

Cheng-Te Lin

List of Publications by Year in Descending Order

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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.

235
papers

12,767
citations

51
h-index

108
g-index

248
ext. papers

15,536
ext. citations

7.7
avg, IF

6.53
L-index

#	Paper	IF	Citations
235	Crystallization induced realignment of carbon fibers in a phase change material to achieve exceptional thermal transportation properties. <i>Journal of Materials Chemistry A</i> , 2022 , 10, 593-601	13	4
234	Constructing Tanghulu-like Diamond@Silicon carbide nanowires for enhanced thermal conductivity of polymer composite. <i>Composites Communications</i> , 2022 , 29, 101008	6.7	4
233	Enzyme-catalyzed deposition of polydopamine for amplifying the signal inhibition to a novel Prussian blue-nanocomposite and ultrasensitive electrochemical immunosensing. <i>Journal of Materials Science and Technology</i> , 2022 , 102, 166-173	9.1	3
232	Surface modification on copper particles toward graphene reinforced copper matrix composites for electrical engineering application. <i>Journal of Alloys and Compounds</i> , 2022 , 891, 162058	5.7	1
231	Chloroform-Assisted Rapid Growth of Vertical Graphene Array and Its Application in Thermal Interface Materials.. <i>Advanced Science</i> , 2022 , e2200737	13.6	3
230	Graphene-based electrochemical sensors for antibiotic detection in water, food and soil: A scientometric analysis in CiteSpace (2011-2021).. <i>Chemosphere</i> , 2022 , 297, 134127	8.4	12
229	Rational design of graphene/polymer composites with excellent electromagnetic interference shielding effectiveness and high thermal conductivity: a mini review. <i>Journal of Materials Science and Technology</i> , 2022 , 117, 238-250	9.1	2
228	Flexible MXene/copper/cellulose nanofiber heat spreader films with enhanced thermal conductivity. <i>Nanotechnology Reviews</i> , 2022 , 11, 1583-1591	6.3	0
227	Relationship between graphene and pedosphere: A scientometric analysis.. <i>Chemosphere</i> , 2022 , 300, 134599	8.4	4
226	A Double-Deck Structure of Reduced Graphene Oxide Modified Porous TiCT Electrode towards Ultrasensitive and Simultaneous Detection of Dopamine and Uric Acid. <i>Biosensors</i> , 2021 , 11,	5.9	3
225	Constructing a three-dimensional nano-crystalline diamond network within polymer composites for enhanced thermal conductivity. <i>Nanoscale</i> , 2021 , 13, 18657-18664	7.7	1
224	A mini review: application of graphene paper in thermal interface materials. <i>New Carbon Materials</i> , 2021 , 36, 930-938	4.4	5
223	Ultra-high-Aspect-Ratio Boron Nitride Nanosheets Leading to Superhigh In-Plane Thermal Conductivity of Foldable Heat Spreader. <i>ACS Nano</i> , 2021 , 15, 6489-6498	16.7	60
222	Stress induced carbon fiber orientation for enhanced thermal conductivity of epoxy composites. <i>Composites Part B: Engineering</i> , 2021 , 208, 108599	10	27
221	Rational design of high-performance thermal interface materials based on gold-nanocap-modified vertically aligned graphene architecture. <i>Composites Communications</i> , 2021 , 24, 100621	6.7	9
220	Electrochemical Fingerprint Biosensor for Natural Indigo Dye Yielding Plants Analysis. <i>Biosensors</i> , 2021 , 11,	5.9	7
219	An Ultrasensitive Contact Lens Sensor Based On Self-Assembly Graphene For Continuous Intraocular Pressure Monitoring. <i>Advanced Functional Materials</i> , 2021 , 31, 2010991	15.6	9

