Cheng-Te Lin

List of Publications by Year
in descending order

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246 papers	18,616 citations	16411 64 h-index	13727 129 g-index
248 all docs	248 docs citations	248 times ranked	21265 citing authors

#	Article	IF	Citations
1	Carbon nano-onions as a nanofiller for enhancing thermal conductivity of epoxy composites. Applied Nanoscience (Switzerland), 2023, 13, 483-491.	1.6	6
2	Natural Graphene Plasmonic <scp>Nanoâ€Resonators</scp> for Highly Active <scp>Surfaceâ€Enhanced</scp> Raman Scattering Platforms. Energy and Environmental Materials, 2023, 6, .	7.3	2
3	Enzyme-catalyzed deposition of polydopamine for amplifying the signal inhibition to a novel Prussian blue-nanocomposite and ultrasensitive electrochemical immunosensing. Journal of Materials Science and Technology, 2022, 102, 166-173.	5.6	10
4	Surface modification on copper particles toward graphene reinforced copper matrix composites for electrical engineering application. Journal of Alloys and Compounds, 2022, 891, 162058.	2.8	13
5	A Spiral Graphene Framework Containing Highly Ordered Graphene Microtubes for Polymer Composites with Superior <scp>Throughâ€Plane</scp> Thermal Conductivity. Chinese Journal of Chemistry, 2022, 40, 329-336.	2.6	11
6	Constructing Tanghulu-like Diamond@Silicon carbide nanowires for enhanced thermal conductivity of polymer composite. Composites Communications, 2022, 29, 101008.	3.3	16
7	Two-Dimensional Hexagonal Boron Nitride Nanosheets as Lateral Heat Spreader With High Thermal Conductivity. Frontiers in Materials, 2022, 8, .	1.2	7
8	Crystallization induced realignment of carbon fibers in a phase change material to achieve exceptional thermal transportation properties. Journal of Materials Chemistry A, 2022, 10, 593-601.	5.2	29
9	Robust composite film with high thermal conductivity and excellent mechanical properties by constructing a long-range ordered sandwich structure. Journal of Materials Chemistry A, 2022, 10, 9922-9931.	5.2	20
10	Chloroformâ€Assisted Rapid Growth of Vertical Graphene Array and Its Application in Thermal Interface Materials. Advanced Science, 2022, 9, e2200737.	5.6	17
11	Graphene-based electrochemical sensors for antibiotic detection in water, food and soil: A scientometric analysis in CiteSpace (2011â€“2021). Chemosphere, 2022, 297, 134127.	4.2	62
12	Rational design of graphene/polymer composites with excellent electromagnetic interference shielding effectiveness and high thermal conductivity: a mini review. Journal of Materials Science and Technology, 2022, 117, 238-250.	5.6	72
13	Flexible MXene/copper/cellulose nanofiber heat spreader films with enhanced thermal conductivity. Nanotechnology Reviews, 2022, 11, 1583-1591.	2.6	4
14	Relationship between graphene and pedosphere: A scientometric analysis. Chemosphere, 2022, 300, 134599.	4.2	17
15	Enhanced thermal transportation across an electrostatic self-assembly of black phosphorene and boron nitride nanosheets in flexible composite films. Nanoscale, 2022, 14, 9743-9753.	2.8	10
16	Enhanced thermal conductivity for polydimethylsiloxane composites with core-shell CFs@SiC filler. Composites Communications, 2022, 33, 101209.	3.3	17
17	Enhanced Electromagnetic Shielding and Thermal Conductive Properties of Polyolefin Composites with a Ti₃C₂T_x MXene/Graphene Framework Connected by a Hydrogen-Bonded Interface. ACS Nano, 2022, 16, 9254-9266.	7.3	54
18	Universal Principle for Large-Scale Production of a High-Quality Two-Dimensional Monolayer via Positive Charge-Driven Exfoliation. Journal of Physical Chemistry Letters, 2022, 13, 6597-6603.	2.1	6

