide pretreatment without detoxification. <i>Industrial Crops and Products</i> , <b>2019</b> , 140, 111728	5.9	3
32	Photoactivity of Poly(lactic acid) nanocomposites modulated by TiO <sub>2</sub> nanofillers. <i>Journal of Applied Polymer Science</i> , <b>2014</b> , 131, n/a-n/a	2.9	3
31	A study on the association between biomass types and magnesium oxide pretreatment. <i>Bioresource Technology</i> , <b>2019</b> , 293, 122035	11	2
30	Probing the relationship of cations-graphene interaction strength with self-organization behaviors of the anions at the interface between graphene and ionic liquids. <i>Applied Surface Science</i> , <b>2019</b> , 479, 576-581	6.7	2
29	TiO <sub>2</sub> : A Critical Interfacial Material for Incorporating Photosynthetic Protein Complexes and Plasmonic Nanoparticles into Biophotovoltaics <b>2017</b> ,		2
28	Self-supported supercapacitor membrane through incorporating MnO <sub>2</sub> nanowires into carbon nanotube networks. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2010</b> , 10, 5099-105	1.3	2
27	Three-dimensional columnar optical nanostructures fabricated by using lithography-free templating approach. <i>Applied Physics Letters</i> , <b>2004</b> , 84, 2898-2900	3.4	2
26	A Grazing Incidence X-Ray Diffraction Study of Self-Assembled Monolayers. <i>Materials Research Society Symposia Proceedings</i> , <b>1991</b> , 237, 291		2
25	Frontiers in hybrid and interfacial materials chemistry research. <i>MRS Bulletin</i> , <b>2020</b> , 45, 951-964	3.2	2
24	Tuning the defects in MoS <sub>2</sub> /reduced graphene oxide 2D hybrid materials for optimizing battery performance. <i>Sustainable Energy and Fuels</i> , <b>2021</b> , 5, 4002-4014	5.8	2
23	Carbon Nanotubes with Special Architectures for Biomedical Applications. <i>Springer Series in Biomaterials Science and Engineering</i> , <b>2016</b> , 113-143	0.6	1
22	Simulation of the Impact of Si Shell Thickness on the Performance of Si-Coated Vertically Aligned Carbon Nanofiber as Li-Ion Battery Anode. <i>Nanomaterials</i> , <b>2015</b> , 5, 2268-2278	5.4	1
21	High-rate lithium-ion battery anodes based on silicon-coated vertically aligned carbon nanofibers <b>2014</b> ,		1
20	Electrochemical enzymatic biosensors using carbon nanofiber nanoelectrode arrays <b>2012</b> ,		1
19	Carbon-Based Sensors <b>2008</b> , 507-533		1

18	Biomolecular Sensing for Cancer Diagnostics Using Carbon Nanotubes <b>2006</b> , 1-17		1
17	Thermal Contact Resistance and Thermal Conductivity of a Carbon Nanofiber <b>2005</b> , 197		1
16	Electrical Stimulation of Brain Tissue with Carbon Nanofiber Microbrush Arrays <b>2012</b> , 38-59		1
15	Platinum Deposited Nitrogen-Doped Vertically Aligned Carbon Nanofibers as Methanol Tolerant Catalyst for Oxygen Reduction Reaction with Improved Durability. <i>Applied Nano</i> , <b>2021</b> , 2, 303-318	1	1
14	High Performance Tin-coated Vertically Aligned Carbon Nanofiber Array Anode for Lithium-ion Batteries. <i>MRS Advances</i> , <b>2018</b> , 3, 3519-3524	0.7	1
13	Quantitative Detection of Cathepsin B Activity in Neutral pH Buffers Using Gold Microelectrode Arrays: Toward Direct Multiplex Analyses of Extracellular Proteases in Human Serum. <i>ACS Sensors</i> , <b>2021</b> , 6, 3621-3631	9.2	0
12	Co-fermentation of magnesium oxide-treated corn stover and corn stover liquor for cellulosic ethanol production and techno-economic analysis. <i>Bioresource Technology</i> , <b>2019</b> , 294, 122143	11	
11	Nanoelectrode Array Based Devices for Electrical Capture of Microbes Using Dielectrophoresis. <i>ACS Symposium Series</i> , <b>2016</b> , 213-230	0.4	
10	Advanced Materials for Supercapacitors. <i>Electrochemical Energy Storage and Conversion</i> , <b>2015</b> , 423-449		
9	Density Functional Theory Studies of Substitutionally Si-Doped Single-Walled Carbon Nanotubes. <i>Advanced Materials Research</i> , <b>2013</b> , 683, 150-153	0.5	
8	High Performance Lithium-ion Battery Electrode: Silicon Coated on Vertically Aligned Carbon Nanofibers. <i>Materials Research Society Symposia Proceedings</i> , <b>2013</b> , 1541, 73901		
7	Electrochemical analysis of dye adsorption on aligned carbon nanofiber arrays coated with TiO <sub>2</sub> nanoneedles for dye-sensitized solar cell. <i>Frontiers of Optoelectronics in China</i> , <b>2011</b> , 4, 53-58		
6	Introduction to the Special Section on Electronic and Ionic Interfaces to Biomolecules and Cells. <i>IEEE Nanotechnology Magazine</i> , <b>2010</b> , 9, 268-268	2.6	
5	Nanofabrication of Vertically Aligned Carbon Nanofibers for Contact Characterization. <i>Materials Research Society Symposia Proceedings</i> , <b>2006</b> , 921, 1		
4	Bright Contrast Imaging of Carbon Nanofiber-Substrate Interface using Scanning Electron Microscopy. <i>Materials Research Society Symposia Proceedings</i> , <b>2006</b> , 963, 1		
3	High-Current Reliability of Carbon Nanofibers for Interconnect Applications. <i>Materials Research Society Symposia Proceedings</i> , <b>2007</b> , 1018, 1		
2	The NASA Nanoelectrode Array for Deep Brain Stimulation: Monitoring Neurotransmitters and Electrical Activity Plus Precise Stimulation <b>2006</b> , 212-215		
1	Architectural Design for Flexible Solid-State Batteries. <i>ACS Symposium Series</i> , 289-309	0.4	