218	Surface Modification Using Polydopamine-Coated Liquid Metal Nanocapsules for Improving Performance of Graphene Paper-Based Thermal Interface Materials. <i>Nanomaterials</i> , 2021 , 11,	5.4	6
217	In-situ synthesis of graphene-like carbon encapsulated copper particles for reinforcing copper matrix composites. <i>Materials and Design</i> , 2021 , 203, 109586	8.1	4
216	Soft and Self-Adhesive Thermal Interface Materials Based on Vertically Aligned, Covalently Bonded Graphene Nanowalls for Efficient Microelectronic Cooling. <i>Advanced Functional Materials</i> , 2021 , 31, 2104062	15.6	25
215	Constructing zebra skin structured graphene/copper composites with ultrahigh thermal conductivity. <i>Composites Communications</i> , 2021 , 25, 100704	6.7	3
214	Preparation of cassava fiber-iron nanoparticles composite for electrochemical determination of tea polyphenol. <i>Journal of Food Measurement and Characterization</i> , 2021 , 15, 4711-4717	2.8	4
213	Facile Graphene Transfer Using Commercially Available Liquid Bandage. <i>ACS Applied Nano Materials</i> , 2021 , 4, 7272-7279	5.6	1
212	Electroanalytical determination of vanillin using PdZn particles decorated ZnS fibers. <i>Journal of Food Measurement and Characterization</i> , 2021 , 15, 4718-4725	2.8	0
211	Layer-by-layer stacked graphene nanocoatings by Marangoni self-assembly for corrosion protection of stainless steel. <i>Chinese Chemical Letters</i> , 2021 , 32, 501-505	8.1	6
210	Hydrophilic modification of carbon nanotube to prepare a novel porous copper network-carbon nanotube/erythritol composite phase change material. <i>Composite Interfaces</i> , 2021 , 28, 175-189	2.3	5
209	Antifouling nanoporous diamond membrane for enhanced detection of dopamine in human serum. <i>Journal of Materials Science</i> , 2021 , 56, 746-761	4.3	8
208	Combining Alumina Particles with Three-Dimensional Alumina Foam for High Thermally Conductive Epoxy Composites. <i>ACS Applied Polymer Materials</i> , 2021 , 3, 216-225	4.3	14
207	Significant enhancement of corrosion resistance of stainless steel with nanostructured carbon coatings by substrate-catalytic CVD. <i>Applied Nanoscience (Switzerland)</i> , 2021 , 11, 725-733	3.3	1
206	A novel modification to boron-doped diamond electrode for enhanced, selective detection of dopamine in human serum. <i>Carbon</i> , 2021 , 171, 16-28	10.4	30
205	Construction of Oriented Interconnected BNNS Skeleton by Self-Growing CNTs Leading High Thermal Conductivity. <i>Advanced Materials Interfaces</i> , 2021 , 8, 2001910	4.6	3
204	Improving thermal conductivity of poly(vinyl alcohol) composites by using functionalized nanodiamond. <i>Composites Communications</i> , 2021 , 23, 100596	6.7	14
203	Multiscale Structural Modulation of Anisotropic Graphene Framework for Polymer Composites Achieving Highly Efficient Thermal Energy Management. <i>Advanced Science</i> , 2021 , 8, 2003734	13.6	38
202	Aluminum Borate/Boron Nitride Nanosheet Fibers for Enhancing the Thermal Conductivity of Polymer Composites. <i>ACS Applied Nano Materials</i> , 2021 , 4, 2136-2142	5.6	5
201	Intertwined Carbon Nanotubes and Ag Nanowires Constructed by Simple Solution Blending as Sensitive and Stable Chloramphenicol Sensors. <i>Sensors</i> , 2021 , 21,	3.8	4

