Cheng-Te Lin

List of Publications by Citations

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	Synthesis of large-area MoS2 atomic layers with chemical vapor deposition. *Advanced Materials*, **2012**, 24, 2320-5	24	2571
234	Highly efficient electrocatalytic hydrogen production by MoS(x) grown on graphene-protected 3D Ni foams. *Advanced Materials*, **2013**, 25, 756-60	24	625
233	Synthesis and transfer of single-layer transition metal disulfides on diverse surfaces. *Nano Letters*, **2013**, 13, 1852-7	11.5	524
232	Graphene-modified LiFePO□cathode for lithium ion battery beyond theoretical capacity. *Nature Communications*, **2013**, 4, 1687	17.4	393
231	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	16.4	355
230	Volumetric solar heating of nanofluids for direct vapor generation. *Nano Energy*, **2015**, 17, 290-301	17.1	276
229	Large-Area Ultrathin Graphene Films by Single-Step Marangoni Self-Assembly for Highly Sensitive Strain Sensing Application. *Advanced Functional Materials*, **2016**, 26, 1322-1329	15.6	270
228	Graphene/MoS(2) heterostructures for ultrasensitive detection of DNA hybridisation. *Advanced Materials*, **2014**, 26, 4838-44	24	251
227	A Two-Dimensional Zirconium Carbide by Selective Etching of Al3C3 from Nanolaminated Zr3Al3C5. *Angewandte Chemie - International Edition*, **2016**, 55, 5008-13	16.4	247
226	Synthesis and Electrochemical Properties of Two-Dimensional Hafnium Carbide. *ACS Nano*, **2017**, 11, 3841-3850	16.7	229
225	Opening an electrical band gap of bilayer graphene with molecular doping. *ACS Nano*, **2011**, 5, 7517-24	16.7	191
224	Layer-by-layer graphene/TCNQ stacked films as conducting anodes for organic solar cells. *ACS Nano* , **2012**, 6, 5031-9	16.7	187
223	Role of the surface effect on the structural, electronic and mechanical properties of the carbide MXenes. *Europhysics Letters*, **2015**, 111, 26007	1.6	161
222	Label-free detection of DNA hybridization using transistors based on CVD grown graphene. *Biosensors and Bioelectronics*, **2013**, 41, 103-9	11.8	155
221	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,	8.8	144
220	Controlled porous structures of graphene aerogels and their effect on supercapacitor performance. *Nanoscale*, **2015**, 7, 4386-93	7.7	143
219	Promising electron mobility and high thermal conductivity in Sc2CT2 (T = F, OH) MXenes. *Nanoscale*, **2016**, 8, 6110-7	7.7	141

218	New Deformation-Induced Nanostructure in Silicon. *Nano Letters*, **2018**, 18, 4611-4617	11.5	141
217	Rational Design of Flexible Two-Dimensional MXenes with Multiple Functionalities. *Chemical Reviews*, **2019**, 119, 11980-12031	68.1	137
216	Enhanced thermal conductivity for polyimide composites with a three-dimensional silicon carbide nanowire@graphene sheets filler. *Journal of Materials Chemistry A*, **2015**, 3, 4884-4891	13	135
215	Thermal conductivity enhancement of phase change materials with 3D porous diamond foam for thermal energy storage. *Applied Energy*, **2019**, 233-234, 208-219	10.7	132
214	Enhanced thermal properties of poly(vinylidene fluoride) composites with ultrathin nanosheets of MXene. *RSC Advances*, **2017**, 7, 20494-20501	3.7	131
213	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	13	120
212	Metal-Level Thermally Conductive yet Soft Graphene Thermal Interface Materials. *ACS Nano*, **2019**, 13, 11561-11571	16.7	117
211	The thermal and electrical properties of the promising semiconductor MXene Hf2CO2. *Scientific Reports*, **2016**, 6, 27971	4.9	115
210	An ultrathin high-performance heat spreader fabricated with hydroxylated boron nitride nanosheets. *2D Materials*, **2017**, 4, 025047	5.9	108
