

# Xiaoyi Liu

## 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.

27  
papers

489  
citations

12  
h-index

22  
g-index

27  
ext. papers

566  
ext. citations

5.2  
avg, IF

3.85  
L-index

#	Paper	IF	Citations
27	Tunable Poisson's ratio and tension-compression asymmetry of graphene-copper nanolayered composites. <i>Journal Physics D: Applied Physics</i> , <b>2021</b> , 54, 165303	3	
26	Theoretical analysis of high strength and anti-buckling of three-dimensional carbon honeycombs under shear loading. <i>Composites Part B: Engineering</i> , <b>2021</b> , 219, 108967	10	1
25	Effects of temperature and grain size on deformation of polycrystalline copper-graphene nanolayered composites. <i>Physical Chemistry Chemical Physics</i> , <b>2020</b> , 22, 4741-4748	3.6	8
24	Crack propagation in graphene monolayer under tear loading. <i>Physical Chemistry Chemical Physics</i> , <b>2019</b> , 21, 2659-2664	3.6	2
23	Nanomechanics of Graphene and Design of Graphene Composites. <i>Springer Theses</i> , <b>2019</b> ,	0.1	4
22	Grain size effects on dynamic fracture instability in polycrystalline graphene under tear loading. <i>Journal of Materials Research</i> , <b>2019</b> , 34, 2209-2217	2.5	2
21	Unusually high flexibility of graphene-Cu nanolayered composites under bending. <i>Physical Chemistry Chemical Physics</i> , <b>2019</b> , 21, 17393-17399	3.6	6
20	Interfacial anti-fatigue effect in graphene-copper nanolayered composites under cyclic shear loading. <i>Physical Chemistry Chemical Physics</i> , <b>2018</b> , 20, 7875-7884	3.6	13
19	Interfacial effect on deformation and failure of Al/Cu nanolaminates under shear loading. <i>Journal Physics D: Applied Physics</i> , <b>2018</b> , 51, 335301	3	8
18	Deformation of high density polyethylene by dynamic equal-channel-angular pressing.. <i>RSC Advances</i> , <b>2018</b> , 8, 22583-22591	3.7	6
17	Competing roles of interfaces and matrix grain size in the deformation and failure of polycrystalline Cu-graphene nanolayered composites under shear loading. <i>Physical Chemistry Chemical Physics</i> , <b>2018</b> , 20, 23694-23701	3.6	12
16	Super-elasticity and deformation mechanism of three-dimensional pillared graphene network structures. <i>Carbon</i> , <b>2017</b> , 118, 588-596	10.4	25
15	Elastic-plastic properties of graphene engineered by oxygen functional groups. <i>Journal Physics D: Applied Physics</i> , <b>2017</b> , 50, 385305	3	3
14	Radiation damage in gallium-stabilized plutonium with helium bubbles. <i>Journal of Nuclear Materials</i> , <b>2017</b> , 484, 7-15	3.3	8
13	Transformation between divacancy defects induced by an energy pulse in graphene. <i>Nanotechnology</i> , <b>2016</b> , 27, 274004	3.4	4
12	Opening the band gap of graphene through silicon doping for the improved performance of graphene/GaAs heterojunction solar cells. <i>Nanoscale</i> , <b>2016</b> , 8, 226-32	7.7	70
11	Tuning electromechanics of dynamic ripple pattern in graphene monolayer. <i>Carbon</i> , <b>2016</b> , 98, 510-518	10.4	8

10	Interfacial strengthening and self-healing effect in graphene-copper nanolayered composites under shear deformation. <i>Carbon</i> , <b>2016</b> , 107, 680-688	10.4	63
9	Quasi-Two-Dimensional SiC and SiC <sub>2</sub> : Interaction of Silicon and Carbon at Atomic Thin Lattice Plane. <i>Journal of Physical Chemistry C</i> , <b>2015</b> , 119, 19772-19779	3.8	74
8	Energy Storage: Novel Polygonal Vanadium Oxide Nanoscrolls as Stable Cathode for Lithium Storage (Adv. Funct. Mater. 12/2015). <i>Advanced Functional Materials</i> , <b>2015</b> , 25, 1766-1766	15.6	
7	Anomalous twisting strength of tilt grain boundaries in armchair graphene nanoribbons. <i>Physical Chemistry Chemical Physics</i> , <b>2015</b> , 17, 31911-6	3.6	15
6	Anisotropic growth of buckling-driven wrinkles in graphene monolayer. <i>Nanotechnology</i> , <b>2015</b> , 26, 0657014	9.14	21
5	Novel Polygonal Vanadium Oxide Nanoscrolls as Stable Cathode for Lithium Storage. <i>Advanced Functional Materials</i> , <b>2015</b> , 25, 1773-1779	15.6	49
4	Strengthening metal nanolaminates under shock compression through dual effect of strong and weak graphene interface. <i>Applied Physics Letters</i> , <b>2014</b> , 104, 231901	3.4	48
3	Anisotropic propagation and upper frequency limitation of terahertz waves in graphene. <i>Applied Physics Letters</i> , <b>2013</b> , 103, 071904	3.4	13
2	Mesosopic numerical computation model of air-diffusion electrode of metal/air batteries. <i>Applied Mathematics and Mechanics (English Edition)</i> , <b>2013</b> , 34, 571-576	3.2	3
1	Defecting controllability of bombarding graphene with different energetic atoms via reactive force field model. <i>Journal of Applied Physics</i> , <b>2013</b> , 114, 054313	2.5	23