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19	Layer-by-layer stacked graphene nanocoatings by Marangoni self-assembly for corrosion protection of stainless steel. Chinese Chemical Letters, 2021, 32, 501-505.	4.8	15
20	Hydrophilic modification of carbon nanotube to prepare a novel porous copper network-carbon nanotube/erythritol composite phase change material. Composite Interfaces, 2021, 28, 175-189.	1.3	11
21	Antifouling nanoporous diamond membrane for enhanced detection of dopamine in human serum. Journal of Materials Science, 2021, 56, 746-761.	1.7	15
22	Combining Alumina Particles with Three-Dimensional Alumina Foam for High Thermally Conductive Epoxy Composites. ACS Applied Polymer Materials, 2021, 3, 216-225.	2.0	45
23	Significant enhancement of corrosion resistance of stainless steel with nanostructured carbon coatings by substrate-catalytic CVD. Applied Nanoscience (Switzerland), 2021, 11, 725-733.	1.6	4
24	A novel modification to boron-doped diamond electrode for enhanced, selective detection of dopamine in human serum. Carbon, 2021, 171, 16-28.	5.4	64
25	Construction of Oriented Interconnected BNNS Skeleton by Selfâ€Growing CNTs Leading High Thermal Conductivity. Advanced Materials Interfaces, 2021, 8, 2001910.	1.9	11
26	Improving thermal conductivity of poly(vinyl alcohol) composites by using functionalized nanodiamond. Composites Communications, 2021, 23, 100596.	3.3	29
27	Multiscale Structural Modulation of Anisotropic Graphene Framework for Polymer Composites Achieving Highly Efficient Thermal Energy Management. Advanced Science, 2021, 8, 2003734.	5.6	108
28	Aluminum Borate/Boron Nitride Nanosheet Fibers for Enhancing the Thermal Conductivity of Polymer Composites. ACS Applied Nano Materials, 2021, 4, 2136-2142.	2.4	12
29	Intertwined Carbon Nanotubes and Ag Nanowires Constructed by Simple Solution Blending as Sensitive and Stable Chloramphenicol Sensors. Sensors, 2021, 21, 1220.	2.1	17
30	Ultrahigh-Aspect-Ratio Boron Nitride Nanosheets Leading to Superhigh In-Plane Thermal Conductivity of Foldable Heat Spreader. ACS Nano, 2021, 15, 6489-6498.	7.3	191
31	Stress induced carbon fiber orientation for enhanced thermal conductivity of epoxy composites. Composites Part B: Engineering, 2021, 208, 108599.	5.9	76
32	Rational design of high-performance thermal interface materials based on gold-nanocap-modified vertically aligned graphene architecture. Composites Communications, 2021, 24, 100621.	3.3	16
33	Development of a Phase Field Tool Coupling With Thermodynamic Data for Microstructure Evolution Simulation of Alloys in Nuclear Reactors. Frontiers in Materials, 2021, 8, .	1.2	1
34	Electrochemical Fingerprint Biosensor for Natural Indigo Dye Yielding Plants Analysis. Biosensors, 2021, 11, 155.	2.3	39
35	An Ultrasensitive Contact Lens Sensor Based On Selfâ€Assembly Graphene For Continuous Intraocular Pressure Monitoring. Advanced Functional Materials, 2021, 31, 2010991.	7.8	31
36	Surface Modification Using Polydopamine-Coated Liquid Metal Nanocapsules for Improving Performance of Graphene Paper-Based Thermal Interface Materials. Nanomaterials, 2021, 11, 1236.	1.9	17

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37	In-situ synthesis of graphene-like carbon encapsulated copper particles for reinforcing copper matrix composites. Materials and Design, 2021, 203, 109586.	3.3	11
38	Soft and Selfâ€Adhesive Thermal Interface Materials Based on Vertically Aligned, Covalently Bonded Graphene Nanowalls for Efficient Microelectronic Cooling. Advanced Functional Materials, 2021, 31, 2104062.	7.8	95