209	Enhanced thermal conductivity of polyurethane composites via engineering small/large sizes interconnected boron nitride nanosheets. *Composites Science and Technology*, **2019**, 170, 93-100	8.6	102
208	Intrinsic Structural, Electrical, Thermal, and Mechanical Properties of the Promising Conductor Mo2C MXene. *Journal of Physical Chemistry C*, **2016**, 120, 15082-15088	3.8	98
207	Extreme sensitivity of graphene photoconductivity to environmental gases. *Nature Communications* , **2012**, 3, 1228	17.4	94
206	Label-Free Electrical Detection of DNA Hybridization on Graphene using Hall Effect Measurements: Revisiting the Sensing Mechanism. *Advanced Functional Materials*, **2013**, 23, 2301-2307	15.6	94
205	A Paper-Like Inorganic Thermal Interface Material Composed of Hierarchically Structured Graphene/Silicon Carbide Nanorods. *ACS Nano*, **2019**, 13, 1547-1554	16.7	93
204	Constructing a pea-pod-like alumina-graphene binary architecture for enhancing thermal conductivity of epoxy composite. *Chemical Engineering Journal*, **2020**, 381, 122690	14.7	86
203	Graphene woven fabric-reinforced polyimide films with enhanced and anisotropic thermal conductivity. *Composites Part A: Applied Science and Manufacturing*, **2016**, 87, 290-296	8.4	81
202	Enhanced thermal conductivity of epoxy composites filled with silicon carbide nanowires. *Scientific Reports*, **2017**, 7, 2606	4.9	81
201	Highly stable and regenerative graphene-diamond hybrid electrochemical biosensor for fouling target dopamine detection. *Biosensors and Bioelectronics*, **2018**, 111, 117-123	11.8	80

200	Exceptionally high thermal and electrical conductivity of three-dimensional graphene-foam-based polymer composites. *RSC Advances*, **2016**, 6, 22364-22369	3.7	79
199	Highly thermal conductive and electrical insulating polymer composites with boron nitride. *Composites Part B: Engineering*, **2020**, 184, 107746	10	78
198	Self-Assembled Graphene Film as Low Friction Solid Lubricant in Macroscale Contact. *ACS Applied Materials & Interfaces*, **2017**, 9, 21554-21562	9.5	73
197	A Broadband Fluorographene Photodetector. *Advanced Materials*, **2017**, 29, 1700463	24	72
196	A flexible hydrophilic-modified graphene microprobe for neural and cardiac recording. *Nanomedicine: Nanotechnology, Biology, and Medicine*, **2013**, 9, 600-4	6	72
195	Graphene foam-embedded epoxy composites with significant thermal conductivity enhancement. *Nanoscale*, **2019**, 11, 17600-17606	7.7	68
194	Highly thermal conductive polymer composites via constructing micro-phragmites communis structured carbon fibers. *Chemical Engineering Journal*, **2019**, 375, 121921	14.7	67
193	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	13	67
192	Growth selectivity of hexagonal-boron nitride layers on Ni with various crystal orientations. *RSC Advances*, **2012**, 2, 111-115	3.7	66
191	Enhanced electrocatalytic activity of MoS(x) on TCNQ-treated electrode for hydrogen evolution reaction. *ACS Applied Materials & Interfaces*, **2014**, 6, 17679-85	9.5	65
190	Defects regulating of graphene ink for electrochemical determination of ascorbic acid, dopamine and uric acid. *Talanta*, **2018**, 180, 248-253	6.2	64
189	3D Shapeable, Superior Electrically Conductive Cellulose Nanofibers/TiCT MXene Aerogels/Epoxy Nanocomposites for Promising EMI Shielding. *Research*, **2020**, 2020, 4093732	7.8	63
188	Ultrahigh-Aspect-Ratio Boron Nitride Nanosheets Leading to Superhigh In-Plane Thermal Conductivity of Foldable Heat Spreader. *ACS Nano*, **2021**, 15, 6489-6498	16.7	60