200	Tailoring Highly Ordered Graphene Framework in Epoxy for High-Performance Polymer-Based Heat Dissipation Plates. <i>ACS Nano</i> , 2021 ,	16.7	21
199	Early sex determination of Ginkgo biloba based on the differences in the electrocatalytic performance of extracted peroxidase. <i>Bioelectrochemistry</i> , 2021 , 140, 107829	5.6	4
198	Synergistic effect of carbon fiber and graphite on reducing thermal resistance of thermal interface materials. <i>Composites Science and Technology</i> , 2021 , 212, 108883	8.6	14
197	Analysis of coumarin in food and plant tissue without extraction based on voltammetry of microparticles. <i>Journal of Food Measurement and Characterization</i> , 2021 , 15, 5439	2.8	4
196	Lightweight thermal interface materials based on hierarchically structured graphene paper with superior through-plane thermal conductivity. <i>Chemical Engineering Journal</i> , 2021 , 419, 129609	14.7	22
195	Black phosphorene-cellulose nanofiber hybrid paper as flexible heat spreader. <i>2D Materials</i> , 2021 , 8, 045029	5.9	2
194	Unraveling the strong coupling between graphene/nickel interface and atmospheric adsorbates for versatile realistic applications. <i>Carbon Trends</i> , 2021 , 2, 100013	0	4
193	Properties of Diamonds and Their Application in Photodetectors 2021 , 1871-1896		
192	Electrochemical Voltammogram Recording for Identifying Varieties of Ornamental Plants. <i>Micromachines</i> , 2020 , 11,	3.3	9
191	Thermal and corrosion behavior of Ti3C2/Copper composites. <i>Composites Communications</i> , 2020 , 22, 100498	6.7	8
190	Dually enhanced homogenous synthesis of molybdophosphate by hybridization chain reaction and enzyme nanotags for the electrochemical bioassay of carcinoembryonic antigen. <i>Mikrochimica Acta</i> , 2020 , 187, 361	5.8	3
189	The application of molecular simulation in ash chemistry of coal. <i>Chinese Journal of Chemical Engineering</i> , 2020 , 28, 2723-2732	3.2	1
188	Highly thermally conductive polymer composites with barnacle-like nano-crystalline Diamond@Silicon carbide hybrid architecture. <i>Composites Part B: Engineering</i> , 2020 , 198, 108167	10	21
187	Pt nanodendrites with (111) crystalline facet as an efficient, stable and pH-universal catalyst for electrochemical hydrogen production. <i>Chinese Chemical Letters</i> , 2020 , 31, 2478-2482	8.1	6
186	Electrochemical Sex Determination of Dioecious Plants Using Polydopamine-Functionalized Graphene Sheets. <i>Frontiers in Chemistry</i> , 2020 , 8, 92	5	13
185	Enzymatic deposition of gold nanoparticles at vertically aligned carbon nanotubes for electrochemical stripping analysis and ultrasensitive immunosensing of carcinoembryonic antigen. <i>Analyst, The</i> , 2020 , 145, 3073-3080	5	4
184	Thermal CVD growth of graphene on copper particles targeting tungsten-copper composites with superior wear and arc ablation resistance properties. <i>Diamond and Related Materials</i> , 2020 , 104, 107765	3.5	6
183	A dense graphene monolith with poloxamer prefunctionalization enabling aqueous redispersion to obtain solubilized graphene sheets. <i>Chinese Chemical Letters</i> , 2020 , 31, 2507-2511	8.1	4

182	Infrageneric phylogenetics investigation of <i>Chimonanthus</i> based on electroactive compound profiles. <i>Bioelectrochemistry</i> , 2020 , 133, 107455	5.6	26
181	Macroscale Superlubricity Enabled by Graphene-Coated Surfaces. <i>Advanced Science</i> , 2020 , 7, 1903239	13.6	39
180	Extremely high thermal conductivity of carbon fiber/epoxy with synergistic effect of MXenes by freeze-drying. <i>Composites Communications</i> , 2020 , 19, 134-141	6.7	45
179	Highly flexible few-layer Ti ₃ C ₂ MXene/cellulose nanofiber heat-spreader films with enhanced thermal conductivity. <i>New Journal of Chemistry</i> , 2020 , 44, 7186-7193	3.6	25
178	Ultrasensitive micro/nanocrack-based graphene nanowall strain sensors derived from the substrate's Poisson's ratio effect. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 10310-10317	13	15
177	Development of an electrochemical biosensor for phylogenetic analysis of Amaryllidaceae based on the enhanced electrochemical fingerprint recorded from plant tissue. <i>Biosensors and Bioelectronics</i> , 2020 , 159, 112212	11.8	20
176	First-principles study of magnetism in some novel MXene materials.. <i>RSC Advances</i> , 2020 , 10, 44430-44436	3.7	1
175	β-Cyclodextrin-Immobilized Ni/Graphene Electrode for Electrochemical Enantio recognition of Phenylalanine. <i>Materials</i> , 2020 , 13,	3.5	4
174	3D Shapeable, Superior Electrically Conductive Cellulose Nanofibers/TiCT MXene Aerogels/Epoxy Nanocomposites for Promising EMI Shielding. <i>Research</i> , 2020 , 2020, 4093732	7.8	63
173	Properties of Diamonds and Their Application in Photodetectors 2020 , 1-26		
172	Controllable formation of periodic wrinkles in Marangoni-driven self-assembled graphene film for sensitive strain detection. <i>Science China Materials</i> , 2020 , 63, 1983-1992	7.1	5
171	The dimensionality effect on phonon localization in graphene/hexagonal boron nitride superlattices. <i>2D Materials</i> , 2020 , 7, 035029	5.9	9
170	Construction of 3D interconnected diamond networks in Al-matrix composite for high-efficiency thermal management. <i>Chemical Engineering Journal</i> , 2020 , 380, 122551	14.7	33
169	Annealing temperature regulating the dispersity and composition of nickel-carbon nanoparticles for enhanced glucose sensing. <i>Journal of Electroanalytical Chemistry</i> , 2020 , 859, 113827	4.1	2
168	Efficient Thermal Transport Highway Construction Within Epoxy Matrix via Hybrid Carbon Fibers and Alumina Particles. <i>ACS Omega</i> , 2020 , 5, 1170-1177	3.9	18
167	Highly thermal conductive and electrical insulating polymer composites with boron nitride. <i>Composites Part B: Engineering</i> , 2020 , 184, 107746	10	78
166	Two-dimensional semiconducting LuCT (T = F, OH) MXene with low work function and high carrier mobility. <i>Nanoscale</i> , 2020 , 12, 3795-3802	7.7	14
165	Active-powering pressure-sensing fabric devices. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 358-368	13	15