39	Constructing zebra skin structured graphene/copper composites with ultrahigh thermal conductivity. Composites Communications, 2021, 25, 100704.	3.3	10
40	Preparation of cassava fiber-iron nanoparticles composite for electrochemical determination of tea polyphenol. Journal of Food Measurement and Characterization, 2021, 15, 4711-4717.	1.6	7
41	Facile Graphene Transfer Using Commercially Available Liquid Bandage. ACS Applied Nano Materials, 2021, 4, 7272-7279.	2.4	6
42	Electroanalytical determination of vanillin using PdZn particles decorated ZnS fibers. Journal of Food Measurement and Characterization, 2021, 15, 4718-4725.	1.6	2
43	Tailoring Highly Ordered Graphene Framework in Epoxy for High-Performance Polymer-Based Heat Dissipation Plates. ACS Nano, 2021, 15, 12922-12934.	7.3	75
44	Early sex determination of Ginkgo biloba based on the differences in the electrocatalytic performance of extracted peroxidase. Bioelectrochemistry, 2021, 140, 107829.	2.4	12
45	Synergistic effect of carbon fiber and graphite on reducing thermal resistance of thermal interface materials. Composites Science and Technology, 2021, 212, 108883.	3.8	31
46	Analysis of coumarin in food and plant tissue without extraction based on voltammetry of microparticles. Journal of Food Measurement and Characterization, 2021, 15, 5439-5444.	1.6	13
47	Lightweight thermal interface materials based on hierarchically structured graphene paper with superior through-plane thermal conductivity. Chemical Engineering Journal, 2021, 419, 129609.	6.6	54
48	Black phosphorene-cellulose nanofiber hybrid paper as flexible heat spreader. 2D Materials, 2021, 8, 045029.	2.0	5
49	Unraveling the strong coupling between graphene/nickel interface and atmospheric adsorbates for versatile realistic applications. Carbon Trends, 2021, 2, 100013.	1.4	7
50	Properties of Diamonds and Their Application in Photodetectors. , 2021, , 1871-1896.		0
51	Constructing a three-dimensional nano-crystalline diamond network within polymer composites for enhanced thermal conductivity. Nanoscale, 2021, 13, 18657-18664.	2.8	9
52	A mini review: application of graphene paper in thermal interface materials. New Carbon Materials, 2021, 36, 930-938.	2.9	16
53	Enhanced Thermal Conductivity of Polymer Composite by Adding Fishbone-like Silicon Carbide. Nanomaterials, 2021, 11, 2891.	1.9	5
54	A Double-Deck Structure of Reduced Graphene Oxide Modified Porous Ti3C2Tx Electrode towards Ultrasensitive and Simultaneous Detection of Dopamine and Uric Acid. Biosensors, 2021, 11, 462.	2.3	15

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55	Surfactant-assisted fabrication of graphene frameworks endowing epoxy composites with superior thermal conductivity. Chinese Chemical Letters, 2020, 31, 244-248.	4.8	15
56	Constructing a â€œpea-pod-likeâ€•alumina-graphene binary architecture for enhancing thermal conductivity of epoxy composite. Chemical Engineering Journal, 2020, 381, 122690.	6.6	157
57	Flammability, thermal stability and mechanical properties of polyvinyl alcohol nanocomposites reinforced with delaminated Ti₃C₂T_x (MXene). Polymer Composites, 2020, 41, 210-218.	2.3	84
58	Construction of 3D interconnected diamond networks in Al-matrix composite for high-efficiency thermal management. Chemical Engineering Journal, 2020, 380, 122551.	6.6	49
59	Annealing temperature regulating the dispersity and composition of nickel-carbon nanoparticles for enhanced glucose sensing. Journal of Electroanalytical Chemistry, 2020, 859, 113827.	1.9	6
60	Efficient Thermal Transport Highway Construction Within Epoxy Matrix via Hybrid Carbon Fibers and Alumina Particles. ACS Omega, 2020, 5, 1170-1177.	1.6	39
