

# Interface design of graphene/copper composites by mat

Materials and Design

144, 290-303

DOI: [10.1016/j.matdes.2018.02.038](https://doi.org/10.1016/j.matdes.2018.02.038)

Citation Report

#	ARTICLE	IF	CITATIONS
1	Control of the microstructure and mechanical properties of electrodeposited graphene/Ni composite. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018, 727, 133-139.	5.6	31
2	Enhanced Interfacial Bonding and Mechanical Properties of Graphene/Cu Composites: A Matrix-Alloying Method. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2018, 215, 1800104.	1.8	3
3	Graphene defect engineering for optimizing the interface and mechanical properties of graphene/copper composites. <i>Carbon</i> , 2018, 140, 112-123.	10.3	167
4	Oxygen plasma treatment for improving graphene distribution and mechanical properties of graphene/copper composites. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018, 735, 398-407.	5.6	43
5	CNTs/Cu-Ti composites fabrication through the synergistic reinforcement of CNTs and in situ generated nano-TiC particles. <i>Journal of Alloys and Compounds</i> , 2019, 770, 204-213.	5.5	47
6	Electronically Coupled SnO <sub>2</sub> Quantum Dots and Graphene for Efficient Nitrogen Reduction Reaction. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 31806-31815.	8.0	163
7	Ambient electrocatalytic nitrogen reduction on a MoO <sub>2</sub> /graphene hybrid: experimental and DFT studies. <i>Catalysis Science and Technology</i> , 2019, 9, 4248-4254.	4.1	87
8	TMOs@Gr/Cu composites: Microstructure and properties. <i>Materials and Design</i> , 2019, 182, 108030.	7.0	6
9	Nitrogen-Doped NiO Nanosheet Array for Boosted Electrocatalytic N <sub>2</sub> Reduction. <i>ChemCatChem</i> , 2019, 11, 4529-4536.	3.7	74
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11	Optimizing the interface bonding in Cu matrix composites by using functionalized carbon nanotubes and cold rolling. <i>Journal of Materials Research</i> , 2019, 34, 2600-2608.	2.6	10
12	Unusually high flexibility of graphene-Cu nanolayered composites under bending. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 17393-17399.	2.8	9
13	Boosted Electrocatalytic N <sub>2</sub> Reduction on Fluorine-Doped SnO <sub>2</sub> Mesoporous Nanosheets. <i>Inorganic Chemistry</i> , 2019, 58, 10424-10431.	4.0	84
14	Fabrication of CNT/Cu based composite with twice <i>in-situ</i> formation from powder preparation to sintering. <i>Materials Research Express</i> , 2019, 6, 095088.	1.6	5
15	The microstructure and properties of bronze matrix composites with surface-modified graphite by titanium carbide adhesion. <i>Tribology International</i> , 2019, 140, 105892.	5.9	8
16	Enhanced mechanical properties and electrical conductivity of graphene nanoplatelets/Cu composites by in situ formation of Mo <sub>2</sub> C nanoparticles. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019, 766, 138365.	5.6	35
17	CuO/Graphene Nanocomposite for Nitrogen Reduction Reaction. <i>ChemCatChem</i> , 2019, 11, 1441-1447.	3.7	95
18	Effect of graphene dispersion and interfacial bonding on the mechanical properties of metal matrix composites: An overview. <i>FlatChem</i> , 2019, 16, 100113.	5.6	51

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148	Enhanced electrocatalytic nitrogen reduction inspired by a lightning rod effect on urchin-like Co <sub>3</sub> O <sub>4</sub> catalyst. <i>Chemical Engineering Journal</i> , 2022, 450, 138316.	12.7	10
149	The effect of reduced graphene oxide content on the microstructural and mechanical properties of copper metal matrix composites. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2022, 856, 143921.	5.6	13
150	Tensile properties, hardness and phase formation of the nickel aluminides based composites doped with reduced graphene oxide (Al-Ni-rGO). <i>Journal of Alloys and Compounds</i> , 2022, 928, 166912.	5.5	2
151	Microstructure and Properties of a Graphene Reinforced Cu-Cr-Mg Composite. <i>Materials</i> , 2022, 15, 6166.	2.9	2
152	CO <sub>2</sub> /O <sub>3</sub> nanohybrids to enhance the anticorrosion performance of chemically bonded ceramic coatings. <i>Materials and Corrosion - Werkstoffe Und Korrosion</i> , 2023, 74, 320-328.	1.5	2
153	Synergistically enhanced peroxidase-like activity of Fe <sub>3</sub> O <sub>4</sub> /Ti <sub>3</sub> C <sub>2</sub> MXene quantum dots and its application in colorimetric determination of Cr (VI). <i>Sensors and Actuators B: Chemical</i> , 2023, 376, 132979.	7.8	19
154	The wear and electrical performance of Cu-CNTs composites with network structure CNTs fabricated by multi-directional forging. <i>Nano</i> , 0, , .	1.0	0
155	Microstructure and properties of graphene nanoplatelets reinforced AZ91D matrix composites prepared by electromagnetic stirring casting. <i>Journal of Materials Research and Technology</i> , 2022, 21, 4138-4150.	5.8	109
156	Microstructures and Mechanical Properties of Carbon-Added Ti Composites Fabricated by Laser Powder Bed Fusion or Spark Plasma Sintering. <i>Materials Transactions</i> , 2023, 64, 54-60.	1.2	2
157	Effects of mixing methods on the interface and microstructure evolution of graphene platelets/Ti-6Al-4V powder composites fabricated by powder metallurgy and extrusion. <i>Surfaces and Interfaces</i> , 2023, 36, 102553.	3.0	2
158	Atomistic Investigation of Titanium Carbide Ti <sub>8</sub> C <sub>5</sub> under Impact Loading. <i>Metals</i> , 2022, 12, 1989.	2.3	1
159	Effect of Processing Techniques on Interface Bonding of Graphene Reinforced Metal Matrix Composites: A Review. <i>Jom</i> , 0, , .	1.9	0
160	Inhomogeneous copper matrix composites reinforced by RGO/Cu composite foams with high electrical conductivity, tensile strength and fracture elongation. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2023, 867, 144500.	5.6	0
161	Tailoring strength-ductility of titanium matrix composites reinforced with graphene nanoplatelets. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2022, 861, 144386.	5.6	5
162	The graphene nanoplatelets evolution and interface reaction of graphene nanoplatelets/TA15 composites by pre-sintering and hot extrusion. <i>Vacuum</i> , 2023, 209, 111783.	3.5	1
163	Engineering Electrical and Thermal Attributes of Two-Dimensional Graphene Reinforced Copper/Aluminium Metal Matrix Composites for Smart Electronics. <i>ECS Journal of Solid State Science and Technology</i> , 2022, 11, 127001.	1.8	24
164	Microstructure and properties of graphene oxide reinforced copper-matrix composite foils fabricated by ultrasonic assisted electrodeposition. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2023, 872, 144995.	5.6	9