164	Structural, mechanical and electronic properties of two-dimensional chlorine-terminated transition metal carbides and nitrides. <i>Journal of Physics Condensed Matter</i> , 2020 , 32, 135302	1.8	6
163	ZnO nanoflowers modified with RuO for enhancing acetone sensing performance. <i>Nanotechnology</i> , 2020 , 31, 115502	3.4	9
162	Thiolated poly(aspartic acid)-functionalized two-dimensional MoS, chitosan and bismuth film as a sensor platform for cadmium ion detection.. <i>RSC Advances</i> , 2020 , 10, 37989-37994	3.7	
161	Theoretical study on the electrical and mechanical properties of MXene multilayer structures through strain regulation. <i>Chemical Physics Letters</i> , 2020 , 760, 137997	2.5	6
160	A scalable polymer-free method for transferring graphene onto arbitrary surfaces. <i>Carbon</i> , 2020 , 161, 479-485	10.4	8
159	Continuous diamond-carbon nanotube foams as rapid heat conduction channels in composite phase change materials based on the stable hierarchical structure. <i>Composites Part B: Engineering</i> , 2020 , 200, 108293	10	28
158	Theoretical exploration on the vibrational and mechanical properties of M3C2/M3C2T2 MXenes. <i>International Journal of Quantum Chemistry</i> , 2020 , 120, e26409	2.1	1
157	Surfactant-assisted fabrication of graphene frameworks endowing epoxy composites with superior thermal conductivity. <i>Chinese Chemical Letters</i> , 2020 , 31, 244-248	8.1	9
156	Constructing a pea-pod-like alumina-graphene binary architecture for enhancing thermal conductivity of epoxy composite. <i>Chemical Engineering Journal</i> , 2020 , 381, 122690	14.7	86
155	Flammability, thermal stability and mechanical properties of polyvinyl alcohol nanocomposites reinforced with delaminated Ti3C2Tx (MXene). <i>Polymer Composites</i> , 2020 , 41, 210-218	3	43
154	Metal-Level Thermally Conductive yet Soft Graphene Thermal Interface Materials. <i>ACS Nano</i> , 2019 , 13, 11561-11571	16.7	117
153	Sensitivity enhancement of potassium ion (K+) detection based on graphene field-effect transistors with surface plasma pretreatment. <i>Sensors and Actuators B: Chemical</i> , 2019 , 285, 333-340	8.5	29
152	An electrochemical method for plant species determination and classification based on fingerprinting petal tissue. <i>Bioelectrochemistry</i> , 2019 , 129, 199-205	5.6	21
151	Highly thermal conductive polymer composites via constructing micro-phragmites communis structured carbon fibers. <i>Chemical Engineering Journal</i> , 2019 , 375, 121921	14.7	67
150	Graphene foam-embedded epoxy composites with significant thermal conductivity enhancement. <i>Nanoscale</i> , 2019 , 11, 17600-17606	7.7	68
149	Enhanced Thermal Conductivity of Epoxy Composites Filled with 2D Transition Metal Carbides (MXenes) with Ultralow Loading. <i>Scientific Reports</i> , 2019 , 9, 9135	4.9	50
148	First-principles study of the electronic, optical and transport of few-layer semiconducting MXene. <i>Computational Materials Science</i> , 2019 , 168, 137-143	3.2	11
147	The effect of heat treatment time on the carbon-coated nickel nanoparticles modified boron-doped diamond composite electrode for non-enzymatic glucose sensing. <i>Journal of Electroanalytical Chemistry</i> , 2019 , 841, 148-157	4.1	5