61	Highly thermal conductive and electrical insulating polymer composites with boron nitride. Composites Part B: Engineering, 2020, 184, 107746.	5.9	142
62	Two-dimensional semiconducting Lu₂CT₂(T = F, OH) MXene with low work function and high carrier mobility. Nanoscale, 2020, 12, 3795-3802.	2.8	30
63	Active-powering pressure-sensing fabric devices. Journal of Materials Chemistry A, 2020, 8, 358-368.	5.2	21
64	Structural, mechanical and electronic properties of two-dimensional chlorine-terminated transition metal carbides and nitrides. Journal of Physics Condensed Matter, 2020, 32, 135302.	0.7	18
65	ZnO nanoflowers modified with RuO2 for enhancing acetone sensing performance. Nanotechnology, 2020, 31, 115502.	1.3	13
66	High Thermal Conductivity and Anisotropy Values of Aligned Graphite Flakes/Copper Foil Composites. Materials, 2020, 13, 46.	1.3	9
67	Thiolated poly(aspartic acid)-functionalized two-dimensional MoS₂, chitosan and bismuth film as a sensor platform for cadmium ion detection. RSC Advances, 2020, 10, 37989-37994.	1.7	1
68	Theoretical study on the electrical and mechanical properties of MXene multilayer structures through strain regulation. Chemical Physics Letters, 2020, 760, 137997.	1.2	13
69	A scalable polymer-free method for transferring graphene onto arbitrary surfaces. Carbon, 2020, 161, 479-485.	5.4	21
70	Continuous diamond-carbon nanotube foams as rapid heat conduction channels in composite phase change materials based on the stable hierarchical structure. Composites Part B: Engineering, 2020, 200, 108293.	5.9	44
71	Theoretical exploration on the vibrational and mechanical properties of M₃C₂/M₃C₂T₂ MXenes. International Journal of Quantum Chemistry, 2020, 120, e26409.	1.0	10
72	Electrochemical Voltammogram Recording for Identifying Varieties of Ornamental Plants. Micromachines, 2020, 11, 967.	1.4	20

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73	Thermal and corrosion behavior of Ti3C2/Copper composites. Composites Communications, 2020, 22, 100498.	3.3	16
74	Dually enhanced homogenous synthesis of molybdophosphate by hybridization chain reaction and enzyme nanotags for theÂelectrochemical bioassay of carcinoembryonic antigen. Mikrochimica Acta, 2020, 187, 361.	2.5	4
75	The application of molecular simulation in ash chemistry of coal. Chinese Journal of Chemical Engineering, 2020, 28, 2723-2732.	1.7	9
76	Highly thermally conductive polymer composites with barnacle-like nano-crystalline Diamond@Silicon carbide hybrid architecture. Composites Part B: Engineering, 2020, 198, 108167.	5.9	39
77	Pt nanodendrites with (111) crystalline facet as an efficient, stable and pH-universal catalyst for electrochemical hydrogen production. Chinese Chemical Letters, 2020, 31, 2478-2482.	4.8	11
78	Electrochemical Sex Determination of Dioecious Plants Using Polydopamine-Functionalized Graphene Sheets. Frontiers in Chemistry, 2020, 8, 92.	1.8	43
79	Enzymatic deposition of gold nanoparticles at vertically aligned carbon nanotubes for electrochemical stripping analysis and ultrasensitive immunosensing of carcinoembryonic antigen. Analyst, The, 2020, 145, 3073-3080.	1.7	7
80	Thermal CVD growth of graphene on copper particles targeting tungsten-copper composites with superior wear and arc ablation resistance properties. Diamond and Related Materials, 2020, 104, 107765.	1.8	10
81	A dense graphene monolith with poloxamer prefunctionalization enabling aqueous redispersion to obtain solubilized graphene sheets. Chinese Chemical Letters, 2020, 31, 2507-2511.	4.8	6
