

List of Publications by Citations

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

64 papers	1,179 citations	19 h-index	32 g-index
80 ext. papers	1,496 ext. citations	6.5 avg, IF	4.26 L-index

#	Paper	IF	Citations
64	Functionalization mediates heat transport in graphene nanoflakes. <i>Nature Communications</i> , 2016 , 7, 11281	17.4	104
63	Improved Heat Spreading Performance of Functionalized Graphene in Microelectronic Device Application. <i>Advanced Functional Materials</i> , 2015 , 25, 4430-4435	15.6	84
62	Synthesis Methods of Two-Dimensional MoS ₂ : A Brief Review. <i>Crystals</i> , 2017 , 7, 198	2.3	82
61	Graphene related materials for thermal management. <i>2D Materials</i> , 2020 , 7, 012001	5.9	82
60	Thermal chemical vapor deposition grown graphene heat spreader for thermal management of hot spots. <i>Carbon</i> , 2013 , 61, 342-348	10.4	72
59	A complete carbon-nanotube-based on-chip cooling solution with very high heat dissipation capacity. <i>Nanotechnology</i> , 2012 , 23, 045304	3.4	50
58	Synthesis and applications of two-dimensional hexagonal boron nitride in electronics manufacturing. <i>Electronic Materials Letters</i> , 2016 , 12, 1-16	2.9	49
57	Through-Silicon Vias Filled With Densified and Transferred Carbon Nanotube Forests. <i>IEEE Electron Device Letters</i> , 2012 , 33, 420-422	4.4	49
56	Synthesis of graphene quantum dots and their applications in drug delivery. <i>Journal of Nanobiotechnology</i> , 2020 , 18, 142	9.4	45
55	Ultrafast transfer of metal-enhanced carbon nanotubes at low temperature for large-scale electronics assembly. <i>Advanced Materials</i> , 2010 , 22, 5039-42	24	39
54	Templated growth of covalently bonded three-dimensional carbon nanotube networks originated from graphene. <i>Advanced Materials</i> , 2012 , 24, 1576-81	24	34
53	Graphene oxide based coatings on nitinol for biomedical implant applications: effectively promote mammalian cell growth but kill bacteria. <i>RSC Advances</i> , 2016 , 6, 38124-38134	3.7	32
52	Vertically Stacked Carbon Nanotube-Based Interconnects for Through Silicon Via Application. <i>IEEE Electron Device Letters</i> , 2015 , 36, 499-501	4.4	31
51	Vertically aligned CNT-Cu nano-composite material for stacked through-silicon-via interconnects. <i>Nanotechnology</i> , 2016 , 27, 335705	3.4	28
50	Characterization and simulation of liquid phase exfoliated graphene-based films for heat spreading applications. <i>Carbon</i> , 2016 , 106, 195-201	10.4	26
49	Two-dimensional hexagonal boron nitride as lateral heat spreader in electrically insulating packaging. <i>Journal Physics D: Applied Physics</i> , 2016 , 49, 265501	3	24
48	A portable micro glucose sensor based on copper-based nanocomposite structure. <i>New Journal of Chemistry</i> , 2019 , 43, 7806-7813	3.6	23

47	Compact and low loss electrochemical capacitors using a graphite / carbon nanotube hybrid material for miniaturized systems. <i>Journal of Power Sources</i> , 2019 , 412, 374-383	8.9	22
46	Egg albumen templated graphene foams for high-performance supercapacitor electrodes and electrochemical sensors. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 18267-18275	13	19
45	Selective growth of double-walled carbon nanotubes on gold films. <i>Materials Letters</i> , 2012 , 72, 78-80	3.3	18
44	Flexible Multifunctionalized Carbon Nanotubes-Based Hybrid Nanowires. <i>Advanced Functional Materials</i> , 2015 , 25, 4135-4143	15.6	17
43	Scalable three-dimensional Ni ₃ P-based composite networks for flexible asymmetric supercapacitors. <i>Chemical Engineering Journal</i> , 2020 , 380, 122621	14.7	16
42	Improving Thermal Transport at Carbon Hybrid Interfaces by Covalent Bonds. <i>Advanced Materials Interfaces</i> , 2018 , 5, 1800318	4.6	15
41	Tape-Assisted Transfer of Carbon Nanotube Bundles for Through-Silicon-Via Applications. <i>Journal of Electronic Materials</i> , 2015 , 44, 2898-2907	1.9	14
40	Chemical vapor deposition grown graphene on Cu-Pt alloys. <i>Materials Letters</i> , 2017 , 193, 255-258	3.3	12
39	Mechanical and thermal characterization of a novel nanocomposite thermal interface material for electronic packaging. <i>Microelectronics Reliability</i> , 2016 , 56, 129-135	1.2	12
38	Embedded Fin-Like Metal/CNT Hybrid Structures for Flexible and Transparent Conductors. <i>Small</i> , 2016 , 12, 1521-6	11	12
37	Controllable and fast synthesis of bilayer graphene by chemical vapor deposition on copper foil using a cold wall reactor. <i>Chemical Engineering Journal</i> , 2016 , 304, 106-114	14.7	12
36	Carbon nanotubes for electronics manufacturing and packaging: from growth to integration. <i>Advances in Manufacturing</i> , 2013 , 1, 13-27	2.7	11
35	Nanostructured polymer-metal composite for thermal interface material applications 2008 ,		10
34	Understanding noninvasive charge transfer doping of graphene: a comparative study. <i>Journal of Materials Science: Materials in Electronics</i> , 2018 , 29, 5239-5252	2.1	8
33	Application of through silicon via technology for in situ temperature monitoring on thermal interfaces. <i>Journal of Micromechanics and Microengineering</i> , 2010 , 20, 025027	2	8
32	Combination of positive charges and honeycomb pores to promote MC3T3-E1 cell behaviour. <i>RSC Advances</i> , 2015 , 5, 42276-42286	3.7	7
31	Thick film patterning by lift-off process using double-coated single photoresists. <i>Materials Letters</i> , 2012 , 76, 117-119	3.3	7
30	High porosity and light weight graphene foam heat sink and phase change material container for thermal management. <i>Nanotechnology</i> , 2020 , 31, 424003	3.4	7