146	Carbon nanotube-Cu foam hybrid reinforcements in composite phase change materials with enhanced thermal conductivity. <i>Materials and Design</i> , 2019 , 172, 107709	8.1	35
145	All-carbon devices based on sp ² -on-sp ³ configuration. <i>APL Materials</i> , 2019 , 7, 030901	5.7	11
144	Hierarchical CoO@NiMoO core-shell nanowires for chemiresistive sensing of xylene vapor. <i>Mikrochimica Acta</i> , 2019 , 186, 222	5.8	14
143	Tuning the Electrical Conductivity of Ti ₂ CO ₂ MXene by Varying the Layer Thickness and Applying Strains. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 6802-6811	3.8	25
142	Elucidation of heterogeneous graphene nucleation and growth through Cu surface engineering. <i>Carbon</i> , 2019 , 147, 120-125	10.4	3
141	Tuning the photoluminescence of large Ti ₃ C ₂ T _x MXene flakes. <i>Ceramics International</i> , 2019 , 45, 11468-11474	14.74	11
140	High-performance non-enzymatic glucose sensor based on Ni/Cu/boron-doped diamond electrode. <i>Journal of Electroanalytical Chemistry</i> , 2019 , 841, 135-141	4.1	20
139	High Oxidation Resistance of CVD Graphene-Reinforced Copper Matrix Composites. <i>Nanomaterials</i> , 2019 , 9,	5.4	9
138	Non-Enzymatic Glucose Sensor Based on Hierarchical Au/Ni/Boron-Doped Diamond Heterostructure Electrode for Improving Performances. <i>Journal of the Electrochemical Society</i> , 2019 , 166, B373-B380	3.9	13
137	A Paper-Like Inorganic Thermal Interface Material Composed of Hierarchically Structured Graphene/Silicon Carbide Nanorods. <i>ACS Nano</i> , 2019 , 13, 1547-1554	16.7	93
136	High-quality graphene transfer via directional etching of metal substrates. <i>Nanoscale</i> , 2019 , 11, 16001-16006	16.06	7
135	Lycoris species identification and infrageneric relationship investigation via graphene enhanced electrochemical fingerprinting of pollen. <i>Sensors and Actuators B: Chemical</i> , 2019 , 298, 126836	8.5	35
134	Single-Step Formation of Ni Nanoparticle-Modified Graphene-Diamond Hybrid Electrodes for Electrochemical Glucose Detection. <i>Sensors</i> , 2019 , 19,	3.8	13
133	Cauliflower-like Platinum Particles Decorated Reduced Graphene Oxide for Sensitive Determination of Acetaminophen. <i>Electroanalysis</i> , 2019 , 31, 1758-1768	3	4
132	A Diamond Temperature Sensor Based on the Energy Level Shift of Nitrogen-Vacancy Color Centers. <i>Nanomaterials</i> , 2019 , 9,	5.4	11
131	Cotton Candy-Templated Fabrication of Three-Dimensional Ceramic Pathway within Polymer Composite for Enhanced Thermal Conductivity. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 44700-44707	9.5	41
130	Rational Design of Flexible Two-Dimensional MXenes with Multiple Functionalities. <i>Chemical Reviews</i> , 2019 , 119, 11980-12031	68.1	137
129	High Thermal Conductivity and Anisotropy Values of Aligned Graphite Flakes/Copper Foil Composites. <i>Materials</i> , 2019 , 13,	3.5	3