82	Infrageneric phylogenetics investigation of Chimonanthus based on electroactive compound profiles. Bioelectrochemistry, 2020, 133, 107455.	2.4	86
83	Macroscale Superlubricity Enabled by Grapheneâ€Coated Surfaces. Advanced Science, 2020, 7, 1903239.	5.6	64
84	Extremely high thermal conductivity of carbon fiber/epoxy with synergistic effect of MXenes by freeze-drying. Composites Communications, 2020, 19, 134-141.	3.3	81
85	Highly flexible few-layer Ti₃C₂ MXene/cellulose nanofiber heat-spreader films with enhanced thermal conductivity. New Journal of Chemistry, 2020, 44, 7186-7193.	1.4	38
86	Ultrasensitive micro/nanocrack-based graphene nanowall strain sensors derived from the substrate's Poisson's ratio effect. Journal of Materials Chemistry A, 2020, 8, 10310-10317.	5.2	28
87	Development of an electrochemical biosensor for phylogenetic analysis of Amaryllidaceae based on the enhanced electrochemical fingerprint recorded from plant tissue. Biosensors and Bioelectronics, 2020, 159, 112212.	5.3	66
88	Controllable formation of periodic wrinkles in Marangoni-driven self-assembled graphene film for sensitive strain detection. Science China Materials, 2020, 63, 1983-1992.	3.5	19
89	The dimensionality effect on phonon localization in graphene/hexagonal boron nitride superlattices. 2D Materials, 2020, 7, 035029.	2.0	15
90	Î²-Cyclodextrin-Immobilized Ni/Graphene Electrode for Electrochemical Enantiorecognition of Phenylalanine. Materials, 2020, 13, 777.	1.3	10

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91	3D Shapeable, Superior Electrically Conductive Cellulose Nanofibers/Ti ₃ C ₂ T _x MXene Aerogels/Epoxy Nanocomposites for Promising EMI Shielding. Research, 2020, 2020, 4093732.	2.8	124
92	Properties of Diamonds and Their Application in Photodetectors. , 2020, , 1-26.		0
93	First-principles study of magnetism in some novel MXene materials. RSC Advances, 2020, 10, 44430-44436.	1.7	11
94	High-quality graphene transfer via directional etching of metal substrates. Nanoscale, 2019, 11, 16001-16006.	2.8	11
95	Lycoris species identification and infrageneric relationship investigation via graphene enhanced electrochemical fingerprinting of pollen. Sensors and Actuators B: Chemical, 2019, 298, 126836.	4.0	75
96	Single-Step Formation of Ni Nanoparticle-Modified Grapheneâ€“Diamond Hybrid Electrodes for Electrochemical Glucose Detection. Sensors, 2019, 19, 2979.	2.1	18
97	Cauliflowerâ€like Platinum Particles Decorated Reduced Graphene Oxide for Sensitive Determination of Acetaminophen. Electroanalysis, 2019, 31, 1758-1768.	1.5	9
98	A Diamond Temperature Sensor Based on the Energy Level Shift of Nitrogen-Vacancy Color Centers. Nanomaterials, 2019, 9, 1576.	1.9	26
99	Cotton Candy-Templated Fabrication of Three-Dimensional Ceramic Pathway within Polymer Composite for Enhanced Thermal Conductivity. ACS Applied Materials & Interfaces, 2019, 11, 44700-44707.	4.0	74
100	Rational Design of Flexible Two-Dimensional MXenes with Multiple Functionalities. Chemical Reviews, 2019, 119, 11980-12031.	23.0	242
101	Metal-Level Thermally Conductive yet Soft Graphene Thermal Interface Materials. ACS Nano, 2019, 13, 11561-11571.	7.3	214
102	Sensitivity enhancement of potassium ion (K+) detection based on graphene field-effect transistors with surface plasma pretreatment. Sensors and Actuators B: Chemical, 2019, 285, 333-340.	4.0	40
103	An electrochemical method for plant species determination and classification based on fingerprinting petal tissue. Bioelectrochemistry, 2019, 129, 199-205.	2.4	71