29	Reliability Investigation of a Carbon Nanotube Array Thermal Interface Material. <i>Energies</i> , 2019 , 12, 2080.	3.1	6
28	Characterization for graphene as heat spreader using thermal imaging method 2013 ,		6
27	Thermal characterization of power devices using graphene-based film 2014 ,		6
26	Graphene based heat spreader for high power chip cooling using flip-chip technology 2013 ,		6
25	Effects of high temperature treatment of carbon nanotube arrays on graphite: increased crystallinity, anchoring and inter-tube bonding. <i>Nanotechnology</i> , 2020 , 31, 455708	3-4	5
24	A flexible and stackable 3D interconnect system using growth-engineered carbon nanotube scaffolds. <i>Flexible and Printed Electronics</i> , 2017 , 2, 025003	3-1	5
23	A lightweight and high thermal performance graphene heat pipe. <i>Nano Select</i> , 2021 , 2, 364-372	3-1	5
22	Cooling hot spots by hexagonal boron nitride heat spreaders 2015 ,		4
21	Multiple growth of graphene from a pre-dissolved carbon source. <i>Nanotechnology</i> , 2020 , 31, 345601	3-4	4
20	Graphene heat spreader for thermal management of hot spots 2013 ,		4
19	Degradation of Carbon Nanotube Array Thermal Interface Materials through Thermal Aging: Effects of Bonding, Array Height, and Catalyst Oxidation. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 30992-31000	9-5	4
18	Infrared emissivity measurement for vertically aligned multiwall carbon nanotubes (CNTs) based heat spreader applied in high power electronics packaging 2016 ,		4
17	Enhanced cold wall CVD reactor growth of horizontally aligned single-walled carbon nanotubes. <i>Electronic Materials Letters</i> , 2016 , 12, 329-337	2-9	4
16	Covalent Anchoring of Carbon Nanotube-Based Thermal Interface Materials Using Epoxy-Silane Monolayers. <i>IEEE Transactions on Components, Packaging and Manufacturing Technology</i> , 2019 , 9, 427-433	1-7	4
15	Reliability of graphene-based films used for high power electronics packaging 2015 ,		3
14	Use of graphene-based films for hot spot cooling 2014 ,		3
13	Use of Carbon nanotubes in potential electronics packaging applications 2010 ,		3
12	2D heat dissipation materials for microelectronics cooling applications 2016 ,		3

11	The effects of graphene-based films as heat spreaders for thermal management in electronic packaging 2016 ,		3
10	Current status and progress of organic functionalization of CNT based thermal interface materials for electronics cooling applications 2017 ,		2
9	Reliability of carbon nanotube bumps for chip on glass application 2014 ,		2
8	Detecting single molecules inside a carbon nanotube to control molecular sequences using inertia trapping phenomenon. <i>Applied Physics Letters</i> , 2012 , 101, 133105	3.4	2
7	Experimental Microwave Complex Conductivity Extraction of Vertically Aligned MWCNT Bundles for Microwave Subwavelength Antenna Design. <i>Micromachines</i> , 2019 , 10,	3.3	1
6	Hotspot test structures for evaluating carbon nanotube microfin coolers and graphene-like heat spreaders 2016 ,		1
5	Thermal Characterization of Low-Dimensional Materials by Resistance Thermometers. <i>Materials</i> , 2019 , 12,	3.5	1
4	An overview of carbon nanotubes based interconnects for microelectronic packaging 2017 ,		1
3	A study of the heat transfer characteristics of the micro-channel heat sink 2009 ,		1
2	Double-Densified Vertically Aligned Carbon Nanotube Bundles for Application in 3D Integration High Aspect Ratio TSV Interconnects 2016 ,		1
1	Thermal Reliability Study of Polymer Bonded Carbon Nanotube Array Thermal Interface Materials 2018 ,		1