128	Element Replacement Approach by Reaction with Lewis Acidic Molten Salts to Synthesize Nanolaminated MAX Phases and MXenes. <i>Journal of the American Chemical Society</i> , 2019 , 141, 4730-4737	16.4	355
127	Graphene as a nanofiller for enhancing the tribological properties and thermal conductivity of base grease.. <i>RSC Advances</i> , 2019 , 9, 42481-42488	3.7	5
126	Enhanced thermal conductivity of polyurethane composites via engineering small/large sizes interconnected boron nitride nanosheets. <i>Composites Science and Technology</i> , 2019 , 170, 93-100	8.6	102
125	High-Thermal-Transport-Channel Construction within Flexible Composites via the Welding of Boron Nitride Nanosheets. <i>ACS Applied Nano Materials</i> , 2019 , 2, 360-368	5.6	54
124	Thermal conductivity enhancement of phase change materials with 3D porous diamond foam for thermal energy storage. <i>Applied Energy</i> , 2019 , 233-234, 208-219	10.7	132
123	Delaminated Ti ₃ C ₂ T _x (MXene) for electrochemical carbendazim sensing. <i>Materials Letters</i> , 2019 , 236, 412-415	3.3	42
122	Viscosity temperature properties from molecular dynamics simulation: The role of calcium oxide, sodium oxide and ferrous oxide. <i>Fuel</i> , 2019 , 237, 163-169	7.1	18
121	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. <i>Materials Research Express</i> , 2018 , 5, 035009	1.7	7
120	Highly stable and regenerative graphene-diamond hybrid electrochemical biosensor for fouling target dopamine detection. <i>Biosensors and Bioelectronics</i> , 2018 , 111, 117-123	11.8	80
119	Square wave voltammetric quantitative determination of flavonoid luteolin in peanut hulls and Perilla based on Au NPs loaded boron nitride nanosheets. <i>Journal of Electroanalytical Chemistry</i> , 2018 , 817, 128-133	4.1	20
118	Boron nitride nanosheet nanofluids for enhanced thermal conductivity. <i>Nanoscale</i> , 2018 , 10, 13004-13010	10.7	40
117	Coal ash fusion properties from molecular dynamics simulation: the role of calcium oxide. <i>Fuel</i> , 2018 , 216, 760-767	7.1	26
116	A solid-state electrochemical sensing platform based on a supramolecular hydrogel. <i>Sensors and Actuators B: Chemical</i> , 2018 , 262, 326-333	8.5	21
115	In situ TEM observation of rebonding on fractured silicon carbide. <i>Nanoscale</i> , 2018 , 10, 6261-6269	7.7	30
114	Defects regulating of graphene ink for electrochemical determination of ascorbic acid, dopamine and uric acid. <i>Talanta</i> , 2018 , 180, 248-253	6.2	64
113	Chemical vapor deposition growth of scalable monolayer polycrystalline graphene films with millimeter-sized domains. <i>Materials Letters</i> , 2018 , 215, 259-262	3.3	16
112	Abnormal grain growth of UO ₂ with pores in the final stage of sintering: A phase field study. <i>Computational Materials Science</i> , 2018 , 145, 24-34	3.2	5
111	A glassy carbon electrode modified with N-doped carbon dots for improved detection of hydrogen peroxide and paracetamol. <i>Mikrochimica Acta</i> , 2018 , 185, 87	5.8	41

110	Anisotropic thermal conductive properties of cigarette filter-templated graphene/epoxy composites.. <i>RSC Advances</i> , 2018 , 8, 1065-1070	3.7	19
109	Electrochemical antioxidant screening based on a chitosan hydrogel. <i>Bioelectrochemistry</i> , 2018 , 121, 7-10	5.6	19
108	Enhanced thermal conductivity of epoxy composites filled with tetrapod-shaped ZnO.. <i>RSC Advances</i> , 2018 , 8, 12337-12343	3.7	20
107	Long-term stability of Au nanoparticle-anchored porous boron-doped diamond hybrid electrode for enhanced dopamine detection. <i>Electrochimica Acta</i> , 2018 , 271, 84-91	6.7	44
106	Hall effect biosensors with ultraclean graphene film for improved sensitivity of label-free DNA detection. <i>Biosensors and Bioelectronics</i> , 2018 , 99, 85-91	11.8	46
105	A theoretical investigation and synthesis of layered ternary carbide system U-Al-C. <i>Ceramics International</i> , 2018 , 44, 1646-1652	5.1	8
104	Nickel-induced transformation of diamond into graphite and carbon nanotubes and the electron field emission properties of resulting composite films. <i>Applied Surface Science</i> , 2018 , 428, 264-271	6.7	13
103	First-principles study on the electrical and thermal properties of the semiconducting Sc(CN)F MXene.. <i>RSC Advances</i> , 2018 , 8, 22452-22459	3.7	14
102	Highly Sensitive and Selective Potassium Ion Detection Based on Graphene Hall Effect Biosensors. <i>Materials</i> , 2018 , 11,	3.5	13
101	Label-Free Electrochemical Detection of Vanillin through Low-Defect Graphene Electrodes Modified with Au Nanoparticles. <i>Materials</i> , 2018 , 11,	3.5	16
100	Enhanced electrochemical voltammetric fingerprints for plant taxonomic sensing. <i>Biosensors and Bioelectronics</i> , 2018 , 120, 102-107	11.8	27
99	Effects of Different Surface Functionalization and Doping on the Electronic Transport Properties of M2CTxM2CO2 Heterojunction Devices. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 14908-14917	3.8	15
98	Graphene size-dependent modulation of graphene frameworks contributing to the superior thermal conductivity of epoxy composites. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 12091-12097	13	67
97	Macroporous diamond foam: A novel design of 3D interconnected heat conduction network for thermal management. <i>Materials and Design</i> , 2018 , 156, 32-41	8.1	19
96	New Deformation-Induced Nanostructure in Silicon. <i>Nano Letters</i> , 2018 , 18, 4611-4617	11.5	141
95	Advances in graphene-based polymer composites with high thermal conductivity 2018 , 2, 1-17		11
94	Voltammetric immunoassay of human IgG based on the release of cadmium(II) from CdS nanocrystals deposited on mesoporous silica nanospheres. <i>Mikrochimica Acta</i> , 2018 , 186, 15	5.8	2
93	Large-area self-assembled reduced graphene oxide/electrochemically exfoliated graphene hybrid films for transparent electrothermal heaters. <i>Applied Surface Science</i> , 2018 , 435, 809-814	6.7	57