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165	In-situ synthesized TiC/Ti-6Al-4V composites by elemental powder mixing and spark plasma sintering: Microstructural evolution and mechanical properties. <i>Journal of Alloys and Compounds</i> , 2023, 947, 169557.	5.5	18
166	Continuous confined interfacial design in graphene/Cu composites with structural integrity enables improvement of comprehensive properties. <i>Composites Part A: Applied Science and Manufacturing</i> , 2023, 169, 107525.	7.6	5
167	Fabrication of graphene/Cu composites with in-situ grown graphene from solid carbon source. <i>Journal of Materials Research and Technology</i> , 2023, 24, 2372-2384.	5.8	1
168	Graphene-reinforced metal matrix composites: fabrication, properties, and challenges. <i>International Journal of Advanced Manufacturing Technology</i> , 2023, 125, 2925-2965.	3.0	10
169	A review on interfacial structure optimization and its mechanism on the properties of carbon reinforced metal-matrix composites. <i>Composite Interfaces</i> , 2023, 30, 543-583.	2.3	7
170	Highly-conductive, durability and flexible graphene-metal brazed strip and its heat-dissipation performance. <i>Ceramics International</i> , 2023, 49, 18671-18677.	4.8	0
171	Thermal conductivity and mechanical properties of graphite/Mg composite with a super-nano CaCO <sub>3</sub> interfacial layer. <i>IScience</i> , 2023, 26, 106505.	4.1	0
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174	Synergistic influence of carbon nanotube-graphene oxide hybrid and nanosized interfacial TiC on the mechanical performance of Cu matrix composites. <i>Journal of Materials Research and Technology</i> , 2023, 25, 2866-2879.	5.8	1
175	Interfacial reaction and interfacial strengthening mechanism of graphene nanosheets reinforced powder metallurgy nickel-based superalloy composite. <i>Materials Characterization</i> , 2023, 205, 113282.	4.4	1
176	Panorama of physico-mechanical engineering of graphene-reinforced copper composites for sustainable applications. <i>Materials Today Sustainability</i> , 2023, 24, 100560.	4.1	1
177	Interface and mechanical properties of graphene/copper composite with sonication induced Au decoration of graphene. <i>Powder Technology</i> , 2023, 430, 118979.	4.2	0
178	An Experimental Investigation into the Dry Reciprocating Wear Behavior of Additively Manufactured AlSi10Mg Alloys. <i>Jom</i> , 2024, 76, 250-267.	1.9	1
179	Spall characteristics of three-dimensional graphene networks with embedded copper: A molecular dynamics study. <i>Mechanics of Materials</i> , 2023, 186, 104803.	3.2	0
180	Effect of structural modification on the thermophysical properties of graphite films/diamond sandwich copper thermally conductive composite film. <i>Diamond and Related Materials</i> , 2023, 140, 110446.	3.9	0
181	Microstructure evolution and mechanical properties of graphene reinforced Ti-6Al-4V matrix composites: Defective vs high-quality graphene. <i>Journal of Alloys and Compounds</i> , 2023, 969, 172346.	5.5	1
182	A comparison study of the strengthening effect of carbon nanomaterial reinforcements in the 3D skeleton-reinforced copper matrix composites. <i>Diamond and Related Materials</i> , 2024, 141, 110580.	3.9	0
183	Effect of interface bonding and properties of graphite/copper composites by microwave pressure sintering. <i>Journal of Alloys and Compounds</i> , 2024, 976, 173009.	5.5	1

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186	Effects of the graphene content on mechanical properties and corrosion resistance of aluminum matrix composite. <i>Journal of Materials Research and Technology</i> , 2024, 28, 1900-1906.	5.8	1
187	Toughening and strengthening of Cu-coated carbon nanotubes reinforced AZ61 magnesium matrix nanocomposites by improving interfacial bonding. <i>Diamond and Related Materials</i> , 2024, 142, 110788.	3.9	1
188	Effects of Cu, Si and Mg additions on the interfacial properties and mechanical properties of Be/Al composites: First-principles calculations and experimental studies. <i>Surfaces and Interfaces</i> , 2024, 46, 103971.	3.0	0
189	The Preparation and Properties of In Situ Grown Oriented Nitrogen-Doped Graphene-like/Copper Composite Materials. <i>ACS Applied Electronic Materials</i> , 2024, 6, 1396-1404.	4.3	0
190	Robust wear performance of graphene-reinforced high entropy alloy composites. <i>Carbon</i> , 2024, 224, 119040.	10.3	0