104	Highly thermal conductive polymer composites via constructing micro-phragmites communis structured carbon fibers. Chemical Engineering Journal, 2019, 375, 121921.	6.6	115
105	Graphene foam-embedded epoxy composites with significant thermal conductivity enhancement. Nanoscale, 2019, 11, 17600-17606.	2.8	105
106	Enhanced Thermal Conductivity of Epoxy Composites Filled with 2D Transition Metal Carbides (MXenes) with Ultralow Loading. Scientific Reports, 2019, 9, 9135.	1.6	104
107	First-principles study of the electronic, optical and transport of few-layer semiconducting MXene. Computational Materials Science, 2019, 168, 137-143.	1.4	26
108	The effect of heat treatment time on the carbon-coated nickel nanoparticles modified boron-doped diamond composite electrode for non-enzymatic glucose sensing. Journal of Electroanalytical Chemistry, 2019, 841, 148-157.	1.9	9

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109	Carbon nanotube-Cu foam hybrid reinforcements in composite phase change materials with enhanced thermal conductivity. Materials and Design, 2019, 172, 107709.	3.3	56
110	All-carbon devices based on sp2-on-sp3 configuration. APL Materials, 2019, 7, .	2.2	29
111	Hierarchical Co3O4@NiMoO4 core-shell nanowires for chemiresistive sensing of xylene vapor. Mikrochimica Acta, 2019, 186, 222.	2.5	26
112	Tuning the Electrical Conductivity of Ti₂CO₂ MXene by Varying the Layer Thickness and Applying Strains. Journal of Physical Chemistry C, 2019, 123, 6802-6811.	1.5	49
113	Elucidation of heterogeneous graphene nucleation and growth through Cu surface engineering. Carbon, 2019, 147, 120-125.	5.4	5
114	Tuning the photoluminescence of large Ti3C2Tx MXene flakes. Ceramics International, 2019, 45, 11468-11474.	2.3	22
115	High-performance non-enzymatic glucose sensor based on Ni/Cu/boron-doped diamond electrode. Journal of Electroanalytical Chemistry, 2019, 841, 135-141.	1.9	28
116	High Oxidation Resistance of CVD Graphene-Reinforced Copper Matrix Composites. Nanomaterials, 2019, 9, 498.	1.9	16
117	Non-Enzymatic Glucose Sensor Based on Hierarchical Au/Ni/Boron-Doped Diamond Heterostructure Electrode for Improving Performances. Journal of the Electrochemical Society, 2019, 166, B373-B380.	1.3	17
118	A Paper-Like Inorganic Thermal Interface Material Composed of Hierarchically Structured Graphene/Silicon Carbide Nanorods. ACS Nano, 2019, 13, 1547-1554.	7.3	131
119	Element Replacement Approach by Reaction with Lewis Acidic Molten Salts to Synthesize Nanolaminated MAX Phases and MXenes. Journal of the American Chemical Society, 2019, 141, 4730-4737.	6.6	811
120	Graphene as a nanofiller for enhancing the tribological properties and thermal conductivity of base grease. RSC Advances, 2019, 9, 42481-42488.	1.7	13
121	Enhanced thermal conductivity of polyurethane composites via engineering small/large sizes interconnected boron nitride nanosheets. Composites Science and Technology, 2019, 170, 93-100.	3.8	160
122	High-Thermal-Transport-Channel Construction within Flexible Composites via the Welding of Boron Nitride Nanosheets. ACS Applied Nano Materials, 2019, 2, 360-368.	2.4	78
123	Thermal conductivity enhancement of phase change materials with 3D porous diamond foam for thermal energy storage. Applied Energy, 2019, 233-234, 208-219.	5.1	194
124	Delaminated Ti3C2Tx (MXene) for electrochemical carbendazim sensing. Materials Letters, 2019, 236, 412-415.	1.3	72
125	Voltammetric immunoassay of human IgG based on the release of cadmium(II) from CdS nanocrystals deposited on mesoporous silica nanospheres. Mikrochimica Acta, 2019, 186, 15.	2.5	5
126	Viscosity temperature properties from molecular dynamics simulation: The role of calcium oxide, sodium oxide and ferrous oxide. Fuel, 2019, 237, 163-169.	3.4	28