92	Thermal conductivity and mechanical properties of flake graphite/copper composite with a boron carbide-boron nano-layer on graphite surface. <i>Composites Part A: Applied Science and Manufacturing</i> , 2018 , 106, 42-51	8.4	39
91	Direct formation of wafer-scale single-layer graphene films on the rough surface substrate by PECVD. <i>Carbon</i> , 2018 , 129, 456-461	10.4	43
90	In Situ High-Pressure X-ray Diffraction and Raman Spectroscopy Study of TiCT MXene. <i>Nanoscale Research Letters</i> , 2018 , 13, 343	5	28
89	Electrochemical Enantiomer Recognition Based on sp ² -to-sp ³ Converted Regenerative Graphene/Diamond Electrode. <i>Nanomaterials</i> , 2018 , 8,	5.4	7
88	Highly flexible biodegradable cellulose nanofiber/graphene heat-spreader films with improved mechanical properties and enhanced thermal conductivity. <i>Journal of Materials Chemistry C</i> , 2018 , 6, 12739-12745	7.1	48
87	Graphene-Based Thermal Interface Materials: An Application-Oriented Perspective on Architecture Design. <i>Polymers</i> , 2018 , 10,	4.5	25
86	CVD Synthesis of Monodisperse Graphene/Cu Microparticles with High Corrosion Resistance in Cu Etchant. <i>Materials</i> , 2018 , 11,	3.5	6
85	A novel porous Mo ₃ N ₂ /MoO ₃ hybrid nanobelt as supercapacitor electrode material. <i>Nano Futures</i> , 2018 , 2, 045001	3.6	6
84	Effective thermal transport highway construction within dielectric polymer composites via a vacuum-assisted infiltration method. <i>Journal of Materials Chemistry C</i> , 2018 , 6, 6494-6501	7.1	35
83	An ultrathin high-performance heat spreader fabricated with hydroxylated boron nitride nanosheets. <i>2D Materials</i> , 2017 , 4, 025047	5.9	108
82	In situ formation of a cellular graphene framework in thermoplastic composites leading to superior thermal conductivity. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 6164-6169	13	120
81	High quality graphene films with a clean surface prepared by an UV/ozone assisted transfer process. <i>Journal of Materials Chemistry C</i> , 2017 , 5, 1880-1884	7.1	47
80	Enhanced thermal properties of poly(vinylidene fluoride) composites with ultrathin nanosheets of MXene. <i>RSC Advances</i> , 2017 , 7, 20494-20501	3.7	131
79	A self-powered high-performance graphene/silicon ultraviolet photodetector with ultra-shallow junction: breaking the limit of silicon?. <i>Npj 2D Materials and Applications</i> , 2017 , 1,	8.8	144
78	Structures and Mechanical Properties of CH ₄ , SO ₂ , and H ₂ S Hydrates from Density Function Theory Calculations. <i>Chemistry Letters</i> , 2017 , 46, 1141-1144	1.7	6
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