187	Large-area self-assembled reduced graphene oxide/electrochemically exfoliated graphene hybrid films for transparent electrothermal heaters. *Applied Surface Science*, **2018**, 435, 809-814	6.7	57
186	A Two-Dimensional Zirconium Carbide by Selective Etching of Al3C3 from Nanolaminated Zr3Al3C5. *Angewandte Chemie*, **2016**, 128, 5092-5097	3.6	55
185	High-Thermal-Transport-Channel Construction within Flexible Composites via the Welding of Boron Nitride Nanosheets. *ACS Applied Nano Materials*, **2019**, 2, 360-368	5.6	54
184	Enhanced Thermal Conductivity of Epoxy Composites Filled with 2D Transition Metal Carbides (MXenes) with Ultralow Loading. *Scientific Reports*, **2019**, 9, 9135	4.9	50
183	Flexible transparent electrodes made of electrochemically exfoliated graphene sheets from low-cost graphite pieces. *Displays*, **2013**, 34, 315-319	3.4	48

182	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	7.1	48
181	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	7.1	47
180	Hall effect biosensors with ultraclean graphene film for improved sensitivity of label-free DNA detection. *Biosensors and Bioelectronics*, **2018**, 99, 85-91	11.8	46
179	Extremely high thermal conductivity of carbon fiber/epoxy with synergistic effect of MXenes by freeze-drying. *Composites Communications*, **2020**, 19, 134-141	6.7	45
178	Long-term stability of Au nanoparticle-anchored porous boron-doped diamond hybrid electrode for enhanced dopamine detection. *Electrochimica Acta*, **2018**, 271, 84-91	6.7	44
177	Flammability, thermal stability and mechanical properties of polyvinyl alcohol nanocomposites reinforced with delaminated Ti3C2Tx (MXene). *Polymer Composites*, **2020**, 41, 210-218	3	43
176	Direct formation of wafer-scale single-layer graphene films on the rough surface substrate by PECVD. *Carbon*, **2018**, 129, 456-461	10.4	43
175	Enhanced thermal conductivity for poly(vinylidene fluoride) composites with nano-carbon fillers. *RSC Advances*, **2016**, 6, 68357-68362	3.7	42
174	Delaminated Ti3C2Tx (MXene) for electrochemical carbendazim sensing. *Materials Letters*, **2019**, 236, 412-415	3.3	42
173	A glassy carbon electrode modified with N-doped carbon dots for improved detection of hydrogen peroxide and paracetamol. *Mikrochimica Acta*, **2018**, 185, 87	5.8	41
172	Cotton Candy-Templated Fabrication of Three-Dimensional Ceramic Pathway within Polymer Composite for Enhanced Thermal Conductivity. *ACS Applied Materials & Interfaces*, **2019**, 11, 44700-44707	9.5	41
171	Boron nitride nanosheet nanofluids for enhanced thermal conductivity. *Nanoscale*, **2018**, 10, 13004-13010	7.7	40
170	Macroscale Superlubricity Enabled by Graphene-Coated Surfaces. *Advanced Science*, **2020**, 7, 1903239	13.6	39
169	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	8.4	39
168	Multiscale Structural Modulation of Anisotropic Graphene Framework for Polymer Composites Achieving Highly Efficient Thermal Energy Management. *Advanced Science*, **2021**, 8, 2003734	13.6	38
167	In situ growth of metal nanoparticles on boron nitride nanosheets as highly efficient catalysts. *Journal of Materials Chemistry A*, **2016**, 4, 19107-19115	13	37
166	Carbon nanotube-Cu foam hybrid reinforcements in composite phase change materials with enhanced thermal conductivity. *Materials and Design*, **2019**, 172, 107709	8.1	35
165	Electronic and Transport Properties of Ti2CO2 MXene Nanoribbons. *Journal of Physical Chemistry C*, **2016**, 120, 17143-17152	3.8	35

164	Lycoris species identification and infrageneric relationship investigation via graphene enhanced electrochemical fingerprinting of pollen. *Sensors and Actuators B: Chemical*, **2019**, 298, 126836	8.5	35