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127	Effect of magnetic and electric coupling fields on micro- and nano- structure of carbon films in the CVD diamond process and their electron field emission property. Materials Research Express, 2018, 5, 035009.	0.8	7
128	Highly stable and regenerative grapheneâ€"diamond hybrid electrochemical biosensor for fouling target dopamine detection. Biosensors and Bioelectronics, 2018, 111, 117-123.	5.3	112
129	Square wave voltammetric quantitative determination of flavonoid luteolin in peanut hulls and Perilla based on Au NPs loaded boron nitride nanosheets. Journal of Electroanalytical Chemistry, 2018, 817, 128-133.	1.9	35
130	Boron nitride nanosheet nanofluids for enhanced thermal conductivity. Nanoscale, 2018, 10, 13004-13010.	2.8	54
131	Coal ash fusion properties from molecular dynamics simulation: the role of calcium oxide. Fuel, 2018, 216, 760-767.	3.4	35
132	A solid-state electrochemical sensing platform based on a supramolecular hydrogel. Sensors and Actuators B: Chemical, 2018, 262, 326-333.	4.0	41
133	In situ TEM observation of rebonding on fractured silicon carbide. Nanoscale, 2018, 10, 6261-6269.	2.8	37
134	Defects regulating of graphene ink for electrochemical determination of ascorbic acid, dopamine and uric acid. Talanta, 2018, 180, 248-253.	2.9	124
135	Chemical vapor deposition growth of scalable monolayer polycrystalline graphene films with millimeter-sized domains. Materials Letters, 2018, 215, 259-262.	1.3	18
136	Abnormal grain growth of UO2 with pores in the final stage of sintering: A phase field study. Computational Materials Science, 2018, 145, 24-34.	1.4	7
137	A glassy carbon electrode modified with N-doped carbon dots for improved detection of hydrogen peroxide and paracetamol. Mikrochimica Acta, 2018, 185, 87.	2.5	80
138	Anisotropic thermal conductive properties of cigarette filter-templated graphene/epoxy composites. RSC Advances, 2018, 8, 1065-1070.	1.7	29
139	Electrochemical antioxidant screening based on a chitosan hydrogel. Bioelectrochemistry, 2018, 121, 7-10.	2.4	43
140	Enhanced thermal conductivity of epoxy composites filled with tetrapod-shaped ZnO. RSC Advances, 2018, 8, 12337-12343.	1.7	41
141	Long-term stability of Au nanoparticle-anchored porous boron-doped diamond hybrid electrode for enhanced dopamine detection. Electrochimica Acta, 2018, 271, 84-91.	2.6	61
142	Hall effect biosensors with ultraclean graphene film for improved sensitivity of label-free DNA detection. Biosensors and Bioelectronics, 2018, 99, 85-91.	5.3	60
143	A theoretical investigation and synthesis of layered ternary carbide system U-Al-C. Ceramics International, 2018, 44, 1646-1652.	2.3	11
144	Nickel-induced transformation of diamond into graphite and carbon nanotubes and the electron field emission properties of resulting composite films. Applied Surface Science, 2018, 428, 264-271.	3.1	15

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145	Large-area self-assembled reduced graphene oxide/electrochemically exfoliated graphene hybrid films for transparent electrothermal heaters. Applied Surface Science, 2018, 435, 809-814.	3.1	77
146	Thermal conductivity and mechanical properties of flake graphite/copper composite with a boron carbide-boron nano-layer on graphite surface. Composites Part A: Applied Science and Manufacturing, 2018, 106, 42-51.	3.8	58
147	Direct formation of wafer-scale single-layer graphene films on the rough surface substrate by PECVD. Carbon, 2018, 129, 456-461.	5.4	60
