

Michael Edwards

List of Publications by Year in descending order

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Version: 2024-02-01

25
papers

608
citations

687220

13
h-index

839398

18
g-index

25
all docs

25
docs citations

25
times ranked

1062
citing authors

#	ARTICLE	IF	CITATIONS
1	Heat transfer modelling of flashlamp heating for automated tape placement of thermoplastic composites. Composites Part A: Applied Science and Manufacturing, 2021, 145, 106381.	3.8	10
2	Chemical vapor deposition grown graphene on Cu-Pt alloys. Materials Letters, 2017, 193, 255-258.	1.3	13
3	A flexible and stackable 3D interconnect system using growth-engineered carbon nanotube scaffolds. Flexible and Printed Electronics, 2017, 2, 025003.	1.5	6
4	Efficient surface modification of carbon nanotubes for fabricating high performance CNT based hybrid nanostructures. Carbon, 2017, 111, 402-410.	5.4	50
5	Embedded Fin-Like Metal/CNT Hybrid Structures for Flexible and Transparent Conductors. Small, 2016, 12, 1521-1526.	5.2	15
6	Two-dimensional hexagonal boron nitride as lateral heat spreader in electrically insulating packaging. Journal Physics D: Applied Physics, 2016, 49, 265501.	1.3	33
7	Controllable and fast synthesis of bilayer graphene by chemical vapor deposition on copper foil using a cold wall reactor. Chemical Engineering Journal, 2016, 304, 106-114.	6.6	13
8	Double-Densified Vertically Aligned Carbon Nanotube Bundles for Application in 3D Integration High Aspect Ratio TSV Interconnects. , 2016, , .		2
9	Enhanced cold wall CVD reactor growth of horizontally aligned single-walled carbon nanotubes. Electronic Materials Letters, 2016, 12, 329-337.	1.0	5
10	Vertically aligned CNT-Cu nano-composite material for stacked through-silicon-via interconnects. Nanotechnology, 2016, 27, 335705.	1.3	43
11	Functionalization mediates heat transport in graphene nanoflakes. Nature Communications, 2016, 7, 11281.	5.8	123
12	Characterization and simulation of liquid phase exfoliated graphene-based films for heat spreading applications. Carbon, 2016, 106, 195-201.	5.4	28
13	Synthesis and applications of two-dimensional hexagonal boron nitride in electronics manufacturing. Electronic Materials Letters, 2016, 12, 1-16.	1.0	67
14	Unusual tensile behaviour of fibre-reinforced indium matrix composite and its in-situ TEM straining observation. Acta Materialia, 2016, 104, 109-118.	3.8	13
15	Improved Heat Spreading Performance of Functionalized Graphene in Microelectronic Device Application. Advanced Functional Materials, 2015, 25, 4430-4435.	7.8	117
16	Flexible Multifunctionalized Carbon Nanotubes-Based Hybrid Nanowires. Advanced Functional Materials, 2015, 25, 4135-4143.	7.8	20
17	Thermo-mechanical simulations of SiC power modules with single and double sided cooling. , 2015, , .		5
18	Model verification of heat exchangers in a flow test rig. , 2015, , .		0

#	ARTICLE	IF	CITATIONS
19	The shear strength of nano-Ag sintered joints and the use of Ag interconnects in the design and manufacture of SiGe-based thermo-electric modules. Microelectronics Reliability, 2015, 55, 722-732.	0.9	10
20	Tape-Assisted Transfer of Carbon Nanotube Bundles for Through-Silicon-Via Applications. Journal of Electronic Materials, 2015, 44, 2898-2907.	1.0	21
21	Sn-3.0Ag-0.5Cu Nanocomposite Solder Reinforced With Bi ₂ Te ₃ Nanoparticles. IEEE Transactions on Components, Packaging and Manufacturing Technology, 2015, 5, 1186-1196.	1.4	1
22	Multiphysics study of RF/microwave planar devices: Effect of the input signal power. , 2014, , .		12
23	Modeling of SiC power modules with double sided cooling. , 2014, , .		1
24	The shear strength of nano-Ag solders and the use of Ag interconnects in the design and manufacture of SiGe-based thermo-electric modules. , 2014, , .		0
25	Thermo-mechanical modelling and design of SiGe-based thermo-electric modules for high temperature applications. , 2013, , .		0