163	High-Quality Monolithic Graphene Films via Laterally Stitched Growth and Structural Repair of Isolated Flakes for Transparent Electronics. *Chemistry of Materials*, **2017**, 29, 7808-7815	9.6	35
162	Effective thermal transport highway construction within dielectric polymer composites via a vacuum-assisted infiltration method. *Journal of Materials Chemistry C*, **2018**, 6, 6494-6501	7.1	35
161	Rapid growth of single-layer graphene on the insulating substrates by thermal CVD. *Applied Surface Science*, **2015**, 346, 41-45	6.7	34
160	Construction of 3D interconnected diamond networks in Al-matrix composite for high-efficiency thermal management. *Chemical Engineering Journal*, **2020**, 380, 122551	14.7	33
159	Electrical probing of submicroliter liquid using graphene strip transistors built on a nanopipette. *Small*, **2012**, 8, 43-6	11	31
158	In situ TEM observation of rebonding on fractured silicon carbide. *Nanoscale*, **2018**, 10, 6261-6269	7.7	30
157	Highly Conductive 3D Segregated Graphene Architecture in Polypropylene Composite with Efficient EMI Shielding. *Polymers*, **2017**, 9,	4.5	30
156	Graphene structure in carbon nanocones and nanodiscs. *Langmuir*, **2007**, 23, 12806-10	4	30
155	A novel modification to boron-doped diamond electrode for enhanced, selective detection of dopamine in human serum. *Carbon*, **2021**, 171, 16-28	10.4	30
154	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	8.5	29
153	A novel approach to fabricating a nanotwinned surface on a ternary nickel alloy. *Materials and Design*, **2016**, 106, 313-320	8.1	29
152	Negative differential resistance and rectifying performance induced by doped graphene nanoribbons p □n device. *Physics Letters, Section A: General, Atomic and Solid State Physics*, **2016**, 380, 1049-1055	2.3	28
151	Crystal structure and encapsulation dynamics of ice II-structured neon hydrate. *Proceedings of the National Academy of Sciences of the United States of America*, **2014**, 111, 10456-61	11.5	28
150	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	10	28
149	In Situ High-Pressure X-ray Diffraction and Raman Spectroscopy Study of TiCT MXene. *Nanoscale Research Letters*, **2018**, 13, 343	5	28
148	Enhanced electrochemical voltammetric fingerprints for plant taxonomic sensing. *Biosensors and Bioelectronics*, **2018**, 120, 102-107	11.8	27
147	Anisotropic electrical conduction of vertically-aligned single-walled carbon nanotube films. *Carbon*, **2011**, 49, 1446-1452	10.4	27

146	Stress induced carbon fiber orientation for enhanced thermal conductivity of epoxy composites. *Composites Part B: Engineering*, **2021**, 208, 108599	10	27
145	Solid-Phase Coalescence of Electrochemically Exfoliated Graphene Flakes into a Continuous Film on Copper. *Chemistry of Materials*, **2016**, 28, 3360-3366	9.6	27
144	Infrageneric phylogenetics investigation of Chimonanthus based on electroactive compound profiles. *Bioelectrochemistry*, **2020**, 133, 107455	5.6	26
143	Coal ash fusion properties from molecular dynamics simulation: the role of calcium oxide. *Fuel*, **2018**, 216, 760-767	7.1	26
142	In Situ TEM Study of Interaction between Dislocations and a Single Nanotwin under Nanoindentation. *ACS Applied Materials & Interfaces*, **2017**, 9, 29451-29456	9.5	26
141	Tuning the Electrical Conductivity of Ti2CO2 MXene by Varying the Layer Thickness and Applying Strains. *Journal of Physical Chemistry C*, **2019**, 123, 6802-6811	3.8	25
140	Highly flexible few-layer Ti3C2 MXene/cellulose nanofiber heat-spreader films with enhanced thermal conductivity. *New Journal of Chemistry*, **2020**, 44, 7186-7193	3.6	25