148	In Situ High-Pressure X-ray Diffraction and Raman Spectroscopy Study of Ti3C2Tx MXene. Nanoscale Research Letters, 2018, 13, 343.	3.1	67
149	Electrochemical Enantiomer Recognition Based on sp3-to-sp2 Converted Regenerative Graphene/Diamond Electrode. Nanomaterials, 2018, 8, 1050.	1.9	11
150	Highly flexible biodegradable cellulose nanofiber/graphene heat-spreader films with improved mechanical properties and enhanced thermal conductivity. Journal of Materials Chemistry C, 2018, 6, 12739-12745.	2.7	69
151	Graphene-Based Thermal Interface Materials: An Application-Oriented Perspective on Architecture Design. Polymers, 2018, 10, 1201.	2.0	37
152	CVD Synthesis of Monodisperse Graphene/Cu Microparticles with High Corrosion Resistance in Cu Etchant. Materials, 2018, 11, 1459.	1.3	9
153	A novel porous Mo₃N₂/MoO₃ hybrid nanobelt as supercapacitor electrode material. Nano Futures, 2018, 2, 045001.	1.0	10
154	Effective thermal transport highway construction within dielectric polymer composites via a vacuum-assisted infiltration method. Journal of Materials Chemistry C, 2018, 6, 6494-6501.	2.7	57
155	First-principles study on the electrical and thermal properties of the semiconducting Sc₃(CN)F₂ MXene. RSC Advances, 2018, 8, 22452-22459.	1.7	24
156	Highly Sensitive and Selective Potassium Ion Detection Based on Graphene Hall Effect Biosensors. Materials, 2018, 11, 399.	1.3	17
157	Label-Free Electrochemical Detection of Vanillin through Low-Defect Graphene Electrodes Modified with Au Nanoparticles. Materials, 2018, 11, 489.	1.3	20
158	Enhanced electrochemical voltammetric fingerprints for plant taxonomic sensing. Biosensors and Bioelectronics, 2018, 120, 102-107.	5.3	67
159	Effects of Different Surface Functionalization and Doping on the Electronic Transport Properties of M₂CT_xâ€“M₂CO₂ Heterojunction Devices. Journal of Physical Chemistry C, 2018, 122, 14908-14917.	1.5	18
160	Graphene size-dependent modulation of graphene frameworks contributing to the superior thermal conductivity of epoxy composites. Journal of Materials Chemistry A, 2018, 6, 12091-12097.	5.2	88
161	Macroporous diamond foam: A novel design of 3D interconnected heat conduction network for thermal management. Materials and Design, 2018, 156, 32-41.	3.3	31
162	New Deformation-Induced Nanostructure in Silicon. Nano Letters, 2018, 18, 4611-4617.	4.5	182

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163	Advances in graphene-based polymer composites with high thermal conductivity. Veruscript Functional Nanomaterials, 2018, 2, 1-17.	0.2	14
164	An ultrathin high-performance heat spreader fabricated with hydroxylated boron nitride nanosheets. 2D Materials, 2017, 4, 025047.	2.0	145
165	In situ formation of a cellular graphene framework in thermoplastic composites leading to superior thermal conductivity. Journal of Materials Chemistry A, 2017, 5, 6164-6169.	5.2	149
166	High quality graphene films with a clean surface prepared by an UV/ozone assisted transfer process. Journal of Materials Chemistry C, 2017, 5, 1880-1884.	2.7	54
167	Enhanced thermal properties of poly(vinylidene fluoride) composites with ultrathin nanosheets of MXene. RSC Advances, 2017, 7, 20494-20501.	1.7	242
168	A self-powered high-performance graphene/silicon ultraviolet photodetector with ultra-shallow junction: breaking the limit of silicon?. Npj 2D Materials and Applications, 2017, 1, .	3.9	211
169	Structures and Mechanical Properties of CH₄, SO₂, and H₂S Hydrates from Density Function Theory Calculations. Chemistry Letters, 2017, 46, 1141-1144.	0.7	12
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