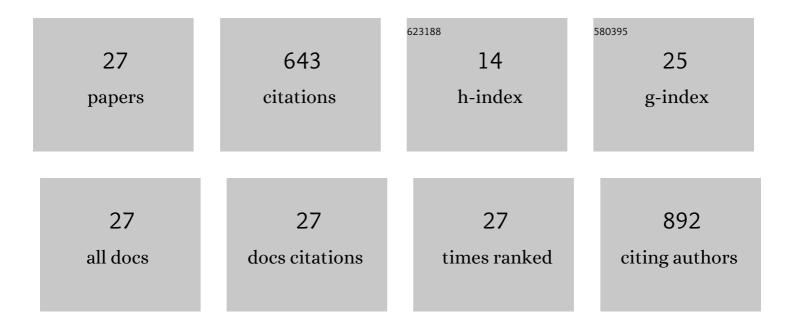
Xiaoyi Liu

List of Publications by Year in descending order

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XIAOVILIU

#	Article	IF	CITATIONS
1	Opening the band gap of graphene through silicon doping for the improved performance of graphene/GaAs heterojunction solar cells. Nanoscale, 2016, 8, 226-232.	2.8	92
2	Quasi-Two-Dimensional SiC and SiC ₂ : Interaction of Silicon and Carbon at Atomic Thin Lattice Plane. Journal of Physical Chemistry C, 2015, 119, 19772-19779.	1.5	87
3	Interfacial strengthening and self-healing effect in graphene-copper nanolayered composites under shear deformation. Carbon, 2016, 107, 680-688.	5.4	83
4	Strengthening metal nanolaminates under shock compression through dual effect of strong and weak graphene interface. Applied Physics Letters, 2014, 104, .	1.5	65
5	Novel Polygonal Vanadium Oxide Nanoscrolls as Stable Cathode for Lithium Storage. Advanced Functional Materials, 2015, 25, 1773-1779.	7.8	54
6	Super-elasticity and deformation mechanism of three-dimensional pillared graphene network structures. Carbon, 2017, 118, 588-596.	5.4	36
7	Defecting controllability of bombarding graphene with different energetic atoms via reactive force field model. Journal of Applied Physics, 2013, 114, 054313.	1.1	25
8	Anisotropic growth of buckling-driven wrinkles in graphene monolayer. Nanotechnology, 2015, 26, 065701.	1.3	23
9	Effects of temperature and grain size on deformation of polycrystalline copper–graphene nanolayered composites. Physical Chemistry Chemical Physics, 2020, 22, 4741-4748.	1.3	23
10	Anomalous twisting strength of tilt grain boundaries in armchair graphene nanoribbons. Physical Chemistry Chemical Physics, 2015, 17, 31911-31916.	1.3	17
11	Interfacial anti-fatigue effect in graphene–copper nanolayered composites under cyclic shear loading. Physical Chemistry Chemical Physics, 2018, 20, 7875-7884.	1.3	16
12	Anisotropic propagation and upper frequency limitation of terahertz waves in graphene. Applied Physics Letters, 2013, 103, .	1.5	15
13	Deformation of high density polyethylene by dynamic equal-channel-angular pressing. RSC Advances, 2018, 8, 22583-22591.	1.7	15
14	Competing roles of interfaces and matrix grain size in the deformation and failure of polycrystalline Cu–graphene nanolayered composites under shear loading. Physical Chemistry Chemical Physics, 2018, 20, 23694-23701.	1.3	15
15	Radiation damage in gallium-stabilized δ-plutonium with helium bubbles. Journal of Nuclear Materials, 2017, 484, 7-15.	1.3	11
16	Tuning electromechanics of dynamic ripple pattern in graphene monolayer. Carbon, 2016, 98, 510-518.	5.4	10
17	Interfacial effect on deformation and failure of Al/Cu nanolaminates under shear loading. Journal Physics D: Applied Physics, 2018, 51, 335301.	1.3	10
18	Unusually high flexibility of graphene–Cu nanolayered composites under bending. Physical Chemistry Chemical Physics, 2019, 21, 17393-17399.	1.3	9

Χιλογι Liu

#	Article	IF	CITATIONS
19	Transformation between divacancy defects induced by an energy pulse in graphene. Nanotechnology, 2016, 27, 274004.	1.3	6
20	Elastic–plastic properties of graphene engineered by oxygen functional groups. Journal Physics D: Applied Physics, 2017, 50, 385305.	1.3	6
21	Theoretical analysis of high strength and anti-buckling of three-dimensional carbon honeycombs under shear loading. Composites Part B: Engineering, 2021, 219, 108967.	5.9	6
22	Crack propagation in graphene monolayer under tear loading. Physical Chemistry Chemical Physics, 2019, 21, 2659-2664.	1.3	5
23	Nanomechanics of Graphene and Design of Graphene Composites. Springer Theses, 2019, , .	0.0	5
24	Mesoscopic numerical computation model of air-diffusion electrode of metal/air batteries. Applied Mathematics and Mechanics (English Edition), 2013, 34, 571-576.	1.9	4
25	Grain size effects on dynamic fracture instability in polycrystalline graphene under tear loading. Journal of Materials Research, 2019, 34, 2209-2217.	1.2	4
26	Tunable Poisson's ratio and tension-compression asymmetry of graphene-copper nanolayered composites. Journal Physics D: Applied Physics, 2021, 54, 165303.	1.3	1
27	Energy Storage: Novel Polygonal Vanadium Oxide Nanoscrolls as Stable Cathode for Lithium Storage (Adv. Funct. Mater. 12/2015). Advanced Functional Materials, 2015, 25, 1766-1766.	7.8	0