139	Effect of different sizes of graphene on thermal transport performance of graphene paper. *Composites Communications*, **2017**, 5, 46-53	6.7	25
138	Soft and Self-Adhesive Thermal Interface Materials Based on Vertically Aligned, Covalently Bonded Graphene Nanowalls for Efficient Microelectronic Cooling. *Advanced Functional Materials*, **2021**, 31, 2104062	15.6	25
137	Graphene-Based Thermal Interface Materials: An Application-Oriented Perspective on Architecture Design. *Polymers*, **2018**, 10,	4.5	25
136	New insight into the helium-induced damage in MAX phase Ti3AlC2 by first-principles studies. *Journal of Chemical Physics*, **2015**, 143, 114707	3.9	22
135	Efficient heat dissipation of photonic crystal microcavity by monolayer graphene. *ACS Nano*, **2013**, 7, 10818-24	16.7	22
134	Lightweight thermal interface materials based on hierarchically structured graphene paper with superior through-plane thermal conductivity. *Chemical Engineering Journal*, **2021**, 419, 129609	14.7	22
133	An electrochemical method for plant species determination and classification based on fingerprinting petal tissue. *Bioelectrochemistry*, **2019**, 129, 199-205	5.6	21
132	Exploring the potential of exfoliated ternary ultrathin Ti4AlN3 nanosheets for fabricating hybrid patterned polymer brushes. *RSC Advances*, **2015**, 5, 70339-70344	3.7	21
131	Highly thermally conductive polymer composites with barnacle-like nano-crystalline Diamond@Silicon carbide hybrid architecture. *Composites Part B: Engineering*, **2020**, 198, 108167	10	21
130	A solid-state electrochemical sensing platform based on a supramolecular hydrogel. *Sensors and Actuators B: Chemical*, **2018**, 262, 326-333	8.5	21
129	Epoxy composites filled with one-dimensional SiC nanowires/two-dimensional graphene nanoplatelets hybrid nanofillers. *RSC Advances*, **2014**, 4, 59409-59417	3.7	21

128	Tailoring Highly Ordered Graphene Framework in Epoxy for High-Performance Polymer-Based Heat Dissipation Plates. *ACS Nano*, **2021**,	16.7	21
127	High-performance non-enzymatic glucose sensor based on Ni/Cu/boron-doped diamond electrode. *Journal of Electroanalytical Chemistry*, **2019**, 841, 135-141	4.1	20
126	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	11.8	20
125	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	4.1	20
124	Enhanced thermal conductivity of epoxy composites filled with tetrapod-shaped ZnO.. *RSC Advances*, **2018**, 8, 12337-12343	3.7	20
123	Tailor Made Mie Scattering Color Filters Made by Size-Tunable Titanium Dioxide Particles. *Journal of Physical Chemistry C*, **2008**, 112, 2697-2702	3.8	20
122	Anisotropic thermal conductive properties of cigarette filter-templated graphene/epoxy composites.. *RSC Advances*, **2018**, 8, 1065-1070	3.7	19
121	Electrochemical antioxidant screening based on a chitosan hydrogel. *Bioelectrochemistry*, **2018**, 121, 7-10	5.6	19
120	Macroporous diamond foam: A novel design of 3D interconnected heat conduction network for thermal management. *Materials and Design*, **2018**, 156, 32-41	8.1	19
119	Quasi two-dimensional carbon nanobelts synthesized using a template method. *Carbon*, **2008**, 46, 741-746	6.4	19
118	Electronic structures and mechanical properties of Al(111)/ZrB2(0001) heterojunctions from first-principles calculation. *Molecular Physics*, **2015**, 113, 1794-1801	1.7	18
117	Ash Fusion Properties from Molecular Dynamics Simulation: Role of the Ratio of Silicon and Aluminum. *Energy & Fuels*, **2016**, 30, 2407-2413	4.1	18
116	Efficient Thermal Transport Highway Construction Within Epoxy Matrix via Hybrid Carbon Fibers and Alumina Particles. *ACS Omega*, **2020**, 5, 1170-1177	3.9	18
115	Viscosity temperature properties from molecular dynamics simulation: The role of calcium oxide, sodium oxide and ferrous oxide. *Fuel*, **2019**, 237, 163-169	7.1	18
114	Continuous fabrication platform for highly aligned polymer films **2014**, 02, 189-199		17
113	Chemical vapor deposition growth of scalable monolayer polycrystalline graphene films with millimeter-sized domains. *Materials Letters*, **2018**, 215, 259-262	3.3	16
112	Label-Free Electrochemical Detection of Vanillin through Low-Defect Graphene Electrodes Modified with Au Nanoparticles. *Materials*, **2018**, 11,	3.5	16
111	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	13	15

110	Effects of Different Surface Functionalization and Doping on the Electronic Transport Properties of M2CTx‧M2CO2 Heterojunction Devices. *Journal of Physical Chemistry C*, **2018**, 122, 14908-14917	3.8	15
109	Active-powering pressure-sensing fabric devices. *Journal of Materials Chemistry A*, **2020**, 8, 358-368	13	15
108	Theoretical investigations on helium trapping in the Zr/Ti2AlC interface. *Surface and Coatings Technology*, **2017**, 322, 19-24	4.4	14
107	Hierarchical CoO@NiMoO core-shell nanowires for chemiresistive sensing of xylene vapor. *Mikrochimica Acta*, **2019**, 186, 222	5.8	14
106	First-principles study on the electrical and thermal properties of the semiconducting Sc(CN)F MXene.. *RSC Advances*, **2018**, 8, 22452-22459	3.7	14
105	Optical properties of nitrogen-doped graphene thin films probed by spectroscopic ellipsometry. *Thin Solid Films*, **2014**, 571, 675-679	2.2	14
104	Mobility Enhancement in Carbon Nanotube Transistors by Screening Charge Impurity with Silica Nanoparticles. *Journal of Physical Chemistry C*, **2011**, 115, 6975-6979	3.8	14
103	Two-dimensional semiconducting LuCT (T = F, OH) MXene with low work function and high carrier mobility. *Nanoscale*, **2020**, 12, 3795-3802	7.7	14
102	Combining Alumina Particles with Three-Dimensional Alumina Foam for High Thermally Conductive Epoxy Composites. *ACS Applied Polymer Materials*, **2021**, 3, 216-225	4.3	14
101	Improving thermal conductivity of poly(vinyl alcohol) composites by using functionalized nanodiamond. *Composites Communications*, **2021**, 23, 100596	6.7	14
100	Synergistic effect of carbon fiber and graphite on reducing thermal resistance of thermal interface materials. *Composites Science and Technology*, **2021**, 212, 108883	8.6	14
99	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	3.9	13
98	Electrochemical Sex Determination of Dioecious Plants Using Polydopamine-Functionalized Graphene Sheets. *Frontiers in Chemistry*, **2020**, 8, 92	5	13
97	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	6.7	13
96	Microwave Irradiation-Assisted Exfoliation of Boron Nitride Nanosheets: A Platform for Loading High Density of Nanoparticles. *ChemistrySelect*, **2016**, 1, 1799-1803	1.8	13
95	A study of the growth-time effect on graphene layer number based on a Cu‧Ni bilayer catalyst system. *RSC Advances*, **2016**, 6, 23956-23960	3.7	13
94	Highly Sensitive and Selective Potassium Ion Detection Based on Graphene Hall Effect Biosensors. *Materials*, **2018**, 11,	3.5	13
93	Single-Step Formation of Ni Nanoparticle-Modified Graphene-Diamond Hybrid Electrodes for Electrochemical Glucose Detection. *Sensors*, **2019**, 19,	3.8	13

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91	Graphene-based electrochemical sensors for antibiotic detection in water, food and soil: A scientometric analysis in CiteSpace (2011-2021).. *Chemosphere*, **2022**, 297, 134127	8.4	12
90	First-principles study of the electronic, optical and transport of few-layer semiconducting MXene. *Computational Materials Science*, **2019**, 168, 137-143	3.2	11
89	All-carbon devices based on sp2-on-sp3 configuration. *APL Materials*, **2019**, 7, 030901	5.7	11
88	Tuning the photoluminescence of large Ti3C2Tx MXene flakes. *Ceramics International*, **2019**, 45, 11468-11474	5.1	11
87	A Diamond Temperature Sensor Based on the Energy Level Shift of Nitrogen-Vacancy Color Centers. *Nanomaterials*, **2019**, 9,	5.4	11
86	Phase stability, bonding and electrical conduction of amorphous carbon-added Sb films. *Scripta Materialia*, **2011**, 65, 950-953	5.6	11
85	Advances in graphene-based polymer composites with high thermal conductivity **2018**, 2, 1-17		11
84	Current rectification induced by V-doped and Sc-doped in Ti2CO2 devices. *Computational Materials Science*, **2017**, 138, 175-182	3.2	10
83	Cone-stacked carbon nanofibers with cone angle increasing along the longitudinal axis. *Carbon*, **2007**, 45, 411-415	10.4	10
82	Superior field emission performance of graphene/carbon nanofilament hybrids synthesized by electrochemical self-exfoliation. *Materials Letters*, **2017**, 205, 223-225	3.3	9
81	High Oxidation Resistance of CVD Graphene-Reinforced Copper Matrix Composites. *Nanomaterials*, **2019**, 9,	5.4	9
80	Electrochemical Voltammogram Recording for Identifying Varieties of Ornamental Plants. *Micromachines*, **2020**, 11,	3.3	9
79	Crystal structures and mechanical properties of M (Mg, Sr, Ba, La) x Ca 1− B 6 solid solution: A first principles study. *Ceramics International*, **2016**, 42, 6632-6639	5.1	9
78	The dimensionality effect on phonon localization in graphene/hexagonal boron nitride superlattices. *2D Materials*, **2020**, 7, 035029	5.9	9
77	ZnO nanoflowers modified with RuO for enhancing acetone sensing performance. *Nanotechnology*, **2020**, 31, 115502	3.4	9
76	Rational design of high-performance thermal interface materials based on gold-nanocap-modified vertically aligned graphene architecture. *Composites Communications*, **2021**, 24, 100621	6.7	9
75	An Ultrasensitive Contact Lens Sensor Based On Self-Assembly Graphene For Continuous Intraocular Pressure Monitoring. *Advanced Functional Materials*, **2021**, 31, 2010991	15.6	9

74	Structural, electronic and mechanical properties of (NbxTi1−x)2SC and (NbxZr1−x)2SC (0?x?1) from first-principles investigations. *Computational and Theoretical Chemistry*, **2016**, 1090, 58-66	2	9
73	Surfactant-assisted fabrication of graphene frameworks endowing epoxy composites with superior thermal conductivity. *Chinese Chemical Letters*, **2020**, 31, 244-248	8.1	9
72	Thermal and corrosion behavior of Ti3C2/Copper composites. *Composites Communications*, **2020**, 22, 100498	6.7	8
71	A theoretical investigation and synthesis of layered ternary carbide system U-Al-C. *Ceramics International*, **2018**, 44, 1646-1652	5.1	8
70	Field emission properties of the caterpillar-like structural carbon film grown by magnetic and electric fields coupling HFCVD. *Applied Surface Science*, **2017**, 423, 788-792	6.7	8
69	A scalable polymer-free method for transferring graphene onto arbitrary surfaces. *Carbon*, **2020**, 161, 479-485	10.4	8
68	Antifouling nanoporous diamond membrane for enhanced detection of dopamine in human serum. *Journal of Materials Science*, **2021**, 56, 746-761	4.3	8
67	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	1.7	7
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63	Electrochemical Fingerprint Biosensor for Natural Indigo Dye Yielding Plants Analysis. *Biosensors*, **2021**, 11,	5.9	7
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